

## Supplemental Table 2: Information about Prophan Settings

### a. general information

job name: Sample A  
job comment:  
start time: 2019-03-14 21:15:41  
end time: 2019-03-14 21:15:47

### b. program versions

prophane: 3.1.4

### c. input

protein report (Scaffold): 190201\_ProteinReport\_C1.xls  
report style: scaffold\_4\_8\_x.yaml  
sequence data:  
- 181029\_Sputum-DB\_A\_Linux\_NR.fasta  
taxonomic data: None

### d. sample groups

1  
- ::A\_TR1\_1  
- ::A\_TR2\_1  
3  
- ::A\_TR1\_3  
- ::A\_TR2\_3

### e. tasks

task: 0  
task comment: tax\_from\_trembl\_20180808\_qcover90  
algorithm: diamond blastp  
query: sequences without taxonomic classification  
(missing\_taxa.faa)  
database: Uniprot Trembl database  
database version: 2018-08-08  
database comment: downloaded at 2018-08-08  
database scope: tax  
parameter:  
- evaluate 0.01  
- query-cover 0.9  
- max-target-seqs 1

task: 1  
task comment: fun\_from\_TIGRFAMs\_15\_cut\_tc  
algorithm: hmmscan  
query: all sequences (all.faa)  
database: Tigrfams  
database version: 15.0  
database comment: downloaded at 2018-07-29  
database scope: func  
parameter:  
- evaluate 0.01  
- cut cut\_tc

task: 2  
task comment: fun\_from\_PFAMs\_31\_cut\_ga  
algorithm: hmmscan  
query: all sequences (all.faa)  
database: Pfam-A  
database version: 31  
database comment: downloaded at 2018-07-29  
database scope: func  
parameter:  
- evaluate 0.01  
- cut cut\_tc

task: 3  
task comment: fun\_from\_eggNog\_4.5.1  
algorithm: emapper  
query: all sequences (all.faa)  
database: eggmap database  
database version: 4.5.1  
database comment: includes euk, viruses, bakt, arch; downloaded  
at 2018-07-31  
database scope: func  
parameter:  
- m diamond