

FARME DB

Functional Antibiotic Resistance Metagenomic Element Database

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Downloads

- DNA sequences
 - 20,724 FARME DNA sequences in FASTA format downloaded from GenBank for 29 functional metagenomics projects. The file “farme_dna.fa.gz” is in “gzip” format and can be uncompressed using the Linux gzip utility. Windows systems can use the open-source 7zip application (<http://www.7-zip.org/>) to uncompress this file. MacIntosh users can use IZIP for extracting gzip files (<http://www.izip.com/>) or use the OSX native gzip utility in a terminal window.
- Protein sequences
 - 48,178 FARME predicted protein sequences in FASTA format downloaded from GenBank or translated from GenBank DNA sequences for 29 functional metagenomics projects. The file “farme_protein.fa.gz” is in “gzip” format and can be uncompressed using gzip utilities (See uncompressing gzip files above).
 - Included in this file are ~ 11,000 protein sequences translated from GenBank DNA sequences using MetaGeneMark software. The FASTA header of each MetaGeneMark predicted protein contains a FARME DB id number followed by the GenBank DNA sequence accession number of the DNA sequence it was derived from followed by the GenBank DNA description.
- Hidden Markov Models
 - 42,893 predicted hidden Markov models (HMMS) in both Microsoft Excel format and tab-delimited format found within FARME protein sequences for 29 functional metagenomics projects. The files “HMMS.xlsx.gz” and “HMMS.tab.gz” are in “gzip” format and can be uncompressed using gzip utilities (See uncompressing gzip files above). These identical files contain the following fields:
 - Clone resistance AR category – the clone was selected by resistance to this antibiotic category
 - GenBank DNA and protein accession numbers for this clone.
 - Pfam 29.0 and Resfams 1.1 HMM model names, accession numbers, descriptions and sources.
 - Antibiotic resistance, transcriptional regulator and mobile genetic element models found in FARME protein sequences.

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