UNIVERSIDADE CATÓLICA PORTUGUESA

CENTRO REGIONAL DAS BEIRAS

DEPARTAMENTO DE CIÊNCIAS DE SAÚDE

MESTRADO INTEGRADO EM MEDICINA DENTÁRIA

OralOme – O contributo dos microrganismos revelado por estudos de proteómica

Dissertação apresentada à Universidade Católica Portuguesa

Para obtenção do grau de Mestre em Medicina Dentária

Por:

Maria dos Reis Serafim Pereira

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"Quando queremos muito uma coisa, o Universo inteiro conspira a nosso favor."

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RESUMO

O biofilme oral constitui um dos mais complexos ecossistemas existentes em superfícies biológicas. A sua complexidade deve-se à presença de um vasto número de bactérias que sintetizam proteínas com capacidade para interagir entre si, com as proteínas do hospedeiro e com o meio ambiente. As proteínas presentes na saliva e no biofilme oral desempenham funções específicas, que se traduzem num equilíbrio dinâmico deste ecossistema microbiológico, tornando-se essencial a sua identificação para a compreensão do mesmo.

A recente ferramenta bioinformática OralCard permite integrar e visualizar os dados de proteómica da cavidade oral existentes, de forma interpretativa e organizada. Na base de dados desta ferramenta existem apenas 1346 proteínas de origem microbiana identificadas na da cavidade oral. As restantes proteínas microbianas presentes nestas amostras não conseguem ser detetadas com as abordagens tradicionais utilizadas.

Este trabalho tem como objectivo utilizar dados de estudos de proteómica de identificação de proteínas expressas pelas bactérias presentes na cavidade oral *in vitro* para completar a base de dados OralOme. Da análise realizada foram obtidas 9818 proteínas que foram brevemente descritas e adicionadas à base de dados OralOme que suporta o OralCard.

Além da atualização da base de dados OralOme este trabalho permitiu ainda concluir que: i) a identificação de proteínas expressas pelas bactérias em cultura é superior à obtida na análise de amostras de tecidos orais; ii) o género para o qual foram identificadas mais proteínas foi *Streptococcus* e a espécie que tem mais proteínas presentes é *Porphyromonas gingivalis*; iii) as espécies nas quais foram catalogadas mais proteínas estão na sua maioria associadas a patologias orais e/ou sistémicas e iv) a anotação ontológica das proteínas bacterianas é ainda pouco específica havendo muitas proteínas com classificações genéricas e pouco informativas.

Palavras-chave: OralOme, OralCard, proteínas microbianas, microbioma oral, proteómica, saliva

ABSTRACT

The Oral Biofilm is one of the most complex ecosystems on biological surfaces. Its complexity is due to the presence of a large number of bacteria in the oral cavity, which express proteins that interact with each other, with environmental factors and with host proteins. The proteins present in saliva and oral biofilm play specific roles in the oral cavity, revealing the dynamical balance of this ecosystem. The identification of these proteins becomes essential to understand this ecosystem.

The recent bioinformatic tool OralCard allows the integration and visualization of published proteomic data of the oral cavity in an organized and interpretive way. The database, which supports this tool, only considers 1346 proteins of microbial origin present in the oral cavity. The remaining bacterial protein in these samples cannot be detected by the traditional approaches.

This study aims to collect data from published proteomic studies focused on bacteria found in the oral cavity cultured *in vitro* in order to enlarge the OralOme database. The results obtained compiled 9818 proteins of microbial origin, which are briefly described as to the species they were isolated from and also their ontological classifications. These proteins were added to the OralOme database.

Aside from the update of the OralOme database this study concluded that: i) the number of proteins identified as being expressed by bacteria *in vitro* cultures is larger than the number previously stored in OralOme; ii) the genus for which the majority of proteins were identified was *Streptococcus* and the species was *Porphyromonas gingivalis*; iii) the species to which more proteins were allocated are related either to oral or to systemic diseases; iv) the ontological annotation of bacterial proteins is still very unspecific and there are many proteins with abstract classifications.

Keywords: OralOme, OralCard, microbial proteins, oral microbiome, proteomics, saliva

NOTA PRÉVIA

Durante a realização deste trabalho surgiu a necessidade de manter determinadas expressões em Língua Inglesa, uma vez que a sua tradução poderia implicar a adulteração do seu sentido original. Estas expressões correspondem essencialmente a ontologias específicas utilizadas para designar conceitos biológicos, criadas por investigadores no ramo nas Ciências Ómicas, para permitir a existência de uma linguagem universal entre os diversos laboratórios (1). Esta linguagem universal permite a uniformidade na anotação de funções e na referência de processos biológicos semelhantes na comunidade científica. Uma tradução destas expressões poderia implicar uma interpretação imprecisa dos conceitos biológicos e do seu significado original que se pretende identificar no presente trabalho. Desta forma, optou-se por se incluir estes termos sem tradução, mas grafados em itálico de modo a facilitar a sua identificação.

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1. INTRODUÇÃO

A cavidade oral, para além de ser parte fundamental da anatomia e fisiologia humana integrando os sistemas digestivo e respiratório, é um dos principais ecossistemas microbiológicos presentes no ser humano, sendo por isso tão importante o conhecimento do seu funcionamento nas áreas da saúde (2).

Com todas as particularidades que a cavidade oral apresenta, nomeadamente a diversidade de estruturas anatómicas existentes (dentes, língua, palato, lábios, vestíbulos, freios), os diferentes tipos de mucosa oral (mucosa mastigatória, mucosa especializada e mucosa de revestimento) (3) e os componentes celulares presentes na saliva, plasma sanguíneo e fluído crevicular, criam-se as condições ambientais necessárias de temperatura, disponibilidade de oxigénio e de nutrientes para a existência de um dos mais complexos *habitats* no ser humano onde se desenvolvem várias comunidades microbianas (4).

O estudo das comunidades microbianas e dos mecanismos através dos quais estas atuam foi facilitado com o avanço de técnicas moleculares como a espectrometria de massa, citoquímica, técnicas de genómica, proteómica, entre outras, que permitem a compreensão deste ecossistema num nível muito mais avançado de especificidade (2).

Na saliva e no biofilme oral estão presentes milhares de proteínas de origem humana e microbiana, cujas funções específicas traduzem um equilíbrio dinâmico do ecossistema oral. Nos últimos anos têm sido realizados vários estudos na tentativa de identificar estas proteínas e compreender melhor as funções que desempenham nas vias metabólicas em que participam e nos diversos contextos fisiológicos e patológicos (5).

Com o objectivo de esclarecer o proteoma oral foi desenvolvida por investigadores Portugueses uma ferramenta bioinformática designada por OralCard já disponível online através do *link* http://bioinformatics.ua.ot/OralCard. Nesta ferramenta estão armazenadas algumas das proteínas da cavidade oral que podem ser visualizadas de forma interpretativa. Este recurso contribui, para além da clarificação do proteoma, para uma melhor compreensão do fisioma oral humano, constituindo uma mais-valia para o avanço e descoberta de novos conhecimentos na área da Microbiologia Oral com aplicação em áreas como a Medicina Dentária (2).

Neste momento, já se encontram presentes no OralCard 3528 proteínas de origem humanas e 1346 de origem microbiana (6). É expectável que existam muito mais proteínas bacterianas do que aquelas que até agora estão identificadas pela análise de amostras da cavidade oral, e, neste sentido, este trabalho foi proposto para contribuir para o desenvolvimento da base de dados OralOme, que suporta esta ferramenta bioinformática (5)

Este trabalho de investigação encontra-se estruturado em várias secções: uma Introdução teórica, na qual é feita uma revisão da literatura sobre o Estado da Arte do conhecimento e definição do Microbioma Oral, sobre a definição e caracterização atual do Proteoma Oral e a apresentação de algumas ferramenta bioinformáticas usadas nos estudos de proteómica e que são imprescindíveis à realização deste trabalho. Seguem-se os Objectivos do trabalho (gerais e específicos), a Metodologia utilizada, os Resultados obtidos e a Discussão, onde estes resultados são analisados comparativamente com a revisão da literatura e contextualizados em relação ao cumprimento dos objectivos propostos. Por fim segue-se a Conclusão, e as Referências bibliográficas.

1.1 O Microbioma Humano

O corpo humano é sede de várias comunidades microbianas e o número de células microbianas pensa-se que exceda o número de células humanas num indivíduo (7). O ser humano é estéril durante a sua gestação, e, é após o seu nascimento, que as superfícies humanas (pele, cavidade oral, intestino e outras), são colonizadas por uma variedade de microrganismos, desde bactérias, fungos, vírus (incluindo bacteriófagos) e até microrganismos do reino *arquea* (4, 7, 8). O ser humano torna-se então hospedeiro de comunidades dinâmicas de microrganismos de diferentes origens, presentes nos vários *habitas* do organismo (4).

As comunidades microbianas que colonizam o ser humano foram sofrendo evoluções ao longo dos anos e desenvolveram relações maioritariamente mutualistas com o hospedeiro, ou seja, relações de interdependência nas quais ambos (hospedeiro e espécies bacterianas) beneficiam (4). Em circunstâncias normais, o ser humano confere proteção (4) e fornece as características ambientais específicas necessárias à sobrevivência dos microrganismos, e estes, por sua vez, intervêm na fisiologia humana através de processos relacionados com o desenvolvimento, nutrição (ajudam na digestão de alimentos), imunidade e participam nos processos de resistência a microrganismos patogénicos (7, 8)

Cada microbioma presente no corpo humano ocupa um nicho ecológico único no qual vários factores selecionam os seus membros e delimitam as suas dimensões. Estes factores incluem a temperatura e a humidade do meio, a disponibilidade de oxigénio e de nutrientes, a osmolaridade, os receptores do hospedeiro, a competição entre os diferentes microrganismos (pelos seus produtos de metabolismo e pelos substratos resultantes do metabolismo humano),

as características da resposta imunológica inata e adquirida do hospedeiro e a própria modulação dessa resposta mediante a interação com o microbioma (4).

Os vários estudos efetuados ao microbioma humano revelam que existe uma enorme variabilidade, mesmo entre indivíduos saudáveis, dos microrganismos que ocupam os diversos *habitats* do indivíduo (5). Esta diversidade tem sido difícil de explicar, porque embora os microbiomas sejam distintos (nenhum indivíduo apresenta o mesmo microbioma que outro devido às diferenças nas espécies bacterianas existentes) as funções que desempenham são semelhantes e traduzem-se em estados fisiológicos nos diferentes indivíduos (4, 5). Estas diferenças estão provavelmente relacionadas com factores genéticos do hospedeiro, com factores ambientais, e com factores relacionados com a dieta ou a exposição microbiana prévia (5). Apesar destas diferenças inter-individuais, o microbioma mantem-se estabilizado para cada indivíduo ao longo do tempo (5, 9).

As variações na abundância e distribuição dos microrganismos, alteram o seu potencial patogénico e poderão determinar a diferença entre estados fisiológicos e patológicos (6, 10-12). Por exemplo, uma reduzida diversidade dos microrganismos da flora intestinal, pode estar relacionada com condições patológicas como a obesidade ou a doença intestinal inflamatória (4, 5), pelo contrário, uma elevada diversidade de microrganismos da flora vaginal pode levar à presença de vaginose bacteriana (5).

1.1.1 Os estudos ao Microbioma Humano

Os primeiros estudos a ser desenvolvidos no sentido da exploração do microbioma humano foram estudos de identificação das bactérias *in situ* através de técnicas de coloração que evidenciam características fisiológicas das bactérias, como a coloração de Gram (8). Esta técnica, descrita por Hans Gram em 1884, segue um protocolo no qual as bactérias são tratadas com agentes químicos específicos, e consoante as características da morfologia e estrutura da parede celular que apresentam, podem dividir-se em 4 grupos de resultados diferentes (cocos Gram + , cocos Gram - , bastonetes Gram + e bastonetes Gram -)(13). Apesar destas técnicas de identificação *in situ* serem eficazes, elas são pouco específicas ao nível da taxonomia (8). Estas técnicas são também designadas por técnicas dependentes de cultura, uma vez que é necessário isolar e cultivar um microrganismo específico em laboratório para o seu estudo, fazendo a sua identificação através de amostras inoculadas em meios de cultura específicos para cada grupo de microrganismos. Assim, torna-se possível a

observação das características morfológicas das colónias, do seu crescimento e do seu metabolismo em meios diferentes (8). Estas técnicas têm limitações uma vez que existem muitos microrganismos que não são cultiváveis em laboratório, mas para microrganismos como *Escherichia coli,* que cresce facilmente em meio de cultura, estas técnicas são uma mais-valia (8).

Por volta de 1980 surgiram as técnicas independentes de cultura, que analisam o DNA extraído diretamente de uma amostra do microbioma e não da cultura de um microrganismo isolado. Estas técnicas permitem o estudo de diversos aspectos da comunidade microbiana, tais como a diversidade taxonómica (saber quantos microrganismos de cada espécie estão presentes na comunidade), e o estudo do metagenoma (saber que funções biológicas estas espécies desempenham na comunidade) (8). Esta análise integrada do microbioma, é sem dúvida um grande passo para a compreensão da complexidade de interações que os microrganismos estabelecem entre si e com o hospedeiro (4, 14).

Uma das técnicas para o estudo dos microrganismos numa população complexa centra-se na caracterização molecular do DNA através da análise dos genes ribossomais da sub-unidade 16S. Estes genes possuem sequências extremamente bem conservadas (8), que distinguem cada microrganismo pelo seu filo, género e mesmo espécie, dependendo da sequência específica presente (4). As técnicas independentes de cultura, que extraem DNA da comunidade microbiana pesquisando genes de interesse, incluem técnicas de hibridização (como a FISH, *Fluorescence in situ hybridization* (15)) ou técnicas de PCR (*Polymerase Chain Reaction*) com a amplificação de genes alvo (8, 9).

Com o advento destas novas técnicas e posteriormente com o desenvolvimento de técnicas de *high-throughput* (8, 14, 16) passou a ser mais fácil e rápida a sequenciação do DNA das amostras dos microbiomas, e os estudos de metagenómica passaram a ser cada vez mais comuns (8).

1.1.2 *Human Microbiome Project* (HMP)

Para melhor compreender o papel do microbioma na fisiologia e fisiopatologia humana, o *National Institutes of Health* (NIH) fundou em 2007 o *Human Microbiome Project* (HMP) (17-19). Este projeto tem como objetivo a exploração do microbioma humano,

identificando as diversas espécies que são comuns nos indivíduos apesar da variabilidade existente. Através das técnicas de metagenómica referidas na secção anterior, que se centram na análise do genoma dos microrganismos de um determinado ambiente através da extração do seu DNA, é possível ter acesso aos genes das bactérias que não são cultiváveis e desta forma aumentar a compreensão sobre as suas funções (8). Estas técnicas têm permitido grandes avanços na descoberta do microbioma humano, tornando possível a identificação, distinção e caracterização dos diversos microrganismos, proporcionando uma melhor compreensão dos mesmos nos diversos *habitats.* O projeto HMP serve de suporte a diversos estudos de investigação em Microbiologia (12), e tem como principal objetivo contribuir para a obtenção de uma melhor qualidade de vida das populações através do conhecimento, monitorização e manipulação do microbioma (17).

Para a elaboração deste projeto foram estudadas um total de 4788 espécies bacterianas presentes em 242 indivíduos saudáveis residentes nos Estados Unidos da América (129 homens e 113 mulheres) (5). Foram recolhidas amostras de 18 *habitats* diferentes nas mulheres e 15 nos homens, de 5 regiões do corpo humano: cavidade oral e orofaringe (saliva, mucosa oral, gengiva queratinizada, palato, amígdalas, faringe, laringe, placa dentária supra e subgengival); pele (região retroauricular e fossa antecubital); fossas nasais, trato gastro-intestinal inferior e vagina (5, 7). Para avaliar a estabilidade do microbioma foram recolhidas amostras de 131 desses indivíduos em dois momentos distintos com 219 dias de diferença. Após o controlo de qualidade das amostras, os espécimes foram analisados pelas técnicas de metagenómica de análise das sequências de RNA ribossomal da sub-unidade 16S (4, 5, 12, 17, 20) e através de pirosequenciamento 454 (5, 21).

O *Human Microbiome Project* (HMP) foi um passo fundamental para exploração do microbioma humano e continua em permanente atualização (resultante de novos estudos). Através do *site* deste projeto (http://www.hmpdacc.org/) pode aceder-se a este repositório central de informação sobre as bactérias presentes nos diversos *habitats* considerados no corpo humano (17).

1.2 O Microbioma Oral

O microbioma oral é um dos mais estudados devido à facilidade de obtenção de amostras da flora oral, no entanto, estima-se que 53% das espécies presentes ainda não se encontrem devidamente identificadas e que 35% das espécies ainda estejam por cultivar (16).

Até ao momento, e dependendo das fontes consultadas, já foram identificadas cerca de 600 espécies presentes na cavidade oral (16). Este é um locais do organismo humano onde existe maior variabilidade bacteriana (5, 12). Mesmo entre indivíduos saudáveis esta variabilidade é grande, pois cada pessoa apresenta o seu microbioma distinto. No ecossistema oral são inúmeros os fatores que interagem para o estabelecimento de um equilíbrio dinâmico, como a dieta, fatores ambientais e a exposição ao microbioma oral (5). A disponibilidade de oxigénio, de determinados nutrientes, e as variações de pH (22), o sistema imunitário do hospedeiro, a temperatura, a humidade, a osmolaridade, a existência de diferentes receptores, as diferentes estratégias de competição, e a resistência a outros microrganismos são também alguns dos factores que modelam este equilíbrio de forma a garantir as defesas do organismo e o desempenho de inúmeras funções biológicas na cavidade oral (4).

A manutenção do funcionamento do ecossistema microbiológico oral deve-se às moléculas existentes na saliva e à sua interação, da qual resultam as propriedades deste fluído. Estas moléculas têm origem em secreções provenientes das glândulas salivares, do plasma sanguíneo, do fluído crevicular, da língua e mucosa oral mas também do próprio microbioma oral em que as espécies crescem sobretudo sob a forma de biofilme (6, 23).

1.2.1 Formação do biofilme

O primeiro passo para a formação do biofilme oral é a adesão das comunidades microbianas às superfícies dos dentes (22, 24), que segue um padrão de colonização sucessiva dos diferentes microrganismos colonizadores (22). Logo após a erupção dentária ou após uma higienização completa da cavidade oral, as superfícies dos dentes ficam cobertas por moléculas originadas na saliva nomeadamente proteínas ricas em prolina, glicoproteínas, aglutininas e mucinas (24) e por produtos de secreção das bactérias existentes na flora oral (22). Desta forma, passam a existir as condições necessárias para a colonização dos primeiros microrganismos através de mecanismos de adesão célula-célula (25) ou célula hidroxihapatite revestida de película salivar. Estes mecanismos incluem o reconhecimento das adesinas a receptores oligossacarídeos, reacções do tipo lectina, interações proteína-proteína e ligações iónicas e hidrofóbicas entre os microrganismos e o substrato (24).

Os primeiros colonizadores incluem bactérias de vários géneros como *Streptococcus*, *Actinomyces*, *Veillonella* e *Neisseria,* entre outras (24). A presença dos primeiros colonizadores e o resultado das suas interações influencia e seleciona posteriormente a

colonização por outras espécies bacterianas (24), contribuindo assim para a maturação do biofilme (25). As outras espécies de microrganismos que vão surgindo no biofilme são designadas por colonizadores secundários e são, na maioria dos casos, espécies anaeróbias obrigatórias. Os colonizadores secundários ligam-se às espécies já aderidas através de mecanismos de adesão receptor-adesina, designando-se este processo por co-agregação ou co-adesão. É assim construída assim uma rede complexa e estruturada e multiespecífica que constitui o biofilme (22). Este biofilme apesar de atingir uma comunidade *climax*, tem uma dinâmica muito própria quer no espaço quer no tempo.

1.2.2 Alterações no Microbioma Oral

A compreensão dos mecanismos moleculares subjacentes ao equilíbrio dinâmico entre microbioma oral e hospedeiro é de extrema importância para a Medicina Dentária pois as interações e modificações que ocorrem no biofilme oral são o principal fator etiológico de infeções orais comuns como a Cárie e a Periodontite (16). O modo de vida das bactérias em biofilme apresenta características singulares e pode ter consequências nefastas para o hospedeiro, mediante alterações ambientais específicas como o pH, a temperatura, a disponibilidade de oxigénio e de nutrientes (15, 22, 24). O modo de vida em biofilme torna o combate a alguns agentes microbianos patogénicos especialmente difícil.

As comunidades microbianas uma vez aderidas a superfícies, que podem ser bióticas e abióticas, não se comportam da mesma maneira como, por exemplo, quando suspensas em meio líquido (25). Em biofilme estas comunidades conseguem atuar em conjunto, e assim participarem na etiologia de infeções como a Endocardite Bacteriana, infecções do ouvido médio, infecções associadas a dispositivos médicos, infecções pulmonares crónicas, Osteomielite, Fibrose Cística, Doença Periodontal (15) e Cárie dentária (25). As comunidades microbianas quando presentes em biofilme formam agregados tridimensionais através de uma rede complexa de interações e mecanismos moleculares específicos pelos quais comunicam (*quorum sensing signal molecules* (25, 26)), desenvolvendo deste modo estratégias de crescimento e sobrevivência (25). Outra das estratégias desenvolvidas em biofilme é a resistência a antibióticos, uma vez que há uma maior dificuldade por parte destas substâncias de se difundirem na matriz extracelular que suporta e nutre estas comunidades microbianas (25). As bactérias presentes no biofilme conseguem ainda atuar ao nível da modulação dos

mecanismos imunológicos do hospedeiro conduzindo a quadros clínico-patológicos como a Doença Periodontal (15, 25).

Perante as mudanças que ocorrem no ecossistema oral em determinados estados patológicos, as bactérias vão alterar o seu padrão de expressão genética de forma a sobreviver. A ocorrência de cárie está associada ao aumento da frequência no consumo de açucares que são convertidos em produtos de fermentação ácidos, induzindo a diminuição de pH do meio. Esta alteração ambiental seleciona bactérias acidogénicas e ácido-tolerantes como *Streptococci*, *Lactobacilli* (15), *Acrinomyces*, *Prevotellae* e ocasionalmente fungos como *Candida* (24).

Na Doença Periodontal, o aumento da placa conduz a uma resposta inflamatória no hospedeiro, que se traduz numa aumento do fluído crevicular, na presença de sangramento e aumento da temperatura local. Estas alterações aumentam os componente de defesa do hospedeiro, mas também proporcionam substratos (proteínas e glicoproteínas) essenciais para o aparecimento e desenvolvimento de anaeróbios obrigatórios e espécies proteolíticas no biofilme subgengival. Este padrão proteolítico do metabolismo leva a um ligeiro aumento do pH, o que também é favorável a espécies como *Porphyromonas gingivalis*, *Prevotella intermedia* e *Fusobacterium nucleatum*, cujo pH ótimo é de 7,5. Estas mudanças no ambiente durante a inflamação alteram a expressão genética destas bactérias, por exemplo, a *Porphyromonas gingivalis* aumenta a sua atividade proteolítica por aumento da expressão e da atividade das proteases (incluindo as gingipans). A presença de heme no meio e o próprio aumento do pH que vão estimular ainda mais esta atividade (15). Por tudo isto, a identificação apropriada das bactérias presentes no biofilme e a compreensão do seu potencial genético nos estados de saúde e patologia do hospedeiro torna-se fundamental para o diagnóstico e terapêutica de patologias (16). Uma vez que as moléculas efetoras na maioria dos casos são proteínas é essencial o conhecimento do proteoma oral para a total compreensão dos mecanismos moleculares presentes em condições fisiológicas e patológicas.

1.3 Proteoma Oral

A identificação das proteínas presentes na saliva e em todo o biofilme oral é essencial, pois são elas que, a nível molecular, desempenham funções determinantes para a existência do equilíbrio dinâmico da cavidade oral (27). Também nesta área, e à semelhança do descrito para a metagenómica, os avanços técnicos têm evoluído exponencialmente e técnicas de *high-*

-*throughput* dominam os estudos de proteómica. A análise proteómica de amostras de tecidos orais como saliva, fluido crevicular, mucosa e biofilme oral entre outros, tem sido amplamente efectuada e originado uma quantidade massiva de dados (2). Estes estudos têm permitido identificar as várias classes de proteínas presentes nestas amostras e nas secções seguintes é apresentado o caso de um grupo de proteínas, as proteases, cuja importância em termos de saúde oral está bem estabelecida.

1.3.1 Proteases bacterianas

Todas as espécies bacterianas produzem uma variedade de enzimas, entre elas proteases que desempenham funções específicas permitindo o desenvolvimento e sobrevivência destas espécies em cada *habitat* (28). As proteases são produzidas pelas bactérias sobretudo para a sua nutrição. Através da sua atividade proteolítica, conseguem degradar proteínas do hospedeiro e desta forma obter aminoácidos essenciais para a sobrevivência da bactéria (29). As protéases bacterianas desempenham também funções de defesa, conseguindo neutralizar os diversos tipos de resposta imunológica do hospedeiro (inata e adquirida), sendo por isso consideradas importantes factores de virulência (28). Estas proteínas apresentam diferentes níveis de especificidade, enquanto umas atuam especificamente sobre um substrato, outras conseguem degradar uma variedade enorme de proteínas (28).

1.3.2 Proteases bacterianas como fator de virulência

As bactérias presentes na cavidade oral expressam uma variedade de proteases, libertadas para o biofilme, onde vão atuar através de mecanismos distintos. Estas proteases podem ter uma ação direta sobre os tecidos através da destruição da matriz extra-celular, por exemplo, ou uma ação indireta através da ativação das proteases do hospedeiro ou da inativação de mecanismos de inibição das mesmas, promovendo também a atuação destas sobre os tecidos periodontais (29).

A *Porphyromonas gingivalis* é uma bactéria amplamente estudada e os seus factores de virulência são bem conhecidos. Estes factores incluem várias proteases das quais se destacam um grupo característico, as gingipains (30). As gingipans são enzimas proteolíticas que têm um papel fundamental no aparecimento e progressão da Doença Periodontal (30, 31). As gingipans têm uma participação direta na destruição dos tecidos através da degradação da matriz extra-celular pela indução das metaloproteinases de matriz (MMP's) nos fibroblastos (29). Algumas destas proteases também promovem o aumento da permeabilidade vascular, a ativação de factores de coagulação, a degradação de fibrina e o aumento da produção de fluído crevicular, levando ao aumento da inflamação e consequente perda óssea (31).

As gingipans conseguem ainda inativar importantes intervenientes da resposta imunológica do hospedeiro, nomeadamente macrófagos CD14, inibindo assim ativação dos leucócitos (29). Também conseguem degradar antibióticos peptídeos naturais e α e β defensinas (28). Um dos mecanismos de defesa do hospedeiro é a libertação, ao nível do epitélio gengival juncional, de IL-8 , uma citocina pro-inflamatória que promove a afluência de neutrófilos ao local. A *Porphyromonas gingivalis* consegue também inibir a produção desta interleucina através da secreção de uma protease do tipo serina fosfatase (SerB) combatendo assim as defesas do hospdeiro (30).

1.3.3 Estado de arte do proteoma oral

Como mencionado nas secções anteriores muitas proteínas bacterianas presentes no ecossistema oral estão envolvidas em patologias orais como a Cárie e Doença Periodontal. Vários trabalhos têm sido desenvolvidos no sentido da compreensão das funções destas proteínas e do seu potencial uso como alvos terapêuticos (31).

A análise do fluido salivar e a detecção das proteínas nele existentes tem sido realizada, por técnicas de geração massiva de dados designadas por técnicas de *high throughput* de proteómica, existindo um grande número de publicações nas quais são identificadas várias proteínas de origem humana (32). No referente às proteínas microbianas, existe comparativamente um menor volume de dados, não só no número de estudos que as identificam mas também na quantidade de proteínas encontradas (5, 23).

A identificação de proteínas de origem bacteriana de amostras de tecidos orais está ainda no início devido a várias razões técnicas relacionadas com o processamento inicial das

amostras. Por um lado nestas amostras a abundância relativa e concentração de proteínas microbianas é presumivelmente menor, o facto de existirem nestas amostras muitas proteases bacterianas torna a preservação da amostra um passo crucial. Por outro lado há dificuldades associadas à interpretação dos dados brutos obtidos por espectrometria de massa, dada a complexidade das amostras e a falta de anotação que existe nas proteínas de origem microbiana (5, 33).

1.4 Ferramentas bioinformáticas para o Estudo do Proteoma Oral

A disponibilidade de uma grande diversidade e quantidade de dados de genómica e proteómica origina um dos maiores desafios atuais, na organização e integração de dados. A análise e gestão de todos estes dados torna-se confusa e impraticável se não estiverem devidamente integrados em bases de dados com ferramentas bioinformáticas associadas que organizem os diferentes tipos de informação (16). As ferramentas bioinformáticas são essenciais para a compreensão da contribuição do microbioma humano para a saúde e para o estudo de alvos terapêuticos em caso de doença (8). Nas secções seguintes são apresentadas algumas das ferramentas bioinformáticas usadas neste estudo.

1.4.1OralOme e OralCard

O OralCard é uma ferramenta bioinformática criada por investigadores portugueses do Departamento de Ciências da Saúde da Universidade Católica Portuguesa do Centro Regional das Beiras juntamente com investigadores do Instituto de Engenharia Electrónica e Telemática da Universidade de Aveiro. O OralCard – *Web Information System for Oral Health*, disponível através do *link* http://bioinformatics.ua.pt/OralCard/, tem como objetivos a integração e compilação dos microrganismos e proteínas presentes na cavidade oral. Esta informação é integrada numa só base e pode ser usada para a clarificação dos mecanismos moleculares da biologia oral humana (34). Através da compilação das proteínas presentes no microbioma oral é possível a identificação de marcadores moleculares úteis no diagnóstico de diversas patologias orais e sistémicas e a identificação de novas moléculas como potenciais alvos terapêuticos (6, 27).

Em Dezembro de 2011 foram adicionadas ao OralCard 3397 proteínas de origem humana (32). Estas proteínas foram identificadas em estudos de proteómica da saliva e revistas manualmente. Em Abril de 2012 foram adicionadas à base de dados mais 1212 proteínas determinadas em estudos experimentais no decorrer de mais um trabalho de investigação (23). Neste momento já se encontram presentes no OralCard 3528 proteínas humanas e 1346 microbianas (6). No entanto é expectável que existam muito mais proteínas microbianas do que aquelas que até agora estão identificadas nos estudos de proteómica de amostras orais (5), e, neste sentido, este trabalho foi proposto para permitir a atualização da base de dados OralOme, que serve de suporte à ferramenta bioinformática OralCard (6).

Os diversos estados patológicos não têm como responsáveis apenas um microrganismo, mas sim o resultado das interações entre comunidades microbianas, e do seu potencial patogénico (2, 10). Cada processo biológico deve ser encarado como uma rede de interações moleculares, e não como resultado de uma ação independente de cada interveniente (26). Deste modo é importante esclarecer estas interações à luz da proteómica, o que se torna viável através da adição destes dados em ferramentas bioinformáticas, nomeadamente o OralCard (6) e outras ferramentas em desenvolvimento como o OralInt (artigo submetido).

1.4.2 UniProtKB

A base de dados UniProtKB foi criada através de um consórcio entre várias associações, nomeadamente a *Swiss Institute of Bioinformatics* (SIB), *European Bioinformatics Institute* (EBI) e a *Protein Information Resource (PIR)*. O principal objectivo deste consórcio criado em 2002, foi fornecer à comunidade científica uma fonte útil e fiável de informação de dados relativos a proteínas (35).

O UniprotKB ou *Uniprot Knwoledgebase* é o principal produto deste consórcio, e consiste numa base de dados, associada a diversas ferramentas bioinformáticas acessíveis através do *site* http://www.uniprot.org. Neste site encontram-se depositados dados relativos a proteínas, nomeadamente as suas sequências e informações funcionais. Esta base de dados de conhecimento, como o próprio nome sugere, é composta por duas secções distintas: a UniprotKB/Swiss-Prot, na qual os dados existentes foram manualmente anotados e revistos e a UniprotKB/TrEMBL que é uma base de dados onde estão depositadas as sequências de nucleótidos/aminoácidos obtidas por sequenciação de proteínas. Estas duas secções fazem em

conjunto a cobertura de todas as proteínas caracterizadas até ao momento ou inferidas através das sequências de nucleótidos (35).

1.4.3 STRAP

O programa STRAP, *Software Tool for Researching Annotations of Proteins* , consiste numa ferramenta bioinformática muito prática e abrangente de análise de proteínas e da compreensão do seu significado biológico nos diversos contextos (1). Esta ferramenta inclui uma base de dados onde estão presentes proteínas identificadas por espectrometria de massa e por outras técnicas, juntamente com a anotação de informação relativa a essas mesmas proteínas. Esta informação passa pela descrição das funções das proteínas, pela identificação de interações proteína-proteína e das associações entre as proteínas às diferentes vias metabólicas (1). Este *software* permite ao utilizador aceder a todos estes dados de uma forma simplificada e intuitiva através de representações gráficas e tabelas que organizam a informação, permitindo assim economizar tempo na análise de dados.

O STRAP contém meta-informação sobre estas proteínas e permite ainda a obtenção dos termos *gene ontology (GO)* sobre as mesmas através das bases de dados UniprotKB (*Uniprot Knwoledgebase)* e EBI GOA *(Gene Ontology Annotation)*. Estes termos GO consistem numa ontologia criada por investigadores e laboratórios, para permitir a existência de uma linguagem universal para a anotação de funções, especificação da localização celular e designação dos processos biológicos em que estão envolvidas as proteínas identificadas (1).

Nesta ferramenta bioinformática é possível visualizar os dados de uma amostra de proteínas através de gráficos circulares, que as organizam em termos de processo biológico, função molecular e componente celular, e através de gráficos de barras, que permitem a comparação de conjuntos de amostras. Esta potencialidade do STRAP auxilia significativamente a interpretação de grandes conjuntos de dados de proteómica possibilitando a realização de análises diferenciais (1).

2. OBJECTIVOS

2.1 Objectivo geral

Este estudo tem como objetivos fazer o levantamento de proteínas de origem microbiana presentes na cavidade oral e adicionar esta informação à base de dados OralOme, permitindo o desenvolvimento e enriquecimento da ferramenta bioinformática OralCard.

2.2. Objectivos específicos

Identificar as proteínas de origem microbiana através da pesquisa bibliográfica de artigos referentes a cada bactéria presente na cavidade oral em estudos *in vitro* e não em amostras de tecidos orais.

Adicionar as proteínas de origem microbiana identificadas à base de dados OralOme que suporta a Ferramenta Bioinformática OralCard.

Avançar na identificação, caracterização e previsão das proteínas de origem bacteriana presentes na cavidade oral disponíveis para interagir com o hospedeiro,

3. MATERIAIS E MÉTODOS

3.1 Definição do Microbioma Oral

O microbioma normal da cavidade oral foi considerado como o conjunto de bactérias identificadas através do projeto HMP (*Human Microbiome Project*). No *site* dedicado à divulgação destes dados (http://www.hmpdacc.org/) foi feito o levantamento das bactérias identificadas até ao momento na cavidade oral (17, 36). A partir do *link* referido, foi selecionado o campo *Microbiome analysis,* e posteriormente a opção *Project Catalog*. De seguida foi feita a seleção do campo *Oral* e da coluna *All human associated* na tabela intitulada "*Human Microbiome Projects*". Desta forma, foi obtida uma tabela, designada neste estudo como Tabela Inicial, na qual estavam registadas 419 bactérias presentes na cavidade oral (levantamento feito em Outubro de 2012).

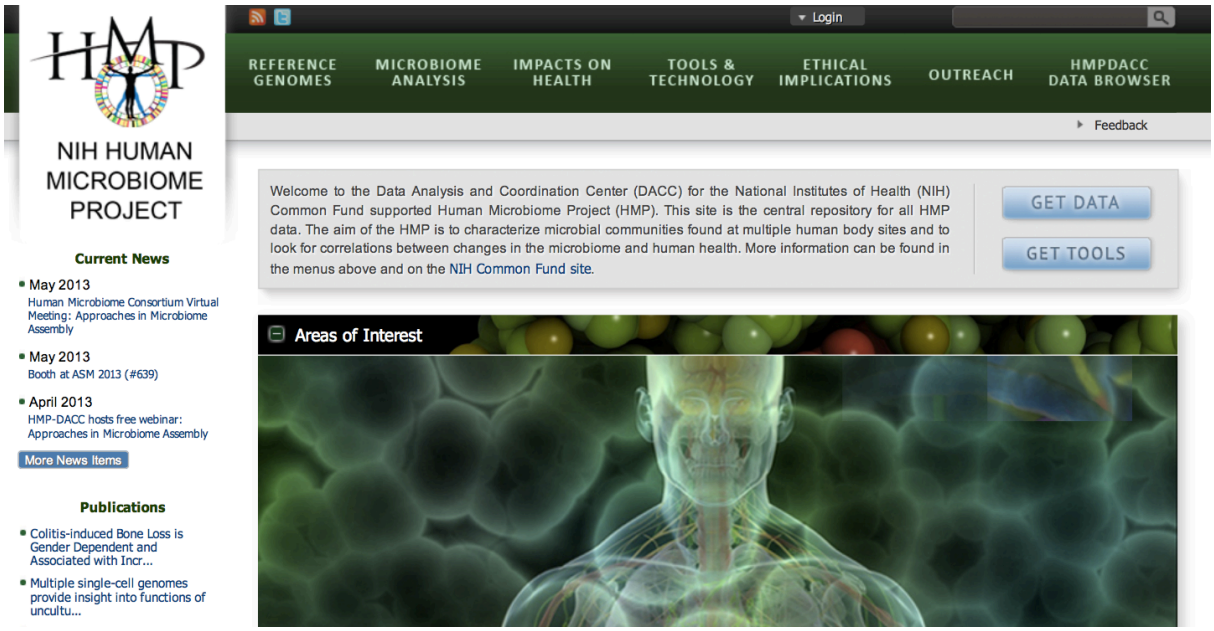


Figura 1. Página Web inicial do Projeto HMP (*Human Microbiome Project*) obtida através do *site* http://www.hmpdacc.org/.

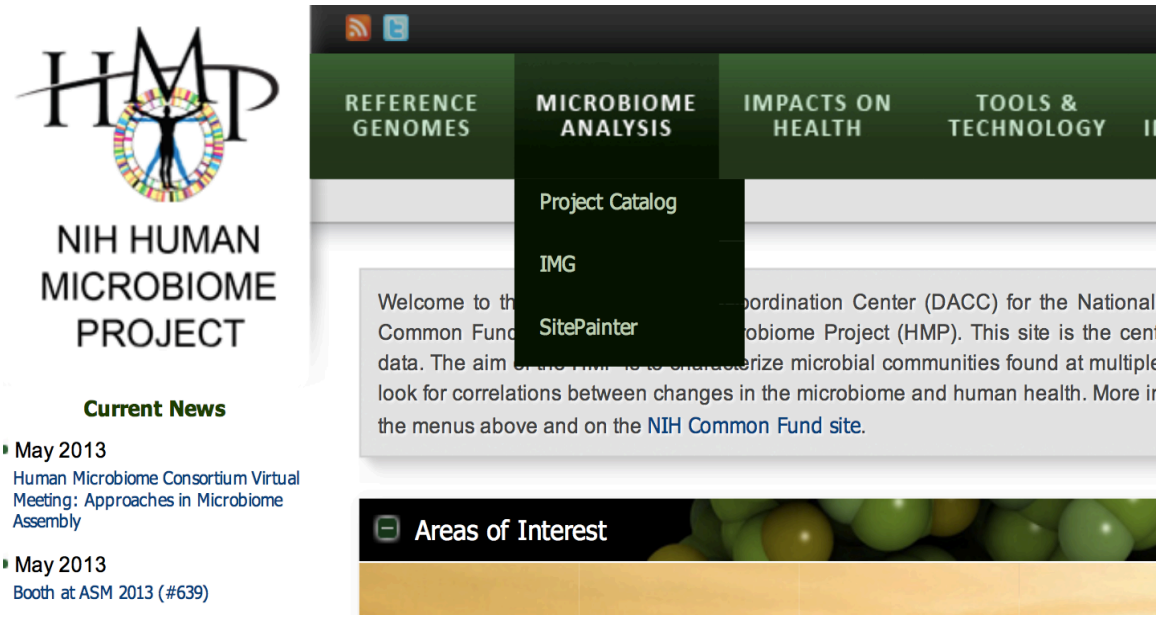
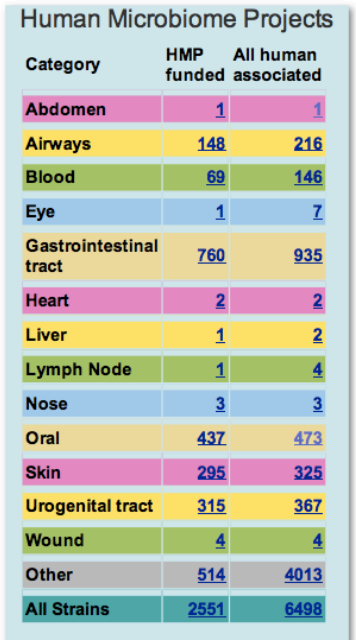


Figura 2. Seleção do campo *Microbiome Analysis* e posteriormente da opção *Project Catalog*.



Human Microbiome Projects

Category	HMP funded	All human associated
Abdomen	1	1
Airways	148	216
Blood	69	146
Eye	1	7
Gastrointestinal tract	760	935
Heart	2	2
Liver	1	2
Lymph Node	1	4
Nose	3	3
Oral	437	473
Skin	295	325
Urogenital tract	315	367
Wound	4	4
Other	514	4013
All Strains	2551	6498

Figura 3. Seleção da interseção dos campos *Oral* e *All human associated*.

Help Add / Remove Columns

HMP...	GOLD ID	Organism Name	Domain	NCBI Superking...	All Body Sites	*HMP Isolation Body...*
1	Gi03551	Abiotrophia defectiva ATCC 49176	BACTERIAL	Bacteria	Oral	Oral
43	Gi03560	Actinobaculum P1 oral taxon 183 F0...	BACTERIAL	Bacteria	Oral	Oral
46	Gi03562	Actinomyces israelii	BACTERIAL	Bacteria	Oral	Oral
50	Gi01705	Actinomyces odontolyticus ATCC 17...	BACTERIAL	Bacteria	Oral	Oral
63	Gi02604	Aeromicrobium marinum DSM 15272	BACTERIAL	Bacteria	Oral	Oral
80	Gi03601	Anaeroglobus geminatus F0357	BACTERIAL	Bacteria	Oral	Oral
86	Gi03355	Atopobium rimae ATCC 49626	BACTERIAL	Bacteria	Oral	Oral
155	Gi03611	Bacteroidetes sp. F0093	BACTERIAL	Bacteria	Oral	Oral
156	Gi03510	Bacteroidetes oral taxon 274 str. F0058	BACTERIAL	Bacteria	Oral	Oral
170	Gi04691	Bifidobacterium dentium	BACTERIAL	Bacteria	Oral	Oral
185	Gi04693	Brevundimonas diminuta 470-4	BACTERIAL	Bacteria	Oral	Oral
191	Gi03348	Campylobacter gracilis RM3268	BACTERIAL	Bacteria	Oral	Oral
192	Gi03349	Campylobacter rectus RM3267	BACTERIAL	Bacteria	Oral	Oral
193	Gi03534	Campylobacter showae RM3277	BACTERIAL	Bacteria	Oral	Oral
196	Gi03661	Capnocytophaga gingivalis ATCC 33...	BACTERIAL	Bacteria	Oral	Oral
197	Gi03356	Capnocytophaga sputigena ATCC 3...	BACTERIAL	Bacteria	Oral	Oral
200	Gi03629	Catonella morbi ATCC 51271	BACTERIAL	Bacteria	Oral	Oral
299	Gi03489	Corynebacterium matruchotii ATCC ...	BACTERIAL	Bacteria	Oral	Oral
300	Gi03522	Corynebacterium matruchotii ATCC ...	BACTERIAL	Bacteria	Oral	Oral
313	Gi04649	Cryptobacterium curtum ATCC 700683	BACTERIAL	Bacteria	Oral	Oral
327	Gi02718	Dialister invisus DSM 15470	BACTERIAL	Bacteria	Oral	Oral
335	Gi03252	Eikenella corrodens ATCC 23834	BACTERIAL	Bacteria	Oral	Oral

Results: 473 View Current Filter(s) Clear All Filter(s) Clear Sort(s) Export To Excel Export To CSV Print

Figura 4. Representação da Tabela Inicial obtida do *site* do *Human Microbiome Project* (HMP) para as bactérias presentes na cavidade oral após as seleções das categorias mencionadas no texto.

Para a obtenção da tabela inicial (419 bactérias) foram selecionados os campos de maior interesse para o presente estudo, nomeadamente o HMP ID (código de identificação da bactéria de acordo com o *Human Micromiome Project*), o *Organism Name* (no qual é identificada a bactéria pelo nome da espécie e eventualmente da estirpe, por exemplo *Porphyromonas gingivalis* W50), o *Domain* (o domínio Bactéria ao qual pertencem estes microrganismos), o NCBI *taxon* ID (código de identificação da bactéria pelo *National Center for Biotechnology*), o *All Body Sites* (que identifica o local onde estas bactérias foram identificadas, ou seja, na cavidade oral) e o HOMD ID (código de identificação da bactéria de acordo com o *Human Oral Micromiome Database*) (16). Esta última anotação corresponde a uma base de dados anterior ao HMP e foi útil pois permitiu nalguns casos identificar/distinguir melhor a espécie em questão .

A lista das bactérias presentes na Tabela Inicial exportada do *site* do HMP e posteriormente na tabela usada como base deste trabalho encontra-se descriminada na **Tabela 1**, presente na secção Anexos. A tabela resultante após estas seleções foi exportada para um ficheiro Microsoft Excel® 2010, onde serviu de base para a elaboração do presente trabalho de investigação, e portanto passará a ser designada como Tabela Base (**Tabela 2**, secção Anexos).

3.2 Pesquisa bibliográfica de proteínas microbianas expressas na cavidade oral

Após a obtenção da lista das 419 bactérias identificadas na cavidade oral, foi feita uma pesquisa bibliográfica usando o nome de cada uma dessas bactérias seguida da palavra *"proteom*"* (Exemplo: "*Klebsiella* sp. OBRC7 proteom*") no repositório de citações de literatura bibliográfica *PubMed* (http://www.ncbi.nlm.nih.gov/books/NBK3827). Assim, foi feito o levantamento da bibliografia publicada referente à identificação de proteínas em estudos sobre estas bactérias.

Foi adicionada uma nova coluna na tabela do Microsoft Excel® 2010 (exportada do HMP) com o título *Pubmed* , onde foram introduzidos os códigos dos artigos (através do identificador presente no *PubMed,* o PMID ou PubMed identifier) resultantes da pesquisa efetuada correspondente às bactérias presentes na **Tabela 1** (Anexos). Uma vez que para a mesma bactéria eram muitas vezes obtidos diversos artigos na pesquisa, houve necessidade de, nesses casos, acrescentar linhas para a mesma bactéria de modo a que todos os códigos correspondentes aos estudos sobre esse microrganismo se encontrassem todos na coluna com o título "Pubmed" e numa célula individual.

	A	B	C	D	E	F	G	H	I	J
1	HMP ID	Organism Name	Domain	NCBI Taxon ID	All Body Sites	All Body Subsites	HMP Isolation Body Site	HMP Isolation Body Subsite	HOMD ID	Pubmed
252	9353	Treponema denticola F0402	BACTERIAL	699187	Oral		Oral		HOMD: tax_584	22808953
253	9353	Treponema denticola F0402	BACTERIAL	699187	Oral		Oral		HOMD: tax_584	20007650
254	9353	Treponema denticola F0402	BACTERIAL	699187	Oral		Oral		HOMD: tax_584	19572900
255	9415	Acidaminococcus sp. Oral Taxon 129	BACTERIAL	904	Oral		Oral		HOMD:tax_129	
256	9416	Veillonellaceae [G-1] sp. oral taxon 155	BACTERIAL	671235	Oral		Oral		HOMD:tax_155	
257	9419	Prevotella nigrescens ATCC 33563	BACTERIAL	997352	Oral		Oral		HOMD: tax_693	
258	9421	Streptococcus australis ATCC 700641	BACTERIAL	888833	Oral		Oral		HOMD: tax_73	
259	9422	Streptococcus cristatus ATCC 51100	BACTERIAL	889201	Oral		Oral		HOMD: tax_578	
260	9425	Streptococcus vestibularis ATCC 49124	BACTERIAL	889206	Oral		Oral		HOMD: tax_21	
261	9429	Megasphaera micronuciformis F0359	BACTERIAL	706434	Oral		Oral		HOMD: tax_122	

Figura 5. Figura representativa da Tabela Base do Microsoft Excel® 2010 com o nome das bactérias presentes na cavidade oral na coluna B e os artigos encontrados através da pesquisa presentes na coluna J. Como exemplo, para *Treponema denticola* F0402 foram encontrados 3 artigos e por isso foram acrescentadas mais linhas para essa mesma bactéria para os códigos dos artigos poderem estar todos presentes na coluna J e cada um numa célula individualizada.

Aos 186 estudos obtidos foi feita uma primeira seleção através da leitura dos seus resumos para localizar os artigos em que fosse feita a identificação de proteínas. Com base neste critério, os artigos que interessavam para este estudo foram marcados com a cor verde na Tabela Base. Os artigos que não identificavam proteínas experimentalmente, fazendo apenas a sua previsão com recurso a ferramentas bioinformáticas, bem como os estudos em que as espécies/estirpes para as quais eram identificadas proteínas que não estivessem relacionadas com a cavidade oral, foram marcados a vermelho, como exemplificado na **figura 6**.

	A	B	C	D	E	F	G	H	I	J
1	HMP ID	Organism Name	Domain	NCBI Taxon ID	All Body Sites	All Body Subsites	HMP Isolation Body Site	HMP Isolation Body Subsite	HOMD ID	Pubmed
252	9353	Treponema denticola F0402	BACTERIAL	699187	Oral		Oral		HOMD: tax_584	22808953
253	9353	Treponema denticola F0402	BACTERIAL	699187	Oral		Oral		HOMD: tax_584	20007650
254	9353	Treponema denticola F0402	BACTERIAL	699187	Oral		Oral		HOMD: tax_584	19572900
255	9415	Acidaminococcus sp. Oral Taxon 129	BACTERIAL	904	Oral		Oral		HOMD:tax_129	
256	9416	Veillonellaceae [G-1] sp. oral taxon 155	BACTERIAL	671235	Oral		Oral		HOMD:tax_155	
257	9419	Prevotella nigrescens ATCC 33563	BACTERIAL	997352	Oral		Oral		HOMD: tax_693	
258	9421	Streptococcus australis ATCC 700641	BACTERIAL	888833	Oral		Oral		HOMD: tax_73	
259	9422	Streptococcus cristatus ATCC 51100	BACTERIAL	889201	Oral		Oral		HOMD: tax_578	
260	9425	Streptococcus vestibularis ATCC 49124	BACTERIAL	889206	Oral		Oral		HOMD: tax_21	
261	9429	Megasphaera micronuciformis F0359	BACTERIAL	706434	Oral		Oral		HOMD: tax_122	
262	9430	Solobacterium moorei F0204	BACTERIAL	706433	Oral		Oral		HOMD: tax_678	

Figura 6. Tabela com os códigos PIMD dos artigos resultantes da pesquisa efetuada. Primeira seleção dos artigos após a leitura dos seus resumos e atribuição de cor verde aos artigos a usar e de vermelho aos restantes**.**

Os 79 artigos assinalados a verde na Tabela Base foram então lidos de forma a verificar a identificação das proteínas expressas pelas bactérias em estudo. Para tal, foi acrescentada outra coluna à tabela com a designação "Código Proteína do artigo", onde eram anotados os códigos *UniProt*, ou seja os códigos correspondentes à *Uniprot Knwoledgebase,* ferramenta bioinformática mencionada na Introdução Teórica (35).

Para se recorrer às funcionalidades do Microsoft Excel® 2010 é necessário que haja uma célula por cada código de proteína identificada pelo que houve a necessidade de repetir para um mesmo artigo tantas linhas na tabela como as proteínas identificadas por esse artigo. Obteve-se então uma tabela com a estrutura apresentada na **figura 7**.

	A	B	J	K
1	HMP ID	Organism Name	Pubmed	Código Proteína do artigo
12	1012	Bacillus sp. BT1B_CT2	9868784	
13	888	Treponema vincentii ATCC 35580	10722578	O52614
14	888	Treponema vincentii ATCC 35580	10722578	E9S6X3
15	1012	Bacillus sp. BT1B_CT2	10870960	
16	1012	Bacillus sp. BT1B_CT2	11016950	
17	1109	Streptococcus intermedius SK54, ATCC 27335	11681202	
18	9682	Streptococcus intermedius F0395	11681202	
19	1322	Porphyromonas gingivalis W50	11903053	B2RLK2
20	1322	Porphyromonas gingivalis W50	11903053	P72194
21	1322	Porphyromonas gingivalis W50	11903053	P72197
22	1322	Porphyromonas gingivalis W50	11903053	Q51817

Figura 7. Figura representativa da **Tabela Base** do Microsoft Excel® 2010 na qual foram ocultadas algumas colunas de modo a ser mais fácil a visualização da correspondência da bactéria ao artigo e ao código *UniProt* da proteína identificada no mesmo. Para as proteínas identificadas num mesmo artigo essa linha foi repetida.

No decorrer do trabalho, verificou-se que algumas das proteínas identificadas nos artigos selecionados, eram expressas em bactérias cuja correspondência com a designação presente na tabela inicial exportada do *Human Microbiome Project* (HMP) não era exata. Uma vez que a nomenclatura das bactérias tem sofrido várias alterações recentes, o critério para a inclusão ou não dessas proteínas na Tabela Base foi o facto de ter sido verificado na literatura que a bactéria na qual foi identificada a proteína já ter sido descrita na cavidade oral. Um exemplo é a *Porphyromonas gingivalis* W83 que não está presente na lista original de bactérias (**Tabela 1** secção Anexos) ao contrário de, por exemplo, *Porphyromonas gingivalis* W50, que já se encontra. A decisão de incluir ambas as estirpes prende-se com o facto de, na literatura, *Porphyromanas gingivalis* W83 também estar descrita como presente na cavidade oral (37).

Nalguns artigos as proteínas identificadas nas bactérias não especificavam a estirpe, de modo que, tal como na situação anterior, foi considerado que, se indubitavelmente a bactéria estivesse na cavidade oral, ela seria acrescentada à lista ainda que apenas com o nome da espécie sem especificar a estirpe.

As bactérias acrescentadas à Tabela Base foram as seguintes:

- *Bacillus cereus* (foi adicionada à tabela uma linha com o nome da espécie porque o artigo não apresentava informação sobre a estirpe da bactéria);
- *Bacillus cereus* AH820;
- *Bacillus cereus* ATTC 14579;
- *Bacteroidetes oral taxon* 274 estirpe F0058;
- *Bacteroidetes* sp. F0093;
- *Enterococcus faecalis* (estirpe ATCC 47077 / OG1RF);
- *Enterococcus faecalis* V583;
- *Fusobacterium nucleatum* subsp. *Nucleatum*;
- *Fusobacterium nucleatum* subsp. *polymorphum* ATCC 10953;
- *Lactobacillus plantarum* WCFS2;
- *Lactobacillus plantarum* WCFS3;
- *Lactobacillus plantarum* WCFS3;
- *Porphyromonas gingivalis* (foi adicionada a tabela uma linha com o nome da espécie porque o artigo não apresentava informação sobre a estirpe da bactéria);
- *Porphyromonas gingivalis* (estirpe ATCC 33277);
- *Porphyromonas gingivalis* (W83);
- *Salmonella enterica* (foi adicionada a tabela uma linha com o nome da espécie porque o artigo não apresentava informação sobre a estirpe da bactéria);
- *Salmonella enteric*a subsp. *enterica* serovar Newport estirpe CVM36720;
- *Streptococcus agalactiae* serotipo III (estirpe NEM316);
- *Streptococcus agalactiae* serotipo V (estirpe ATCC BAA-611 / 2603 V/R);
- *Streptococcus gordonii* (DL1);
- *Streptococcus mutans*; (foi adicionada a tabela uma linha com o nome da espécie porque o artigo não apresentava informação sobre a estirpe da bactéria);
- *Streptococcus mutans* serotipo c (estirpe ATCC 700610 / UA159);
- *Streptococcus pneumoniae* (estirpe ATCC BAA-255 / R6);
- *Streptococcus pneumonia*e serotipo 4 (estirpe ATCC BAA-334 / TIGR4);
- *Streptococcus pyogenes*; (foi adicionada a tabela uma linha com o nome da espécie porque o artigo não apresentava informação sobre a estirpe da bactéria);
- *Streptococcus pyogenes* serotipo M1;
- *Streptococcus pyogenes* serotipo M1 ;
- *Streptococcus pyogenes* serotipo M2;

- *Treponema denticola*; (foi adicionada a tabela uma linha com o nome da espécie porque o artigo não apresentava informação sobre a estirpe da bactéria);

Durante a identificação das proteínas microbianas para as bactérias presentes na Tabela Base, verificou-se que, na grande maioria dos casos, estas se encontravam apenas identificadas pelo nome do gene codificador dessa mesma proteína. Foi necessário então fazer a conversão da identificação do gene para o código identificador das proteínas correspondentes. Isto foi executado pela inserção deste identificador (nome do gene e da bactéria correspondente) no portal Web da ferramenta bioinformática UniProt*KB* através do *link* http://www.uniprot.org (35), obtendo-se então a conversão para o código *UniProt* identificador da proteína em questão **(figura 8)**. Esta conversão teve de ser realizada individualmente para cada proteína. A título de exemplo, num estudo relativo a *Streptococcus mutans* serotipo c (estirpe ATCC 700610/UA159) as proteínas identificadas para esta bactéria estavam identificadas pelo nome do gene, ou seja, SMU_664. Esta designação foi então inserida no portal web do UniProt*KB* no campo "Query" seguida do nome da bactéria (SMU_664 AND *Streptococcus mutans* serotype c (strain ATCC 700610/UA159), resultando na identificação do código *UniProt* correspondente **(figura 8)**.

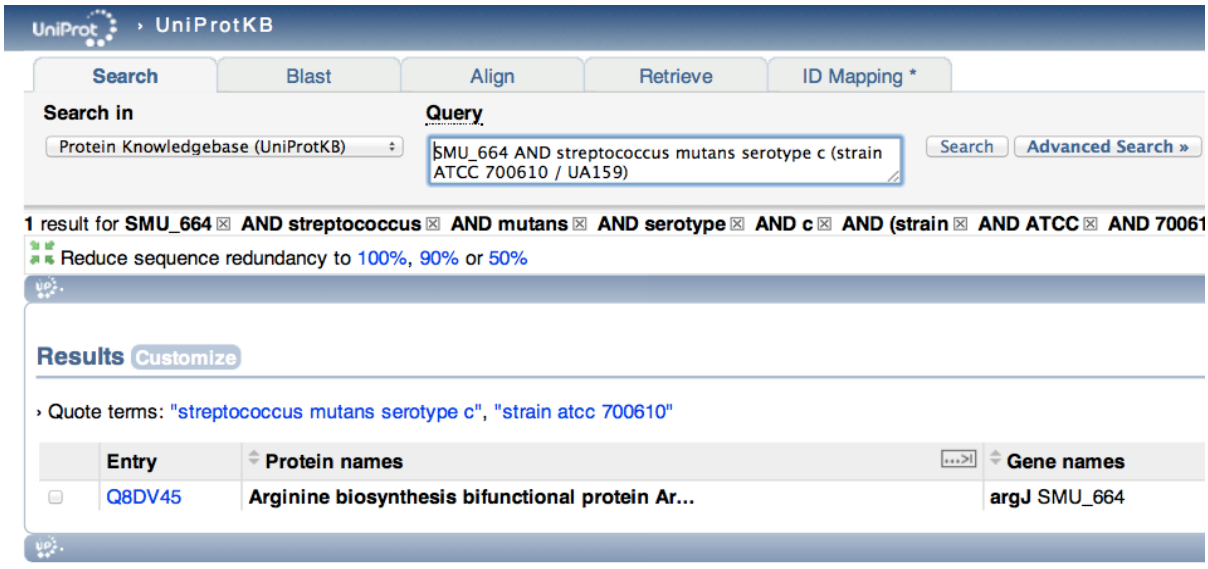


Figura 8. Figura obtida do portal Web da ferramenta bioinformática UniProtKB (http://www.uniprot.org) representativa da conversão do nome do gene (SMU_664), relativo a uma proteína identificada de *Streptococcus mutans* serotipo c (estirpe ATCC 700610/UA159), para o respectivo código Uniprot (Q8DV45).

3.3 Catalogação das proteínas microbianas com recurso ao programa STRAP

Após o levantamento de todas as proteínas microbianas, resultantes da revisão manual dos artigos selecionados, e a sua introdução na Tabela Base (em células individualizadas na coluna "Código Proteína do artigo" de modo a haver correspondência com as bactérias a que eram relativas), estas foram exportadas para um novo documento do Microsoft Excel® 2010, de modo a serem contabilizadas. Para a contagem das proteínas microbianas identificadas procedeu-se à remoção de códigos *UniProt* repetidos através da opção "Remoção de duplicados" deste programa, uma vez que a mesma proteína poderia ter sido identificada várias vezes na mesma bactéria mas em estudos diferentes. Foi obtido um total de 9818 proteínas.

Posteriormente, para se proceder à catalogação das 9818 proteínas microbianas identificadas, foi utilizada a ferramenta "Retrieve" no UniProtKB, que identificou alguns dos códigos do *UniProt* que já não se encontravam atualizados (obtidos diretamente de artigos que identificavam as proteínas com esta anotação), mostrando o código atual para essa proteína, o que permitiu fazer a substituição na lista total de proteínas identificadas.

A base de dados do UniProtKB também serviu para verificar o estado de revisão das proteínas identificadas. As proteínas que obtiveram a designação *Reviewed* correspondem a proteínas que foram revistas e anotadas manualmente através de informação obtida da literatura existente, as proteínas que obtiveram a designação *Unreviewed* correspondem a registos originados informaticamente com recurso a algoritmos, e que aguardam ainda por uma revisão manual.

Para a realização de uma análise mais detalhada das proteínas microbianas identificadas, nomeadamente a identificação das suas odontologias: *Celular Componet*, *Molecular Function* e *Biological Process* recorreu-se à ferramenta bioinformática STRAP (*Software Tool for Researching Annotations of Proteins)*, mencionada na secção da Introdução (1).

As proteínas microbianas identificadas foram adicionadas à base de dados OralOme.

4. RESULTADOS

4.1 Catalogação geral das proteínas microbianas identificadas

Os resultados obtidos da análise dos vários artigos selecionados na pesquisa permitiram a compilação de 9818 proteínas das quais apenas 2146 estão anotadas como revistas na base de dados *UniProt Knowledge Base* (UniProtKB) (35). As proteínas compiladas correspondem a 67 das 419 bactérias analisadas. Isto significa que para 352 das bactérias identificadas na cavidade oral não existem estudos relativos à identificação de proteínas *in vitro*. Para as 67 bactérias (sobre as quais existem dados publicados) o número total de estudos obtidos foi de 186, o que significa que, para algumas dessas bactérias, existe mais do que um estudo.

A quantidade de proteínas identificadas por género bacteriano é apresentada na figura 9, em que, devido ao elevado número de géneros existentes, optámos por indicar apenas os 8 em que havia mais proteínas identificadas.

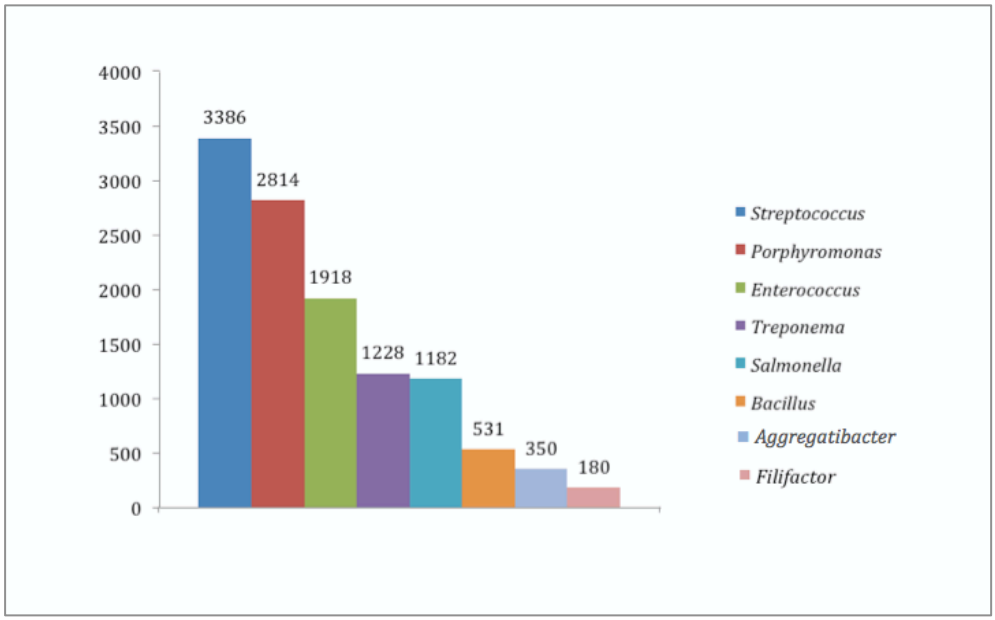


Figura 9 Géneros com maior representação no catálogo de proteínas elaborado.

Na **figura 10** é apresentada análise idêntica mas considerando agora as espécies bacterianas. Verifica-se que *Porphyromonas gingivalis* é a espécie para a qual foram identificadas mais proteínas.

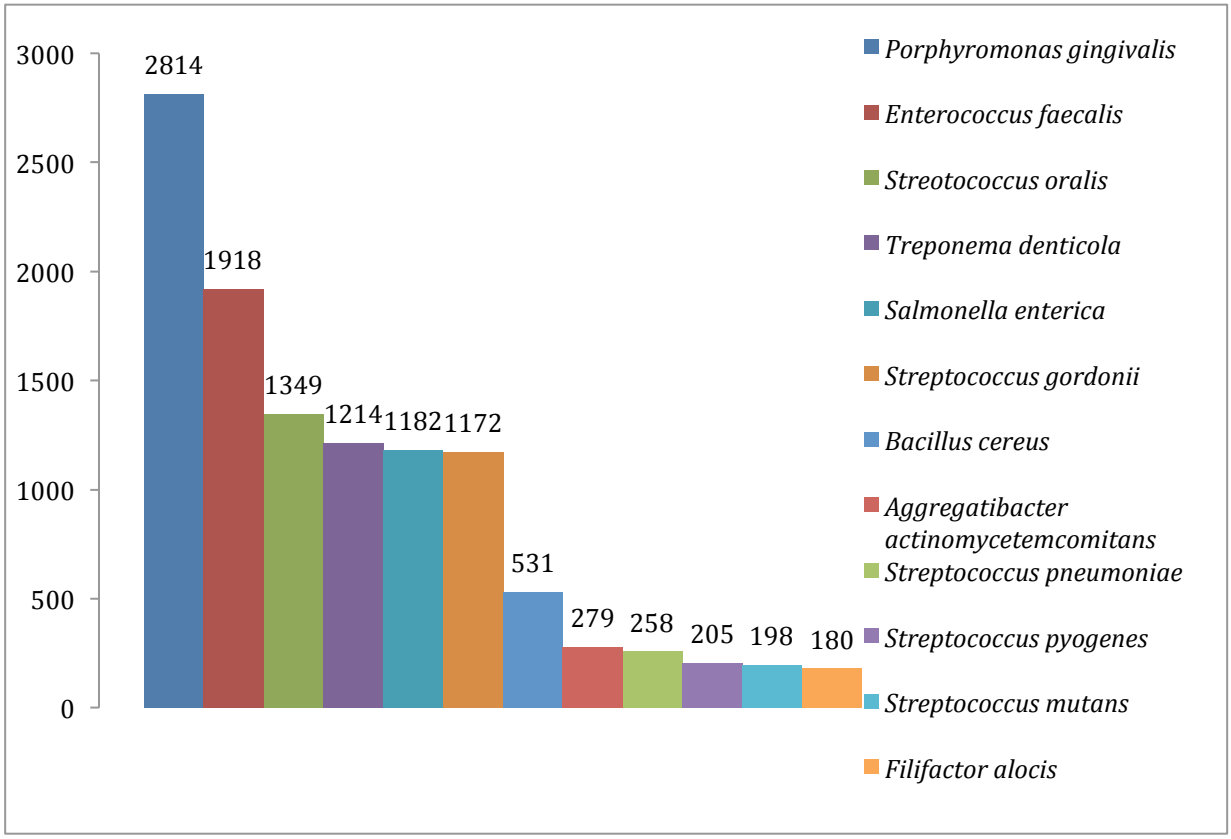


Figura 10 Espécies com maior representação no catálogo de proteínas elaborado.

4.2 Análise da classificação ontológica das proteínas microbianas

A classificação ontológica das proteínas compiladas é apresentada nas figuras seguintes.

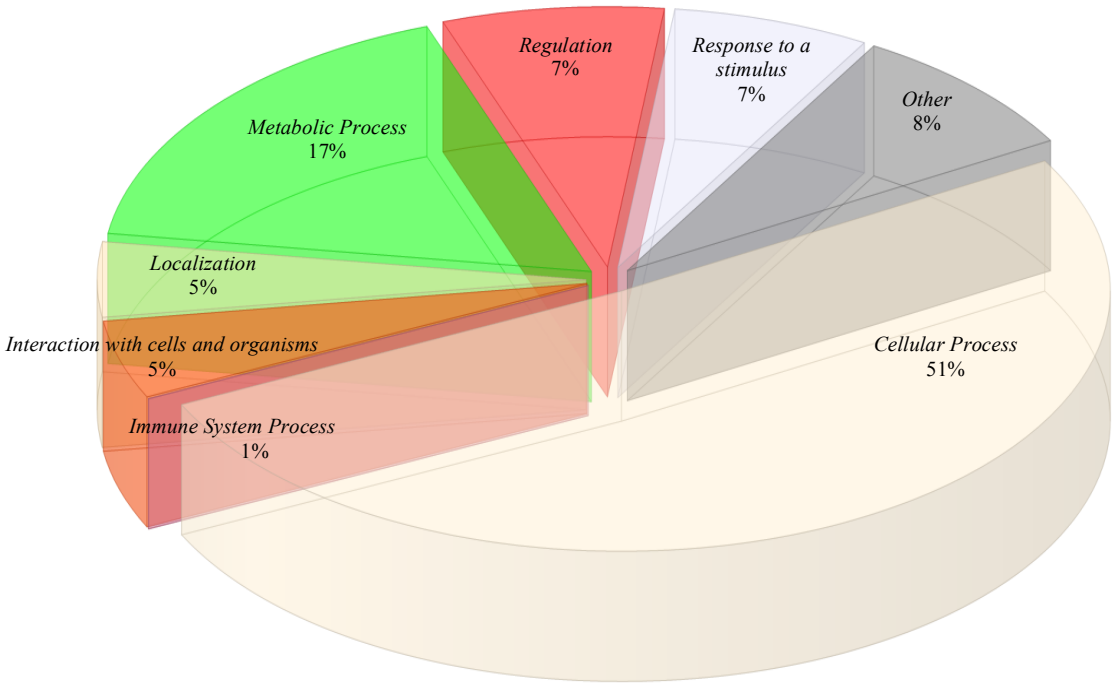


Figura 11. Classificação ontológica de acordo com o Processo Biológico (*Biological Process*) das proteínas compiladas neste estudo. A classificação foi obtida com recurso ao programa STRAP. O gráfico organiza as proteínas identificadas pelas seguintes parcelas: *Response to a stimulus*=Resposta a estímulos, *Regulation*=Regulação, *Metabolic Process*=Processo metabólico, *Localization*=Localização, *Interaction with cells and organisms*=Interação com células e organismos, *Immune System Process*=Processo do Sistema Imunológico e Outros.

Na **Figura 11** são apresentados os resultados relativos aos processos biológicos em que as proteínas compiladas intervêm. É evidente nesta figura que a grande maioria das proteínas participa em processos não identificados, incluídos nas categorias de *Cellular Process* (51%) e *Other* (8%).

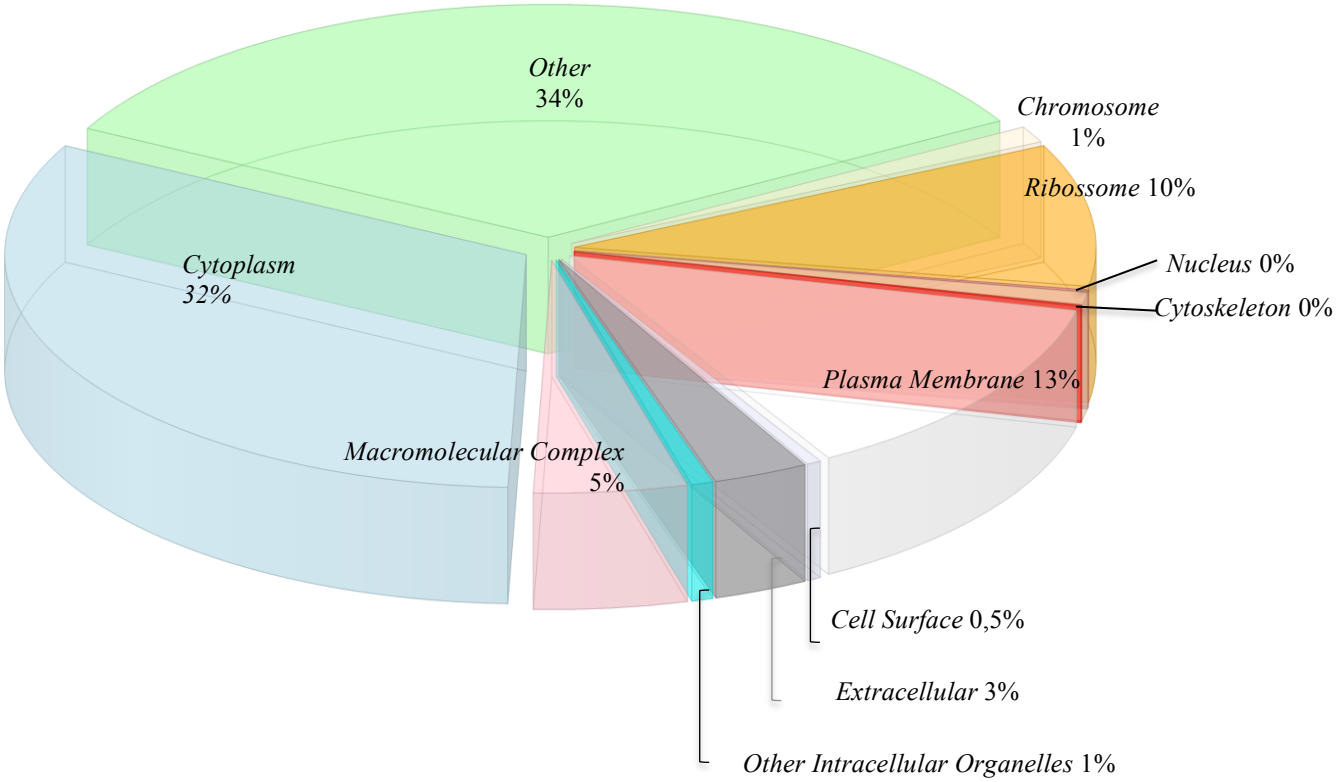


Figura 12. Classificação ontológica de acordo com o Componente Celular (*Cellular Component*) das proteínas compiladas neste estudo. A classificação foi obtida com recurso ao programa STRAP. O gráfico organiza as proteínas identificadas pelas seguintes parcelas: *Macromolecular Complex*=Complexo Macromolecular, *Chromossome*=Cromossoma, *Ribossome*=Ribossoma, *Nucleus*=Núcleo, *Cytoskeleton*=Citoesqueleto, *Plasma Membrane*=Membrana Plasmática, *Extracellular*=Extracelular, *Other*=Outros, e *Other Intracellular Organelles*=Outros Organelos Intracelulares.

Na **Figura 12** é apresentada a classificação quanto à localização celular (*Cellular Component*) das proteínas obtidas na presente análise. Da análise da **Figura 12** verifica-se que também quanto à localização celular a grande maioria das proteínas não tem uma anotação definida dado que a maioria está anotada na categoria *Other*. No entanto, é de salientar que, apesar de grande parte das proteínas estar anotada como sendo intracelular (*Cytoplasm, Chromossome, Nucleus, Other intracellular organelles*), há algumas proteínas que podem ter um papel importante em termos de interações com o hospedeiro uma vez que são extracelulares (3%) ou estão à superfície das células (0,5%).

Quanto à função molecular (*Molecular Function*) apresentada na **Figura 13**, verifica-se uma tendência idêntica, dado que categorias como *Binding* ou *Catalytic Activity* são muito genéricas e não permitem tirar conclusões quanto ao papel destas proteínas nos mecanismos biológicos que decorrem na cavidade oral.

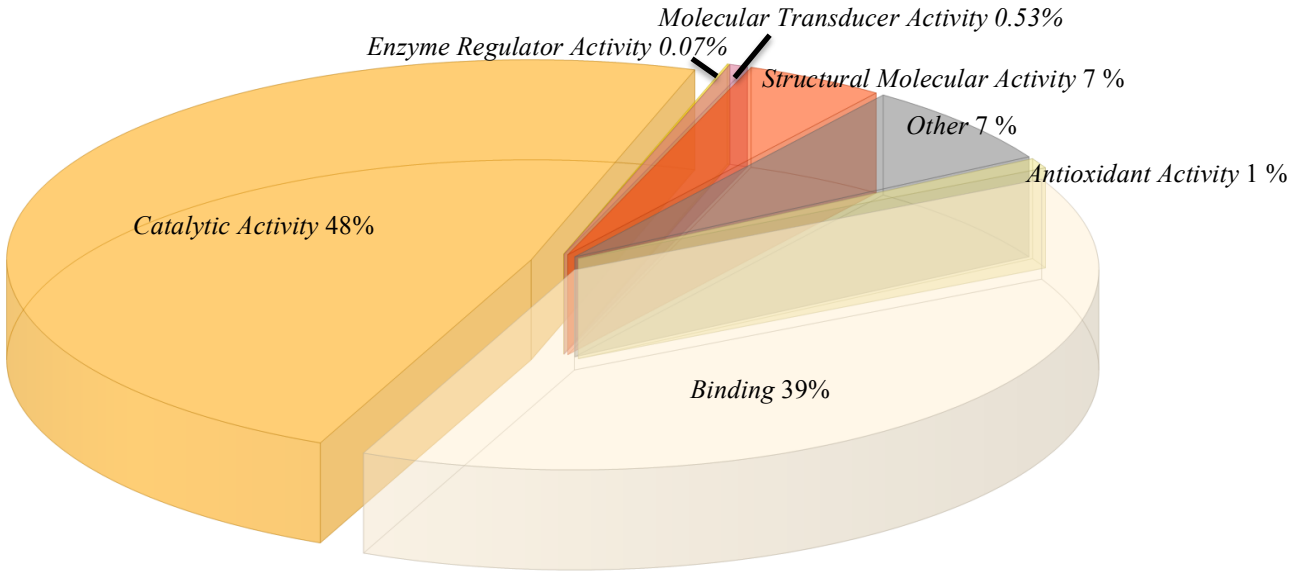


Figure 13. Classificação ontológica de acordo com a Função Molecular (*Molecular Function*) das proteínas compiladas neste estudo. A classificação foi obtida com recurso ao programa STRAP. O gráfico organiza as proteínas identificadas pelas seguintes parcelas: *Catalytic Activity*=Atividade Catalítica, *Binding*=Ligação, *Antioxidant Activity*=Atividade Antioxidante, *Structural Molecular Activity*=Actividade Molecular Estrutural, *Enzyme Regulator Activity*=Actividade de Regular Enzimático e *Molecular Transducer Activity*=Actividade Molecular de Transdução.

5. DISCUSSÃO

A definição daquilo que constitui o microbioma em saúde foi facilitada pela existência do projeto HMP mas tem-se revelado uma tarefa algo difícil dada a complexidade deste sistema e da grande evolução nas técnicas de estudo, cultivo e identificação de microrganismos que fazem com que a taxonomia sofra frequentemente alterações. Serão estes os principais motivos que explicam o facto de, por vezes, haver na literatura referência a espécies/estirpes que têm origem na cavidade oral mas que não estão referidas na base de dados do HMP com a mesma designação. De qualquer forma, dado que o objectivo maior deste trabalho era providenciar o universo mais alargado possível de proteínas de origem bacteriana possivelmente presentes na cavidade oral, foi decidido acrescentar algumas espécies à lista inicialmente obtida do HMP.

Os resultados do presente trabalho revelam que é possível inferir a presença de 9818 proteínas na cavidade oral através dos dados de estudos *in vitro* em que estas proteínas foram expressas pelas mesmas bactérias que colonizam a cavidade oral. As 9818 proteínas identificadas foram obtidas por 79 estudos utilizados relativos a técnicas de identificação de proteínas microbianas *in vitro* (37-112). Este valor é quase de uma ordem de grandeza superior ao publicado por Silveira (2012) que compilou 1212 proteínas de origem microbiana obtidas a partir de estudos de proteómica de amostras da cavidade oral (23). A grande diferença nos valores totais de proteínas pode ser explicada pelas questões metodológicas revistas recentemente por Kuboniwa (2012) em que os autores referem que "à medida que a complexidade da comunidade aumenta, um estudo metaproteómico de um sistema composto por centenas ou milhares de organismos diferentes tende a ser dominado por alguns péptidos proteotípicos" (33). Desta forma, o facto das proteínas incluídas na presente análise serem derivadas de estudos, que na sua maioria, são mono específicos, mas que incluem no máximo 4 espécies a crescer em consórcio, justifica um aumento no número de proteínas encontradas. Acresce ainda o facto de nos estudos de proteómica de tecidos da cavidade oral a complexidade da análise proteómica ser ainda aumentada pela presença de proteínas humanas que estarão em grande quantidade.

Pode ser argumentado que o facto de termos optado por analisar proteínas identificadas em estudos *in vitro* nos afasta do "cenário" real existente na cavidade oral. Quanto a este aspeto, podemos contrapor que nesta altura há evidência de que as limitações técnicas não nos permitem, com a análise de proteómica de tecidos da cavidade oral, ter ideia da grande maioria das proteínas microbianas presentes. Por outras palavras, nesta altura, a

escolha é entre não se conseguir obter a informação diretamente ou usar informação obtida em estudos *in vitro* e extrapolar para o que potencialmente pode acontecer *in vivo*.

Um outro aspeto verificado nos resultados apresentados foi a grande discrepância entre a quantidade de informação disponível na literatura para as várias espécies da cavidade oral. Esta discrepância deve-se fundamentalmente à dificuldade associada ao cultivo de muitas bactérias neste ecossistema (8). Assim, o facto de muitos dos microrganismos presentes na cavidade oral serem anaeróbios obrigatórios ou existirem em consórcios dificilmente replicáveis em laboratório (113) faz com que para a grande maioria das espécies presentes na Tabela Inicial de bactérias do *Human Microbiome Project* (**Tabela 1.** na secção Anexos) não existam estudos relativos à identificação de proteínas expressas *in vitro* (das 419 bactérias existentes na tabela foram identificados estudos da expressão de proteínas bacterianas *in vitro* apenas para 67). Verificamos que apesar de haver identificação das proteínas de relativamente poucas espécies, a mesma espécie é muitas vezes alvo de vários estudos e portanto a tabela gerada neste trabalho esta certamente "enviesada" no sentido de haver preponderância de proteínas pertencentes a bactérias muito estudadas e conhecidas.

Espécies como *Porphyromonas gingivalis,* que apesar de não ser uma das espécies bacterianas mais facilmente cultiváveis, como por exemplo *Escherichia coli* (8) é uma das espécies melhor estudadas, pela sua ligação à etiologia da Periodontite (30). É isto que explica que uma espécie anaeróbia obrigatória, assacarolítica e com alguns requisitos nutricionais específicos esteja no topo da lista das bactérias com maior número de proteínas identificadas em estudos *in vitro*. Esta bactéria tem sido extensivamente estudada principalmente no que se refere às suas proteases consideradas factores de virulência responsáveis pela destruição dos tecidos periodontais. O conhecimento da síntese (114), ação(115, 116) e inibição (117) destas proteases tem sido proposto como essencial para a definição de estratégias de diagnóstico e terapêutica da doença periodontal (118).

Apesar desta discrepância, no que se refere à informação disponível para as espécies bacterianas em particular, se considerarmos apenas os géneros, verificamos que o género comprovadamente mais abundante na cavidade oral (*Streptococcus*) (17) é dominante em termos de proteínas presentes. A abundância relativa de estudos de proteómica com *Streptococci* poderá estar não só associada ao facto de espécies deste género serem associadas a uma patologia oral muito prevalente (a Cárie Dentária), mas também ao facto de haver espécies associadas a outras patologias sistémicas como *Streptococcus pneumoniae* e

Streptococcus pyogenes. Além disso, o estudo da adesão de *Streptococci* a superfícies (orais e não só) e o papel destes microrganismos como colonizadores primários do biofilme oral tem sido explorado nos estudos de proteómica. Isto porque o conhecimento das interações entre as proteínas à superfície de *Streptococci* e as proteínas das superfícies orais e de outros microrganismos colonizadores do biofilme oral podem ter aplicações muito importantes nomeadamente no controlo da formação e desenvolvimento do biofilme oral e consequentemente na prevenção e terapêutica de patologias infecciosas da cavidade oral (54).

À primeira vista a existência de muita informação sobre *Salmonella enterica* colocando esta bactéria entre outras que estão associadas a patologias da cavidade oral (**Figura 10**) pode parecer estanha. No entanto, é preciso considerar que esta espécie tem sido bastante estudada como agente patogénico intestinal e portanto existe muita informação proteómica disponível nas bases de dados.

Os resultados apresentados neste trabalho confirmam a falta de anotação que existe em relação às proteínas bacterianas, não só pelo facto de apenas cerca de 1/5 do total de proteínas compiladas na base inicial estar revista na base de dados UniProtK*B*, mas também pela análise da classificação ontológica das proteínas presentes na tabela final. Como está patente nos resultados a grande maioria das proteínas está anotada com ontologias pouco informativas quer em relação ao processo biológico, quer em relação à localização celular, quer mesmo à função molecular das várias proteínas.

A lista de proteínas obtidas neste trabalho será utilizada para atualizar a base de dados OralOme e servirá ainda de *input* para uma ferramenta de previsão de interações entre proteínas dos microrganismos presentes na cavidade oral e proteínas do hospedeiro. Uma versão inicial desta ferramenta de interactómica (OralInt) já está disponível e foi submetida para publicação, embora apenas com as 1212 proteínas identificadas em estudos de amostras da cavidade oral (23). Como foi já largamente expresso ao longo desta discussão este número não reflete certamente a totalidade de proteínas na cavidade oral e por isso a tabela produzida com este trabalho permitirá melhorar em grande medida o desenvolvimento da ferramenta de interactómica cumprindo o objectivo maior deste trabalho.

Os dados gerados nesta compilação manual fornecem uma base para o desenvolvimento de algoritmos que permitirão o estudo das interações entre as proteínas humanas e microbianas presentes na cavidade oral. A informação sobre essas interações, por

sua vez, é essencial na compreensão dos mecanismos envolvidos em doenças infeciosas como a Cárie, Periodontite (16) e em patologias sistémicas com manifestações na cavidade oral.

6. CONCLUSÃO

As principais conclusões deste estudo são as seguintes :

1) Foram identificadas 9818 proteínas de origem microbiana obtidas em estudos *in vitro,* relativos às bactérias identificadas como presentes na cavidade oral.

2) A quantidade de proteínas potencialmente expressas por bactérias presentes na cavidade oral é muito maior (cerca de uma ordem de grandeza) que a atualmente identificada por estudos de metaproteómica de amostras salivares ou de outros tecidos orais.

3) Quando são considerados estudos de proteómica de bactérias que existem na cavidade oral, o género mais estudado é *Streptococcus* e a espécie é *Porphyromonas gingivalis*.

4) As bactérias sobre as quais existe mais informação em termos de proteómica são espécies associadas a patologias humanas orais ou sistémicas sendo que as espécies periodontopatogénicas são predominantes no conjunto das espécies com mais proteínas identificadas.

5) A anotação das proteínas bacterianas é ainda pouco específica havendo muitas proteínas cuja classificação ontológica são designações pouco informativas como: *Biological Process, Cellular Process, Cellular Localization Molecular Function, Binding* ou *Catalytic Activity* ou ainda a categoria *Other* que aparece em quase todas as classes.

6) Foi atingido o objectivo principal deste trabalho que consistia na criação de uma tabela com a identificação das proteínas potencialmente expressas pelas bactérias presentes na cavidade oral que servirá para atualizar a base de dados OralOme.

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8. ANEXOS

Tabela1. Tabela Inicial com as 419 espécies bacterianas identificadas na cavidade oral consideradas pelo *Human Microbiom Project* (HMP)

Abiotrophia defectiva ATCC 49176

Acidaminococcus sp. Oral taxon 129

Actinobaculum P1 *oral taxon* 183 F0552

Actinomyces georgiae D124H-11

Actinomyces georgiae F0490

Actinomyces israelii

Actinomyces johnsonii F0510

Actinomyces massiliensis CCUG 53522

Actinomyces massiliensis F0489

Actinomyces naeslundii MG1

Actinomyces odontolyticus ATCC 17982

Actinomyces oricola CCUG 46090

Actinomyces sp. 12T23BP

Actinomyces sp. 64A38BP

Actinomyces sp. F0340

Actinomyces sp. ICM54

Actinomyces sp. oral taxon 170 estirpe F0386

Actinomyces sp. oral taxon 171 estirpe F0337

Actinomyces sp. oral taxon 175 estirpe F0384

Actinomyces sp. oral taxon 181 estirpe F0379

Actinomyces sp. oral taxon 448 estirpe F0400

Actinomyces sp. oral taxon 848 estirpe F0332

Actinomyces sp. oral taxon 849 estirpe *F0330*

Actinomyces sp. oral taxon 877 F0543

Actinomyces sp. estirpe. ICM47

Aeromicrobium marinum DSM 15272

Aggregatibacter actinomycetemcomitans D11S-1

Aggregatibacter actinomycetemcomitans D7S-1

Aggregatibacter actinomycetemcomitans HK1651

Aggregatibacter actinomycetemcomitans Y4

Aggregatibacter aphrophilus ATCC 33389

Aggregatibacter aphrophilus F0387

Aggregatibacter aphrophilus NJ8700

Aggregatibacter segnis ATCC 33393

Aggregatibacter sp. 13H35BP

Aggregatibacter sp. 55H50BA

Anaerococcus tetradius F0127

Anaeroglobus geminatus F0357

Atopobium parvulum DSM 20469

Atopobium rimae ATCC 49626

Atopobium sp. 39H42BP

Atopobium sp. F0209

Atopobium sp. ICM42b

Atopobium sp. oral taxon 199 estirpe F0494

*Atopobium sp.*BS2

Bacillus cereus AH820

Bacillus sp. 2_A_57_CT2

Bacillus sp. BT1B_CT2

Bacteroides heparinolyticus ATCC 35895

Bacteroidetes oral taxon 274 *str.* F0058

Bacteroidetes sp. F0093

Bifidobacterium dentium

Bifidobacterium dentium Bd1

Bifidobacterium dentium JCM 1195

Bifidobacterium sp. MSTE12

Brevundimonas diminuta 470-4

Bulleidia extructa W1219

Burkholderia multivorans CGD2

Campylobacter gracilis ATCC 33236

Campylobacter gracilis RM3268

Campylobacter rectus ATCC 33238

Campylobacter rectus RM3267

Campylobacter showae ATCC 51146

Campylobacter showae RM3277

Campylobacter sp. estirpe FOBRC14

Candida dubliniensis CD36

Capnocytophaga gingivalis ATCC 33624

Capnocytophaga granulosa ATCC 51502

Capnocytophaga ochracea DSM 7271

Capnocytophaga ochracea F0287

Capnocytophaga ochracea estirpe Holt 25

Capnocytophaga sp. 106H31BP

Capnocytophaga sp. 64A16BP

Capnocytophaga sp. oral taxon 324 estirpe F0483

Capnocytophaga sp. oral taxon 326 estirpe F0382

Capnocytophaga sp. oral taxon 329 estirpe F0087

Capnocytophaga sp. oral taxon 332 estirpe F0381

Capnocytophaga sp. oral taxon 335 estirpe F0486

Capnocytophaga sp. oral taxon 336 estirpe F0502

Capnocytophaga sp. oral taxon 338 estirpe F0234

Capnocytophaga sp. oral taxon 380 estirpe F0488

Capnocytophaga sp. oral taxon 412 estirpe F0487

Capnocytophaga sp. oral taxon 863 F0517

Cardiobacterium valvarum F0432

Catonella morbi ATCC 51271

Centipeda periodontii DSM 2778

Clostridium sp. MSTE9

Corynebacterium durum F0235

Corynebacterium matruchotii ATCC 14266

Corynebacterium matruchotii ATCC 33806

Cryptobacterium curtum ATCC 700683

Cryptobacterium curtum DSM 15641

Desulfomicrobium orale DSM 12838

Dialister invisus DSM 15470

Dialister pneumosintes F0409

Dietzia sp. W5195

Eikenella corrodens ATCC 23834

Eikenella sp. UB204

Enterobacter hormaechei ATCC 49162

Enterococcus casseliflavus ATCC 12755

Enterococcus faecalis

Enterococcus faecalis TUSoD Ef11

Enterococcus italicus DSM 15952

Eubacteriaceae bacterium OBRC8

Eubacterium brachy 13H29BP

Eubacterium infirmum ATCC 700433

Eubacterium infirmum F0142

Eubacterium minutum ATCC 700079

Eubacterium nodatum ATCC 33099

Eubacterium saburreum 402H1AP

Eubacterium saburreum DSM 3986

Eubacterium saburreum F0468

Eubacterium saphenum ATCC 49989

Eubacterium sp. AS15

Eubacterium sp. OBRC9

Eubacterium sulci ATCC 35585

Filifactor alocis ATCC 35896

Fusobacterium necrophorum subsp. funduliforme Fnf 1007

Fusobacterium nucleatum subsp. polymorphum ATCC 10953

Fusobacterium nucleatum subsp. vincentii ATCC 49256

Fusobacterium periodonticum ATCC 33693

Fusobacterium periodonticum D10

Fusobacterium sp. ACC1

Fusobacterium sp. CM1

Fusobacterium sp. CM21

Fusobacterium sp. CM22

*Fusobacterium sp. O*BRC1

Fusobacterium sp. oral taxon 370 estirpe F0437

Gemella haemolysans ATCC 10379

Granulicatella adiacens ATCC 49175

Granulicatella elegans ATCC 700633

Haemophilus aegyptius ATCC 11116

Johnsonella ignava ATCC 51276

Johnsonella ignava D130C-30

Jonquetella anthropi E3_33 E1

Kingella oralis ATCC 51147

Klebsiella sp. AS10

Klebsiella sp. OBRC7

Lachnospiraceae bacterium MSX33

Lachnospiraceae bacterium oral taxon 082 estirpe F0431

Lachnospiraceae bacterium sp. ICM7

Lachnospiraceae oral taxon 107 estirpe F0167

Lachnospiraceae[G-3] sp. 1T16BP

Lachnospiraceae[G-4] sp. F0158

Lactobacillus catenaformis F0143

Lactobacillus fermentum CECT 5716

Lactobacillus oris F0423

Lactobacillus plantarum WCFS1

Lactobacillus salivarius ATCC 11741

Lactobacillus salivarius CECT 5713

Lactobacillus sp. oral taxon 418 estirpe F0439

Lautropia mirabilis ATCC 51599

Leptotrichia buccalis 301H31BP

Leptotrichia buccalis ATCC 14201

Leptotrichia buccalis DSM 1135

Leptotrichia goodfellowii D28

Leptotrichia goodfellowii DSM 19756

Leptotrichia goodfellowii F0264

Leptotrichia hofstadii F0254

Leptotrichia shahii 101H7BP

Leptotrichia sp. 64A2BP

Leptotrichia sp. F0260

Leptotrichia sp. F0316

Leptotrichia sp. oral taxon 879 F0557

Leptotrichia wadei F0279

Megasphaera micronuciformis F0359

Megasphaera micronuciformis W60807

Methanobrevibacter smithii DSM 2374

Microbacterium sp. oral estirpe C24KA

Microbacterium sp. oral taxon 186 estirpe F0373

Mogibacterium diversum 303H40BP

Mogibacterium neglectum ATCC 700924

Mogibacterium pumilum ATCC 700696

Mogibacterium sp. CM50

Mogibacterium timidum ATCC 33093

Mogibacterium vescum ATCC 700697

Mycobacterium neoaurum ATCC 25795

Mycoplasma faucium ATCC 25293

Mycoplasma fermentans Edward ATCC 15474

Mycoplasma salivarium ATCC 23064

Neisseria bacilliformis ATCC BAA-1200

Neisseria mucosa

Neisseria pharyngis NCTC 4590

Neisseria sp. oral taxon 014 estirpe F0314

Neisseria sp. oral taxon 020 estirpe F0370

Neisseria subflava NJ9703

Olsenella profusa DSM 13989

Olsenella profusa F0195, D221A-01

Olsenella sp. F0004

Olsenella sp. MSTE5

Olsenella sp. oral taxon 809 estirpe F0356

Olsenella uli DSM 7084

Oribacterium sinus F0268

Oribacterium sp. F0249

Oribacterium sp. ICM51

Oribacterium sp. oral taxon 078 estirpe F0262

Oribacterium sp. oral taxon 108 estirpe F0425

Paenibacillus glucanolyticus

Paenibacillus sp. oral taxon 786 estirpe D14

Parascardovia denticolens DSM 10105

Parascardovia denticolens F0305

Parascardovia denticolens JCM 12538

Parvimonas sp. oral taxon 110 estirpe F0139

Parvimonas sp. oral taxon 393 estirpe F0440

Peptococcus sp.

Peptococcus sp. F0270

Peptoniphilus indolicus ATCC 29427

Peptoniphilus sp. oral taxon 375 estirpe F0436

Peptoniphilus sp. oral taxon 386 estirpe F0131

Peptoniphilus sp. oral taxon 836 estirpe F0141

Peptostreptococcaceae sp. A3MT

Peptostreptococcus anaerobius VPI 4330

Peptostreptococcus stomatis DSM 17678

Porphyromonas catoniae ATCC 51270

Porphyromonas catoniae F0037

Porphyromonas endodontalis ATCC 35406

Porphyromonas gingivalis F0568

Porphyromonas gingivalis F0569

Porphyromonas gingivalis F0570

Porphyromonas gingivalis W50

Porphyromonas sp. oral taxon 278 W7784

Porphyromonas sp. oral taxon 279 F0450

Porphyromonas sp. oral taxon 279 estirpe F0450

Prevotella baroniae F0067

Prevotella buccae ATCC 33574

Prevotella buccae D17

Prevotella dentalis DSM 3688

Prevotella denticola F0289

Prevotella histicola F0411

Prevotella intermedia 17

Prevotella maculosa. F0099

Prevotella marshii DSM 16973

Prevotella melaninogenica ATCC 25845

Prevotella melaninogenica D18

Prevotella micans F0438

Prevotella multiformis DSM 16608

Prevotella multisaccharivorax DSM 17128

Prevotella nigrescens ATCC 33563

Prevotella nigrescens F0103

Prevotella oris F0302

Prevotella oulora F0022

Prevotella oulorum F0390

Prevotella pallens ATCC 700821

Prevotella pleuritidis F0068

Prevotella saccharolytica F0055

Prevotella salivae F0493

Prevotella sp. 15T29AP

Prevotella sp. F0012

Prevotella sp. F0043

Prevotella sp. F0059

Prevotella sp. F0068

Prevotella sp. F0091

Prevotella sp. Genogroup 4, UP2050-3

Prevotella sp. ICM33

Prevotella sp. ICM55

Prevotella sp. MSX73

Prevotella sp. oral taxon 299 estirpe F0039

Prevotella sp. oral taxon 302 estirpe F0323

Prevotella sp. oral taxon 306 estirpe F0472

Prevotella sp. oral taxon 317 estirpe F0108

Prevotella sp. oral taxon 472 estirpe F0295

Prevotella sp. oral taxon 475 estirpe F0059

Prevotella tannerae ATCC 51259

Prevotella veroralis F0319

Propionibacterium avidum ATCC 25577

Propionibacterium propionicum F0230a

Propionibacterium sp. CC003-HC2

*Propionibacterium sp. M*etC3

Propionibacterium sp. oral taxon 192 estirpe F0372

Pseudoramibacter alactolyticus ATCC 23263

Rhodocyclus sp. A08KA

Rothia aeria F0474

Rothia dentocariosa ATCC 17931

Rothia sp. oral taxon 188 estirpe F0184

Salmonella enterica subsp. enterica serovar Newport estirpe CVM36720

Scardovia inopinata F0304

Scardovia inopinata JCM 12537

Scardovia wiggsiae F0424

Selenomonas artemidis 40T16BP

Selenomonas artemidis 66H28BA

Selenomonas artemidis F0399

Selenomonas dianae 15T29BP

Selenomonas flueggei ATCC 43531

Selenomonas infelix ATCC 43532

Selenomonas noxia ATCC 43541

Selenomonas noxia F0398

Selenomonas sp. 11H28BP

Selenomonas sp. 25H6BP

Selenomonas sp. 66T2BP

Selenomonas sp. 73H20BP

Selenomonas sp. CM52

Selenomonas sp. F0473

Selenomonas sp. FOBRC6

Selenomonas sp. FOBRC9

Selenomonas sp. oral taxon 137 estirpe F0430

Selenomonas sp. oral taxon 138 estirpe F0429

Selenomonas sp. oral taxon 149 estirpe 67H29BP

Selenomonas sputigena ATCC 35185

Shuttleworthia satelles DSM 14600

Shuttleworthia sp. MSX8B

Simonsiella muelleri ATCC 29453

Slackia exigua ATCC 700122

Slackia sp. CM382

Solobacterium moorei 303H20BP

Solobacterium moorei F0204

Streptococcus agalactiae ATCC 13813

Streptococcus anginosus 11H5AP

Streptococcus anginosus CCUG 39159

Streptococcus anginosus F0211

Streptococcus anginosus SK52

Streptococcus australis 304H23AP

Streptococcus australis ATCC 700641

Streptococcus constellatus 84A19BP

Streptococcus constellatus subsp. pharyngis C232

Streptococcus cristatus 74H10BP

Streptococcus cristatus ATCC 51100

Streptococcus downei F0415

Streptococcus dysgalactiae equisimilis SK1250

Streptococcus dysgalactiae subsp. equisimilis SK1249

Streptococcus intermedius F0395

Streptococcus intermedius SK54, ATCC 27335

Streptococcus mitis ATCC 6249

Streptococcus mitis bv. 2 SK95

Streptococcus mitis bv. 2 estirpe F0392

Streptococcus mitis SK321

Streptococcus mutans NN2025

Streptococcus mutans UA159

Streptococcus oralis ATCC 35037

Streptococcus oralis SK100

Streptococcus oralis SK304

Streptococcus parasanguinis ATCC 15912

Streptococcus parasanguis 32T10AP

Streptococcus peroris ATCC 700780

Streptococcus pneumoniae estirpe *Gambia*

Streptococcus pyogenes GA06023

Streptococcus pyogenes GA19681

Streptococcus pyogenes GA19700

Streptococcus pyogenes GA40056

Streptococcus pyogenes GA40377

Streptococcus pyogenes GA40468

Streptococcus pyogenes GA40634

Streptococcus pyogenes GA41039

Streptococcus pyogenes GA41046

Streptococcus pyogenes GA41208

Streptococcus pyogenes GA41345

Streptococcus pyogenes GA41394

Streptococcus pyogenes UTSW-2I

Streptococcus sanguinis ATCC 29667

Streptococcus sanguinis ATCC 49296

Streptococcus sinensis HKU4

Streptococcus sobrinus W1703

Streptococcus sp. 52H49AP

Streptococcus sp. 67H17BP

Streptococcus sp. 85A25AP

Streptococcus sp. 9T18AP

Streptococcus sp. AC15

Streptococcus sp. ACC21

Streptococcus sp. ACS2

Streptococcus sp. AS14

Streptococcus sp. AS20

Streptococcus sp. BS21

Streptococcus sp. BS29a

Streptococcus sp. BS35b

Streptococcus sp. CIP 104985

Streptococcus sp. CM6

Streptococcus sp. CM7

Streptococcus sp. F0441

Streptococcus sp. F0442

Streptococcus sp. Hal T4-E3

Streptococcus sp. OBRC6

Streptococcus sp. oral taxon 056 estirpe F0418

Streptococcus sp. oral taxon 058 estirpe F0407

Streptococcus sp. oral taxon 071 estirpe 73H25AP

Streptococcus sp. SK140

Streptococcus sp. SR1

Streptococcus sp. SR4

Streptococcus sp. SR5

Streptococcus vestibularis ATCC 49124

Streptococcus vestibularis F0396

Synergistetes bacterium W5455

Synergistetes sp. SGP1

Tannerella forsythia ATCC 43037

Treponema amylovorum

Treponema denticola AL-2

Treponema denticola ASLM

Treponema denticola ATCC 33520

Treponema denticola ATCC 33521

Treponema denticola ATCC 35404

Treponema denticola F0402

Treponema denticola H1-T

Treponema denticola MYR-T

Treponema denticola OTK

Treponema denticola SP23

Treponema denticola SP32

Treponema denticola SP33

Treponema denticola SP37

Treponema denticola SP44

Treponema denticola US-Trep

Treponema lecithinolyticum OMZ 684

Treponema parvum ATCC 700770

Treponema pectinovorum VPI D-36DR-2, ATCC 33768

Treponema socranskii buccale Smibert D16B-2

Treponema socranskii subsp. paredis ATCC 35535

Treponema socranskii subsp. socranskii

Treponema socranskii subsp. socranskii VPI DR56BR1116

Treponema sp. Smibert D120

Treponema sp. Smibert D36ER1

Treponema vincentii ATCC 35580

Treponema vincentii F0403

Veillonella atypica KON

Veillonella atypica PK1910

Veillonella dispar ATCC 17748

Veillonella parvula ATCC 17745

Veillonella sp. ACP1

Veillonella sp. AS16

Veillonella sp. oral clone HB016

Veillonella sp. oral taxon 158 estirpe F0412

Veillonella sp. oral taxon 780 estirpe F0422

Veillonellaceae [G-1] sp. oral taxon 155

Tabela 2. Tabela Base utilizada como base para o presente trabalho. Nesta tabela estão presentes todas as 9818 proteínas identificadas para as espécies bacterianas orais.

Este anexo encontra-se em formato digital (CD-R anexado).

Tabela Base: Tabela usada como base para o presente estudo, com o levantamento das proteínas identificadas em estudos *in vitro,* com a anotação pelos códigos *Uniprot* na coluna "Código Proteína do artigo" para cada bactéria identificada na cavidade oral.

Legenda de cores : **Artigos com Identificação de Proteínas Microbianas *in vitro*; Artigos excluídos; Inesixtência de artigos; Artigo já utilizado no OralCard;**

HMP ID	Organism Name	Domain	NCBI Taxon ID	All Body Sites	All Body Subsites	HMP Isolation Body Site	HMP Isolation Body Subsite	HOMD ID	Pubmed	Código Proteína do artigo
1	Abiotrophia defectiva ATCC 49176	BACTERIAL	592010	Oral		Oral		HOMD: tax_389	n.a.	
9415	Acidaminococcus sp. Oral Taxon 129	BACTERIAL	904	Oral		Oral		HOMD:tax_129	n.a.	
43	Actinobaculum P1 oral taxon 183 F0552	BACTERIAL	1227261	Oral	Mouth	Oral	Mouth		n.a.	
9031	Actinomyces georgiae D124H-11	BACTERIAL	52768	Oral		Oral		HOMD: tax_617	n.a.	
1317	Actinomyces georgiae F0490	BACTERIAL	1125717	Oral		Oral			n.a.	
46	Actinomyces israelii	BACTERIAL	1659	Oral		Oral		HOMD: tax_645	n.a.	
1549	Actinomyces johnsonii F0510	BACTERIAL	1227262	Oral	Mouth	Oral	Mouth		n.a.	
9053	Actinomyces massiliensis CCUG 53522	BACTERIAL	461393	Oral, Blood		Oral			n.a.	
1318	Actinomyces massiliensis F0489	BACTERIAL	1125718	Oral		Oral			n.a.	
0	Actinomyces naeslundii MG1	BACTERIAL	240017	Oral		Oral			23049864	
50	Actinomyces odontolyticus ATCC 17982	BACTERIAL	411466	Oral		Oral		HOMD: tax_701	n.a.	
9054	Actinomyces oricola CCUG 46090	BACTERIAL	206043	Oral		Oral		HOMD: tax_708	n.a.	
9059	Actinomyces sp. 12T23BP	BACTERIAL	29317	Oral		Oral		HOMD: tax_177	22224921	
9059	Actinomyces sp. 12T23BP	BACTERIAL	29317	Oral		Oral		HOMD: tax_177	22522805	
9060	Actinomyces sp. 64A38BP	BACTERIAL	29317	Oral		Oral			22224921	
9060	Actinomyces sp. 64A38BP	BACTERIAL	29317	Oral		Oral		HOMD: tax_178	22522805	
9055	Actinomyces sp. F0340	BACTERIAL	29317	Oral		Oral		HOMD: tax_169	22224921	
9055	Actinomyces sp. F0340	BACTERIAL	29317	Oral		Oral		HOMD: tax_169	22522805	
1522	Actinomyces sp. ICM54	BACTERIAL	936549	Oral		Oral			22224921	J3EEH2
1522	Actinomyces sp. ICM54	BACTERIAL	936549	Oral		Oral			22224921	J0SN88
1522	Actinomyces sp. ICM54	BACTERIAL	936549	Oral		Oral			22224921	G9PKB8
1522	Actinomyces sp. ICM54	BACTERIAL	936549	Oral		Oral			22224921	F3PAL1
1522	Actinomyces sp. ICM54	BACTERIAL	936549	Oral		Oral			22224921	E6KPJ5
1522	Actinomyces sp. ICM54	BACTERIAL	936549	Oral		Oral			22224921	F9PK61
1522	Actinomyces sp. ICM54	BACTERIAL	936549	Oral		Oral			22224921	D0WMT1
1522	Actinomyces sp. ICM54	BACTERIAL	936549	Oral		Oral			22224921	E8JEV1
1522	Actinomyces sp. ICM54	BACTERIAL	936549	Oral		Oral			22224921	E7N5U6
1522	Actinomyces sp. ICM54	BACTERIAL	936549	Oral		Oral			22224921	F3PC21
1522	Actinomyces sp. ICM54	BACTERIAL	936549	Oral		Oral			22224921	E7NDX5
1522	Actinomyces sp. ICM54	BACTERIAL	936549	Oral		Oral			22224921	G9PMQ3
1522	Actinomyces sp. ICM54	BACTERIAL	936549	Oral		Oral			22224921	F9EGK3
1522	Actinomyces sp. ICM54	BACTERIAL	936549	Oral		Oral			22224921	F9EHQ9
1522	Actinomyces sp. ICM54	BACTERIAL	936549	Oral		Oral			22224921	
1522	Actinomyces sp. ICM54	BACTERIAL	936549	Oral		Oral			22522805	
9056	Actinomyces sp. oral taxon 170 str. F0386	BACTERIAL	762963	Oral		Oral		HOMD: tax_170	n.a.	
9057	Actinomyces sp. oral taxon 171 str. F0337	BACTERIAL	706439	Oral		Oral		HOMD: tax_171	n.a.	
9058	Actinomyces sp. oral taxon 175 str. F0384	BACTERIAL	944560	Oral		Oral		HOMD: tax_175	n.a.	
9061	Actinomyces sp. Oral Taxon 181 str. F0379	BACTERIAL	1127690	Oral	Dental plaque	Oral	Dental plaque	HOMD: tax_181	n.a.	
9062	Actinomyces sp. oral taxon 448 str. F0400	BACTERIAL	888056	Oral		Oral		HOMD: tax_448	n.a.	
972	Actinomyces sp. oral taxon 848 str. F0332	BACTERIAL	649743	Oral		Oral		HOMD: tax_848	n.a.	
975	Actinomyces sp. oral taxon 849 str. F0330	BACTERIAL	653386	Oral		Oral		HOMD: tax_849	n.a.	
	Actinomyces sp. oral taxon 877 F0543	BACTERIAL	1227264	Oral	Mouth	Oral	Mouth		22224921	
1550	Actinomyces sp. oral taxon 877 F0543	BACTERIAL	1227264	Oral	Mouth	Oral	Mouth		22522805	
1136	Actinomyces sp. str. ICM47	BACTERIAL	936548	Oral		Oral			n.a.	
63	Aeromicrobium marinum DSM 15272	BACTERIAL	585531	Oral		Oral			n.a.	
0	Aggregatibacter actinomycetemcomitans D11S-1	BACTERIAL	668336	Oral	Periodontal	Oral	Periodontal	HOMD: tax_531	n.a.	
0	Aggregatibacter actinomycetemcomitans D7S-1	BACTERIAL	694569	Oral	Subgingival	Oral		HOMD: tax_531	3405016	A5UFG4
0	Aggregatibacter actinomycetemcomitans D7S-1	BACTERIAL	694569	Oral	Subgingival	Oral		HOMD: tax_531	3405016	C6AKF1
0	Aggregatibacter actinomycetemcomitans D7S-1	BACTERIAL	694569	Oral	Subgingival	Oral		HOMD: tax_531	3405016	C6AMY0
0	Aggregatibacter actinomycetemcomitans D7S-1	BACTERIAL	694569	Oral	Subgingival	Oral		HOMD: tax_531	3405016	C6AN45
0	Aggregatibacter actinomycetemcomitans D7S-1	BACTERIAL	694569	Oral	Subgingival	Oral		HOMD: tax_531	3405016	C6APY6

0	Aggregatibacter actinomycetemcomitans D7S-1	BACTERIAL	694569	Oral	Subgingival	Oral		HOMD: tax_531	3405016	C6AQ14
0	Aggregatibacter actinomycetemcomitans D7S-1	BACTERIAL	694569	Oral	Subgingival	Oral		HOMD: tax_531	3405016	C6AQN0
0	Aggregatibacter actinomycetemcomitans D7S-1	BACTERIAL	694569	Oral	Subgingival	Oral		HOMD: tax_531	3405016	C9R1M1
0	Aggregatibacter actinomycetemcomitans D7S-1	BACTERIAL	694569	Oral	Subgingival	Oral		HOMD: tax_531	3405016	C9R1M3
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0	Aggregatibacter actinomycetemcomitans HK1651	BACTERIAL	272556	Oral		Oral			21867783	G3ZHS9
0	Aggregatibacter actinomycetemcomitans HK1651	BACTERIAL	272556	Oral		Oral			21867783	G4A1R5

0	Aggregatibacter actinomycetemcomitans HK1651	BACTERIAL	272556	Oral		Oral			21867783	G4A1R3
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0	Aggregatibacter actinomycetemcomitans HK1651	BACTERIAL	272556	Oral		Oral			21867783	G4A1R4
0	Aggregatibacter actinomycetemcomitans HK1651	BACTERIAL	272556	Oral		Oral			21867783	G3ZHT0
0	Aggregatibacter actinomycetemcomitans HK1651	BACTERIAL	272556	Oral		Oral			21867783	G4AJC9
0	Aggregatibacter actinomycetemcomitans HK1651	BACTERIAL	272556	Oral		Oral			21867783	G4AJD0
0	Aggregatibacter actinomycetemcomitans HK1651	BACTERIAL	272556	Oral		Oral			21867783	G4AJC8
0	Aggregatibacter actinomycetemcomitans HK1651	BACTERIAL	272556	Oral		Oral			21867783	L8U8U9
0	Aggregatibacter actinomycetemcomitans HK1651	BACTERIAL	272556	Oral		Oral			21867783	L8U4I2
0	Aggregatibacter actinomycetemcomitans HK1651	BACTERIAL	272556	Oral		Oral			21867783	L8UA25
0	Aggregatibacter actinomycetemcomitans HK1651	BACTERIAL	272556	Oral		Oral			21867783	L1N4H4
0	Aggregatibacter actinomycetemcomitans HK1651	BACTERIAL	272556	Oral		Oral			21867783	L1N438
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0	Aggregatibacter actinomycetemcomitans HK1651	BACTERIAL	272556	Oral		Oral			21867783	C9R3B8
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0	Aggregatibacter actinomycetemcomitans HK1651	BACTERIAL	272556	Oral		Oral			21867783	H0KEI1
0	Aggregatibacter actinomycetemcomitans HK1651	BACTERIAL	272556	Oral		Oral			21867783	G4AA20
0	Aggregatibacter actinomycetemcomitans HK1651	BACTERIAL	272556	Oral		Oral			21867783	E1CK52
0	Aggregatibacter actinomycetemcomitans HK1651	BACTERIAL	272556	Oral		Oral			21867783	H0KFQ5
0	Aggregatibacter actinomycetemcomitans HK1651	BACTERIAL	272556	Oral		Oral			21867783	I1XS37
0	Aggregatibacter actinomycetemcomitans HK1651	BACTERIAL	272556	Oral		Oral			21867783	G4B5D9
0	Aggregatibacter actinomycetemcomitans HK1651	BACTERIAL	272556	Oral		Oral			21867783	G4B5E0
0	Aggregatibacter actinomycetemcomitans HK1651	BACTERIAL	272556	Oral		Oral			21867783	G3ZUK2
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0	Aggregatibacter actinomycetemcomitans HK1651	BACTERIAL	272556	Oral		Oral			21867783	C9R2X2
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0	Aggregatibacter actinomycetemcomitans HK1651	BACTERIAL	272556	Oral		Oral			21867783	G8MU58
0	Aggregatibacter actinomycetemcomitans HK1651	BACTERIAL	272556	Oral		Oral			21867783	I6LEK4
0	Aggregatibacter actinomycetemcomitans HK1651	BACTERIAL	272556	Oral		Oral			21867783	I6LEK5
0	Aggregatibacter actinomycetemcomitans HK1651	BACTERIAL	272556	Oral		Oral			21867783	L8TVE8
0	Aggregatibacter actinomycetemcomitans HK1651	BACTERIAL	272556	Oral		Oral			21867783	L8UHF1
0	Aggregatibacter actinomycetemcomitans HK1651	BACTERIAL	272556	Oral		Oral			21867783	G4AU81
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0	Aggregatibacter actinomycetemcomitans HK1651	BACTERIAL	272556	Oral		Oral			21867783	G3ZG45
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0	Aggregatibacter actinomycetemcomitans HK1651	BACTERIAL	272556	Oral		Oral			21867783	C9R5V8
0	Aggregatibacter actinomycetemcomitans HK1651	BACTERIAL	272556	Oral		Oral			21867783	Q9S5J9

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0	Aggregatibacter actinomycetemcomitans HK1651	BACTERIAL	272556	Oral		Oral			21867783	H0KGZ8
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0	Aggregatibacter actinomycetemcomitans HK1651	BACTERIAL	272556	Oral		Oral			21867783	G4B5K9
0	Aggregatibacter actinomycetemcomitans HK1651	BACTERIAL	272556	Oral		Oral			21867783	G3ZYE2
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0	Aggregatibacter actinomycetemcomitans HK1651	BACTERIAL	272556	Oral		Oral			21867783	G3ZSZ8
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0	Aggregatibacter actinomycetemcomitans HK1651	BACTERIAL	272556	Oral		Oral			21867783	G8MT48
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0	Aggregatibacter actinomycetemcomitans HK1651	BACTERIAL	272556	Oral		Oral			21867783	C9R567
0	Aggregatibacter actinomycetemcomitans HK1651	BACTERIAL	272556	Oral		Oral			21867783	C9R5V8
9063	Aggregatibacter aphrophilus ATCC 33389	BACTERIAL	732	Oral		Oral		HOMD: tax_545	n.a.	
9335	Aggregatibacter aphrophilus F0387	BACTERIAL	679198	Oral		Oral		HOMD: tax_545	n.a.	
0	Aggregatibacter aphrophilus NJ8700	BACTERIAL	634176	Oral		Oral			19447908	C6AL80
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0	Aggregatibacter aphrophilus NJ8700	BACTERIAL	634176	Oral		Oral			19447908	G5G6P6
0	Aggregatibacter aphrophilus NJ8700	BACTERIAL	634176	Oral		Oral			19447908	G4BDJ0
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0	Aggregatibacter aphrophilus NJ8700	BACTERIAL	634176	Oral		Oral			19447908	G5G761
0	Aggregatibacter aphrophilus NJ8700	BACTERIAL	634176	Oral		Oral			19447908	C6AQM8
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0	Aggregatibacter aphrophilus NJ8700	BACTERIAL	634176	Oral		Oral			19447908	C6AK29
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0	Aggregatibacter aphrophilus NJ8700	BACTERIAL	634176	Oral		Oral			19447908	C6ANU6
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9064	Aggregatibacter segnis ATCC 33393	BACTERIAL	888057	Oral		Oral		HOMD: tax_762	n.a.	
9067	Anaerococcus tetradius F0127	BACTERIAL	33036	Oral		Oral		HOMD: tax_788	15930632	
9067	Anaerococcus tetradius F0127	BACTERIAL	33036	Oral		Oral		HOMD: tax_788	18065481	
9067	Anaerococcus tetradius F0127	BACTERIAL	33036	Oral		Oral		HOMD: tax_788	18971361	
80	Anaeroglobus geminatus F0357	BACTERIAL	861450	Oral		Oral		HOMD: tax_121	n.a.	
0	Atopobium parvulum DSM 20469	BACTERIAL	521095	Oral	Gingival	Oral	Gingival	HOMD: tax_723	n.a.	
86	Atopobium rimae ATCC 49626	BACTERIAL	553184	Oral		Oral		HOMD: tax_750	n.a.	
9068	Atopobium sp. 39H42BP	BACTERIAL	1380	Oral		Oral		HOMD: tax_199	n.a.	
9069	Atopobium sp. F0209	BACTERIAL	519019	Oral		Oral		HOMD: tax_810	n.a.	
1493	Atopobium sp. ICM42b	BACTERIAL	1190620	Oral		Oral			n.a.	
1527	Atopobium sp. oral taxon 199 str. F0494	BACTERIAL	1203602	Oral		Oral			n.a.	
1492	Atopobium sp.BS2	BACTERIAL	936550	Oral		Oral			n.a.	
	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		17486558	Q814B0
	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		17486558	Q814L8
	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		17486558	Q814T5
	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		17486558	Q815Z1
	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		17486558	Q817B8
	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		17486558	Q818I1
	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		17486558	Q819J5
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	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		17486558	Q81A83
	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		17486558	Q81BP9
	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		17486558	Q81FD3
	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		17486558	Q81FD4
	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		17486558	Q81GS6
	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		17486558	Q81IK9
	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		17486558	Q81J51
	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		16167365	Q7BYC6
	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		16167365	Q813D9
	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		16167365	Q814B0
	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		16167365	Q814I6
	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		16167365	Q814R2
	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		16167365	Q814S1
	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		16167365	Q815D2
	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		16167365	Q815K8
	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		16167365	Q815P0
	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		16167365	Q816H3
	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		16167365	Q818Y6
	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		16167365	Q819K4
	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		16167365	Q819K6
	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		16167365	Q819T3
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	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		16167365	Q81BM0
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	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		16167365	Q81BP9
	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		16167365	Q81C01

	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		16167365	Q81CG6
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	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		16167365	Q81DQ1
	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		16167365	Q81EI5
	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		16167365	Q81EZ7
	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		16167365	Q81EZ8
	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		16167365	Q81FD3
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	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		16167365	Q81FD5
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	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		16167365	Q81GC3
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	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		16167365	Q81GL0
	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		16167365	Q81GL6
	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		16167365	Q81GS6
	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		16167365	Q81HB4
	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		16167365	Q81HC7
	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		16167365	Q81HW0
	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		16167365	Q81HW1
	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		16167365	Q81HW5
	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		16167365	Q81IP0
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	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		12112862	Q9S3N3
	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		12112862	Q9REG5
	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		12112862	Q1XFK2
	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		12112862	Q1XFH6
	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		12112862	Q1XFK5
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	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		12112862	G9FXI2
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	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		12112862	Q937V2
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	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		12112862	Q1XFH7
	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		12112862	Q1XFJ6
	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		12112862	Q1XFK0
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	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		12112862	Q1XFK6
	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		12112862	Q937V1
	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		12112862	I6QQV3
	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		12112862	I6QQW3
	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		12112862	I6R7D1
	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		12112862	I6RD62
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	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		12112862	I6UGP3
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	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		12112862	I6U700
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	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		12112862	Q1XFJ9
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	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		12112862	I6RDB0
	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		12112862	Q1XFJ1
	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		12112862	I6RH94
	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		12112862	I6QUA9
	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		12112862	I6RD68
	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		12112862	I6V921
	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		12112862	I6QQV8
	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		12112862	I6QQV6
	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		12112862	Q1XFJ2
	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		12112862	I6QQV4
	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		12112862	I6R7A3
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	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		12112862	Q1XFH2
	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		12112862	Q1XFH3
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	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		12112862	I6UZJ1
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	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		12112862	Q6X9E1
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	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		12112862	G9FXH5
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	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		12112862	Q1XBU9
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	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		12112862	Q09KI0
	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		12112862	Q1XBV2
	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		12112862	Q9REG8
	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		12112862	Q09KI5
	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		12112862	G9FXH6
	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		12112862	Q2TM56
	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		12112862	G8U6L9
	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		12112862	Q735N9

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	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		12112862	B9IX99
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	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		12112862	Q63CS4
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	Bacillus cereus	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		12112862	B7IX58
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0	Bacillus cereus AH820	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		2938089	Q81IQ5
0	Bacillus cereus AH820	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		2938089	Q81IQ6
0	Bacillus cereus AH820	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		2938089	Q81IQ7
0	Bacillus cereus AH820	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		2938089	Q81IX9
0	Bacillus cereus AH820	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		2938089	Q81IZ3
0	Bacillus cereus AH820	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		2938089	Q81J03
0	Bacillus cereus AH820	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		2938089	Q81J13
0	Bacillus cereus AH820	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		2938089	Q81J17
0	Bacillus cereus AH820	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		2938089	Q81J19
0	Bacillus cereus AH820	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		2938089	Q81J22
0	Bacillus cereus AH820	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		2938089	Q81J23
0	Bacillus cereus AH820	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		2938089	Q81J25
0	Bacillus cereus AH820	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		2938089	Q81J27
0	Bacillus cereus AH820	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		2938089	Q81J28
0	Bacillus cereus AH820	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		2938089	Q81J30
0	Bacillus cereus AH820	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		2938089	Q81J31
0	Bacillus cereus AH820	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		2938089	Q81J32
0	Bacillus cereus AH820	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		2938089	Q81J36
0	Bacillus cereus AH820	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		2938089	Q81J37
0	Bacillus cereus AH820	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		2938089	Q81J39
0	Bacillus cereus AH820	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		2938089	Q81J40
0	Bacillus cereus AH820	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		2938089	Q81J43

0	Bacillus cereus AH820	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		2938089	Q81J44
0	Bacillus cereus AH820	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		2938089	Q81J47
0	Bacillus cereus AH820	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		2938089	Q81J50
0	Bacillus cereus AH820	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		2938089	Q81J52
0	Bacillus cereus AH820	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		2938089	Q81J70
0	Bacillus cereus AH820	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		2938089	Q81J83
0	Bacillus cereus AH820	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		2938089	Q81J97
0	Bacillus cereus AH820	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		2938089	Q81JC4
0	Bacillus cereus AH820	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		2938089	Q81JC7
0	Bacillus cereus AH820	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		2938089	Q81JC8
0	Bacillus cereus AH820	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		2938089	Q9L4F2
0	Bacillus cereus AH820	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		2938089	Q9REG5
0	Bacillus cereus AH820	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		2938089	Q9REG7
	Bacillus cereus AH820	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		22150164	Q73CG0
	Bacillus cereus AH820	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		22150164	Q73AT7
	Bacillus cereus AH820	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		22150164	Q72YP1
	Bacillus cereus AH820	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		22150164	Q73C41
	Bacillus cereus AH820	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		22150164	Q74P34
	Bacillus cereus AH820	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		22150164	Q73AJ3
	Bacillus cereus AH820	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		22150164	Q738K0
0	Bacillus cereus ATTC 14579	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		22232490	Q814B1
0	Bacillus cereus ATTC 14579	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		22232490	Q4MPR6
0	Bacillus cereus ATTC 14579	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		22232490	Q814B0
0	Bacillus cereus ATTC 14579	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		22232490	Q45097
0	Bacillus cereus ATTC 14579	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		22232490	Q816H3
0	Bacillus cereus ATTC 14579	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		22232490	Q818F0
0	Bacillus cereus ATTC 14579	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		22232490	Q818E9
0	Bacillus cereus ATTC 14579	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		22232490	Q818I1
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0	Bacillus cereus ATTC 14579	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		22232490	Q6QHT3
0	Bacillus cereus ATTC 14579	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		22232490	F8WLW5
0	Bacillus cereus ATTC 14579	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		22232490	F8WLX8
0	Bacillus cereus ATTC 14579	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		22232490	F8WLV0
0	Bacillus cereus ATTC 14579	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		22232490	F8WLV8
0	Bacillus cereus ATTC 14579	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		22232490	F8WLY2
0	Bacillus cereus ATTC 14579	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		22232490	F8WLW6
0	Bacillus cereus ATTC 14579	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		22232490	G5EKF1
0	Bacillus cereus ATTC 14579	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		22232490	G5EKF4
0	Bacillus cereus ATTC 14579	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		22232490	G5EKF7
0	Bacillus cereus ATTC 14579	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		22232490	G5EKF9
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0	Bacillus cereus ATTC 14579	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		22232490	A6MHS2
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0	Bacillus cereus ATTC 14579	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		22232490	F8WLU0
0	Bacillus cereus ATTC 14579	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		22232490	F8WLU3
0	Bacillus cereus ATTC 14579	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		22232490	F8WLU7
0	Bacillus cereus ATTC 14579	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		22232490	F8WLU9
0	Bacillus cereus ATTC 14579	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		22232490	F8WLV4
0	Bacillus cereus ATTC 14579	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		22232490	F8WLW4
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0	Bacillus cereus ATTC 14579	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		22232490	F8WLU5
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0	Bacillus cereus ATTC 14579	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		22232490	F8WLU8
0	Bacillus cereus ATTC 14579	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		22232490	F8WLU2

0	Bacillus cereus ATTC 14579	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		22232490	G5EKE9
0	Bacillus cereus ATTC 14579	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		22232490	F8WLX4
0	Bacillus cereus ATTC 14579	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		22232490	F8WLU1
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0	Bacillus cereus ATTC 14579	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		22232490	G5EKF5
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0	Bacillus cereus ATTC 14579	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		22232490	G5EKF0
0	Bacillus cereus ATTC 14579	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		22232490	G5EKG0
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0	Bacillus cereus ATTC 14579	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		22232490	G5EKF2
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0	Bacillus cereus ATTC 14579	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		22232490	Q6S4F1
0	Bacillus cereus ATTC 14579	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		22232490	F8WLX0
0	Bacillus cereus ATTC 14579	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		22232490	F8WLV1
0	Bacillus cereus ATTC 14579	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		22232490	F8WLX5
0	Bacillus cereus ATTC 14579	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		22232490	Q9L3K7
0	Bacillus cereus ATTC 14579	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		22232490	F8WLW8
0	Bacillus cereus ATTC 14579	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		22232490	F8WLU4
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0	Bacillus cereus ATTC 14579	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		22232490	F8WLV7
0	Bacillus cereus ATTC 14579	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		22232490	F8WLT8
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0	Bacillus cereus ATTC 14579	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		22232490	F8WLY0
0	Bacillus cereus ATTC 14579	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		22232490	F8WLY1
0	Bacillus cereus ATTC 14579	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		22232490	C0M1B5
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0	Bacillus cereus ATTC 14579	BACTERIAL	405535	Oral	Periodontal	Oral	Periodontal		22232490	Q81FI2
1013	Bacillus sp. 2_A_57_CT2	BACTERIAL	665959	Oral		Oral			n.a.	
1012	Bacillus sp. BT1B_CT2	BACTERIAL	665958	Oral		Oral			9868784	
1012	Bacillus sp. BT1B_CT2	BACTERIAL	665958	Oral		Oral			10870960	
1012	Bacillus sp. BT1B_CT2	BACTERIAL	665958	Oral		Oral			11016950	
1012	Bacillus sp. BT1B_CT2	BACTERIAL	665958	Oral		Oral			12016004	
1012	Bacillus sp. BT1B_CT2	BACTERIAL	665958	Oral		Oral			12112844	
1012	Bacillus sp. BT1B_CT2	BACTERIAL	665958	Oral		Oral			12297035	
1012	Bacillus sp. BT1B_CT2	BACTERIAL	665958	Oral		Oral			12362350	
1012	Bacillus sp. BT1B_CT2	BACTERIAL	665958	Oral		Oral			12837777	
1012	Bacillus sp. BT1B_CT2	BACTERIAL	665958	Oral		Oral			15280314	
1012	Bacillus sp. BT1B_CT2	BACTERIAL	665958	Oral		Oral			15469710	
1012	Bacillus sp. BT1B_CT2	BACTERIAL	665958	Oral		Oral			15614563	
1012	Bacillus sp. BT1B_CT2	BACTERIAL	665958	Oral		Oral			16142468	
1012	Bacillus sp. BT1B_CT2	BACTERIAL	665958	Oral		Oral			17628040	
1012	Bacillus sp. BT1B_CT2	BACTERIAL	665958	Oral		Oral			17981340	
1012	Bacillus sp. BT1B_CT2	BACTERIAL	665958	Oral		Oral			19174188	
1012	Bacillus sp. BT1B_CT2	BACTERIAL	665958	Oral		Oral			19253326	
1012	Bacillus sp. BT1B_CT2	BACTERIAL	665958	Oral		Oral			20737272	
1012	Bacillus sp. BT1B_CT2	BACTERIAL	665958	Oral		Oral			21253875	
1012	Bacillus sp. BT1B_CT2	BACTERIAL	665958	Oral		Oral			21520944	

1012	Bacillus sp. BT1B_CT2	BACTERIAL	665958	Oral		Oral			21715963	
1012	Bacillus sp. BT1B_CT2	BACTERIAL	665958	Oral		Oral			22370200	
9070	Bacteroides heparinolyticus ATCC 35895	BACTERIAL	888058	Oral	Dental plaque	Oral	Dental plaque	HOMD: tax_630	n.a.	
156	Bacteroidetes oral taxon 274 str. F0058	BACTERIAL	575590	Oral		Oral		HOMD: tax_274	n.a.	
155	Bacteroidetes sp. F0093	BACTERIAL	976	Oral		Oral			15879274	
155	Bacteroidetes sp. F0093	BACTERIAL	976	Oral		Oral			18704367	
155	Bacteroidetes sp. F0093	BACTERIAL	976	Oral		Oral			18768613	
155	Bacteroidetes sp. F0093	BACTERIAL	976	Oral		Oral			22558115	
170	Bifidobacterium dentium	BACTERIAL	1689	Oral		Oral		HOMD: tax_588	n.a.	
893	Bifidobacterium dentium	BACTERIAL	553192	Oral		Oral		HOMD: tax_588	n.a.	
0	Bifidobacterium dentium Bd1	BACTERIAL	401473	Oral	Dental plaque	Oral	Dental plaque		n.a.	
916	Bifidobacterium dentium JCM 1195	BACTERIAL	1689	Oral		Oral		HOMD: tax_588	n.a.	
1494	Bifidobacterium sp. MSTE12	BACTERIAL	1161409	Oral		Oral			n.a.	
185	Brevundimonas diminuta 470-4	BACTERIAL	1035191	Oral		Oral		HOMD: tax_590	n.a.	
9013	Bulleidia extructa W1219	BACTERIAL	679192	Oral		Oral		HOMD: tax_603	n.a.	
0	Bulleidia extructa W1219	BACTERIAL	118748	Oral		Oral		HOMD: tax_603	n.a.	
0	Burkholderia multivorans CGD2	BACTERIAL	513052	Oral		Oral			n.a.	
0	Campylobacter gracilis ATCC 33236	BACTERIAL	553220	Oral	Gingival	Oral	Gingival		n.a.	
191	Campylobacter gracilis RM3268	BACTERIAL	553220	Oral	Gingival	Oral	Gingival	HOMD: tax_623	n.a.	
0	Campylobacter rectus ATCC 33238	BACTERIAL	203	Oral	Periodontal	Oral	Periodontal	HOMD: tax_748	n.a.	
192	Campylobacter rectus RM3267	BACTERIAL	553218	Oral	Gingival	Oral	Gingival	HOMD: tax_748	n.a.	
0	Campylobacter showae ATCC 51146	BACTERIAL	204	Oral	Gingival	Oral	Gingival	HOMD: tax_763	n.a.	
193	Campylobacter showae RM3277	BACTERIAL	553219	Oral	Gingival	Oral	Gingival	HOMD: tax_763	n.a.	
1139	Campylobacter sp. str. FOBRC14	BACTERIAL	936554	Oral		Oral			n.a.	
0	Candida dubliniensis CD36	EUKARYAL	42374	Oral		Oral			n.a.	
196	Capnocytophaga gingivalis ATCC 33624	BACTERIAL	553178	Oral		Oral		HOMD: tax_337	n.a.	
9331	Capnocytophaga granulosa ATCC 51502	BACTERIAL	641143	Oral	Subgingival	Oral	Subgingival	HOMD: tax_325	15720565	
0	Capnocytophaga ochracea DSM 7271	BACTERIAL	521097	Oral		Oral			n.a.	
1977	Capnocytophaga ochracea F0287	BACTERIAL	873517	Oral		Oral		HOMD: tax_700	n.a.	
1319	Capnocytophaga ochracea str. Holt 25	BACTERIAL	1125719	Oral		Oral			n.a.	
9077	Capnocytophaga sp. 106H31BP	BACTERIAL	44737	Oral		Oral		HOMD: tax_336	n.a.	
9076	Capnocytophaga sp. 64A16BP	BACTERIAL	44737	Oral		Oral		HOMD: tax_335	n.a.	
9072	Capnocytophaga sp. oral taxon 324 str. F0483	BACTERIAL	1127691	Oral	Dental plaque	Oral	Dental plaque	HOMD: tax_324	21762219	
9073	Capnocytophaga sp. oral taxon 326 str. F0382	BACTERIAL	1035193	Oral		Oral		HOMD: tax_326	21762219	
9074	Capnocytophaga sp. oral taxon 329 str. F0087	BACTERIAL	706436	Oral		Oral		HOMD: tax_329	n.a.	
9075	Capnocytophaga sp. oral taxon 332 str. F0381	BACTERIAL	1127692	Oral	Dental plaque	Oral	Dental plaque	HOMD: tax_332	21762219	
1320	Capnocytophaga sp. oral taxon 335 str. F0486	BACTERIAL	1125720	Oral		Oral			n.a.	
1528	Capnocytophaga sp. oral taxon 336 str. F0502	BACTERIAL	1203603	Oral		Oral			n.a.	
9071	Capnocytophaga sp. oral taxon 338 str. F0234	BACTERIAL	888059	Oral		Oral		HOMD: tax_338	21762219	
9078	Capnocytophaga sp. oral taxon 380 str. F0488	BACTERIAL	1127693	Oral	Dental plaque	Oral	Dental plaque	HOMD: tax_380	21762219	
1321	Capnocytophaga sp. oral taxon 412 str. F0487	BACTERIAL	1125721	Oral		Oral			n.a.	
1551	Capnocytophaga sp. oral taxon 863 F0517	BACTERIAL	1227266	Oral	Mouth	Oral	Mouth		n.a.	
197	Capnocytophaga sputigena ATCC 33612	BACTERIAL	553177	Oral	Gingival	Oral	Gingival	HOMD: tax_775	1280812	
9080	Cardiobacterium valvarum F0432	BACTERIAL	797473	Oral		Oral		HOMD: tax_540	n.a.	
200	Catonella morbi ATCC 51271	BACTERIAL	592026	Oral	Gingival	Oral	Gingival	HOMD: tax_165	n.a.	
9081	Centipeda periodontii DSM 2778	BACTERIAL	888060	Oral	Periodontal	Oral	Periodontal	HOMD: tax_726	n.a.	
1141	Clostridium sp. MSTE9	BACTERIAL	1105031	Oral		Oral			16142468	
1141	Clostridium sp. MSTE9	BACTERIAL	1105031	Oral		Oral			16142468	
1141	Clostridium sp. MSTE9	BACTERIAL	1105031	Oral		Oral			18767149	H2JB56
1141	Clostridium sp. MSTE9	BACTERIAL	1105031	Oral		Oral			18767149	E4LTF2
1141	Clostridium sp. MSTE9	BACTERIAL	1105031	Oral		Oral			18767149	J1GYU8
1141	Clostridium sp. MSTE9	BACTERIAL	1105031	Oral		Oral			18767149	G7M281
1141	Clostridium sp. MSTE9	BACTERIAL	1105031	Oral		Oral			18767149	K6U0H4
1141	Clostridium sp. MSTE9	BACTERIAL	1105031	Oral		Oral			18767149	E4LW59
1141	Clostridium sp. MSTE9	BACTERIAL	1105031	Oral		Oral			18767149	J1GYU8
9997	Corynebacterium durum F0235	BACTERIAL	1035195	Oral	Dental plaque	Oral	Dental plaque		n.a.	
299	Corynebacterium matruchotii ATCC 14266	BACTERIAL	553207	Oral		Oral		HOMD: tax_666	n.a.	

300	Corynebacterium matruchotii ATCC 33806	BACTERIAL	566549	Oral	Gingival	Oral	Gingival	HOMD: tax_666	n.a.	
313	Cryptobacterium curtum ATCC 700683	BACTERIAL	84163	Oral	Periodontal	Oral	Periodontal	HOMD: tax_579	17064396	C7MLT7
313	Cryptobacterium curtum ATCC 700683	BACTERIAL	84163	Oral	Periodontal	Oral	Periodontal	HOMD: tax_579	17064396	C7MN78
313	Cryptobacterium curtum ATCC 700683	BACTERIAL	84163	Oral	Periodontal	Oral	Periodontal	HOMD: tax_579	17064396	C7MN79
313	Cryptobacterium curtum ATCC 700683	BACTERIAL	84163	Oral	Periodontal	Oral	Periodontal	HOMD: tax_579	17064396	C7MN80
0	Cryptobacterium curtum DSM 15641	BACTERIAL	469378	Oral		Oral			n.a.	
9082	Desulfomicrobium orale DSM 12838	BACTERIAL	888061	Oral	Periodontal	Oral	Periodontal	HOMD: tax_703	n.a.	
327	Dialister invisus DSM 15470	BACTERIAL	592028	Oral	Teeth	Oral	Teeth	HOMD: tax_118	n.a.	
9490	Dialister pneumosintes F0409	BACTERIAL	39950	Oral, Skin	Nasal	Oral		HOMD: tax_736	n.a.	
9084	Dietzia sp. W5195	BACTERIAL	37914	Oral		Oral		HOMD: tax_368	n.a.	
335	Eikenella corrodens ATCC 23834	BACTERIAL	546274	Oral		Oral		HOMD: tax_577	7675516	
9085	Eikenella sp. UB204	BACTERIAL	540	Oral		Oral		HOMD: tax_11	n.a.	
9086	Enterobacter hormaechei ATCC 49162	BACTERIAL	888063	Oral		Oral		HOMD: tax_634	n.a.	
9087	Enterococcus casseliflavus ATCC 12755	BACTERIAL	888066	Oral		Oral		HOMD: tax_801	17904095	
	Enterococcus faecalis								20579342	C0X290
	Enterococcus faecalis								20579342	C0X2H2
	Enterococcus faecalis								20579342	C0X2S4
	Enterococcus faecalis								20579342	C0X4C6
	Enterococcus faecalis								20579342	C0X4I4
	Enterococcus faecalis								20579342	C0X5A9
	Enterococcus faecalis								20579342	C0X931
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	Enterococcus faecalis								20579342	C2H2Q6
	Enterococcus faecalis								20579342	C2H3M6
	Enterococcus faecalis								20579342	C2H3N8
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	Enterococcus faecalis								20579342	C7CP27
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	Enterococcus faecalis								20579342	C7W2T0
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	Enterococcus faecalis								20579342	F2MSU9
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	Enterococcus faecalis								20579342	P0DM31
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	Enterococcus faecalis								20579342	Q820V3
	Enterococcus faecalis								20579342	Q82YV5
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	Enterococcus faecalis								20579342	Q830I9
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	Enterococcus faecalis								20579342	Q838N7
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	Enterococcus faecalis								20579342	Q839D3
	Enterococcus faecalis								20579342	Q839D4
	Enterococcus faecalis								20579342	Q839D5

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	Enterococcus faecalis								20579342	Q839E7
	Enterococcus faecalis								20579342	Q839H4
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	Enterococcus faecalis								20579342	Q839V9
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	Enterococcus faecalis								20579342	Q839X7
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	Enterococcus faecalis								20579342	Q839X9
	Enterococcus faecalis								20579342	Q9RPP2
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	Enterococcus faecalis (strain ATCC 47077 / OG1RF)								23239053	F2MM52
	Enterococcus faecalis (strain ATCC 47077 / OG1RF)								23239053	F2MP63
	Enterococcus faecalis (strain ATCC 47077 / OG1RF)								23239053	F2MQ23
	Enterococcus faecalis (strain ATCC 47077 / OG1RF)								23239053	F2MQ44
	Enterococcus faecalis (strain ATCC 47077 / OG1RF)								23239053	F2MR47
	Enterococcus faecalis (strain ATCC 47077 / OG1RF)								23239053	F2MS09
	Enterococcus faecalis (strain ATCC 47077 / OG1RF)								23239053	F2MS33
	Enterococcus faecalis (strain ATCC 47077 / OG1RF)								23239053	F2MSE0
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	Enterococcus faecalis V583								22213736	Q832Z6
	Enterococcus faecalis V583								22213736	Q82ZX7
	Enterococcus faecalis V583								22213736	Q831S8
	Enterococcus faecalis V583								22213736	Q836V9
	Enterococcus faecalis V583								22213736	Q833P2
	Enterococcus faecalis V583								22213736	Q837H6
	Enterococcus faecalis V583								22213736	Q832Q9
	Enterococcus faecalis V583								22213736	Q831Q9
	Enterococcus faecalis V583								22213736	Q831M1
	Enterococcus faecalis V583								22213736	Q834D2
	Enterococcus faecalis V583								22213736	Q835L3
	Enterococcus faecalis V583								22213736	Q93HU7
	Enterococcus faecalis V583								22213736	Q832L1
	Enterococcus faecalis V583								22213736	Q831K3
	Enterococcus faecalis V583								22213736	Q837D4
	Enterococcus faecalis V583								22213736	Q833A3
	Enterococcus faecalis V583								22213736	Q82Z24
	Enterococcus faecalis V583								22213736	Q835Q7
	Enterococcus faecalis V583								22213736	Q830W0
	Enterococcus faecalis V583								22213736	Q836Q0
	Enterococcus faecalis V583								22213736	Q820T2
	Enterococcus faecalis V583								22213736	Q830Y9
	Enterococcus faecalis V583								22213736	Q835R4
	Enterococcus faecalis V583								22962657	P0DM31
	Enterococcus faecalis V583								22962657	P0DM33
	Enterococcus faecalis V583								22962657	Q82ZI4
	Enterococcus faecalis V583								22962657	Q830E4
	Enterococcus faecalis V583								22962657	Q830V6
	Enterococcus faecalis V583								22962657	Q830W8
	Enterococcus faecalis V583								22962657	Q832Q8
	Enterococcus faecalis V583								22962657	Q833D0
	Enterococcus faecalis V583								22962657	Q833I8
	Enterococcus faecalis V583								22962657	Q837R9
	Enterococcus faecalis V583								22962657	Q839G8
9088	Enterococcus italicus DSM 15952	BACTERIAL	888064	Oral		Oral		HOMD: tax_803	18667594	
1143	Eubacteriaceae bacterium OBRC8	BACTERIAL	796941	Oral		Oral			n.a.	
9089	Eubacterium brachy 13H29BP	BACTERIAL	35517	Oral		Oral		HOMD: tax_557	n.a.	
0	Eubacterium infirmum ATCC 700433	BACTERIAL	56774	Oral	Periodontal	Oral	Periodontal	HOMD: tax_105	n.a.	
380	Eubacterium infirmum F0142	BACTERIAL	883109	Oral	Periodontal	Oral	Periodontal	HOMD: tax_105	n.a.	
9090	Eubacterium minutum ATCC 700079	BACTERIAL	888721	Oral	Periodontal	Oral	Periodontal	HOMD: tax_673	n.a.	

378	Eubacterium nodatum ATCC 33099	BACTERIAL	1161902	Oral		Oral		HOMD: tax_694	n.a.	
9091	Eubacterium saburreum 402H1AP	BACTERIAL	467210	Oral		Oral		HOMD: tax_494	n.a.	
381	Eubacterium saburreum DSM 3986	BACTERIAL	887325	Oral		Oral			n.a.	
9970	Eubacterium saburreum F0468	BACTERIAL	1095750	Oral		Oral			n.a.	
377	Eubacterium saphenum ATCC 49989	BACTERIAL	592031	Oral	Periodontal	Oral	Periodontal	HOMD: tax_759	n.a.	
1142	Eubacterium sp. AS15	BACTERIAL	1115804	Oral		Oral			n.a.	
1496	Eubacterium sp. OBRC9	BACTERIAL	936557	Oral		Oral			n.a.	
9092	Eubacterium sulci ATCC 35585	BACTERIAL	888727	Oral		Oral		HOMD: tax_467	n.a.	
379	Eubacterium yurii subsp. margaretiae ATCC 43715	BACTERIAL	864565	Oral		Oral			8248733	
389	Filifactor alocis ATCC 35896	BACTERIAL	546269	Oral	Gingival	Oral	Gingival	HOMD: tax_539	21825062	D6GRS3
389	Filifactor alocis ATCC 35896	BACTERIAL	546269	Oral	Gingival	Oral	Gingival	HOMD: tax_539	21825062	D6GT59
389	Filifactor alocis ATCC 35896	BACTERIAL	546269	Oral	Gingival	Oral	Gingival	HOMD: tax_539	21825062	D6GSQ0
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389	Filifactor alocis ATCC 35896	BACTERIAL	546269	Oral	Gingival	Oral	Gingival	HOMD: tax_539	21825062	D6GU67
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389	Filifactor alocis ATCC 35896	BACTERIAL	546269	Oral	Gingival	Oral	Gingival	HOMD: tax_539	21825062	D6GRE7
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389	Filifactor alocis ATCC 35896	BACTERIAL	546269	Oral	Gingival	Oral	Gingival	HOMD: tax_539	21825062	D6GTE3
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389	Filifactor alocis ATCC 35896	BACTERIAL	546269	Oral	Gingival	Oral	Gingival	HOMD: tax_539	21825062	D6GTU3
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389	Filifactor alocis ATCC 35896	BACTERIAL	546269	Oral	Gingival	Oral	Gingival	HOMD: tax_539	23008013	D6GRS3
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389	Filifactor alocis ATCC 35896	BACTERIAL	546269	Oral	Gingival	Oral	Gingival	HOMD: tax_539	23008013	D6GRB7
389	Filifactor alocis ATCC 35896	BACTERIAL	546269	Oral	Gingival	Oral	Gingival	HOMD: tax_539	23008013	D6GTU3
389	Filifactor alocis ATCC 35896	BACTERIAL	546269	Oral	Gingival	Oral	Gingival	HOMD: tax_539	23008013	D6GTU9
389	Filifactor alocis ATCC 35896	BACTERIAL	546269	Oral	Gingival	Oral	Gingival	HOMD: tax_539	23008013	E8RK69
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389	Filifactor alocis ATCC 35896	BACTERIAL	546269	Oral	Gingival	Oral	Gingival	HOMD: tax_539	23008013	D6GTZ4
389	Filifactor alocis ATCC 35896	BACTERIAL	546269	Oral	Gingival	Oral	Gingival	HOMD: tax_539	23008013	D6GST6
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389	Filifactor alocis ATCC 35896	BACTERIAL	546269	Oral	Gingival	Oral	Gingival	HOMD: tax_539	23008013	D6GTY0
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389	Filifactor alocis ATCC 35896	BACTERIAL	546269	Oral	Gingival	Oral	Gingival	HOMD: tax_539	23008013	D6GPH9
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389	Filifactor alocis ATCC 35896	BACTERIAL	546269	Oral	Gingival	Oral	Gingival	HOMD: tax_539	23008013	E8RK92

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389	Filifactor alocis ATCC 35896	BACTERIAL	546269	Oral	Gingival	Oral	Gingival	HOMD: tax_539	23008013	D6GPT1
389	Filifactor alocis ATCC 35896	BACTERIAL	546269	Oral	Gingival	Oral	Gingival	HOMD: tax_539	23008013	D6GRE0
389	Filifactor alocis ATCC 35896	BACTERIAL	546269	Oral	Gingival	Oral	Gingival	HOMD: tax_539	23008013	D6GPW9
389	Filifactor alocis ATCC 35896	BACTERIAL	546269	Oral	Gingival	Oral	Gingival	HOMD: tax_539	23008013	D6GSQ4
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389	Filifactor alocis ATCC 35896	BACTERIAL	546269	Oral	Gingival	Oral	Gingival	HOMD: tax_539	23008013	D6GRC3
389	Filifactor alocis ATCC 35896	BACTERIAL	546269	Oral	Gingival	Oral	Gingival	HOMD: tax_539	23008013	D6GTN1
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389	Filifactor alocis ATCC 35896	BACTERIAL	546269	Oral	Gingival	Oral	Gingival	HOMD: tax_539	23008013	D6GST0
389	Filifactor alocis ATCC 35896	BACTERIAL	546269	Oral	Gingival	Oral	Gingival	HOMD: tax_539	23008013	D6GSZ3
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389	Filifactor alocis ATCC 35896	BACTERIAL	546269	Oral	Gingival	Oral	Gingival	HOMD: tax_539	23008013	D6GPT5
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389	Filifactor alocis ATCC 35896	BACTERIAL	546269	Oral	Gingival	Oral	Gingival	HOMD: tax_539	23008013	D6GTU3
389	Filifactor alocis ATCC 35896	BACTERIAL	546269	Oral	Gingival	Oral	Gingival	HOMD: tax_539	23008013	D6GSQ2
389	Filifactor alocis ATCC 35896	BACTERIAL	546269	Oral	Gingival	Oral	Gingival	HOMD: tax_539	23008013	D6GSJ7
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389	Filifactor alocis ATCC 35896	BACTERIAL	546269	Oral	Gingival	Oral	Gingival	HOMD: tax_539	23008013	E8RK94
389	Filifactor alocis ATCC 35896	BACTERIAL	546269	Oral	Gingival	Oral	Gingival	HOMD: tax_539	23008013	E8RK80
389	Filifactor alocis ATCC 35896	BACTERIAL	546269	Oral	Gingival	Oral	Gingival	HOMD: tax_539	23008013	D6GRN3
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389	Filifactor alocis ATCC 35896	BACTERIAL	546269	Oral	Gingival	Oral	Gingival	HOMD: tax_539	23008013	D6GQF1
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389	Filifactor alocis ATCC 35896	BACTERIAL	546269	Oral	Gingival	Oral	Gingival	HOMD: tax_539	23008013	D6GR85
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389	Filifactor alocis ATCC 35896	BACTERIAL	546269	Oral	Gingival	Oral	Gingival	HOMD: tax_539	23008013	D6GTX7
389	Filifactor alocis ATCC 35896	BACTERIAL	546269	Oral	Gingival	Oral	Gingival	HOMD: tax_539	23008013	D6GSK9
389	Filifactor alocis ATCC 35896	BACTERIAL	546269	Oral	Gingival	Oral	Gingival	HOMD: tax_539	23008013	D6GPI7
389	Filifactor alocis ATCC 35896	BACTERIAL	546269	Oral	Gingival	Oral	Gingival	HOMD: tax_539	23008013	D6GTG3
389	Filifactor alocis ATCC 35896	BACTERIAL	546269	Oral	Gingival	Oral	Gingival	HOMD: tax_539	23008013	D6GQC6
389	Filifactor alocis ATCC 35896	BACTERIAL	546269	Oral	Gingival	Oral	Gingival	HOMD: tax_539	23008013	D6GTQ0
389	Filifactor alocis ATCC 35896	BACTERIAL	546269	Oral	Gingival	Oral	Gingival	HOMD: tax_539	23008013	D6GTX9
389	Filifactor alocis ATCC 35896	BACTERIAL	546269	Oral	Gingival	Oral	Gingival	HOMD: tax_539	23008013	D6GTV6
389	Filifactor alocis ATCC 35896	BACTERIAL	546269	Oral	Gingival	Oral	Gingival	HOMD: tax_539	23008013	D6GTN3
389	Filifactor alocis ATCC 35896	BACTERIAL	546269	Oral	Gingival	Oral	Gingival	HOMD: tax_539	23008013	D6GR95
389	Filifactor alocis ATCC 35896	BACTERIAL	546269	Oral	Gingival	Oral	Gingival	HOMD: tax_539	23008013	D6GU07
389	Filifactor alocis ATCC 35896	BACTERIAL	546269	Oral	Gingival	Oral	Gingival	HOMD: tax_539	23008013	D6GSU0
389	Filifactor alocis ATCC 35896	BACTERIAL	546269	Oral	Gingival	Oral	Gingival	HOMD: tax_539	23008013	D6GT22
389	Filifactor alocis ATCC 35896	BACTERIAL	546269	Oral	Gingival	Oral	Gingival	HOMD: tax_539	23008013	D6GQU6
389	Filifactor alocis ATCC 35896	BACTERIAL	546269	Oral	Gingival	Oral	Gingival	HOMD: tax_539	23008013	D6GTR4
389	Filifactor alocis ATCC 35896	BACTERIAL	546269	Oral	Gingival	Oral	Gingival	HOMD: tax_539	23008013	E8RK73
389	Filifactor alocis ATCC 35896	BACTERIAL	546269	Oral	Gingival	Oral	Gingival	HOMD: tax_539	23008013	D6GT02
389	Filifactor alocis ATCC 35896	BACTERIAL	546269	Oral	Gingival	Oral	Gingival	HOMD: tax_539	23008013	D6GST9
389	Filifactor alocis ATCC 35896	BACTERIAL	546269	Oral	Gingival	Oral	Gingival	HOMD: tax_539	23008013	D6GQF2
389	Filifactor alocis ATCC 35896	BACTERIAL	546269	Oral	Gingival	Oral	Gingival	HOMD: tax_539	23008013	D6GT30
389	Filifactor alocis ATCC 35896	BACTERIAL	546269	Oral	Gingival	Oral	Gingival	HOMD: tax_539	23008013	D6GQE6
389	Filifactor alocis ATCC 35896	BACTERIAL	546269	Oral	Gingival	Oral	Gingival	HOMD: tax_539	23008013	D6GQA2
389	Filifactor alocis ATCC 35896	BACTERIAL	546269	Oral	Gingival	Oral	Gingival	HOMD: tax_539	23008013	D6GQY2
389	Filifactor alocis ATCC 35896	BACTERIAL	546269	Oral	Gingival	Oral	Gingival	HOMD: tax_539	23008013	E8RKC6
389	Filifactor alocis ATCC 35896	BACTERIAL	546269	Oral	Gingival	Oral	Gingival	HOMD: tax_539	23008013	D6GRB7
389	Filifactor alocis ATCC 35896	BACTERIAL	546269	Oral	Gingival	Oral	Gingival	HOMD: tax_539	23008013	D6GTY3
389	Filifactor alocis ATCC 35896	BACTERIAL	546269	Oral	Gingival	Oral	Gingival	HOMD: tax_539	23008013	D6GRQ5
389	Filifactor alocis ATCC 35896	BACTERIAL	546269	Oral	Gingival	Oral	Gingival	HOMD: tax_539	23008013	D6GTA6
389	Filifactor alocis ATCC 35896	BACTERIAL	546269	Oral	Gingival	Oral	Gingival	HOMD: tax_539	23008013	D6GSI0
389	Filifactor alocis ATCC 35896	BACTERIAL	546269	Oral	Gingival	Oral	Gingival	HOMD: tax_539	23008013	D6GQN3
389	Filifactor alocis ATCC 35896	BACTERIAL	546269	Oral	Gingival	Oral	Gingival	HOMD: tax_539	23008013	D6GQG5
389	Filifactor alocis ATCC 35896	BACTERIAL	546269	Oral	Gingival	Oral	Gingival	HOMD: tax_539	23008013	D6GTG3
389	Filifactor alocis ATCC 35896	BACTERIAL	546269	Oral	Gingival	Oral	Gingival	HOMD: tax_539	23008013	D6GSW1
389	Filifactor alocis ATCC 35896	BACTERIAL	546269	Oral	Gingival	Oral	Gingival	HOMD: tax_539	23008013	D6GU29

389	Filifactor alocis ATCC 35896	BACTERIAL	546269	Oral	Gingival	Oral	Gingival	HOMD: tax_539	23008013	D6GTZ2
389	Filifactor alocis ATCC 35896	BACTERIAL	546269	Oral	Gingival	Oral	Gingival	HOMD: tax_539	23008013	D6GRB4
389	Filifactor alocis ATCC 35896	BACTERIAL	546269	Oral	Gingival	Oral	Gingival	HOMD: tax_539	23008013	D6GPX0
389	Filifactor alocis ATCC 35896	BACTERIAL	546269	Oral	Gingival	Oral	Gingival	HOMD: tax_539	23008013	D6GRW5
389	Filifactor alocis ATCC 35896	BACTERIAL	546269	Oral	Gingival	Oral	Gingival	HOMD: tax_539	23008013	D6GQK0
389	Filifactor alocis ATCC 35896	BACTERIAL	546269	Oral	Gingival	Oral	Gingival	HOMD: tax_539	23008013	E8RK76
389	Filifactor alocis ATCC 35896	BACTERIAL	546269	Oral	Gingival	Oral	Gingival	HOMD: tax_539	23008013	D6GRU2
389	Filifactor alocis ATCC 35896	BACTERIAL	546269	Oral	Gingival	Oral	Gingival	HOMD: tax_539	23008013	D6GQM6
389	Filifactor alocis ATCC 35896	BACTERIAL	546269	Oral	Gingival	Oral	Gingival	HOMD: tax_539	23008013	D6GPQ4
389	Filifactor alocis ATCC 35896	BACTERIAL	546269	Oral	Gingival	Oral	Gingival	HOMD: tax_539	23008013	D6GPR9
389	Filifactor alocis ATCC 35896	BACTERIAL	546269	Oral	Gingival	Oral	Gingival	HOMD: tax_539	23008013	D6GTK5
389	Filifactor alocis ATCC 35896	BACTERIAL	546269	Oral	Gingival	Oral	Gingival	HOMD: tax_539	23008013	D6GTM2
389	Filifactor alocis ATCC 35896	BACTERIAL	546269	Oral	Gingival	Oral	Gingival	HOMD: tax_539	23008013	D6GU58
389	Filifactor alocis ATCC 35896	BACTERIAL	546269	Oral	Gingival	Oral	Gingival	HOMD: tax_539	23008013	D6GSG4
389	Filifactor alocis ATCC 35896	BACTERIAL	546269	Oral	Gingival	Oral	Gingival	HOMD: tax_539	23008013	D6GSG9
389	Filifactor alocis ATCC 35896	BACTERIAL	546269	Oral	Gingival	Oral	Gingival	HOMD: tax_539	23008013	D6GQV5
389	Filifactor alocis ATCC 35896	BACTERIAL	546269	Oral	Gingival	Oral	Gingival	HOMD: tax_539	23008013	D6GPQ4
389	Filifactor alocis ATCC 35896	BACTERIAL	546269	Oral	Gingival	Oral	Gingival	HOMD: tax_539	23008013	D6GSN2
1127	Fusobacterium necrophorum subsp. funduliforme Fnf 1007	BACTERIAL	1161424	Oral	Mouth	Oral	Mouth		n.a.	
	Fusobacterium nucleatum subsp. Nucleatum	BACTERIAL							19572900	Q8RGG3
	Fusobacterium nucleatum subsp. Nucleatum	BACTERIAL							19572900	Q8RIE8
	Fusobacterium nucleatum subsp. Nucleatum	BACTERIAL							19572900	Q8RI38
	Fusobacterium nucleatum subsp. Nucleatum	BACTERIAL							19572900	Q8RHF5
	Fusobacterium nucleatum subsp. Nucleatum	BACTERIAL							19572900	A5TVG7
0	Fusobacterium nucleatum subsp. polymorphum ATCC 10953	BACTERIAL	76857	Oral	Mouth	Oral	Mouth		n.a.	
0	Fusobacterium nucleatum subsp. vincentii ATCC 49256	BACTERIAL	209882	Oral	Periodontal	Oral	Periodontal		19398030	
398	Fusobacterium periodonticum ATCC 33693	BACTERIAL	546275	Oral		Oral		HOMD: tax_201	n.a.	
399	Fusobacterium periodonticum D10	BACTERIAL	620833	Oral		Oral		HOMD: tax_201	n.a.	
1499	Fusobacterium sp. ACC1	BACTERIAL	1161410	Oral		Oral			n.a.	
1498	Fusobacterium sp. CM1	BACTERIAL	936561	Oral		Oral			n.a.	
1497	Fusobacterium sp. CM21	BACTERIAL	936562	Oral		Oral			n.a.	
1500	Fusobacterium sp. CM22	BACTERIAL	936563	Oral		Oral			n.a.	
1501	Fusobacterium sp. OBRC1	BACTERIAL	1032505	Oral		Oral			18971361	
9093	Fusobacterium sp. oral taxon 370 str. F0437	BACTERIAL	861452	Oral		Oral		HOMD: tax_370	n.a.	
427	Gemella haemolysans ATCC 10379	BACTERIAL	546270	Oral		Oral		HOMD: tax_626	n.a.	
444	Granulicatella adiacens ATCC 49175	BACTERIAL	638301	Oral		Oral		HOMD: tax_534	n.a.	
446	Granulicatella elegans ATCC 700633	BACTERIAL	626369	Oral		Oral		HOMD: tax_596	n.a.	
9095	Haemophilus aegyptius ATCC 11116	BACTERIAL	888728	Eye, Oral	Conjunctiva,	Oral	Conjunctiva	HOMD: tax_535	n.a.	
9333	Johnsonella ignava ATCC 51276	BACTERIAL	679200	Oral	Gingival	Oral	Gingival	HOMD: tax_635	n.a.	
9097	Johnsonella ignava D130C-30	BACTERIAL	43995	Oral		Oral		HOMD: tax_635	n.a.	
883	Jonquetella anthropi E3_33 E1	BACTERIAL	645512	Oral		Oral		HOMD: tax_777	n.a.	
477	Kingella oralis ATCC 51147	BACTERIAL	629741	Oral	Periodontal	Oral	Periodontal	HOMD: tax_706	n.a.	
1502	Klebsiella sp. AS10	BACTERIAL	936564	Oral		Oral			n.a.	
1144	Klebsiella sp. OBRC7	BACTERIAL	936565	Oral		Oral			17570014	
1144	Klebsiella sp. OBRC7	BACTERIAL	936565	Oral		Oral			18448201	
1144	Klebsiella sp. OBRC7	BACTERIAL	936565	Oral		Oral			20565803	
1144	Klebsiella sp. OBRC7	BACTERIAL	936565	Oral		Oral			21691771	
1495	Lachnospiraceae bacterium MSX33	BACTERIAL	936596	Oral		Oral			n.a.	
9099	Lachnospiraceae bacterium oral taxon 082 str. F0431	BACTERIAL	861454	Oral		Oral		HOMD: tax_82	n.a.	
1140	Lachnospiraceae bacterium sp. ICM7	BACTERIAL	936594	Oral		Oral			n.a.	
491	Lachnospiraceae oral taxon 107 str. F0167	BACTERIAL	575593	Oral		Oral		HOMD: tax_107	n.a.	
9100	Lachnospiraceae[G-3] sp. 1T16BP	BACTERIAL	186803	Oral		Oral		HOMD: tax_96	n.a.	
9101	Lachnospiraceae[G-4] sp. F0158	BACTERIAL	186803	Oral		Oral		HOMD: tax_419	n.a.	
9105	Lactobacillus catenaformis F0143	BACTERIAL	31973	Oral		Oral		HOMD: tax_569	n.a.	
0	Lactobacillus fermentum CECT 5716	BACTERIAL	712938	Gastrointesti	,	Oral			17542629	
0	Lactobacillus fermentum CECT 5716	BACTERIAL	712938	Gastrointesti	,	Oral			22113866	
0	Lactobacillus fermentum CECT 5716	BACTERIAL	712938	Gastrointesti	,	Oral				B2GBW0

0	Lactobacillus fermentum CECT 5716	BACTERIAL	712938	Gastrointesti	,	Oral				D0DRT4
0	Lactobacillus fermentum CECT 5716	BACTERIAL	712938	Gastrointesti	,	Oral				D0DVC7
0	Lactobacillus fermentum CECT 5716	BACTERIAL	712938	Gastrointesti	,	Oral				D0DVG7
0	Lactobacillus fermentum CECT 5716	BACTERIAL	712938	Gastrointesti	,	Oral				D0DU17
0	Lactobacillus fermentum CECT 5716	BACTERIAL	712938	Gastrointesti	,	Oral				D0DT55
0	Lactobacillus fermentum CECT 5716	BACTERIAL	712938	Gastrointesti	,	Oral				D0DSE0
0	Lactobacillus fermentum CECT 5716	BACTERIAL	712938	Gastrointesti	,	Oral				D0DRL2
0	Lactobacillus fermentum CECT 5716	BACTERIAL	712938	Gastrointesti	,	Oral				D0DUD2
0	Lactobacillus fermentum CECT 5716	BACTERIAL	712938	Gastrointesti	,	Oral				C0WV92
0	Lactobacillus fermentum CECT 5716	BACTERIAL	712938	Gastrointesti	,	Oral				C0WXN6
0	Lactobacillus fermentum CECT 5716	BACTERIAL	712938	Gastrointesti	,	Oral				C0WX92
0	Lactobacillus fermentum CECT 5716	BACTERIAL	712938	Gastrointesti	,	Oral				C0WVW9
0	Lactobacillus fermentum CECT 5716	BACTERIAL	712938	Gastrointesti	,	Oral				C0WWK9
0	Lactobacillus fermentum CECT 5716	BACTERIAL	712938	Gastrointesti	,	Oral				C0WY60
0	Lactobacillus fermentum CECT 5716	BACTERIAL	712938	Gastrointesti	,	Oral				C0WYJ9
0	Lactobacillus fermentum CECT 5716	BACTERIAL	712938	Gastrointesti	,	Oral				C0WXS7
0	Lactobacillus fermentum CECT 5716	BACTERIAL	712938	Gastrointesti	,	Oral				B2GBD6
0	Lactobacillus fermentum CECT 5716	BACTERIAL	712938	Gastrointesti	,	Oral				B2GDP2
0	Lactobacillus fermentum CECT 5716	BACTERIAL	712938	Gastrointesti	,	Oral				B2GEM4
0	Lactobacillus fermentum CECT 5716	BACTERIAL	712938	Gastrointesti	,	Oral				B2GEX7
0	Lactobacillus fermentum CECT 5716	BACTERIAL	712938	Gastrointesti	,	Oral				B2G6U0
0	Lactobacillus fermentum CECT 5716	BACTERIAL	712938	Gastrointesti	,	Oral				B2G6X2
0	Lactobacillus fermentum CECT 5716	BACTERIAL	712938	Gastrointesti	,	Oral				B2G9A7
0	Lactobacillus fermentum CECT 5716	BACTERIAL	712938	Gastrointesti	,	Oral				B2G9G4
0	Lactobacillus fermentum CECT 5716	BACTERIAL	712938	Gastrointesti	,	Oral				B2GA19
0	Lactobacillus fermentum CECT 5716	BACTERIAL	712938	Gastrointesti	,	Oral				B2G5G9
0	Lactobacillus fermentum CECT 5716	BACTERIAL	712938	Gastrointesti	,	Oral				B2G7D7
0	Lactobacillus fermentum CECT 5716	BACTERIAL	712938	Gastrointesti	,	Oral				B2G8E0
0	Lactobacillus fermentum CECT 5716	BACTERIAL	712938	Gastrointesti	,	Oral				D8IGP5
0	Lactobacillus fermentum CECT 5716	BACTERIAL	712938	Gastrointesti	,	Oral				D8IHA2
0	Lactobacillus fermentum CECT 5716	BACTERIAL	712938	Gastrointesti	,	Oral				D8IHC6
0	Lactobacillus fermentum CECT 5716	BACTERIAL	712938	Gastrointesti	,	Oral				D8IJ59
0	Lactobacillus fermentum CECT 5716	BACTERIAL	712938	Gastrointesti	,	Oral				D8IGC0
0	Lactobacillus fermentum CECT 5716	BACTERIAL	712938	Gastrointesti	,	Oral				D8IHL7
0	Lactobacillus fermentum CECT 5716	BACTERIAL	712938	Gastrointesti	,	Oral				D0DT95
0	Lactobacillus fermentum CECT 5716	BACTERIAL	712938	Gastrointesti	,	Oral				D0DUC2
0	Lactobacillus fermentum CECT 5716	BACTERIAL	712938	Gastrointesti	,	Oral				C0WVD8
0	Lactobacillus fermentum CECT 5716	BACTERIAL	712938	Gastrointesti	,	Oral				C0WVF5
0	Lactobacillus fermentum CECT 5716	BACTERIAL	712938	Gastrointesti	,	Oral				B2GA97
0	Lactobacillus fermentum CECT 5716	BACTERIAL	712938	Gastrointesti	,	Oral				B2GDJ5
0	Lactobacillus fermentum CECT 5716	BACTERIAL	712938	Gastrointesti	,	Oral				B2G5Q6
0	Lactobacillus fermentum CECT 5716	BACTERIAL	712938	Gastrointesti	,	Oral				B2G5D2
0	Lactobacillus fermentum CECT 5716	BACTERIAL	712938	Gastrointesti	,	Oral				D8IGQ3
0	Lactobacillus fermentum CECT 5716	BACTERIAL	712938	Gastrointesti	,	Oral				D8III3
0	Lactobacillus fermentum CECT 5716	BACTERIAL	712938	Gastrointesti	,	Oral				B2GDD7
0	Lactobacillus fermentum CECT 5716	BACTERIAL	712938	Gastrointesti	,	Oral				B2G8D8
0	Lactobacillus fermentum CECT 5716	BACTERIAL	712938	Gastrointesti	,	Oral				D0DUZ2
0	Lactobacillus fermentum CECT 5716	BACTERIAL	712938	Gastrointesti	,	Oral				C0X016
0	Lactobacillus fermentum CECT 5716	BACTERIAL	712938	Gastrointesti	,	Oral				D8IIG1
0	Lactobacillus fermentum CECT 5716	BACTERIAL	712938	Gastrointesti	,	Oral				D0DRF0
0	Lactobacillus fermentum CECT 5716	BACTERIAL	712938	Gastrointesti	,	Oral				C0WYW4
0	Lactobacillus fermentum CECT 5716	BACTERIAL	712938	Gastrointesti	,	Oral				B2GC14
0	Lactobacillus fermentum CECT 5716	BACTERIAL	712938	Gastrointesti	,	Oral				B2G6N2
0	Lactobacillus fermentum CECT 5716	BACTERIAL	712938	Gastrointesti	,	Oral				D8IHP9
0	Lactobacillus fermentum CECT 5716	BACTERIAL	712938	Gastrointesti	,	Oral				D0DUM4
0	Lactobacillus fermentum CECT 5716	BACTERIAL	712938	Gastrointesti	,	Oral				D0DRT6
9102	Lactobacillus oris F0423	BACTERIAL	944562	Oral		Oral		HOMD: tax_709	n.a.	

0	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22326142	F9UMC8
0	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22326142	F9UMC9
0	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22326142	F9UQB9
0	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22326142	F9ULD3
0	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22326142	F9UR64
0	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22326142	F9UNI7
0	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22326142	F9UNB4
0	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22326142	F9UUC2
0	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22326142	F9ULZ2
0	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22326142	F9USW3
0	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22326142	F9ULY6
0	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22326142	F9UPR1
0	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22326142	F9UPP6
0	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22326142	Q6LWG1
0	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22326142	P37063
0	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22326142	F9UM63
0	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22326142	F9URC8
0	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22326142	F9ULE1
0	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22326142	F9UM65
0	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22326142	Q88YH9
0	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22326142	Q88VE2
0	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22326142	Q88W26
0	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22326142	F9UN58
0	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22326142	F9UMJ6
0	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22326142	F9ULD9
0	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22326142	F9UN58
0	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22326142	Q88YH9
0	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22326142	Q88VE2
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0	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22326142	F9UN58
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0	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22326142	F9URF8
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0	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22326142	Q88VM0
0	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22326142	Q88VL9
0	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22326142	F9UPU3
0	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22326142	F9UPH1
0	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22326142	F9UNA7
0	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22326142	Q6LWG1
0	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22326142	F9URQ8
0	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22326142	F9USA2
0	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22326142	F9UM47
0	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22326142	F9US82
0	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22326142	F9UR99
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	Q88VY1
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	F9UQ90
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	F9UTT2
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	F9UM10
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	P56512
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	P59390
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	Q88VJ2
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	F9UN38
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	F9UQQ1

	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	F9UTU9
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	F9USQ5
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	F9UMP8
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	F9UQ89
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	F9UU97
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	Q88YH5
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	Q88YH3
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	Q88VW2
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	F9UQ93
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	F9UQ92
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	F9UPM3
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	Q88YH4
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	F9UMS0
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	F9UMR9
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	F9UNZ5
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	F9ULA5
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	F9UUK9
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	Q88ZS1
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	F9UQS9
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	F9UTR4
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	P37063
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	Q88S37
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	F9US84
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	F9UR85
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	F9UNV9
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	F9UP39
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	F9USY1
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	F9UNZ9
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	F9UTW8
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	F9USY0
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	Q88XW5
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	Q88SV6
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	Q88U29
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	Q88SV5
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	P77885
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	Q88W73
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	Q88Z76
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	P77884
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	P77887
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	P77889
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	Q88YP6
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	Q88Z86
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	Q88ZS6
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	P59407
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	Q88UU2
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	F9UNI1
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	F9UUC2
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	F9UR64
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	F9UPL0
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	Q88VJ4
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	Q88YW9
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	Q88XY6
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	Q88XX0
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	Q88XP6
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	F9UPT6
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	Q88VS3
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	Q88WN1

	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	Q88VE0
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	Q88VL9
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	Q88VL8
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	Q88VM1
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	Q88VX7
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	Q88VM0
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	Q88VM1
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	Q88VL9
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	Q88VL8
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	Q88VX7
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	Q88YM5
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	F9USV1
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	Q88VE1
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	Q88XY8
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	F9USR0
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	F9URP8
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	F9URP9
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	F9UUI3
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	F9UN55
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	F9UMC9
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	F9UMC8
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	F9UN58
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	F9ULD9
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	Q88Y74
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	F9UQH6
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	Q88W33
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	F9UPU3
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	Q88YK3
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	F9UN59
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	F9UN60
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	F9URP8
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	F9UNF2
	Lactobacillus plantarum WCFS1	BACTERIAL	220668	Oral		Oral			22634038	Q88W23
	Lactobacillus plantarum WCFS2	BACTERIAL	220669	Oral		Oral			22326142	F9UQB9
	Lactobacillus plantarum WCFS2	BACTERIAL	220669	Oral		Oral			22326142	F9ULD3
	Lactobacillus plantarum WCFS3	BACTERIAL	220670	Oral		Oral			18681965	
	Lactobacillus plantarum WCFS4	BACTERIAL	220671	Oral		Oral			17115456	
545	Lactobacillus salivarius ATCC 11741	BACTERIAL	525364	Gastrointesti	,	Oral		HOMD: tax_756	16214296	
0	Lactobacillus salivarius CECT 5713	BACTERIAL	712961	Gastrointesti	,	Oral			n.a.	
9103	Lactobacillus sp. oral taxon 418 str. F0439	BACTERIAL	797515	Oral		Oral		HOMD: tax_418	na	
551	Lautropia mirabilis ATCC 51599	BACTERIAL	887898	Oral	Gingival	Oral	Gingival	HOMD: tax_22	n.a.	
9106	Leptotrichia buccalis 301H31BP	BACTERIAL	40542	Oral		Oral		HOMD: tax_563	n.a.	
0	Leptotrichia buccalis ATCC 14201	BACTERIAL	523794	Oral		Oral			n.a.	
0	Leptotrichia buccalis DSM 1135	BACTERIAL	523794	Oral	Subgingival	Oral	Subgingival		n.a.	
9014	Leptotrichia goodfellowii D28	BACTERIAL	564663	Oral		Oral			n.a.	
0	Leptotrichia goodfellowii DSM 19756	BACTERIAL	714315	Oral		Oral			n.a.	
554	Leptotrichia goodfellowii F0264	BACTERIAL	596323	Oral		Oral		HOMD: tax_845	n.a.	
5525	Leptotrichia hofstadii F0254	BACTERIAL	634994	Oral		Oral		HOMD: tax_224	n.a.	
9107	Leptotrichia shahii 101H7BP	BACTERIAL	157691	Oral		Oral		HOMD: tax_214	n.a.	
9108	Leptotrichia sp. 64A2BP	BACTERIAL	104608	Oral		Oral		HOMD: tax_225	18971361	
5535	Leptotrichia sp. F0260	BACTERIAL	104608	Oral		Oral		HOMD: tax_847	18971361	
9109	Leptotrichia sp. F0316	BACTERIAL	104608	Oral		Oral		HOMD: tax_498		
1552	Leptotrichia sp. oral taxon 879 F0557	BACTERIAL	1227268	Oral	Mouth	Oral	Mouth		18971361	
9015	Leptotrichia wadei F0279	BACTERIAL	888055	Oral	Subgingival	Oral	Subgingival	HOMD: tax_222	n.a.	
9429	Megasphaera micronuciformis F0359	BACTERIAL	706434	Oral		Oral		HOMD: tax_122	n.a.	
562	Megasphaera micronuciformis W60807	BACTERIAL	187326	Oral		Oral		HOMD: tax_122	n.a.	
563	Methanobrevibacter smithii DSM 2374	ARCHAEAL	66851	Oral		Oral		HOMD: tax_815	n.a.	

9110	Microbacterium sp. oral strain C24KA	BACTERIAL	135069	Oral		Oral		HOMD: tax_186	n.a.	
1529	Microbacterium sp. oral taxon 186 str. F0373	BACTERIAL	1203549	Oral		Oral			n.a.	
9111	Mogibacterium diversum 303H40BP	BACTERIAL	114527	Oral		Oral		HOMD: tax_593	n.a.	
9112	Mogibacterium neglectum ATCC 700924	BACTERIAL	114528	Oral		Oral		HOMD: tax_691	n.a.	
9113	Mogibacterium pumilum ATCC 700696	BACTERIAL	86332	Oral		Oral		HOMD: tax_742	n.a.	
1152	Mogibacterium sp. CM50	BACTERIAL	936375	Oral		Oral			n.a.	
581	Mogibacterium timidum ATCC 33093	BACTERIAL	35519	Oral		Oral		HOMD: tax_42	n.a.	
9114	Mogibacterium vescum ATCC 700697	BACTERIAL	86332	Oral		Oral		HOMD: tax_8	n.a.	
9115	Mycobacterium neoaurum ATCC 25795	BACTERIAL	1795	Oral		Oral		HOMD: tax_692	16349147	
9116	Mycoplasma faucium ATCC 25293	BACTERIAL	56142	Oral		Oral		HOMD: tax_606	n.a.	
592	Mycoplasma fermentans Edward ATCC 15474	BACTERIAL	2115	Oral		Oral		HOMD: tax_607	n.a.	
9118	Mycoplasma salivarium ATCC 23064	BACTERIAL	2124	Oral		Oral		HOMD: tax_754	n.a.	
9123	Neisseria bacilliformis ATCC BAA-1200	BACTERIAL	888742	Oral		Oral		HOMD: tax_13	n.a.	
605	Neisseria mucosa	BACTERIAL	488	Oral		Oral		HOMD: tax_682	n.a.	
9119	Neisseria pharyngis NCTC 4590	BACTERIAL	29434	Oral		Oral		HOMD: tax_729	n.a.	
1028	Neisseria sp. GT4A_CT1	BACTERIAL	665946	Oral		Oral			9868784	
1028	Neisseria sp. GT4A_CT1	BACTERIAL	665946	Oral		Oral			11914361	
9016	Neisseria sp. oral taxon 014 str. F0314	BACTERIAL	641149	Oral	Subgingival	Oral	Subgingival	HOMD: tax_14	na	
9120	Neisseria sp. oral taxon 020 str. F0370	BACTERIAL	1127694	Oral	Dental plaque	Oral		HOMD: tax_20	na	
610	Neisseria subflava NJ9703	BACTERIAL	546268	Oral		Oral		HOMD: tax_476	n.a.	
9121	Olsenella profusa DSM 13989	BACTERIAL	997349	Oral		Oral		HOMD: tax_806	n.a.	
1316	Olsenella profusa F0195, D221A-01	BACTERIAL	1125712	Oral		Oral			n.a.	
9122	Olsenella sp. F0004	BACTERIAL	519017	Oral		Oral		HOMD: tax_807	n.a.	
1503	Olsenella sp. MSTE5	BACTERIAL	1190621	Oral		Oral			n.a.	
1008	Olsenella sp. oral taxon 809 str. F0356	BACTERIAL	661087	Oral		Oral		HOMD: tax_809	n.a.	
0	Olsenella uli DSM 7084	BACTERIAL	633147	Oral	Gingival	Oral	Gingival		n.a.	
6123	Oribacterium sinus F0268	BACTERIAL	585501	Oral		Oral		HOMD: tax_457	n.a.	
9125	Oribacterium sp. F0249	BACTERIAL	265975	Oral		Oral		HOMD: tax_372	n.a.	
1504	Oribacterium sp. ICM51	BACTERIAL	936568	Oral		Oral			n.a.	
6127	Oribacterium sp. oral taxon 078 str. F0262	BACTERIAL	608534	Oral		Oral		HOMD: tax_78	n.a.	
9124	Oribacterium sp. oral taxon 108 str. F0425	BACTERIAL	904296	Oral		Oral		HOMD: tax_108	n.a.	
616	Paenibacillus glucanolyticus	BACTERIAL	59843	Oral		Oral			n.a.	
	Paenibacillus sp.								2744886	B1DLX6
617	Paenibacillus sp. oral taxon 786 str. D14	BACTERIAL	621372	Oral		Oral		HOMD: tax_786	n.a.	
620	Parascardovia denticolens DSM 10105	BACTERIAL	864564	Oral		Oral		HOMD: tax_586	n.a.	
9017	Parascardovia denticolens F0305	BACTERIAL	641144	Oral	Dental plaque	Oral	Dental plaque	HOMD: tax_586	n.a.	
952	Parascardovia denticolens JCM 12538	BACTERIAL	78258	Oral		Oral		HOMD: tax_586	n.a.	
9126	Parvimonas sp. oral taxon 110 str. F0139	BACTERIAL	767100	Oral		Oral		HOMD: tax_110	n.a.	
9127	Parvimonas sp. oral taxon 393 str. F0440	BACTERIAL	944565	Oral		Oral		HOMD: tax_393	n.a.	
625	Peptococcus sp.	BACTERIAL	2740	Oral		Oral			n.a.	
9128	Peptococcus sp. F0270	BACTERIAL	2740	Oral		Oral		HOMD: tax_167	n.a.	
9129	Peptoniphilus indolicus ATCC 29427	BACTERIAL	997350	Oral		Oral		HOMD: tax_840	n.a.	
9130	Peptoniphilus sp. oral taxon 375 str. F0436	BACTERIAL	879308	Oral		Oral		HOMD: tax_375	n.a.	
629	Peptoniphilus sp. oral taxon 386 str. F0131	BACTERIAL	575609	Oral		Oral		HOMD: tax_386	n.a.	
9131	Peptoniphilus sp. oral taxon 836 str. F0141	BACTERIAL	768724	Oral		Oral		HOMD: tax_836	n.a.	
9132	Peptostreptococcaceae sp. A3MT	BACTERIAL	186804	Oral		Oral		HOMD: tax_106	n.a.	
9998	Peptostreptococcus anaerobius VPI 4330	BACTERIAL	1035196	Oral	Dental plaque	Oral	Dental plaque		n.a.	
634	Peptostreptococcus stomatis DSM 17678	BACTERIAL	596315	Oral		Oral		HOMD: tax_112	n.a.	
636	Porphyromonas catoniae ATCC 51270	BACTERIAL	887901	Oral		Oral		HOMD: tax_283	n.a.	
9134	Porphyromonas catoniae F0037	BACTERIAL	1127696	Oral	Subgingival	Oral	Subgingival	HOMD: tax_283	n.a.	
637	Porphyromonas endodontalis ATCC 35406	BACTERIAL	553175	Oral		Oral		HOMD: tax_273	n.a.	
	Porphyromonas gingivalis								2744886	Q7MWV9
	Porphyromonas gingivalis								2744886	B2RKT2
	Porphyromonas gingivalis								2744886	Q7MUL8
	Porphyromonas gingivalis								23075153	B2RHG7
	Porphyromonas gingivalis								23075153	B2RHH7
	Porphyromonas gingivalis								23075153	B2RKM5

	Porphyromonas gingivalis								23075153	B2RHV8
	Porphyromonas gingivalis								23075153	B2RIQ3
	Porphyromonas gingivalis								23075153	B2RKJ1
	Porphyromonas gingivalis								23075153	B2RID6
	Porphyromonas gingivalis								23075153	B2RJU4
	Porphyromonas gingivalis								23075153	B2RI01
	Porphyromonas gingivalis								23075153	B2RL31
	Porphyromonas gingivalis								23075153	B2RH54
	Porphyromonas gingivalis								23075153	B2RLG9
	Porphyromonas gingivalis								23075153	B2RL61
	Porphyromonas gingivalis								23075153	B2RII4
	Porphyromonas gingivalis								23075153	B2RMG0
	Porphyromonas gingivalis								23075153	B2RIC8
	Porphyromonas gingivalis								23075153	B2RJ50
	Porphyromonas gingivalis								23075153	B2RLW5
	Porphyromonas gingivalis								23075153	B2RGP7
	Porphyromonas gingivalis								23075153	B2RLP1
	Porphyromonas gingivalis								23075153	B2RII5
	Porphyromonas gingivalis								23075153	B2RKS6
	Porphyromonas gingivalis								23075153	B2RLZ4
	Porphyromonas gingivalis								23075153	B2RID5
	Porphyromonas gingivalis								23075153	B2RID5
	Porphyromonas gingivalis								23075153	B2RGS8
	Porphyromonas gingivalis								23075153	B2RHH4
	Porphyromonas gingivalis								23075153	B2RJ90
	Porphyromonas gingivalis								23075153	B2RI88
	Porphyromonas gingivalis								23075153	B2RII3
	Porphyromonas gingivalis								23075153	B2RH47
	Porphyromonas gingivalis								23075153	B2RIR7
	Porphyromonas gingivalis								23075153	B2RLK7
	Porphyromonas gingivalis								23075153	B2RHK9
	Porphyromonas gingivalis								23075153	B2RKV0
	Porphyromonas gingivalis								23075153	B2RKY7
	Porphyromonas gingivalis								23075153	B2RJ72
	Porphyromonas gingivalis								23075153	B2RH26
	Porphyromonas gingivalis								23075153	B2RLK2
	Porphyromonas gingivalis								23075153	B2RLG3
	Porphyromonas gingivalis								23075153	B2RKJ0
	Porphyromonas gingivalis								23075153	B2RHG1
	Porphyromonas gingivalis								23075153	B2RI24
	Porphyromonas gingivalis								23075153	B2RKQ6
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	Porphyromonas gingivalis								23075153	B2RLN5
	Porphyromonas gingivalis								23075153	B2RIQ2
	Porphyromonas gingivalis								23075153	B2RHG4
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	Porphyromonas gingivalis								23075153	B2RL26
	Porphyromonas gingivalis								23264054	Q7MXJ7
	Porphyromonas gingivalis								23264054	P95493
	Porphyromonas gingivalis								23264054	Q7MWD1
	Porphyromonas gingivalis								23264054	P0C934
	Porphyromonas gingivalis								23264054	Q7MT61
	Porphyromonas gingivalis								23264054	Q7MTK2
	Porphyromonas gingivalis								23264054	O83017
	Porphyromonas gingivalis								23264054	P19665
	Porphyromonas gingivalis								23264054	O83010
	Porphyromonas gingivalis								23264054	A0PA80

	Porphyromonas gingivalis								20060886	Q8G962
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	Porphyromonas gingivalis (strain ATCC 33277)								19454014	B2RIY5
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	Porphyromonas gingivalis (strain ATCC 33277)								19454014	B2RIZ0
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	Porphyromonas gingivalis (strain ATCC 33277)								19454014	B2RIZ8
	Porphyromonas gingivalis (strain ATCC 33277)								19454014	B2RJ01
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	Porphyromonas gingivalis (strain ATCC 33277)								19454014	B2RJ05
	Porphyromonas gingivalis (strain ATCC 33277)								19454014	B2RJ07
	Porphyromonas gingivalis (strain ATCC 33277)								19454014	B2RJ11
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	Porphyromonas gingivalis (strain ATCC 33277)								19454014	B2RJ39
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	Porphyromonas gingivalis (strain ATCC 33277)								19454014	B2RJ49
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	Porphyromonas gingivalis (strain ATCC 33277)								19454014	B2RJ59
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	Porphyromonas gingivalis (strain ATCC 33277)								19454014	B2RJG7
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	Porphyromonas gingivalis (strain ATCC 33277)								19454014	B2RLV6
	Porphyromonas gingivalis (strain ATCC 33277)								19454014	B2RLV8
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	Porphyromonas gingivalis (strain ATCC 33277)								19454014	B2RLX1
	Porphyromonas gingivalis (strain ATCC 33277)								19454014	B2RLX3
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	Porphyromonas gingivalis (strain ATCC 33277)								19454014	B2RLZ4

	Porphyromonas gingivalis (strain ATCC 33277)								19454014	B2RLZ8
	Porphyromonas gingivalis (strain ATCC 33277)								19454014	B2RM02
	Porphyromonas gingivalis (strain ATCC 33277)								19454014	B2RM06
	Porphyromonas gingivalis (strain ATCC 33277)								19454014	B2RM08
	Porphyromonas gingivalis (strain ATCC 33277)								19454014	B2RM12
	Porphyromonas gingivalis (strain ATCC 33277)								19454014	B2RM15
	Porphyromonas gingivalis (strain ATCC 33277)								19454014	B2RM19
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	Porphyromonas gingivalis (strain ATCC 33277)								23134611	B2RIQ3
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	Porphyromonas gingivalis (W83)								17979175	Q7MV84
	Porphyromonas gingivalis (W83)								17979175	Q7MV83
	Porphyromonas gingivalis (W83)								17979175	Q7MV82
	Porphyromonas gingivalis (W83)								17979175	Q7MV69
	Porphyromonas gingivalis (W83)								17979175	Q7MV48
	Porphyromonas gingivalis (W83)								17979175	Q7MV46
	Porphyromonas gingivalis (W83)								17979175	Q7MV45
	Porphyromonas gingivalis (W83)								17979175	Q7MV39
	Porphyromonas gingivalis (W83)								17979175	Q7MUV2
	Porphyromonas gingivalis (W83)								17979175	Q7MUU7
	Porphyromonas gingivalis (W83)								17979175	Q7MUU1
	Porphyromonas gingivalis (W83)								17979175	Q7MUT0
	Porphyromonas gingivalis (W83)								17979175	Q7M7A6
	Porphyromonas gingivalis (W83)								17979175	Q7BW91
	Porphyromonas gingivalis (W83)								17979175	Q7M7B7
	Porphyromonas gingivalis (W83)								17979175	Q7M7D7
	Porphyromonas gingivalis (W83)								17979175	Q7M7H2
	Porphyromonas gingivalis (W83)								17979175	Q7MUN2
	Porphyromonas gingivalis (W83)								17979175	Q7MUN1
	Porphyromonas gingivalis (W83)								17979175	Q7MUN0
	Porphyromonas gingivalis (W83)								17979175	Q7MUM8
	Porphyromonas gingivalis (W83)								17979175	Q7MUM6
	Porphyromonas gingivalis (W83)								17979175	Q7MUM2
	Porphyromonas gingivalis (W83)								17979175	Q7MUL1
	Porphyromonas gingivalis (W83)								17979175	Q7MUL0
	Porphyromonas gingivalis (W83)								17979175	Q7MUK9
	Porphyromonas gingivalis (W83)								17979175	Q7MUK4
	Porphyromonas gingivalis (W83)								17979175	Q7MUJ0
	Porphyromonas gingivalis (W83)								17979175	Q7MUI6
	Porphyromonas gingivalis (W83)								17979175	Q7MUI2
	Porphyromonas gingivalis (W83)								17979175	Q7MUI1
	Porphyromonas gingivalis (W83)								17979175	Q7MUG5
	Porphyromonas gingivalis (W83)								17979175	Q7MUF3
	Porphyromonas gingivalis (W83)								17979175	Q7MUB4
	Porphyromonas gingivalis (W83)								17979175	Q7MUB3
	Porphyromonas gingivalis (W83)								17979175	Q7MU99
	Porphyromonas gingivalis (W83)								17979175	Q7MU90
	Porphyromonas gingivalis (W83)								17979175	Q7BWB8
	Porphyromonas gingivalis (W83)								17979175	Q7MU76
	Porphyromonas gingivalis (W83)								17979175	Q7MU67

	Porphyromonas gingivalis (W83)								17979175	Q7MU55
	Porphyromonas gingivalis (W83)								17979175	Q7MU34
	Porphyromonas gingivalis (W83)								17979175	Q7MU32
	Porphyromonas gingivalis (W83)								17979175	Q7MU31
	Porphyromonas gingivalis (W83)								17979175	Q7MTY6
	Porphyromonas gingivalis (W83)								17979175	Q7MTY5
	Porphyromonas gingivalis (W83)								17979175	Q7MTX0
	Porphyromonas gingivalis (W83)								17979175	Q7MTW3
	Porphyromonas gingivalis (W83)								17979175	Q7MTW1
	Porphyromonas gingivalis (W83)								17979175	Q7MTT2
	Porphyromonas gingivalis (W83)								17979175	Q7MTR9
	Porphyromonas gingivalis (W83)								17979175	Q7MTQ9
	Porphyromonas gingivalis (W83)								17979175	Q7MTQ6
	Porphyromonas gingivalis (W83)								17979175	Q7MTN6
	Porphyromonas gingivalis (W83)								17979175	Q7MTK8
	Porphyromonas gingivalis (W83)								15619293	PG0010
	Porphyromonas gingivalis (W83)								15619293	PG0317
	Porphyromonas gingivalis (W83)								15619293	PG0450
	Porphyromonas gingivalis (W83)								15619293	PG0418
1553	Porphyromonas gingivalis F0568	BACTERIAL	1227269	Oral	Mouth	Oral	Mouth		pgingivalis links'!A1	
1554	Porphyromonas gingivalis F0569	BACTERIAL	1227270	Oral	Mouth	Oral	Mouth		na	
1555	Porphyromonas gingivalis F0570	BACTERIAL	1227271	Oral	Mouth	Oral	Mouth		na	
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			11903053	B2RLK2
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			11903053	P72194
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			11903053	P72197
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			11903053	Q51817
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			11903053	F5XB86
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			11903053	Q6Q4T4
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			11903053	P96966
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			11903053	Q7MWI4
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			11903053	Q9ZA59
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			11903053	B2RKU0
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			11903053	F5XBD8
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			11903053	P95493
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			11903053	P95493
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			11903053	Q9ZA60
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1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			11903053	Q9ZA61
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			11903053	Q9XBV1
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			11903053	Q9RMI6
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			11903053	Q7MX28
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			11903053	Q7MVD0
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			11903053	B2RK63
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			11903053	Q7MWI3
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			11903053	Q7MWH5
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			11903053	Q7MVT0
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			11903053	Q7MV55
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			11903053	Q9RQJ2
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			11903053	Q7MUQ3
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			11903053	Q7MUG1
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			11903053	Q7MUF6
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			11903053	Q7MUE7
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			11903053	Q7MUD7
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			11903053	Q7MU20
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1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			11903053	P95493
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			11903053	Q9ZA58

1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			11903053	Q9ZA59
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1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			11903053	Q9ZA61
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1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			11903053	Q7MWI4
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			11903053	Q7MWI3
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			11903053	Q7M7B5
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1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			11903053	Q7MUF6
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			11903053	Q7MUD7
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			11903053	Q7MUG1
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			11903053	Q7MUQ3
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			11903053	Q7MTQ3
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			11903053	Q9RQJ2
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			11903053	Q7MUE7
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			11903053	Q7MVT0
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			11903053	Q7MVD0
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			11903053	Q7MX28
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	B2RM93
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	F5X838
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	P28784
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	B2RLK7
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	Q51845
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	F5X7E6
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	P59915
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	F5H9F8
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	F5X7I1
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	Q9XCA2
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	Q7MXX1
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	P49008
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	P0C935
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	Q7MXL5
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	Q7MXK8
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	Q7MXK2
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	Q7MXK0
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	Q7MXJ7
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	Q9ZA59
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	Q4KTS2
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	Q4KTS5
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	Q4KTS8
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	Q7MXJ6
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	Q7MXJ3
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	Q7MXH1
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	Q7MXH0
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	F5HE64
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	Q7MXF4
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	Q7MXF1
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	Q7MXE8
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	Q7MXC7
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	Q7MXB8
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	Q7MXB3
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	Q7MXA3
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	Q7MX64
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	Q6LKB3

1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	Q7MX55
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	Q7MX45
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	Q7MX43
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	Q9R420
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	Q7MX30
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	Q7MX29
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	Q7MX28
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	Q7MX17
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	Q7MX05
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	Q7MWY8
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	Q7MWY1
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	Q7MWY0
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	Q7MWX7
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	Q7MWX0
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1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	Q7MWQ8
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1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	Q7MWP7
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	Q7MWL5
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	Q7MWK8
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	Q7MWJ7
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	Q7MWJ6
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	Q7MWJ4
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	F5HE36
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1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	Q9S3R8
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	Q9S3R9
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	F5HHM2
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	Q7MWC1
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	Q7MW63
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	Q7MVX0
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	Q7MVW5
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	Q7MVQ9
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	Q7MVP2
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1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	Q7MV13
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	Q7MUY3
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1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	Q7MUU8
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	Q7MUS3
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	Q9RQJ2
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	Q7MUR3
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	Q7MUL5
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	F5HFY5
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	Q7MUC3
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	Q7MUC2
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	Q7MUB9
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	Q7MUB7
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	Q7MUB6
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	Q7MUB0
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	Q7MUA6
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	Q7MU92

1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	Q7MU71
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1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	Q7MU49
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1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	Q7MTZ1
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	F5H9F8
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	Q9XCA2
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	Q7MTX6
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1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	Q7MTV0
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	P59915
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	Q7MTR3
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	Q7MTQ7
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	Q7MTP7
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	Q7MTP0
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	Q7MTN4
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	Q7MTM9
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	Q7MTM5
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	Q7MTL9
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	Q7MTL3
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	F5HFX8
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	Q7MTE2
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	Q7MTC1
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	Q7MTC0
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1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	7MT96
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	Q7MT75
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	Q7MT61
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	P59914
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	Q7MT37
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	F5H9B8
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	Q7MT28
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	F5HAH6
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	Q7MT24
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1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			18409167	Q7MSZ4
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1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			19028886	Q9XBW2
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			19028886	Q7MXP5
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			19028886	Q4KTS2
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1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			19028886	Q7MXC5
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			19028886	Q7MXB4
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			19028886	Q7MX95
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1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			19028886	Q7MWJ2
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			19028886	Q7MWF4
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			19028886	Q7MWC2
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			19028886	Q7MWB6
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			19028886	Q7MVY2

1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			19028886	Q7MVN2
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			19028886	Q7MVL8
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			19028886	F5HF80
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1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			19028886	Q7MVK0
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			19028886	Q7MVF1
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			19028886	Q7MV76
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1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			19028886	Q7MUR0
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1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			19028886	Q7MUG1
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1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			19028886	Q7MUC0
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			19028886	Q7MUB8
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1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			19028886	Q7MTU4
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			19028886	Q6LH92
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			19028886	Q7MTR5
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1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			19028886	Q7MTJ6
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			19028886	Q7MTJ5
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1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			19028886	Q7MTG0
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1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			19028886	Q7MT79
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1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			19028886	Q9S3R0
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			19028886	P59914
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			19028886	Q7M7C8
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			19028886	F5HFB1
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			19028886	Q9X6S0
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			19028886	Q7MXX2
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			19028886	Q7MXW0
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1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			19028886	Q7MAX0
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1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			19028886	Q7MXP1
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1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			19028886	Q7MWZ8
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1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			19028886	Q7MWX7
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1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			19028886	Q7MWQ8
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1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			19028886	Q7MWJ4
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			19028886	Q7MWI7
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			19028886	Q7MWE6
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			19028886	Q7MWD5
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1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			19028886	Q7MWD1
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1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			19028886	Q9S3R9
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1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			19028886	Q7M7C8
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			19028886	Q7MVY1
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1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			19028886	Q7MVV0
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1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			19028886	Q7MUZ8
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1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			19028886	P60053

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1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			19028886	Q7MTW5
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1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			19028886	Q7MTH4
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			19028886	Q7MTE2
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1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			19028886	Q7MAV3
1322	Porphyromonas gingivalis W50	BACTERIAL	1125722	Oral		Oral			19028886	Q7MT37
1556	Porphyromonas sp. oral taxon 278 W7784	BACTERIAL	1227272	Oral	Mouth	Oral	Mouth		n.a.	
9133	Porphyromonas sp. oral taxon 279 F0450	BACTERIAL	836	Oral		Oral		HOMD: tax_279	Pginigivalis F0450'!A1	
1323	Porphyromonas sp. oral taxon 279 str. F0450	BACTERIAL	1125723	Oral		Oral			n.a.	
1323	Porphyromonas sp. oral taxon 279 str. F0450	BACTERIAL	1125723	Oral		Oral			n.a.	
9135	Prevotella baroniae F0067	BACTERIAL	1115809	Oral		Oral		HOMD: tax_553	n.a.	
6485	Prevotella buccae ATCC 33574	BACTERIAL	873513	Oral	Gingival	Oral	Gingival	HOMD: tax_560	n.a.	
649	Prevotella buccae D17	BACTERIAL	575611	Oral	Gum margin	Oral	Gum margin	HOMD: tax_560	n.a.	
9136	Prevotella dentalis DSM 3688	BACTERIAL	908937	Oral		Oral		HOMD: tax_583	n.a.	
0	Prevotella dentalis DSM 3688	BACTERIAL	908937	Oral	Teeth	Oral			n.a.	
9137	Prevotella denticola F0289	BACTERIAL	28129	Oral		Oral		HOMD: tax_291	15580127	
9138	Prevotella histicola F0411	BACTERIAL	857291	Oral		Oral		HOMD: tax_298	n.a.	
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		17051640	tem 1 proteina
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		17177252	I1YWG3
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0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		17177252	I1YVB3
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		17177252	I1YTQ5
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		17177252	I1YR19
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		17177252	I1YWG7
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		17177252	I1YUR2
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		17177252	I1YUS7
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		17177252	I1YSS0
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		17177252	I1YSV2
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		17177252	I1YWK8
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		17177252	I1YVP3
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		17177252	I1YWM2
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		17177252	I1YW21
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		17177252	I1YSF6
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		17177252	I1YS63
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		17177252	E1KME9
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		17177252	I1YSV2
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		17177252	I1YSS0
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		17177252	E1KME9
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		17177252	I1YW50
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		17177252	I1YWF7
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		22193554	I1YWE7
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		22193554	I1YSU4
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		22193554	I1YWW7
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		22193554	I1YWX4
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		22193554	I1YTE1

0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		22193554	I1YV83
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		22193554	I1YVH8
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		22193554	I1YRU4
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		22193554	I1YWB7
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		22193554	I1YUH2
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		22193554	I1YVP5
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		22193554	I1YU80
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		22193554	I1YU05
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		22193554	I1YWA6
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		22193554	I1YVS1
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		22193554	I1YWG3
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		22193554	I1YUS7
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		22193554	I1YVT7
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		22193554	I1YU53
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		22193554	I1YVH5
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		22193554	I1YU08
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		22193554	I1YS71
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		22193554	I1YR71
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		22193554	I1YSU9
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		22193554	I1YUU1
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		22193554	I1YV84
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		22193554	I1YW93
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		22193554	I1YVF6
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		22193554	I1YQS3
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		22193554	I1YX33
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		22193554	I1YSY6
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		22193554	I1YSR5
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		22193554	I1YTA3
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		22193554	I1YTK3
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		22193554	I1YUZ7
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		22193554	I1YVI8
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		22193554	I1YUL1
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		22193554	I1YTV6
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		22193554	I1YX25
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		22193554	I1YST6
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		22193554	I1YWS0
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		22193554	I1YVE7
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		22193554	I1YUQ5
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		22193554	I1YQT7
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		22193554	I1YSP8
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		22193554	I1YUI2
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		22193554	I1YTY7
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		22193554	I1YQT2
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		22193554	I1YWF7
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		22193554	I1YSH8
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		22193554	I1YVB3
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		22193554	I1YQU6
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		22193554	I1YWS5
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		22193554	I1YWZ8
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		22193554	I1YU81
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		22193554	I1YS84
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		22193554	I1YUM2
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		22193554	I1YW97
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		22193554	I1YVB1
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		22193554	I1YUP2
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		22193554	I1YU34
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		22193554	I1YQS2

0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		22193554	I1YSR6
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		22193554	I1YTJ5
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		22193554	I1YWF1
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		22193554	I1YU41
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		22193554	I1YRT6
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		22193554	I1YTW5
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		22193554	I1YVM9
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		22193554	I1YWX0
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		22193554	I1YTP9
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		22193554	I1YT77
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		22193554	I1YT19
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		22193554	I1YQS7
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		22193554	I1YT82
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		22193554	I1YX53
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		22193554	I1YQS7
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		22193554	I1YVP8
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		22193554	I1YS52
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		22193554	I1YV97
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		22193554	I1YT19
0	Prevotella intermedia 17	BACTERIAL	246198	Oral	Periodontal	Oral	Periodontal		22193554	I1YTX7
9139	Prevotella maculosa. F0099	BACTERIAL	439703	Oral		Oral		HOMD: tax_289	n.a.	
658	Prevotella marshii DSM 16973	BACTERIAL	862515	Oral		Oral		HOMD: tax_665	n.a.	
659	Prevotella melaninogenica ATCC 25845	BACTERIAL	553174	Oral		Oral		HOMD: tax_469	n.a.	
660	Prevotella melaninogenica D18	BACTERIAL	575612	Oral	Gum margin	Oral	Gum margin	HOMD: tax_469	n.a.	
9140	Prevotella micans F0438	BACTERIAL	883158	Oral		Oral		HOMD: tax_378	n.a.	
9141	Prevotella multiformis DSM 16608	BACTERIAL	888743	Oral		Oral		HOMD: tax_685	n.a.	
0	Prevotella multisaccharivorax DSM 17128	BACTERIAL	688246	Oral		Oral			n.a.	
9419	Prevotella nigrescens ATCC 33563	BACTERIAL	997352	Oral		Oral		HOMD: tax_693	n.a.	
662	Prevotella nigrescens F0103	BACTERIAL	702439	Oral		Oral		HOMD: tax_693	n.a.	
971	Prevotella oris F0302	BACTERIAL	649760	Oral		Oral		HOMD: tax_311	n.a.	
9143	Prevotella oulora F0022	BACTERIAL	28136	Oral		Oral		HOMD: tax_288	n.a.	
9431	Prevotella oulorum F0390	BACTERIAL	702438	Oral		Oral		HOMD: tax_288	n.a.	
9144	Prevotella pallens ATCC 700821	BACTERIAL	997353	Oral		Oral		HOMD: tax_714	n.a.	
1218	Prevotella pleuritidis F0068	BACTERIAL	1081904	Oral		Oral			n.a.	
9151	Prevotella saccharolytica F0055	BACTERIAL	1127699	Oral	Subgingival	Oral	Dental plaque		n.a.	
9145	Prevotella salivae F0493	BACTERIAL	228604	Oral		Oral		HOMD: tax_307	n.a.	
9147	Prevotella sp. 15T29AP	BACTERIAL	59823	Oral		Oral		HOMD: tax_306	n.a.	
9152	Prevotella sp. F0012	BACTERIAL	59823	Oral		Oral		HOMD: tax_782	n.a.	
9149	Prevotella sp. F0043	BACTERIAL	59823	Oral		Oral		HOMD: tax_376	n.a.	
9150	Prevotella sp. F0059	BACTERIAL	59823	Oral		Oral		HOMD: tax_475	n.a.	
9146	Prevotella sp. F0068	BACTERIAL	59823	Oral		Oral		HOMD: tax_303	n.a.	
9148	Prevotella sp. F0091	BACTERIAL	1227276	Oral	Subgingival	Oral	Subgingival	HOMD: tax_314	n.a.	
656	Prevotella sp. Genogroup 4, UP2050-3	BACTERIAL	59823	Oral		Oral			n.a.	
1505	Prevotella sp. ICM33	BACTERIAL	1161412	Oral		Oral			n.a.	
1507	Prevotella sp. ICM55	BACTERIAL	936571	Oral		Oral			n.a.	
1146	Prevotella sp. MSX73	BACTERIAL	1032506	Oral		Oral			n.a.	
669	Prevotella sp. oral taxon 299 str. F0039	BACTERIAL	575614	Oral		Oral		HOMD: tax_299	n.a.	
9332	Prevotella sp. oral taxon 302 str. F0323	BACTERIAL	679199	Oral		Oral		HOMD: tax_302	n.a.	
9969	Prevotella sp. oral taxon 306 str. F0472	BACTERIAL	1095752	Oral		Oral			n.a.	
670	Prevotella sp. oral taxon 317 str. F0108	BACTERIAL	575615	Oral		Oral		HOMD: tax_317	n.a.	
6745	Prevotella sp. oral taxon 472 str. F0295	BACTERIAL	619693	Oral		Oral		HOMD: tax_472	n.a.	
1530	Prevotella sp. oral taxon 475 str. F0059	BACTERIAL	1203604	Oral		Oral			n.a.	
674	Prevotella tannerae ATCC 51259	BACTERIAL	626522	Oral	Gingival	Oral	Gingival	HOMD: tax_466	n.a.	
973	Prevotella veroralis F0319	BACTERIAL	649761	Oral	Gingival	Oral	Gingival	HOMD: tax_572	n.a.	
9153	Propionibacterium avidum ATCC 25577	BACTERIAL	997355	Oral		Oral		HOMD: tax_552	n.a.	
9154	Propionibacterium propionicum F0230a	BACTERIAL	767029	Oral		Oral		HOMD: tax_739	n.a.	
9949	Propionibacterium sp. CC003-HC2	BACTERIAL	1747	Oral		Oral			n.a.	

9155	Propionibacterium sp. MetC3	BACTERIAL	1743	Oral		Oral		HOMD: tax_193	n.a.	
1531	Propionibacterium sp. oral taxon 192 str. F0372	BACTERIAL	1203605	Oral		Oral			n.a.	
721	Pseudoramibacter alactolyticus ATCC 23263	BACTERIAL	887929	Oral		Oral		HOMD: tax_538	n.a.	
9157	Rhodocyclus sp. A08KA	BACTERIAL	77788	Oral		Oral		HOMD: tax_28	16673937	
9157	Rhodocyclus sp. A08KA	BACTERIAL	77788	Oral		Oral		HOMD: tax_28	19199051	
9157	Rhodocyclus sp. A08KA	BACTERIAL	77788	Oral		Oral		HOMD: tax_28	20013799	
9157	Rhodocyclus sp. A08KA	BACTERIAL	77788	Oral		Oral		HOMD: tax_28	22276194	
1324	Rothia aeria F0474	BACTERIAL	1125724	Oral		Oral			n.a.	
733	Rothia dentocariosa ATCC 17931	BACTERIAL	762948	Oral	Teeth	Oral	Teeth	HOMD: tax_587	n.a.	
742	Rothia sp. oral taxon 188 str. F0184	BACTERIAL	888019	Oral		Oral			n.a.	
	Salmonella enterica								16026608	Q8XGX4
	Salmonella enterica								16026608	Q8ZL72
	Salmonella enterica								16026608	Q8XGY3
	Salmonella enterica								16026608	Q8XG17
	Salmonella enterica								16026608	Q8XFG7
	Salmonella enterica								16026608	Q8Z556
	Salmonella enterica								16026608	Q815T0
	Salmonella enterica								16026608	Q8Z680
	Salmonella enterica								16026608	Q8XFE6
	Salmonella enterica								16026608	Q8ZL72
	Salmonella enterica								16026608	Q8ZRJ5
	Salmonella enterica								16026608	Q8XFR3
	Salmonella enterica								16026608	Q9KWV1
	Salmonella enterica								16026608	Q8Z3E9
	Salmonella enterica								16026608	Q8XET5
	Salmonella enterica								16026608	Q8XGE8
	Salmonella enterica								16026608	Q8XET5
	Salmonella enterica								16026608	Q93RR7
	Salmonella enterica								16026608	Q8ZLD7
	Salmonella enterica								16026608	Q9X445
	Salmonella enterica								16026608	Q7AMH5
	Salmonella enterica								16026608	Q8Z7D2
	Salmonella enterica								16026608	Q8Z6J0
	Salmonella enterica								16026608	Q9L435
	Salmonella enterica								16026608	Q8Z299
	Salmonella enterica								16026608	Q8Z9E8
	Salmonella enterica								16026608	Q8ZJZ3
	Salmonella enterica								16026608	Q8Z6R6
	Salmonella enterica								16026608	Q8Z6H1
	Salmonella enterica								16026608	Q8Z780
	Salmonella enterica								16026608	Q874S9
	Salmonella enterica								16026608	Q8XFP6
	Salmonella enterica								16026608	Q8Z1R0
	Salmonella enterica								16026608	Q8XFP6
	Salmonella enterica								16026608	Q8ZL72
	Salmonella enterica								16026608	Q8Z5xI
	Salmonella enterica								16026608	Q8Z299
	Salmonella enterica								16026608	Q8Z3I0
	Salmonella enterica								16026608	Q8Z8h1
	Salmonella enterica								16026608	Q8XEY9
	Salmonella enterica								16026608	Q8XFP7
	Salmonella enterica								16026608	Q8X7H3
	Salmonella enterica								16026608	Q8Z3Q5
	Salmonella enterica								16026608	Q828C5
	Salmonella enterica								16026608	Q9Z622
	Salmonella enterica								16026608	Q9XCS2
	Salmonella enterica								16026608	Q8YSX3

	Salmonella enterica								16026608	Q8XF78
	Salmonella enterica								16026608	Q8XGD9
	Salmonella enterica								16026608	Q8XF78
	Salmonella enterica								16026608	Q8ZNW0
	Salmonella enterica								16026608	Q8XEL2
	Salmonella enterica								16026608	Q8XFG8
	Salmonella enterica								16026608	Q8ZPC9
	Salmonella enterica								16026608	P67093
	Salmonella enterica								16026608	Q89Q97
	Salmonella enterica								16026608	Q8ZPW2
	Salmonella enterica								16026608	Q8XFL5
	Salmonella enterica								16026608	Q8ZPF0
	Salmonella enterica								16026608	Q8Z747
	Salmonella enterica								16026608	Q8Z9E8
	Salmonella enterica								16026608	Q8ZJZ3
	Salmonella enterica								16026608	Q8ZPU9
	Salmonella enterica								16026608	Q8ZLD4
	Salmonella enterica								16026608	Q8Z691
	Salmonella enterica								16026608	Q8ZPA8
	Salmonella enterica								16026608	Q8Z7J4
	Salmonella enterica								16026608	Q8XG95
	Salmonella enterica								16026608	Q8XF58
	Salmonella enterica								16026608	Q8Z6G1
	Salmonella enterica								16026608	Q8Z9R6
	Salmonella enterica								16026608	Q8ZP84
	Salmonella enterica								16026608	Q8ZA36
	Salmonella enterica								16026608	Q8XEV3
	Salmonella enterica								16026608	Q8Z831
	Salmonella enterica								16026608	Q8ZNM8
	Salmonella enterica								16026608	Q8XFE6
	Salmonella enterica								16026608	Q8Z3V6
	Salmonella enterica								16026608	Q8ZKF6
	Salmonella enterica								16026608	Q8Z501
	Salmonella enterica								16026608	Q8ZPB1
	Salmonella enterica								16026608	Q8Z747
	Salmonella enterica								16026608	Q8Z691
	Salmonella enterica								16026608	Q8XG70
	Salmonella enterica								16026608	Q8Z3L9
	Salmonella enterica								16026608	Q9ZNM2
	Salmonella enterica								16026608	Q8XGU5
	Salmonella enterica								16026608	Q8Z125
	Salmonella enterica								16026608	Q8Z3E6
	Salmonella enterica								16026608	Q9XCS2
	Salmonella enterica								16026608	Q8ZL72
	Salmonella enterica								16026608	Q8ZMM2
	Salmonella enterica								16026608	Q8ZPZ6
	Salmonella enterica								16026608	P74886
	Salmonella enterica								16026608	P74886
	Salmonella enterica								16026608	P74886
	Salmonella enterica								16026608	AB0558
	Salmonella enterica								16026608	G8XG23
	Salmonella enterica								16026608	O30817
	Salmonella enterica								16026608	O52765
	Salmonella enterica								16026608	O68883
	Salmonella enterica								16026608	P00934
	Salmonella enterica								16026608	P02906
	Salmonella enterica								16026608	P02910

	Salmonella enterica								16026608	P02911
	Salmonella enterica								16026608	P06179
	Salmonella enterica								16026608	P06196
	Salmonella enterica								16026608	P06202
	Salmonella enterica								16026608	P09373
	Salmonella enterica								16026608	P0A1D3
	Salmonella enterica								16026608	P0A1D5
	Salmonella enterica								16026608	P0A1D7
	Salmonella enterica								16026608	P0A1E3
	Salmonella enterica								16026608	P0A1F6
	Salmonella enterica								16026608	P0A1G5
	Salmonella enterica								16026608	P0A1H3
	Salmonella enterica								16026608	P0A1H5
	Salmonella enterica								16026608	P0A1P6
	Salmonella enterica								16026608	P0A1S2
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	Salmonella enterica								21176126	Q8ZPY3
	Salmonella enterica								21176126	P64076
	Salmonella enterica								21176126	Q8ZPZ0

	Salmonella enterica								21176126	Q7CQT9
	Salmonella enterica								21176126	P43019
	Salmonella enterica								21176126	P0A2D1
	Salmonella enterica								21176126	Q8XG72
	Salmonella enterica								21176126	P37430
	Salmonella enterica								21176126	Q9FA46
	Salmonella enterica								21176126	Q8ZRU0
	Salmonella enterica								21176126	P0A2F4
	Salmonella enterica								21176126	P0CL47
	Salmonella enterica								21176126	Q8ZPL1
	Salmonella enterica								21176126	P66738
	Salmonella enterica								21176126	P41031
	Salmonella enterica								21176126	Q8ZPD6
	Salmonella enterica								21176126	P16657
	Salmonella enterica								21176126	Q8ZRP4
	Salmonella enterica								21176126	P0A1C3
	Salmonella enterica								21176126	Q7CR62
	Salmonella enterica								21176126	P58480
	Salmonella enterica								21176126	P50335
	Salmonella enterica								21176126	P0A1H3
	Salmonella enterica								21176126	P0A1D3
	Salmonella enterica								21176126	O33921
	Salmonella enterica								21176126	Q7CP68
	Salmonella enterica								21176126	P0A2H9
	Salmonella enterica								21176126	Q7CP68
	Salmonella enterica								21176126	Q7CR42
	Salmonella enterica								21176126	Q8ZRC9
	Salmonella enterica								21176126	O68901
	Salmonella enterica								21176126	P43019
	Salmonella enterica								21176126	P58683
	Salmonella enterica								21176126	Q8ZKP7
	Salmonella enterica								21176126	P0A1V4
	Salmonella enterica								21176126	P14146
	Salmonella enterica								21176126	P02911
	Salmonella enterica								21176126	P66869
	Salmonella enterica								21176126	P0A7Z7
	Salmonella enterica								21176126	P51066
	Salmonella enterica								21176126	Q8ZRT2
	Salmonella enterica								21176126	Q7CQX4
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	Salmonella enterica								21176126	H9L442
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	Salmonella enterica								21176126	P37592
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	Salmonella enterica								21176126	Q8ZKB4
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	Salmonella enterica								21176126	P43019
	Salmonella enterica								21176126	Q8ZNW4
	Salmonella enterica								21176126	Q8ZPM7
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	Salmonella enterica								21176126	P0A251
	Salmonella enterica								21176126	P66692
	Salmonella enterica								21176126	P64036
	Salmonella enterica								21176126	P0A2M5
	Salmonella enterica								21176126	P15888
	Salmonella enterica								21176126	P36936
	Salmonella enterica								21176126	Q8ZP60
	Salmonella enterica								21176126	P67270
	Salmonella enterica								21176126	Q7CQF9
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	Salmonella enterica								21176126	Q8ZQR4
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	Salmonella enterica								21176126	Q8ZPU5
	Salmonella enterica								21176126	P0A1G5
	Salmonella enterica								21176126	Q8ZP65
	Salmonella enterica								21176126	Q8XFG8
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	Salmonella enterica								21176126	P06204
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	Salmonella enterica								21176126	P65702
	Salmonella enterica								21176126	Q8ZQS1
	Salmonella enterica								21176126	P67038
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	Salmonella enterica								21176126	Q8ZLT3
	Salmonella enterica								21176126	P0A1H3
	Salmonella enterica								21176126	Q8ZRS8
	Salmonella enterica								21176126	Q8ZRT1
	Salmonella enterica								21176126	P32200
	Salmonella enterica								21176126	Q7CPE5
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	Salmonella enterica								21176126	Q7CQW6
	Salmonella enterica								21176126	Q8ZLK4
	Salmonella enterica								21176126	Q8ZRS0
	Salmonella enterica								21176126	Q7CQG1
	Salmonella enterica								21176126	Q8ZM06
	Salmonella enterica								21176126	Q8ZPK2
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	Salmonella enterica								21176126	Q8ZQX7
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	Salmonella enterica								21176126	P0A1P0
	Salmonella enterica								21176126	Q8ZP20
	Salmonella enterica								21176126	P06196
	Salmonella enterica								21176126	Q8ZQX8
	Salmonella enterica								21176126	P65889
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	Salmonella enterica								21176126	P60817
	Salmonella enterica								21176126	Q7CQI9
	Salmonella enterica								21176126	P02910
	Salmonella enterica								22900174	P0A1H9
	Salmonella enterica								22900174	P63263
	Salmonella enterica								22900174	P10368
	Salmonella enterica								22900174	Q8ZMX7
	Salmonella enterica								22900174	Q7CQV9
0	Salmonella enterica subsp. enterica serovar Newport str.	BACTERIAL	585201	Oral		Oral			n.a.	
9020	Scardovia inopinata F0304	BACTERIAL	641146	Oral		Oral		HOMD: tax_642	n.a.	
966	Scardovia inopinata JCM 12537	BACTERIAL	78259	Oral		Oral		HOMD: tax_642	n.a.	
9156	Scardovia wiggsiae F0424	BACTERIAL	857290	Oral		Oral		HOMD: tax_195	n.a.	

9158	Selenomonas artemidis 40T16BP	BACTERIAL	970	Oral		Oral		HOMD: tax_124	n.a.	
9159	Selenomonas artemidis 66H28BA	BACTERIAL	970	Oral		Oral		HOMD: tax_136	n.a.	
9555	Selenomonas artemidis F0399	BACTERIAL	749551	Oral		Oral		HOMD: tax_136	n.a.	
9160	Selenomonas dianae 15T29BP	BACTERIAL	135079	Oral		Oral		HOMD: tax_139	n.a.	
7543	Selenomonas flueggei ATCC 43531	BACTERIAL	638302	Oral		Oral		HOMD: tax_125	n.a.	
9334	Selenomonas infelix ATCC 43532	BACTERIAL	679201	Oral	Subgingival	Oral	Subgingival	HOMD: tax_639	n.a.	
7545	Selenomonas noxia ATCC 43541	BACTERIAL	585503	Oral		Oral		HOMD: tax_130	n.a.	
9432	Selenomonas noxia F0398	BACTERIAL	702437	Oral	Gingival	Oral	Gingival	HOMD: tax_130	n.a.	
9168	Selenomonas sp. 11H28BP	BACTERIAL	970	Oral		Oral		HOMD: tax_481	n.a.	
9167	Selenomonas sp. 25H6BP	BACTERIAL	970	Oral		Oral		HOMD: tax_479	n.a.	
9164	Selenomonas sp. 66T2BP	BACTERIAL	970	Oral		Oral		HOMD: tax_140	n.a.	
9165	Selenomonas sp. 73H20BP	BACTERIAL	970	Oral		Oral		HOMD: tax_146	n.a.	
1153	Selenomonas sp. CM52	BACTERIAL	936381	Oral		Oral			n.a.	
9161	Selenomonas sp. F0473	BACTERIAL	999423	Oral		Oral		HOMD: tax_133	n.a.	
1148	Selenomonas sp. FOBRC6	BACTERIAL	936572	Oral		Oral			n.a.	
1147	Selenomonas sp. FOBRC9	BACTERIAL	936573	Oral		Oral			n.a.	
9162	Selenomonas sp. oral taxon 137 str. F0430	BACTERIAL	879310	Oral		Oral		HOMD: tax_137	n.a.	
9163	Selenomonas sp. oral taxon 138 str. F0429	BACTERIAL	1127695	Oral	Dental plaque	Oral	Dental plaque	HOMD: tax_138	n.a.	
9166	Selenomonas sp. oral taxon 149 str. 67H29BP	BACTERIAL	864563	Oral		Oral		HOMD: tax_149	n.a.	
755	Selenomonas sputigena ATCC 35185	BACTERIAL	546271	Oral	Gingival	Oral	Gingival	HOMD: tax_151	n.a.	
761	Shuttleworthia satelles DSM 14600	BACTERIAL	626523	Oral	Periodontal	Oral	Periodontal	HOMD: tax_95	n.a.	
1508	Shuttleworthia sp. MSX8B	BACTERIAL	936574	Oral		Oral			n.a.	
9021	Simonsiella muelleri ATCC 29453	BACTERIAL	641147	Oral		Oral		HOMD: tax_683	n.a.	
762	Slackia exigua ATCC 700122	BACTERIAL	649764	Oral		Oral		HOMD: tax_602	17064396	D0WFM6
762	Slackia exigua ATCC 700122	BACTERIAL	649764	Oral		Oral		HOMD: tax_602	17064396	D0WFM9
762	Slackia exigua ATCC 700122	BACTERIAL	649764	Oral		Oral		HOMD: tax_602	17064396	D0WHW6
762	Slackia exigua ATCC 700122	BACTERIAL	649764	Oral		Oral		HOMD: tax_602	17064396	D0WGZ0
762	Slackia exigua ATCC 700122	BACTERIAL	649764	Oral		Oral		HOMD: tax_602	17064396	D0WGT0
762	Slackia exigua ATCC 700122	BACTERIAL	649764	Oral		Oral		HOMD: tax_602	17064396	D0WJN4
762	Slackia exigua ATCC 700122	BACTERIAL	649764	Oral		Oral		HOMD: tax_602	17064396	D0WE16
762	Slackia exigua ATCC 700122	BACTERIAL	649764	Oral		Oral		HOMD: tax_602	17064396	D0WGT2
762	Slackia exigua ATCC 700122	BACTERIAL	649764	Oral		Oral		HOMD: tax_602	17064396	D0WJN3
1155	Slackia sp. CM382	BACTERIAL	1111137	Oral		Oral			Slackia!A1	
9169	Solobacterium moorei 303H20BP	BACTERIAL	102148	Oral		Oral		HOMD: tax_678	n.a.	
9430	Solobacterium moorei F0204	BACTERIAL	706433	Oral		Oral		HOMD: tax_678	n.a.	
	Streptococcus agalactiae								2744886	Q3D4N5
	Streptococcus agalactiae								2744886	Q3CY15
	Streptococcus agalactiae serotype III (strain NEM316)								21458589	P0A4J3
	Streptococcus agalactiae serotype III (strain NEM316)								21458589	P63769
	Streptococcus agalactiae serotype III (strain NEM316)								21458589	P65606
	Streptococcus agalactiae serotype III (strain NEM316)								21458589	P66094
	Streptococcus agalactiae serotype III (strain NEM316)								21458589	P66598
	Streptococcus agalactiae serotype III (strain NEM316)								21458589	P66741
	Streptococcus agalactiae serotype III (strain NEM316)								21458589	P66851
	Streptococcus agalactiae serotype III (strain NEM316)								21458589	Q3D3C9
	Streptococcus agalactiae serotype III (strain NEM316)								21458589	Q3DTR7
	Streptococcus agalactiae serotype III (strain NEM316)								21458589	Q3JYE2
	Streptococcus agalactiae serotype III (strain NEM316)								21458589	Q3JYZ8
	Streptococcus agalactiae serotype III (strain NEM316)								21458589	Q3JZL6
	Streptococcus agalactiae serotype III (strain NEM316)								21458589	Q3K0N5
	Streptococcus agalactiae serotype III (strain NEM316)								21458589	Q3K0S1
	Streptococcus agalactiae serotype III (strain NEM316)								21458589	Q3K2K8
	Streptococcus agalactiae serotype III (strain NEM316)								21458589	Q3K3P9
	Streptococcus agalactiae serotype III (strain NEM316)								21458589	Q3K3U8
	Streptococcus agalactiae serotype III (strain NEM316)								21458589	Q3MUG3
	Streptococcus agalactiae serotype III (strain NEM316)								21458589	Q8DWQ5
	Streptococcus agalactiae serotype III (strain NEM316)								21458589	Q8DWX0

	Streptococcus agalactiae serotype III (strain NEM316)								21458589	Q8DXB7
	Streptococcus agalactiae serotype III (strain NEM316)								21458589	Q8DXC0
	Streptococcus agalactiae serotype III (strain NEM316)								21458589	Q8DXC1
	Streptococcus agalactiae serotype III (strain NEM316)								21458589	Q8DXC3
	Streptococcus agalactiae serotype III (strain NEM316)								21458589	Q8DXC8
	Streptococcus agalactiae serotype III (strain NEM316)								21458589	Q8DXD2
	Streptococcus agalactiae serotype III (strain NEM316)								21458589	Q8DXF6
	Streptococcus agalactiae serotype III (strain NEM316)								21458589	Q8DXL7
	Streptococcus agalactiae serotype III (strain NEM316)								21458589	Q8DXS8
	Streptococcus agalactiae serotype III (strain NEM316)								21458589	Q8DXW2
	Streptococcus agalactiae serotype III (strain NEM316)								21458589	Q8DY17
	Streptococcus agalactiae serotype III (strain NEM316)								21458589	Q8DY42
	Streptococcus agalactiae serotype III (strain NEM316)								21458589	Q8DY56
	Streptococcus agalactiae serotype III (strain NEM316)								21458589	Q8DYG8
	Streptococcus agalactiae serotype III (strain NEM316)								21458589	Q8DYK4
	Streptococcus agalactiae serotype III (strain NEM316)								21458589	Q8DYX5
	Streptococcus agalactiae serotype III (strain NEM316)								21458589	Q8DZA9
	Streptococcus agalactiae serotype III (strain NEM316)								21458589	Q8DZD0
	Streptococcus agalactiae serotype III (strain NEM316)								21458589	Q8DZG4
	Streptococcus agalactiae serotype III (strain NEM316)								21458589	Q8DZH0
	Streptococcus agalactiae serotype III (strain NEM316)								21458589	Q8DZH7
	Streptococcus agalactiae serotype III (strain NEM316)								21458589	Q8DZY3
	Streptococcus agalactiae serotype III (strain NEM316)								21458589	Q8E003
	Streptococcus agalactiae serotype III (strain NEM316)								21458589	Q8E057
	Streptococcus agalactiae serotype III (strain NEM316)								21458589	Q8E073
	Streptococcus agalactiae serotype III (strain NEM316)								21458589	Q8E0B1
	Streptococcus agalactiae serotype III (strain NEM316)								21458589	Q8E0G9
	Streptococcus agalactiae serotype III (strain NEM316)								21458589	Q8E0H1
	Streptococcus agalactiae serotype III (strain NEM316)								21458589	Q8E0J2
	Streptococcus agalactiae serotype III (strain NEM316)								21458589	Q8E140
	Streptococcus agalactiae serotype III (strain NEM316)								21458589	Q8E172
	Streptococcus agalactiae serotype III (strain NEM316)								21458589	Q8E178
	Streptococcus agalactiae serotype III (strain NEM316)								21458589	Q8E183
	Streptococcus agalactiae serotype III (strain NEM316)								21458589	Q8E190
	Streptococcus agalactiae serotype III (strain NEM316)								21458589	Q8E1F6
	Streptococcus agalactiae serotype III (strain NEM316)								21458589	Q8E1J3
	Streptococcus agalactiae serotype III (strain NEM316)								21458589	Q8E1K5
	Streptococcus agalactiae serotype III (strain NEM316)								21458589	Q8E1M0
	Streptococcus agalactiae serotype III (strain NEM316)								21458589	Q8E1Q1
	Streptococcus agalactiae serotype III (strain NEM316)								21458589	Q8E1R3
	Streptococcus agalactiae serotype III (strain NEM316)								21458589	Q8E231
	Streptococcus agalactiae serotype III (strain NEM316)								21458589	Q8E244
	Streptococcus agalactiae serotype III (strain NEM316)								21458589	Q8E270
	Streptococcus agalactiae serotype III (strain NEM316)								21458589	Q8E296
	Streptococcus agalactiae serotype III (strain NEM316)								21458589	Q8E2B9
	Streptococcus agalactiae serotype III (strain NEM316)								21458589	Q8E2C0
	Streptococcus agalactiae serotype III (strain NEM316)								21458589	Q8E2D0
	Streptococcus agalactiae serotype III (strain NEM316)								21458589	Q8E2D4
	Streptococcus agalactiae serotype III (strain NEM316)								21458589	Q8E4M7
	Streptococcus agalactiae serotype III (strain NEM316)								21458589	Q8E530
	Streptococcus agalactiae serotype III (strain NEM316)								21458589	Q8E532
	Streptococcus agalactiae serotype III (strain NEM316)								21458589	Q8E6V2
	Streptococcus agalactiae serotype V (strain ATCC BAA-611 / 2603 V/R)								20133196	P0A3J3
	Streptococcus agalactiae serotype V (strain ATCC BAA-611 / 2603 V/R)								20133196	P0A4J3
	Streptococcus agalactiae serotype V (strain ATCC BAA-611 / 2603 V/R)								20133196	P63769
	Streptococcus agalactiae serotype V (strain ATCC BAA-611 / 2603 V/R)								20133196	P64056
	Streptococcus agalactiae serotype V (strain ATCC BAA-611 / 2603 V/R)								20133196	P64081

	Streptococcus agalactiae serotype V (strain ATCC BAA-611 / 2603 V/R)							20133196	P64196
	Streptococcus agalactiae serotype V (strain ATCC BAA-611 / 2603 V/R)							20133196	P65697
	Streptococcus agalactiae serotype V (strain ATCC BAA-611 / 2603 V/R)							20133196	P66443
	Streptococcus agalactiae serotype V (strain ATCC BAA-611 / 2603 V/R)							20133196	P66598
	Streptococcus agalactiae serotype V (strain ATCC BAA-611 / 2603 V/R)							20133196	P66741
	Streptococcus agalactiae serotype V (strain ATCC BAA-611 / 2603 V/R)							20133196	P67399
	Streptococcus agalactiae serotype V (strain ATCC BAA-611 / 2603 V/R)							20133196	Q3JZL4
	Streptococcus agalactiae serotype V (strain ATCC BAA-611 / 2603 V/R)							20133196	Q3K0N5
	Streptococcus agalactiae serotype V (strain ATCC BAA-611 / 2603 V/R)							20133196	Q3K3S4
	Streptococcus agalactiae serotype V (strain ATCC BAA-611 / 2603 V/R)							20133196	Q3K3U4
	Streptococcus agalactiae serotype V (strain ATCC BAA-611 / 2603 V/R)							20133196	Q3K3U8
	Streptococcus agalactiae serotype V (strain ATCC BAA-611 / 2603 V/R)							20133196	Q4H1F8
	Streptococcus agalactiae serotype V (strain ATCC BAA-611 / 2603 V/R)							20133196	Q75WB4
	Streptococcus agalactiae serotype V (strain ATCC BAA-611 / 2603 V/R)							20133196	Q8CX00
	Streptococcus agalactiae serotype V (strain ATCC BAA-611 / 2603 V/R)							20133196	Q8DWQ5
	Streptococcus agalactiae serotype V (strain ATCC BAA-611 / 2603 V/R)							20133196	Q8DWS5
	Streptococcus agalactiae serotype V (strain ATCC BAA-611 / 2603 V/R)							20133196	Q8DWX0
	Streptococcus agalactiae serotype V (strain ATCC BAA-611 / 2603 V/R)							20133196	Q8DWZ0
	Streptococcus agalactiae serotype V (strain ATCC BAA-611 / 2603 V/R)							20133196	Q8DXB7
	Streptococcus agalactiae serotype V (strain ATCC BAA-611 / 2603 V/R)							20133196	Q8DXC8
	Streptococcus agalactiae serotype V (strain ATCC BAA-611 / 2603 V/R)							20133196	Q8DXL7
	Streptococcus agalactiae serotype V (strain ATCC BAA-611 / 2603 V/R)							20133196	Q8DXS8
	Streptococcus agalactiae serotype V (strain ATCC BAA-611 / 2603 V/R)							20133196	Q8DXT6
	Streptococcus agalactiae serotype V (strain ATCC BAA-611 / 2603 V/R)							20133196	Q8DXU5
	Streptococcus agalactiae serotype V (strain ATCC BAA-611 / 2603 V/R)							20133196	Q8DY17
	Streptococcus agalactiae serotype V (strain ATCC BAA-611 / 2603 V/R)							20133196	Q8DY39
	Streptococcus agalactiae serotype V (strain ATCC BAA-611 / 2603 V/R)							20133196	Q8DY42
	Streptococcus agalactiae serotype V (strain ATCC BAA-611 / 2603 V/R)							20133196	Q8DY80
	Streptococcus agalactiae serotype V (strain ATCC BAA-611 / 2603 V/R)							20133196	Q8DYA5
	Streptococcus agalactiae serotype V (strain ATCC BAA-611 / 2603 V/R)							20133196	Q8DYG8
	Streptococcus agalactiae serotype V (strain ATCC BAA-611 / 2603 V/R)							20133196	Q8DYH1
	Streptococcus agalactiae serotype V (strain ATCC BAA-611 / 2603 V/R)							20133196	Q8DYL3
	Streptococcus agalactiae serotype V (strain ATCC BAA-611 / 2603 V/R)							20133196	Q8DYX5
	Streptococcus agalactiae serotype V (strain ATCC BAA-611 / 2603 V/R)							20133196	Q8DZ19
	Streptococcus agalactiae serotype V (strain ATCC BAA-611 / 2603 V/R)							20133196	Q8DZ20
	Streptococcus agalactiae serotype V (strain ATCC BAA-611 / 2603 V/R)							20133196	Q8DZ21
	Streptococcus agalactiae serotype V (strain ATCC BAA-611 / 2603 V/R)							20133196	Q8DZ98
	Streptococcus agalactiae serotype V (strain ATCC BAA-611 / 2603 V/R)							20133196	Q8DZA4
	Streptococcus agalactiae serotype V (strain ATCC BAA-611 / 2603 V/R)							20133196	Q8DZB0
	Streptococcus agalactiae serotype V (strain ATCC BAA-611 / 2603 V/R)							20133196	Q8DZG4
	Streptococcus agalactiae serotype V (strain ATCC BAA-611 / 2603 V/R)							20133196	Q8DZH0
	Streptococcus agalactiae serotype V (strain ATCC BAA-611 / 2603 V/R)							20133196	Q8DZH7
	Streptococcus agalactiae serotype V (strain ATCC BAA-611 / 2603 V/R)							20133196	Q8DZK9
	Streptococcus agalactiae serotype V (strain ATCC BAA-611 / 2603 V/R)							20133196	Q8DZX9
	Streptococcus agalactiae serotype V (strain ATCC BAA-611 / 2603 V/R)							20133196	Q8DZY3
	Streptococcus agalactiae serotype V (strain ATCC BAA-611 / 2603 V/R)							20133196	Q8E000
	Streptococcus agalactiae serotype V (strain ATCC BAA-611 / 2603 V/R)							20133196	Q8E057
	Streptococcus agalactiae serotype V (strain ATCC BAA-611 / 2603 V/R)							20133196	Q8E072
	Streptococcus agalactiae serotype V (strain ATCC BAA-611 / 2603 V/R)							20133196	Q8E073
	Streptococcus agalactiae serotype V (strain ATCC BAA-611 / 2603 V/R)							20133196	Q8E0B3
	Streptococcus agalactiae serotype V (strain ATCC BAA-611 / 2603 V/R)							20133196	Q8E0G9
	Streptococcus agalactiae serotype V (strain ATCC BAA-611 / 2603 V/R)							20133196	Q8E0H0
	Streptococcus agalactiae serotype V (strain ATCC BAA-611 / 2603 V/R)							20133196	Q8E0J2
	Streptococcus agalactiae serotype V (strain ATCC BAA-611 / 2603 V/R)							20133196	Q8E140
	Streptococcus agalactiae serotype V (strain ATCC BAA-611 / 2603 V/R)							20133196	Q8E155
	Streptococcus agalactiae serotype V (strain ATCC BAA-611 / 2603 V/R)							20133196	Q8E183
	Streptococcus agalactiae serotype V (strain ATCC BAA-611 / 2603 V/R)							20133196	Q8E1M0

	Streptococcus agalactiae serotype V (strain ATCC BAA-611 / 2603 V/R)								20133196	Q8E1N1
	Streptococcus agalactiae serotype V (strain ATCC BAA-611 / 2603 V/R)								20133196	Q8E1Q1
	Streptococcus agalactiae serotype V (strain ATCC BAA-611 / 2603 V/R)								20133196	Q8E1Q9
	Streptococcus agalactiae serotype V (strain ATCC BAA-611 / 2603 V/R)								20133196	Q8E257
	Streptococcus agalactiae serotype V (strain ATCC BAA-611 / 2603 V/R)								20133196	Q8E270
	Streptococcus agalactiae serotype V (strain ATCC BAA-611 / 2603 V/R)								20133196	Q8E299
	Streptococcus agalactiae serotype V (strain ATCC BAA-611 / 2603 V/R)								20133196	Q8E2B9
	Streptococcus agalactiae serotype V (strain ATCC BAA-611 / 2603 V/R)								20133196	Q8E2D1
	Streptococcus agalactiae serotype V (strain ATCC BAA-611 / 2603 V/R)								20133196	Q8E2H3
	Streptococcus agalactiae serotype V (strain ATCC BAA-611 / 2603 V/R)								20133196	Q8E532
	Streptococcus agalactiae serotype V (strain ATCC BAA-611 / 2603 V/R)								20133196	Q8RP80
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9172	Streptococcus anginosus 11H5AP	BACTERIAL	1328	Oral		Oral		HOMD: tax_543	n.a.	
1043	Streptococcus anginosus CCUG 39159	BACTERIAL	1095729	Oral		Oral			n.a.	
813	Streptococcus anginosus F0211	BACTERIAL	706437	Oral		Oral		HOMD: tax_543	n.a.	
9966	Streptococcus anginosus SK52	BACTERIAL	1000570	Oral		Oral			n.a.	
9173	Streptococcus australis 304H23AP	BACTERIAL	113107	Oral		Oral		HOMD: tax_73	n.a.	
9421	Streptococcus australis ATCC 700641	BACTERIAL	888833	Oral		Oral		HOMD: tax_73	n.a.	
9174	Streptococcus constellatus 84A19BP	BACTERIAL	76860	Oral		Oral		HOMD: tax_576	n.a.	
0	Streptococcus constellatus subsp. pharyngis C232	BACTERIAL	696216	Oral		Oral			n.a.	
9175	Streptococcus cristatus 74H10BP	BACTERIAL	45634	Oral		Oral		HOMD: tax_578	n.a.	
9422	Streptococcus cristatus ATCC 51100	BACTERIAL	889201	Oral		Oral		HOMD: tax_578	n.a.	
9176	Streptococcus downei F0415	BACTERIAL	904293	Oral		Oral		HOMD: tax_594	n.a.	
9963	Streptococcus dysgalactiae equisimilis SK1250	BACTERIAL	119602	Oral		Oral			21282711	
9964	Streptococcus dysgalactiae subsp. equisimilis SK1249	BACTERIAL	1000589	Oral		Oral			21282711	
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9682	Streptococcus intermedius F0395	BACTERIAL	857292	Oral		Oral		HOMD: tax_644	11681202	
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9682	Streptococcus intermedius F0395	BACTERIAL	857292	Oral		Oral		HOMD: tax_644	20705665	K4NP19
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1109	Streptococcus intermedius SK54, ATCC 27335	BACTERIAL	1338	Oral		Oral			11681202	
1109	Streptococcus intermedius SK54, ATCC 27335	BACTERIAL	1338	Oral		Oral			20705665	I4DZ20
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8571	Streptococcus mitis ATCC 6249	BACTERIAL	864567	Oral		Oral		HOMD: tax_677	17904095	
8571	Streptococcus mitis ATCC 6249	BACTERIAL	864567	Oral		Oral		HOMD: tax_677	18708515	
8571	Streptococcus mitis ATCC 6249	BACTERIAL	864567	Oral		Oral		HOMD: tax_677	21460882	
8571	Streptococcus mitis ATCC 6249	BACTERIAL	864567	Oral		Oral		HOMD: tax_677	21798371	
9965	Streptococcus mitis bv. 2 SK95	BACTERIAL	1000588	Oral		Oral			17904095	
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9965	Streptococcus mitis bv. 2 SK95	BACTERIAL	1000588	Oral		Oral			21798371	
9178	Streptococcus mitis bv. 2 str. F0392	BACTERIAL	768726	Oral		Oral		HOMD: tax_398	17904095	
9178	Streptococcus mitis bv. 2 str. F0392	BACTERIAL	768726	Oral		Oral		HOMD: tax_398	18708515	
9178	Streptococcus mitis bv. 2 str. F0392	BACTERIAL	768726	Oral		Oral		HOMD: tax_398	21460882	
9178	Streptococcus mitis bv. 2 str. F0392	BACTERIAL	768726	Oral		Oral		HOMD: tax_398	21798371	
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	Streptococcus mutans								12748943	I6L926
	Streptococcus mutans								12748943	O06941
	Streptococcus mutans								12748943	O06942
	Streptococcus mutans								12748943	O07329
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	Streptococcus mutans								12748943	P10539
	Streptococcus mutans								12748943	P11000
	Streptococcus mutans								12748943	P23504
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	Streptococcus mutans								12748943	Q8DRW2
	Streptococcus mutans								12748943	Q8DS11
	Streptococcus mutans								12748943	Q8DS12
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	Streptococcus mutans								12748943	Q93D83
	Streptococcus mutans								12748943	Q9AIV4
	Streptococcus mutans								12748943	Q9X670
	Streptococcus mutans								12748943	Q9XB21
	Streptococcus mutans								15133096	Q8DWH6
	Streptococcus mutans								15133096	O06942
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	Streptococcus mutans								15133096	Q8DSF2
	Streptococcus mutans								15133096	Q8DSE7
	Streptococcus mutans								15133097	Q8DTF9
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	Streptococcus mutans								15133097	Q8DW12
	Streptococcus mutans								15133097	Q8DU59
	Streptococcus mutans								15133097	Q8DVY3
	Streptococcus mutans								15133097	Q8DV86
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	Streptococcus mutans								15133097	Q8DVE7
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	Streptococcus mutans								15133097	Q8DUE7
	Streptococcus mutans								15133097	Q8DUY2
	Streptococcus mutans								15133097	Q8DUC4
	Streptococcus mutans								15133097	Q8DWE6
	Streptococcus mutans								15133097	Q8DTN6
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	Streptococcus mutans								15133097	Q8DUH7
	Streptococcus mutans								15133097	Q8DTW3
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	Streptococcus mutans serotype c (strain ATCC 700610 / UA159)								18279177	I6L921
	Streptococcus mutans serotype c (strain ATCC 700610 / UA159)								18279177	P72483
	Streptococcus mutans serotype c (strain ATCC 700610 / UA159)								18279177	P72484
	Streptococcus mutans serotype c (strain ATCC 700610 / UA159)								18279177	P95780
	Streptococcus mutans serotype c (strain ATCC 700610 / UA159)								18279177	Q8CWW5
	Streptococcus mutans serotype c (strain ATCC 700610 / UA159)								18279177	Q8CWW8
	Streptococcus mutans serotype c (strain ATCC 700610 / UA159)								18279177	Q8DS33
	Streptococcus mutans serotype c (strain ATCC 700610 / UA159)								18279177	Q8DSV6
	Streptococcus mutans serotype c (strain ATCC 700610 / UA159)								18279177	Q8DUH2
	Streptococcus mutans serotype c (strain ATCC 700610 / UA159)								18279177	Q8DUL9
	Streptococcus mutans serotype c (strain ATCC 700610 / UA159)								18279177	Q8DWC2
	Streptococcus mutans serotype c (strain ATCC 700610 / UA159)								18279177	Q8DWE5
	Streptococcus mutans serotype c (strain ATCC 700610 / UA159)								18279177	Q8DWI3
	Streptococcus mutans serotype c (strain ATCC 700610 / UA159)								21423890	Q8DT76
	Streptococcus mutans serotype c (strain ATCC 700610 / UA159)								21423890	Q8DT53
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	Streptococcus mutans serotype c (strain ATCC 700610 / UA159)								21423890	Q02420
	Streptococcus mutans serotype c (strain ATCC 700610 / UA159)								21423890	Q8DTC3
	Streptococcus mutans serotype c (strain ATCC 700610 / UA159)								21423890	Q8DS84

	Streptococcus mutans serotype c (strain ATCC 700610 / UA159)								21423890	Q8DTE9
	Streptococcus mutans serotype c (strain ATCC 700610 / UA159)								21423890	Q8DTG1
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8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	I6L920
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	I6L921
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	I6L922
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	I6L923
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	I6L925
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	I6L926
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	I6L927
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	I6L928
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	I6L930
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	O06940
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	O06941
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	O06942
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	O07329
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	O33662
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	O68575
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	O68579
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	O69155
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	O70055
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	P05428
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	P08987
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	P09738
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	P10249
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	P10539
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	P11000
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	P11701
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	P12655
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	P13470
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	P13522
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	P23504
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	P26283
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	P26422
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	P26424
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	P27624
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	P27756
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	P29337
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	P34001
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	P37214
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	P45595
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	P45596
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	P48853
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	P49331
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	P50978
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	P55045
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	P59125
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	P59133

8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	P59156
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	P59161
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	P59167
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	P59378
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	P59388
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	P66308
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	P66474
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	P66531
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	P72477
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	P72478
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	P72479
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	P72481
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	P72483
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	P72484
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	P95778
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	P95780
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	P95781
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	P95785
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	P95786
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	P95787
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	P95788
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	P95789
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	P95790
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	P95803
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	P96468
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	P96993
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	P96994
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8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q00749
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q00751
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q00752
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q02418
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q02419
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q02420
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q02425
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q03174
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q07211
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q1LZ62
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q1LZ63
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q53526
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q54430
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q54431
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q54433
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q54443
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q59925
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q59931
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q59934
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q59935
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q59938
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q59939
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q59940
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q7ZAK8
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q7ZAK9
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q7ZAL0
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8CM14
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8CMD5
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8CVC3

8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8CVC4
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8CVC5
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8CVC6
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8CVC7
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8CWW2
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8CWW3
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8CWW4
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8CWW5
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8CWW6
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8CWW7
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8CWW8
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8CWW9
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8CWX0
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8CWX1
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8CWX2
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8CWX3
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8CWX4
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8CWX6
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8CWX7
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8CWX8
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8CWX9
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8CWY0
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8CWY2
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8CWY3
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8CWY4
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8CWY5
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8CWY6
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8CWY7
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8CWY8
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8CWY9
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8CWZ0
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8CWZ1
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8CWZ2
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8CWZ3
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8CWZ6
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8CZF2
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DRQ5
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DRQ6
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8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DRR0
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DRR1
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DRR2
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DRR3
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DRR4
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DRR5
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DRR6
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DRR7
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DRR9
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DRS0
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DRS1
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DRS4
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DRS8
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DRS9
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DRT0
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DRT2
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DRT6
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DRT7

8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DRT8
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DRU3
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DRU6
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DRU8
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DRU9
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DRV0
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DRV2
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DRV3
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DRV7
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DRV8
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DRV9
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DRW0
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DRW1
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DRW2
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DRW6
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DRW8
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DRX0
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DRX2
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DRX3
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DRX6
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DRX7
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DRX8
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DRY1
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DRY2
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DRY3
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DRY4
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DRY5
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DRY8
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DRY9
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DRZ1
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DRZ2
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DRZ4
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DRZ5
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DRZ6
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DRZ7
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DRZ8
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DS02
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DS03
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DS04
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DS05
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DS06
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DS07
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DS09
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DS11
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DS12
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DS13
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DS14
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DS15
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DS16
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DS19
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DS20
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DS21
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DS22
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DS23
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DS24
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DS25
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DS26

8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DS27
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DS28
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DS29
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DS30
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DS31
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DS32
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DS33
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DS34
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DS35
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8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DS37
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DS40
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DS41
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DS42
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DS44
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DS45
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DS46
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DS47
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DS56
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DS57
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DS58
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DS60
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DS61
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DS62
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DS64
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DS65
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DS69
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DS71
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DS72
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DS73
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DS74
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DS75
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DS76
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DS78
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DS79
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DS80
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DS81
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DS82
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DS83
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DS84
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DS85
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DS86
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DS87
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DS88
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DS89
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DS90
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DS91
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DS92
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DS94
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSA4
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSA9
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSB1
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSB2
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSB7
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSB9
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSC1
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSC2

8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSC3
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSC4
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSC5
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSC6
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSC7
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSC9
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSD1
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSD2
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSD3
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSD4
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSD7
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSD8
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSE0
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSE2
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSE3
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSE4
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSE5
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSE7
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSE8
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSE9
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSF0
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSF1
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSF2
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSF3
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSF4
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSF5
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSF7
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSF8
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSF9
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSG1
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSG2
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSG3
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSG4
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSG5
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSG6
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSH0
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSH1
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSH4
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSI0
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSI2
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSI3
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSI4
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSI5
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSI6
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSI7
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSI8
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSI9
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSJ2
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSJ4
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSJ5
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSJ6
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSJ7
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSJ8
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSJ9
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSK1
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSK2
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSK3

8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSK5
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSK7
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSK8
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSK9
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSL1
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSL5
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSL6
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSL7
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSL8
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSL9
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSM0
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSM1
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSM4
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSM8
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSM9
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSN0
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSN1
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSN2
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSN3
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSN4
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSN5
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSN6
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSN8
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSN9
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSP0
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSP1
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSP2
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSP3
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSP5
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSP6
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSP7
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSP8
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSP9
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSQ0
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSQ1
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSQ2
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSQ3
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSQ4
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSQ5
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSQ6
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSQ7
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSQ8
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSR0
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSR3
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSR5
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSR6
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSS2
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSS3
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSS4
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSS8
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSS9
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DST0
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DST1
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DST2
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DST4
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DST5
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DST6

8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DST7
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DST9
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSU0
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSU1
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSU3
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSU4
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSU5
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSU6
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSU7
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSU8
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSU9
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSV0
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSV3
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSV6
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSV8
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8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSW1
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSW2
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSW3
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSW4
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSW5
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSW7
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSW8
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSX1
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSX2
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSX3
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSX5
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSX6
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSX7
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSX9
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSY0
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSY1
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSY2
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSY3
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSY4
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSY6
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSY7
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSY9
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSZ0
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSZ1
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSZ5
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSZ7
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSZ8
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DSZ9
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DT00
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DT05
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DT07
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DT08
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DT09
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DT10
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DT12
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DT13
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DT14
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DT15
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DT16
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DT18
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DT19

8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DT20
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8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DT22
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DT23
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DT24
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DT25
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DT27
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8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DT31
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8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DT36
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DT37
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DT38
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DT39
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DT49
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DT50
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DT51
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DT52
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DT53
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DT54
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DT55
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DT57
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DT58
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DT59
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DT61
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DT62
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DT63
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DT64
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DT65
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DT66
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DT68
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DT74
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DT75
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DT76
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DT79
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DT80
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DT81
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DT86
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DT87
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DT88
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DT89
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DT90
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DT91
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DT92
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DT94
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DT95
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DT97
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DT99
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTA0
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTA1
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTA6
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTA7
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTA8

8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTA9
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTB0
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTB2
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTB3
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTB4
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTB5
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTB6
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTB7
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTB8
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTC0
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTC1
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTC2
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTC3
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTC4
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTC5
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTC6
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTC7
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTC9
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTD0
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTD1
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTD3
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTD4
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTD5
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTD6
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTD8
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTE2
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTE3
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTE9
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTF1
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTF3
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTF4
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTF6
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTF8
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTF9
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTG0
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTG1
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTG2
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTG3
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTG4
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTG5
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTG6
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTG7
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTH5
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTH6
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTH8
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTI9
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTJ0
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTJ1
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTJ2
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTJ3
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTJ4
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTJ5
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTJ6
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTJ7
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTJ8
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTJ9
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTK0

8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTK1
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTK2
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTK3
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTK8
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTK9
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTL0
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTL1
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTL2
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTL3
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTL4
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTL5
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTL8
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTL9
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTM0
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTM1
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTM2
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTM4
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTM5
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTM6
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTM7
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTM8
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTM9
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTN0
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTN1
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTN2
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTN3
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTN4
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTN5
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTN6
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTN7
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTN8
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTN9
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTP0
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTP1
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTP2
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTP5
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTP6
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTQ1
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8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTQ3
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTQ4
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTQ5
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTQ6
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTQ7
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTQ9
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTR1
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8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTS0
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTS5
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTS6
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8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTS9
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8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTT4
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTT5

8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTT6
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8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTT9
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTU0
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTU3
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTU4
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTU5
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8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTU7
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8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTV2
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTV3
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTV4
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTV8
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTV9
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTW0
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTW1
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTW2
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTW3
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTW4
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTW5
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8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTW7
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTW8
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTW9
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTX1
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTX3
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTX4
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTX5
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTX6
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTX7
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8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTY0
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTY2
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTY3
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTY4
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTY6
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTY7
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTY8
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTY9
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTZ5
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTZ8
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DTZ9
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DU01
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DU02
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DU03
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DU07
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DU08
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DU13
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DU15
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DU16
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DU17
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DU18
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DU20

8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DU21
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DU22
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DU23
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DU24
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DU25
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DU26
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DU27
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DU28
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DU29
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8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DU32
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8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DU40
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8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DU43
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8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DU46
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DU48
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DU50
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8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DU53
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8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DU55
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8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DU59
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8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DU63
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8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DU70
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8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DU74
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DU76
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DU77
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8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DU81
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8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DU83
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8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DU85
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8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DU91
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8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUA0
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8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUA2
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUA3
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUA4
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUA5
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8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUB7
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8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUC1
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUC2
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUC8
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUD1
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUD2
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUD3
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUD4
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUD7
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUE2
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUE3
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8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUE5
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUE7
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8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUF4
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8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUG0
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8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUG3
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8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUG5
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8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUG9
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUH2
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUH3
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUH5
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8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUH9
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUI0
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUI2
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUI4
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8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUJ6
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUJ7

8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUJ9
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8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUK3
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8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUK5
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8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUM3
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8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUP0
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUP1
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUP2
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUP3
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUP4
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUP5
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUP6
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUP7
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUP8
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUP9
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUQ1
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUQ3
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8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUQ6
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUR0
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUR1
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUR2
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUR3
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUR5
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUR6
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUR8
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUR9
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUS0
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUS1
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUS2
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUS3

8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUS4
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUS5
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUS6
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUS7
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUS8
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUS9
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUT1
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8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUT3
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUT6
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUT7
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8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUT9
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8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUU6
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUU7
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8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUU9
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUV0
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUV3
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUV4
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUV5
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUV6
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUV7
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUV8
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUV9
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUW0
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUW1
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUW2
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUW3
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUW4
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUW6
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8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUW9
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUX1
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUX2
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUX3
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUX4
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUX5
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUX7
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUY0
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUY3
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUY4
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8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUZ1
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUZ2
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUZ5
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8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DUZ7
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8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DV01
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8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DV08
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8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DV10
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DV11
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DV13
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DV17
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DV19
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DV20
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DV21
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DV22
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DV23
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8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DV26
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8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DV91
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8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DV97
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8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVA0
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVA1
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVA3
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVA5
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8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVB0
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8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVB3
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVB4
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8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVC1
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVC3
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8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVC5
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVC6
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVC8
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8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVD0
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVD1
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVD2
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVD3
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8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVD6
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8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVE0
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVE1
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVE2
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVE3
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVE5
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVE7
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVE8
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVF0
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVF2
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVF3
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVF6
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVF7
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVF8
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVG0
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVG2
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVG3
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVG5
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVG6
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVG8
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVG9
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVH0
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVH1
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVH2
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVH3
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVH4
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVH5
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVH8
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVH9
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVI0
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVI1
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVI2
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVI3
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVI4
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVI5
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVI6
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVI7
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVI8
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVJ1
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVJ2

8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVJ3
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVJ4
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVJ5
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVJ7
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVJ8
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVJ9
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVK1
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVK2
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVK3
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVK4
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVK5
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVK6
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVK7
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVK8
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVK9
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVL0
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVL1
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVL3
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVL4
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVL5
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVL6
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVL7
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVL9
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVM0
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVM1
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVM2
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVM4
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVM5
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVM7
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVM9
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVN0
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVN1
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVN2
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVN5
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVN6
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVN7
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVN8
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVN9
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVP1
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVP2
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVP3
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVP5
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVP6
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVP8
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVP9
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVQ1
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVQ2
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVQ3
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVQ4
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVQ5
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVQ6
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVQ7
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVQ8
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVR0
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVR1
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVR2
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVR4

8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVR8
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVR9
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVS0
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVS1
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVS2
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVS3
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVS4
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVS5
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVT0
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVT1
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVT2
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVT4
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVT6
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVT9
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVU5
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVU6
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVU7
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVU8
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVU9
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVV0
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVV2
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVV3
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8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVV5
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVV6
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVV7
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8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVW0
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVW1
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVW4
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8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVW9
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVX0
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVX2
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVX3
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVX4
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVX5
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVX6
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVX8
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVX9
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVY0
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVY1
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVY2
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVY3
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVY5
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVY6
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVY7
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVY9
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVZ0
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVZ3
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVZ4
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVZ5
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVZ6
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DVZ9
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DW01
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DW02
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DW03

8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DW04
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DW05
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DW14
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DW15
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DW21
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DW22
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DW23
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DW24
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DW25
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DW26
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DW27
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DW28
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DW29
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DW30
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DW31
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DW32
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DW33
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DW34
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DW35
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DW36
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DW38
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DW39
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DW40
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DW41
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DW42
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DW43
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DW44
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DW45
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DW46
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DW47
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DW48
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DW49
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DW55
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DW57
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DW58
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DW59
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DW61
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DW63
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DW64
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DW65
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DW66
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DW67
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DW68
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DW69
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DW70
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DW72
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DW73
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DW74
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DW75
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DW76
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DW77
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DW78
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DW79
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DW80
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DW81
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DW82
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DW83

8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DW86
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DW87
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DW88
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DW94
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DW95
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DW96
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DW97
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DW98
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DW99
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DWA2
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DWA3
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DWA9
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DWB0
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DWB1
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DWB2
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DWB3
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DWB9
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DWC2
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DWC5
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DWC7
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DWC8
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DWC9
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DWD3
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DWD4
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DWD5
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DWD6
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DWD7
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DWD8
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DWE0
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DWE1
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DWE2
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DWE3
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DWF4
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DWF5
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DWF7
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DWF8
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DWF9
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DWG0
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DWG1
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DWG7
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DWG8
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DWH0
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DWH1
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DWH2
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DWH4
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DWH5
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DWH6
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DWH7
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DWH9
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DWI1
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DWI2
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DWI3
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DWI4
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DWI5
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DWI6
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DWI7
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DWI8

8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DWJ0
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DWJ1
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DWJ4
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DWJ5
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DWJ6
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DWJ7
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DWK8
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DWL0
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DWL1
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DWL3
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DWL5
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DWL6
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DWL8
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DWL9
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DWM0
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DWM1
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DWM2
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DWM3
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DWM4
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DWM7
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DWM8
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DWN0
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DWN1
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DWN2
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DWN4
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DWN5
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DWN6
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DWN7
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DWN8
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q8DWN9
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q93D83
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q93D93
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q93D95
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q93D97
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q93DA2
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q99040
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q9KIJ3
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q9KJ75
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q9X670
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q9XB21
8579	Streptococcus oralis ATCC 35037	BACTERIAL	655813	Oral	Mouth	Oral	Mouth	HOMD: tax_707	23049864	Q9ZA56
	Streptococcus oralis ATCC 35037	BACTERIAL							23264054	Q68AZ4
1114	Streptococcus oralis SK100	BACTERIAL	1095740	Oral		Oral			17904095	
1125	Streptococcus oralis SK304	BACTERIAL	1161421	Oral		Oral			17904095	
1125	Streptococcus oralis SK304	BACTERIAL	1161421	Oral		Oral			18708515	
1125	Streptococcus oralis SK304	BACTERIAL	1161421	Oral		Oral			21798371	
1125	Streptococcus oralis SK304	BACTERIAL	1161421	Oral		Oral			22075030	F2QBN4
833	Streptococcus parasanguinis ATCC 15912	BACTERIAL	760570	Oral	Throat	Oral		HOMD: tax_721	n.a.	
9179	Streptococcus parasanguis 32T10AP	BACTERIAL	1318	Oral		Oral		HOMD: tax_721	n.a.	
9180	Streptococcus peroris ATCC 700780	BACTERIAL	888746	Oral	Teeth	Oral	Teeth	HOMD: tax_728	n.a.	
	Streptococcus pneumoniae (strain ATCC BAA-255 / R6)								16547018	Q8DNU1
	Streptococcus pneumoniae (strain ATCC BAA-255 / R6)								16547018	Q8DRG5
	Streptococcus pneumoniae (strain ATCC BAA-255 / R6)								16547018	P64023
	Streptococcus pneumoniae (strain ATCC BAA-255 / R6)								16547018	Q8CZE9
	Streptococcus pneumoniae (strain ATCC BAA-255 / R6)								16547018	P64043
	Streptococcus pneumoniae (strain ATCC BAA-255 / R6)								16547018	Q8DR09
	Streptococcus pneumoniae (strain ATCC BAA-255 / R6)								16547018	Q8DQX8

	Streptococcus pneumoniae (strain ATCC BAA-255 / R6)								16547018	Q8CWT3
	Streptococcus pneumoniae (strain ATCC BAA-255 / R6)								16547018	Q8CWS5
	Streptococcus pneumoniae (strain ATCC BAA-255 / R6)								16547018	Q8DQJ4
	Streptococcus pneumoniae (strain ATCC BAA-255 / R6)								16547018	Q8DQG9
	Streptococcus pneumoniae (strain ATCC BAA-255 / R6)								16547018	Q8DQF1
	Streptococcus pneumoniae (strain ATCC BAA-255 / R6)								16547018	Q8CWS2
	Streptococcus pneumoniae (strain ATCC BAA-255 / R6)								16547018	Q8CWR9
	Streptococcus pneumoniae (strain ATCC BAA-255 / R6)								16547018	Q8DQ84
	Streptococcus pneumoniae (strain ATCC BAA-255 / R6)								16547018	Q8DPW5
	Streptococcus pneumoniae (strain ATCC BAA-255 / R6)								16547018	Q8DPS0
	Streptococcus pneumoniae (strain ATCC BAA-255 / R6)								16547018	Q8CWR3
	Streptococcus pneumoniae (strain ATCC BAA-255 / R6)								16547018	P0A3N0
	Streptococcus pneumoniae (strain ATCC BAA-255 / R6)								16547018	Q8DPG0
	Streptococcus pneumoniae (strain ATCC BAA-255 / R6)								16547018	P66051
	Streptococcus pneumoniae (strain ATCC BAA-255 / R6)								16547018	P0A3R0
	Streptococcus pneumoniae (strain ATCC BAA-255 / R6)								16547018	Q8DPC7
	Streptococcus pneumoniae (strain ATCC BAA-255 / R6)								16547018	P64298
	Streptococcus pneumoniae (strain ATCC BAA-255 / R6)								16547018	Q8DP66
	Streptococcus pneumoniae (strain ATCC BAA-255 / R6)								16547018	P64031
	Streptococcus pneumoniae (strain ATCC BAA-255 / R6)								16547018	Q7CRB1
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	Streptococcus pyogenes								21636680	P69946
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	Streptococcus pyogenes								21636680	Q99YV7
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	Streptococcus pyogenes serotype M1								17142387	Q9A0L9
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8573	Streptococcus sanguinis ATCC 29667	BACTERIAL	997356	Oral	Upper	Oral	Upper	HOMD: tax_758	14578497	
8573	Streptococcus sanguinis ATCC 29667	BACTERIAL	997356	Oral	Upper	Oral	Upper	HOMD: tax_758	23137016	F9E424
8573	Streptococcus sanguinis ATCC 29667	BACTERIAL	997356	Oral	Upper	Oral	Upper	HOMD: tax_758	23137016	A3CKI1
8573	Streptococcus sanguinis ATCC 29667	BACTERIAL	997356	Oral	Upper	Oral	Upper	HOMD: tax_758	23137016	F0IP79
8573	Streptococcus sanguinis ATCC 29667	BACTERIAL	997356	Oral	Upper	Oral	Upper	HOMD: tax_758	23137016	F2CFH5
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8573	Streptococcus sanguinis ATCC 29667	BACTERIAL	997356	Oral	Upper	Oral	Upper	HOMD: tax_758	23137016	F0FNJ6
8573	Streptococcus sanguinis ATCC 29667	BACTERIAL	997356	Oral	Upper	Oral	Upper	HOMD: tax_758	23137016	F0FFV8
8573	Streptococcus sanguinis ATCC 29667	BACTERIAL	997356	Oral	Upper	Oral	Upper	HOMD: tax_758	23137016	F0IQX6
8573	Streptococcus sanguinis ATCC 29667	BACTERIAL	997356	Oral	Upper	Oral	Upper	HOMD: tax_758	23137016	F2CI85
8573	Streptococcus sanguinis ATCC 29667	BACTERIAL	997356	Oral	Upper	Oral	Upper	HOMD: tax_758	23137016	F0HYV5
8573	Streptococcus sanguinis ATCC 29667	BACTERIAL	997356	Oral	Upper	Oral	Upper	HOMD: tax_758	23137016	F3SKB8
8573	Streptococcus sanguinis ATCC 29667	BACTERIAL	997356	Oral	Upper	Oral	Upper	HOMD: tax_758	23137016	F9E611
8573	Streptococcus sanguinis ATCC 29667	BACTERIAL	997356	Oral	Upper	Oral	Upper	HOMD: tax_758	23137016	F0FVH3
8573	Streptococcus sanguinis ATCC 29667	BACTERIAL	997356	Oral	Upper	Oral	Upper	HOMD: tax_758	23137016	F9E424
8573	Streptococcus sanguinis ATCC 29667	BACTERIAL	997356	Oral	Upper	Oral	Upper	HOMD: tax_758	23137016	E6KIE0
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8573	Streptococcus sanguinis ATCC 29667	BACTERIAL	997356	Oral	Upper	Oral	Upper	HOMD: tax_758	23137016	F3UEN7
8573	Streptococcus sanguinis ATCC 29667	BACTERIAL	997356	Oral	Upper	Oral	Upper	HOMD: tax_758	23137016	F2CAS5
8573	Streptococcus sanguinis ATCC 29667	BACTERIAL	997356	Oral	Upper	Oral	Upper	HOMD: tax_758	23137016	F3UPM6
8573	Streptococcus sanguinis ATCC 29667	BACTERIAL	997356	Oral	Upper	Oral	Upper	HOMD: tax_758	23137016	F3V008
8573	Streptococcus sanguinis ATCC 29667	BACTERIAL	997356	Oral	Upper	Oral	Upper	HOMD: tax_758	23137016	F0I9R8
8573	Streptococcus sanguinis ATCC 29667	BACTERIAL	997356	Oral	Upper	Oral	Upper	HOMD: tax_758	23137016	F2BLX0
8578	Streptococcus sanguinis ATCC 49296	BACTERIAL	888049	Oral		Oral		HOMD: tax_758	n.a.	A3CPZ1
9181	Streptococcus sinensis HKU4	BACTERIAL	176090	Oral		Oral		HOMD: tax_767	n.a.	
1557	Streptococcus sobrinus W1703	BACTERIAL	1227275	Oral	Mouth	Oral	Mouth		20883222	M7E3M9
1557	Streptococcus sobrinus W1703	BACTERIAL	1227275	Oral	Mouth	Oral	Mouth		20883222	M7E600
1557	Streptococcus sobrinus W1703	BACTERIAL	1227275	Oral	Mouth	Oral	Mouth		20883222	M7E2W3
1557	Streptococcus sobrinus W1703	BACTERIAL	1227275	Oral	Mouth	Oral	Mouth		20883222	M7ET38
1557	Streptococcus sobrinus W1703	BACTERIAL	1227275	Oral	Mouth	Oral	Mouth		20883222	M7EIR5
1509	Streptococcus sp. AC15	BACTERIAL	936575	Oral		Oral			n.a.	
1517	Streptococcus sp. ACS2	BACTERIAL	936576	Oral		Oral			n.a.	
1150	Streptococcus sp. AS14	BACTERIAL	936577	Oral		Oral			n.a.	
1514	Streptococcus sp. AS20	BACTERIAL	936578	Oral		Oral			n.a.	
1515	Streptococcus sp. BS21	BACTERIAL	1161414	Oral		Oral			n.a.	
8572	Streptococcus sp. CIP 104985	BACTERIAL	1306	Oral	Mouth	Oral	Mouth	HOMD: tax_66	n.a.	
1516	Streptococcus sp. CM6	BACTERIAL	936580	Oral		Oral			n.a.	
1511	Streptococcus sp. CM7	BACTERIAL	936581	Oral		Oral			n.a.	
9186	Streptococcus sp. F0442	BACTERIAL	999425	Oral		Oral		HOMD: tax_66	n.a	
9190	Streptococcus sp. Hal T4-E3	BACTERIAL	1306	Oral		Oral		HOMD: tax_74	n.a.	
1518	Streptococcus sp. SR1	BACTERIAL	1161416	Oral		Oral			n.a.	
1519	Streptococcus sp. SR4	BACTERIAL	1161417	Oral		Oral			n.a.	

1520	Streptococcus sp. SR5	BACTERIAL	1161418	Oral		Oral			n.a.	
9425	Streptococcus vestibularis ATCC 49124	BACTERIAL	889206	Oral		Oral		HOMD: tax_21	n.a.	
9192	Streptococcus vestibularis F0396	BACTERIAL	904306	Oral		Oral		HOMD: tax_21	n.a.	
7215	Synergistetes bacterium W5455	BACTERIAL	352165	Oral		Oral		HOMD: tax_357	n.a.	
9235	Synergistetes sp. SGP1	BACTERIAL	651822	Oral		Oral			n.a.	
0	Tannerella forsythia ATCC 43037	BACTERIAL	203275	Oral	Periodontal	Oral	Periodontal			Q1JQR5
0	Tannerella forsythia ATCC 43037	BACTERIAL	203275	Oral	Periodontal	Oral	Periodontal			Q1JQR6
0	Tannerella forsythia ATCC 43037	BACTERIAL	203275	Oral	Periodontal	Oral	Periodontal			G8UL99
0	Tannerella forsythia ATCC 43037	BACTERIAL	203275	Oral	Periodontal	Oral	Periodontal			G8ULG4
0	Tannerella forsythia ATCC 43037	BACTERIAL	203275	Oral	Periodontal	Oral	Periodontal			G8UI02
0	Tannerella forsythia ATCC 43037	BACTERIAL	203275	Oral	Periodontal	Oral	Periodontal			G8UQ53
0	Tannerella forsythia ATCC 43037	BACTERIAL	203275	Oral	Periodontal	Oral	Periodontal			G8UQ61
0	Tannerella forsythia ATCC 43037	BACTERIAL	203275	Oral	Periodontal	Oral	Periodontal			G8UQQ6
0	Tannerella forsythia ATCC 43037	BACTERIAL	203275	Oral	Periodontal	Oral	Periodontal			G8UKD2
0	Tannerella forsythia ATCC 43037	BACTERIAL	203275	Oral	Periodontal	Oral	Periodontal			G8UIL0
0	Tannerella forsythia ATCC 43037	BACTERIAL	203275	Oral	Periodontal	Oral	Periodontal			G8UIB7
0	Tannerella forsythia ATCC 43037	BACTERIAL	203275	Oral	Periodontal	Oral	Periodontal			G8UQ63
0	Tannerella forsythia ATCC 43037	BACTERIAL	203275	Oral	Periodontal	Oral	Periodontal			G8ULT5
0	Tannerella forsythia ATCC 43037	BACTERIAL	203275	Oral	Periodontal	Oral	Periodontal			G8UN25
0	Tannerella forsythia ATCC 43037	BACTERIAL	203275	Oral	Periodontal	Oral	Periodontal			G8UPA0
0	Tannerella forsythia ATCC 43037	BACTERIAL	203275	Oral	Periodontal	Oral	Periodontal			G8UQP8
0	Tannerella forsythia ATCC 43037	BACTERIAL	203275	Oral	Periodontal	Oral	Periodontal			G8UHJ0
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0	Tannerella forsythia ATCC 43037	BACTERIAL	203275	Oral	Periodontal	Oral	Periodontal			G8UHM1
0	Tannerella forsythia ATCC 43037	BACTERIAL	203275	Oral	Periodontal	Oral	Periodontal			G8ULG6
0	Tannerella forsythia ATCC 43037	BACTERIAL	203275	Oral	Periodontal	Oral	Periodontal			G8UKY4
0	Tannerella forsythia ATCC 43037	BACTERIAL	203275	Oral	Periodontal	Oral	Periodontal			G8UN22
0	Tannerella forsythia ATCC 43037	BACTERIAL	203275	Oral	Periodontal	Oral	Periodontal			G8UQ62
0	Tannerella forsythia ATCC 43037	BACTERIAL	203275	Oral	Periodontal	Oral	Periodontal			G8UQH3
0	Tannerella forsythia ATCC 43037	BACTERIAL	203275	Oral	Periodontal	Oral	Periodontal			G8UHL0
0	Tannerella forsythia ATCC 43037	BACTERIAL	203275	Oral	Periodontal	Oral	Periodontal			G8UQP3
859	Treponema amylovorum	BACTERIAL	553169	Oral		Oral		HOMD: tax_541	n.a.	
	Treponema denticola									Q73QT1
9730	Treponema denticola AL-2	BACTERIAL	999426	Oral		Oral			n.a.	
9729	Treponema denticola ASLM	BACTERIAL	999427	Oral		Oral			n.a.	
9722	Treponema denticola ATCC 33520	BACTERIAL	999428	Oral		Oral			n.a.	
9735	Treponema denticola ATCC 33521	BACTERIAL	999429	Oral		Oral			n.a.	
9721	Treponema denticola ATCC 35404	BACTERIAL	999430	Oral		Oral			22808953	Q7MXF0
9721	Treponema denticola ATCC 35404	BACTERIAL	999430	Oral		Oral			22808953	Q7MU10
9721	Treponema denticola ATCC 35404	BACTERIAL	999430	Oral		Oral			22808953	Q7MTJ4
9721	Treponema denticola ATCC 35404	BACTERIAL	999430	Oral		Oral			22808953	Q7MVH6
9721	Treponema denticola ATCC 35404	BACTERIAL	999430	Oral		Oral			22808953	Q7MXP9
9721	Treponema denticola ATCC 35404	BACTERIAL	999430	Oral		Oral			22808953	Q7MTL7
9721	Treponema denticola ATCC 35404	BACTERIAL	999430	Oral		Oral			22808953	Q7MTC0
9721	Treponema denticola ATCC 35404	BACTERIAL	999430	Oral		Oral			22808953	Q7MU16
9721	Treponema denticola ATCC 35404	BACTERIAL	999430	Oral		Oral			22808953	Q7MTL2
9721	Treponema denticola ATCC 35404	BACTERIAL	999430	Oral		Oral			22808953	Q7MWQ5
9721	Treponema denticola ATCC 35404	BACTERIAL	999430	Oral		Oral			22808953	Q7MXW5
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9353	Treponema denticola F0402	BACTERIAL	699187	Oral		Oral		HOMD: tax_584	22808953	F7IW81
9353	Treponema denticola F0402	BACTERIAL	699187	Oral		Oral		HOMD: tax_584	22808953	O85749
9353	Treponema denticola F0402	BACTERIAL	699187	Oral		Oral		HOMD: tax_584	22808953	F7IVK6
9353	Treponema denticola F0402	BACTERIAL	699187	Oral		Oral		HOMD: tax_584	22808953	O85750
9353	Treponema denticola F0402	BACTERIAL	699187	Oral		Oral		HOMD: tax_584	22808953	Q73MK7
9353	Treponema denticola F0402	BACTERIAL	699187	Oral		Oral		HOMD: tax_584	22808953	Q73MI9
9353	Treponema denticola F0402	BACTERIAL	699187	Oral		Oral		HOMD: tax_584	22808953	Q73MI8
9353	Treponema denticola F0402	BACTERIAL	699187	Oral		Oral		HOMD: tax_584	22808953	Q73MI7
9353	Treponema denticola F0402	BACTERIAL	699187	Oral		Oral		HOMD: tax_584	22808953	Q73M97
9353	Treponema denticola F0402	BACTERIAL	699187	Oral		Oral		HOMD: tax_584	22808953	Q73M78
9353	Treponema denticola F0402	BACTERIAL	699187	Oral		Oral		HOMD: tax_584	22808953	Q73M68
9353	Treponema denticola F0402	BACTERIAL	699187	Oral		Oral		HOMD: tax_584	22808953	Q73M66
9353	Treponema denticola F0402	BACTERIAL	699187	Oral		Oral		HOMD: tax_584	22808953	Q73M39
9353	Treponema denticola F0402	BACTERIAL	699187	Oral		Oral		HOMD: tax_584	22808953	Q73M35
9353	Treponema denticola F0402	BACTERIAL	699187	Oral		Oral		HOMD: tax_584	22808953	Q73M29
9353	Treponema denticola F0402	BACTERIAL	699187	Oral		Oral		HOMD: tax_584	22808953	Q73M28

9353	Treponema denticola F0402	BACTERIAL	699187	Oral		Oral		HOMD: tax_584	22808953	Q73M27
9353	Treponema denticola F0402	BACTERIAL	699187	Oral		Oral		HOMD: tax_584	22808953	Q73M22
9353	Treponema denticola F0402	BACTERIAL	699187	Oral		Oral		HOMD: tax_584	22808953	Q73M14
9353	Treponema denticola F0402	BACTERIAL	699187	Oral		Oral		HOMD: tax_584	22808953	Q73M02
9353	Treponema denticola F0402	BACTERIAL	699187	Oral		Oral		HOMD: tax_584	22808953	Q73LX0
9353	Treponema denticola F0402	BACTERIAL	699187	Oral		Oral		HOMD: tax_584	22808953	Q73LW3
9353	Treponema denticola F0402	BACTERIAL	699187	Oral		Oral		HOMD: tax_584	22808953	Q73LL2
9353	Treponema denticola F0402	BACTERIAL	699187	Oral		Oral		HOMD: tax_584	22808953	Q73LL1
9353	Treponema denticola F0402	BACTERIAL	699187	Oral		Oral		HOMD: tax_584	22808953	Q73LL0
9353	Treponema denticola F0402	BACTERIAL	699187	Oral		Oral		HOMD: tax_584	22808953	Q73RB2
9353	Treponema denticola F0402	BACTERIAL	699187	Oral		Oral		HOMD: tax_584	22808953	Q73LE0
9353	Treponema denticola F0402	BACTERIAL	699187	Oral		Oral		HOMD: tax_584	22808953	Q73LC1
9353	Treponema denticola F0402	BACTERIAL	699187	Oral		Oral		HOMD: tax_584	22808953	Q73L76
9353	Treponema denticola F0402	BACTERIAL	699187	Oral		Oral		HOMD: tax_584	22808953	Q73L64
9353	Treponema denticola F0402	BACTERIAL	699187	Oral		Oral		HOMD: tax_584	22808953	Q73L58
9353	Treponema denticola F0402	BACTERIAL	699187	Oral		Oral		HOMD: tax_584	22808953	Q73L54
9353	Treponema denticola F0402	BACTERIAL	699187	Oral		Oral		HOMD: tax_584	22808953	Q73L37
9353	Treponema denticola F0402	BACTERIAL	699187	Oral		Oral		HOMD: tax_584	22808953	Q73L02
9353	Treponema denticola F0402	BACTERIAL	699187	Oral		Oral		HOMD: tax_584	22808953	Q73KN4
9353	Treponema denticola F0402	BACTERIAL	699187	Oral		Oral		HOMD: tax_584	22808953	Q73KN0
9353	Treponema denticola F0402	BACTERIAL	699187	Oral		Oral		HOMD: tax_584	22808953	Q73KK8
9353	Treponema denticola F0402	BACTERIAL	699187	Oral		Oral		HOMD: tax_584	22808953	Q73KJ6
9353	Treponema denticola F0402	BACTERIAL	699187	Oral		Oral		HOMD: tax_584	22808953	Q73KD7
9353	Treponema denticola F0402	BACTERIAL	699187	Oral		Oral		HOMD: tax_584	22808953	Q73KD1
9353	Treponema denticola F0402	BACTERIAL	699187	Oral		Oral		HOMD: tax_584	22808953	Q73KA4
9353	Treponema denticola F0402	BACTERIAL	699187	Oral		Oral		HOMD: tax_584	22808953	Q73JM6
9353	Treponema denticola F0402	BACTERIAL	699187	Oral		Oral		HOMD: tax_584	22808953	Q73JM5
9353	Treponema denticola F0402	BACTERIAL	699187	Oral		Oral		HOMD: tax_584	22808953	Q73JM2
9353	Treponema denticola F0402	BACTERIAL	699187	Oral		Oral		HOMD: tax_584	22808953	Q73JL7
9353	Treponema denticola F0402	BACTERIAL	699187	Oral		Oral		HOMD: tax_584	22808953	Q73JJ7
9353	Treponema denticola F0402	BACTERIAL	699187	Oral		Oral		HOMD: tax_584	22808953	Q73JT3
9353	Treponema denticola F0402	BACTERIAL	699187	Oral		Oral		HOMD: tax_584	22808953	P61188
9353	Treponema denticola F0402	BACTERIAL	699187	Oral		Oral		HOMD: tax_584	22808953	Q73JT7
9353	Treponema denticola F0402	BACTERIAL	699187	Oral		Oral		HOMD: tax_584	22808953	Q73JW1
9353	Treponema denticola F0402	BACTERIAL	699187	Oral		Oral		HOMD: tax_584	22808953	Q73JW0
9353	Treponema denticola F0402	BACTERIAL	699187	Oral		Oral		HOMD: tax_584	22808953	Q73JX3
9353	Treponema denticola F0402	BACTERIAL	699187	Oral		Oral		HOMD: tax_584	22808953	Q73JY6
9353	Treponema denticola F0402	BACTERIAL	699187	Oral		Oral		HOMD: tax_584	22808953	Q73K33
9353	Treponema denticola F0402	BACTERIAL	699187	Oral		Oral		HOMD: tax_584	22808953	Q73JH6
9353	Treponema denticola F0402	BACTERIAL	699187	Oral		Oral		HOMD: tax_584	22808953	Q73JG8
9353	Treponema denticola F0402	BACTERIAL	699187	Oral		Oral		HOMD: tax_584	22808953	Q73JF9
9353	Treponema denticola F0402	BACTERIAL	699187	Oral		Oral		HOMD: tax_584	22808953	Q73JF8
9353	Treponema denticola F0402	BACTERIAL	699187	Oral		Oral		HOMD: tax_584	22808953	Q73JC6
9353	Treponema denticola F0402	BACTERIAL	699187	Oral		Oral		HOMD: tax_584	22808953	Q73JB9
9353	Treponema denticola F0402	BACTERIAL	699187	Oral		Oral		HOMD: tax_584	22808953	Q73J96
9353	Treponema denticola F0402	BACTERIAL	699187	Oral		Oral		HOMD: tax_584	22808953	Q73J60
9353	Treponema denticola F0402	BACTERIAL	699187	Oral		Oral		HOMD: tax_584	22808953	F7ITY1
9353	Treponema denticola F0402	BACTERIAL	699187	Oral		Oral		HOMD: tax_584	22808953	Q9X5A4
9353	Treponema denticola F0402	BACTERIAL	699187	Oral		Oral		HOMD: tax_584	22808953	F7IU92
9353	Treponema denticola F0402	BACTERIAL	699187	Oral		Oral		HOMD: tax_584	22808953	Q9X5A2
9353	Treponema denticola F0402	BACTERIAL	699187	Oral		Oral		HOMD: tax_584	22808953	F7ITV4
9353	Treponema denticola F0402	BACTERIAL	699187	Oral		Oral		HOMD: tax_584	22808953	Q9X5A1
9353	Treponema denticola F0402	BACTERIAL	699187	Oral		Oral		HOMD: tax_584	22808953	Q73J01
9725	Treponema denticola H1-T	BACTERIAL	999431	Oral		Oral			n.a.	
9727	Treponema denticola MYR-T	BACTERIAL	999433	Oral		Oral			Treponema denticola'1A1	
9723	Treponema denticola OTK	BACTERIAL	999434	Oral		Oral			n.a.	
9731	Treponema denticola SP23	BACTERIAL	999435	Oral		Oral			n.a.	

9732	Treponema denticola SP32	BACTERIAL	999436	Oral		Oral			n.a.	
9733	Treponema denticola SP33	BACTERIAL	999437	Oral		Oral			n.a.	
9724	Treponema denticola SP37	BACTERIAL	999438	Oral		Oral			n.a.	
9734	Treponema denticola SP44	BACTERIAL	999439	Oral		Oral			n.a.	
9193	Treponema lecithinolyticum OMZ 684	BACTERIAL	53418	Oral		Oral		HOMD: tax_653	15280279	Q9AJS6
9193	Treponema lecithinolyticum OMZ 684	BACTERIAL	53418	Oral		Oral		HOMD: tax_653	15280279	Q8VLY3
9193	Treponema lecithinolyticum OMZ 684	BACTERIAL	53418	Oral		Oral		HOMD: tax_653	n.a.	
9195	Treponema medium ATCC 700293	BACTERIAL	1125700	Oral		Oral		HOMD: tax_667	15280279	
1220	Treponema parvum ATCC 700770	BACTERIAL	1125711	Oral	Gingival	Oral	Gingival	HOMD: tax_724	n.a.	
1217	Treponema pectinovorum VPI D-36DR-2, ATCC 33768	BACTERIAL	1081905	Oral	Subgingival	Oral	Subgingival		n.a.	
9196	Treponema socranskii buccale Smibert D16B-2	BACTERIAL	69713	Oral		Oral		HOMD: tax_769	n.a.	
1221	Treponema socranskii subsp. paredis ATCC 35535	BACTERIAL	1125701	Oral		Oral	Gingival		n.a.	
860	Treponema socranskii subsp. socranskii	BACTERIAL	69715	Oral		Oral		HOMD: tax_769	15280279	Q8VLY0
1325	Treponema socranskii subsp. socranskii VPI DR56BR1116	BACTERIAL	1125725	Oral		Oral			n.a.	
9198	Treponema sp. Smibert D120	BACTERIAL	166	Oral		Oral		HOMD: tax_268	n.a.	
9197	Treponema sp. Smibert D36ER1	BACTERIAL	166	Oral		Oral		HOMD: tax_257	n.a.	
888	Treponema vincentii ATCC 35580	BACTERIAL	596324	Oral		Oral		HOMD: tax_29	10722578	O52614
888	Treponema vincentii ATCC 35580	BACTERIAL	596324	Oral		Oral		HOMD: tax_29	10722578	E9S6X3
888	Treponema vincentii ATCC 35580	BACTERIAL	596324	Oral		Oral		HOMD: tax_29	12654104	
888	Treponema vincentii ATCC 35580	BACTERIAL	596324	Oral		Oral		HOMD: tax_29	12724370	
888	Treponema vincentii ATCC 35580	BACTERIAL	596324	Oral		Oral		HOMD: tax_29	15280279	C8PS84
888	Treponema vincentii ATCC 35580	BACTERIAL	596324	Oral		Oral		HOMD: tax_29	15280279	C8PS38
888	Treponema vincentii ATCC 35580	BACTERIAL	596324	Oral		Oral		HOMD: tax_29	15280279	C8PM23
888	Treponema vincentii ATCC 35580	BACTERIAL	596324	Oral		Oral		HOMD: tax_29	15280279	C8PU39
888	Treponema vincentii ATCC 35580	BACTERIAL	596324	Oral		Oral		HOMD: tax_29	15280279	C8PRD0
888	Treponema vincentii ATCC 35580	BACTERIAL	596324	Oral		Oral		HOMD: tax_29	15280279	C8PRU4
888	Treponema vincentii ATCC 35580	BACTERIAL	596324	Oral		Oral		HOMD: tax_29	15280279	C8PPF3
888	Treponema vincentii ATCC 35580	BACTERIAL	596324	Oral		Oral		HOMD: tax_29	15280279	C8PPF2
888	Treponema vincentii ATCC 35580	BACTERIAL	596324	Oral		Oral		HOMD: tax_29	15280279	C8PNR1
888	Treponema vincentii ATCC 35580	BACTERIAL	596324	Oral		Oral		HOMD: tax_29	15491467	
1222	Treponema vincentii F0403	BACTERIAL	1125702	Oral		Oral			n.a.	
870	Veillonella atypica KON	BACTERIAL	1128111	Oral	Mouth	Oral	Mouth	HOMD: tax_524	n.a.	
0	Veillonella atypica PK1910	BACTERIAL	39777	Oral		Oral			n.a.	
871	Veillonella dispar ATCC 17748	BACTERIAL	546273	Oral	Mouth	Oral	Mouth	HOMD: tax_160	n.a.	
1035	Veillonella parvula ATCC 17745	BACTERIAL	686660	Oral		Oral		HOMD: tax_161	n.a.	
1151	Veillonella sp. ACP1	BACTERIAL	936588	Oral		Oral			n.a.	
1521	Veillonella sp. AS16	BACTERIAL	936589	Oral		Oral			n.a.	
876	Veillonella sp. oral clone HB016	BACTERIAL	334576	Oral		Oral			n.a.	
9199	Veillonella sp. oral taxon 158 str. F0412	BACTERIAL	879309	Oral		Oral		HOMD: tax_158	n.a.	
9200	Veillonella sp. oral taxon 780 str. F0422	BACTERIAL	944564	Oral		Oral		HOMD:tax_780	n.a.	
9416	Veillonellaceae [G-1] sp. oral taxon 155	BACTERIAL	671235	Oral		Oral		HOMD:tax_155	n.a.	