

# eHOMD: the expanded Human Oral Microbiome Database

- Comprehensive, curated information on bacteria in the human mouth and aerodigestive tract
- Provides a provisional naming scheme for currently unnamed taxa
- Links sequence data with phenotypic, phylogenetic, clinical, and bibliographic information
- Easy-to-use tools for viewing genome information

## Tools available on the eHOMD website:

[homd.org](http://homd.org)



### 1. High-quality genome sequences, annotated

Human Oral Microbial Genomes

Download this Genome Data: [Browser] [Text] [Excel]

Find Genomes by Phylum:

Select Genus by Alphabet: A|B|C|D|E|F|G|H|I|J|K|L|M|N|O|P|Q|R|S|T|U|V|W|X|Y|Z

There are 2123 genomes representing 539 taxa (excluding 'NonOralRef' and 'Dropped'). Showing 2123 rows.

Reload Table with Original Sorting:  Search This Table:  All Fields

SEQ-ID	TaxID	Genus	Species	Strain/Culture	Contigs	Combined Length	GC(%)	Genome Info and Tools			Annotations		
SEQF1895	HMT-542	<i>Peptostreptococcus</i>	<i>anaerobius</i>	VPI 4330, ATCC 27337	91	1,988,451	36.50	Taxon Info	Genome Info	Genome Viewer	BLAST	PROKKA	NCBI
SEQF1393	HMT-112	<i>Peptostreptococcus</i>	<i>stomatitis</i>	DSM 17678, W2278	74	1,988,044	36.66	Taxon Info	Genome Info	Genome Viewer	BLAST	PROKKA	NCBI
SEQF1646	HMT-272	<i>Phocaeicola</i>	<i>abscessus</i>	F0290	30	2,502,741	47.68	Taxon Info	Genome Info	Genome Viewer	BLAST	PROKKA	NCBI
SEQF2160	HMT-547	<i>Porphyromonas</i>	<i>asaccharolytica</i>	DSM 20707	1	2,186,370	52.47	Taxon Info	Genome Info	Genome Viewer	BLAST	PROKKA	NCBI
SEQF2145	HMT-547	<i>Porphyromonas</i>	<i>asaccharolytica</i>	PR426713P-I	58	2,199,119	52.32	Taxon Info	Genome Info	Genome Viewer	BLAST	PROKKA	NCBI
SEQF2632	HMT-283	<i>Porphyromonas</i>	<i>catoniae</i>	ATCC 51270	25	2,040,170	51	Taxon Info	Genome Info	Genome Viewer	BLAST	PROKKA	NCBI
SEQF1936	HMT-283	<i>Porphyromonas</i>	<i>catoniae</i>	F0037	18	2,101,485	50.99	Taxon Info	Genome Info	Genome Viewer	BLAST	PROKKA	NCBI
SEQF1033	HMT-273	<i>Porphyromonas</i>	<i>endodontalis</i>	ATCC 35406	37	2,064,508	47.52	Taxon Info	Genome Info	Genome Viewer	BLAST	PROKKA	NCBI

### 2. Taxon abundance and oral microbial ecology

Ecology (Abundance) Pages

Download Options

The following abundance pages show available data with bar charts for the ranks in each taxon name (from domain to species) in the HOMD database. Listed on this page are taxonomic names from domain through genus for the taxa in HOMD. Each name in the table below is a link to a page showing abundance data from the three sources: Eren (2014), Segata (2012), and Dewhirst (not published)

Most abundant taxa for each oral sub-habitat.

Major Species-Level Abundances for Each Oral Site

### 3. Taxon description pages with links to reference sequences & phylogeny

### 4. Jbrowse genome viewer

### 5. Phylogenetic trees built from whole-genome and ribosomal RNA gene information

#### eHOMD Ribosomal Protein Tree Version 9.15

Ribosomal proteins identified from 2,123 genomes in 553 taxa  
Tree constructed on 2022-02-09 using FastTree version 2.1.10.Dist

Preferred Habitat:  
 ● Oral ● Vaginal ● Unassigned  
 ● Nasal ● None Oral/Nasal Reference Genome



### 6. Mouse Oral Microbiome Database

And more! Visit at [homd.org](http://homd.org)

#### Need more information?

##### Contacts:

Generic HOMD information, taxonomy or genomics questions:  
 email Dr. Floyd Dewhirst at [fdewhirst@forsyth.org](mailto:fdewhirst@forsyth.org)

General biological information or questions:  
 email Dr. George Tsute Chen at [tchen@forsyth.org](mailto:tchen@forsyth.org)

Also coming soon:  
 Tools for identifying phage in HOMD genomes  
 Bacterial pangenomes visualized using Anvi'o

Supported by R01-DE016937, "A Foundation for the Oral Microbiome and Metagenome" from the National Institute of Dental and Craniofacial