



Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly with annotated starts, the track will be further scaled to only show that region of the ORF with annotated starts. This action will be indicated by adding "Zoomed" to the title. For starts, yellow indicates the location of called starts comprised solely of Glimmer/GeneMark auto-annotations, green indicates the location of called starts with at least 1 manual gene annotation.

Pham 311974 Report

This analysis was run 06/27/26 on database version 652.

Pham number 311974 has 24 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Snape_56, TinyTimmy_56, Munch_57, Petersenfast_55, Gilberta_57, Aneem_57, Joselito_57, Salz_55, Lucivia_57, Flaverint_57, Orange_56, Et2Brutus_55, Bowtie_57, Jabith_57, Wolpertinger_55, Insomnia_57, Timothy_56, Mabel_56, Sham4_56, Mulciber_56
- Track 2 : Bachome_58, MaCh_57
- Track 3 : Phlei_46
- Track 4 : Saintus_50

Summary of Final Annotations (See graph section above for start numbers):

The start number called the most often in the published annotations is 1, it was called in 20 of the 21 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Aneem_57, Bachome_58, Bowtie_57, Et2Brutus_55, Flaverint_57, Gilberta_57, Insomnia_57, Jabith_57, Joselito_57, Lucivia_57, MaCh_57, Mabel_56, Mulciber_56, Munch_57, Orange_56, Petersenfast_55, Phlei_46, Salz_55, Sham4_56, Snape_56, Timothy_56, TinyTimmy_56, Wolpertinger_55,

Genes that have the "Most Annotated" start but do not call it:

-

Genes that do not have the "Most Annotated" start:

- Saintus_50,

Summary by start number:

Start 1:

- Found in 23 of 24 (95.8%) of genes in pham
- Manual Annotations of this start: 20 of 21
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aneem_57 (A11), Bachome_58 (A11), Bowtie_57 (A11), Et2Brutus_55 (A11), Flaverint_57 (A11), Gilberta_57 (A11), Insomnia_57 (A11), Jabith_57 (A11), Joselito_57 (A11), Lucivia_57 (A11), MaCh_57

(A11), Mabel_56 (A11), Mulciber_56 (A11), Munch_57 (A11), Orange_56 (A11), Petersenfast_55 (A11), Phlei_46 (A13), Salz_55 (A11), Sham4_56 (A11), Snape_56 (A11), Timothy_56 (A11), TinyTimmy_56 (A11), Wolpertinger_55 (A11),

Start 2:

- Found in 1 of 24 (4.2%) of genes in pham
- Manual Annotations of this start: 1 of 21
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Saintus_50 (A8),

Summary by clusters:

There are 3 clusters represented in this pham: A8, A11, A13,

Info for manual annotations of cluster A11:

- Start number 1 was manually annotated 20 times for cluster A11.

Info for manual annotations of cluster A8:

- Start number 2 was manually annotated 1 time for cluster A8.

Gene Information:

Gene: Aneem_57 Start: 37514, Stop: 37116, Start Num: 1

Candidate Starts for Aneem_57:

(Start: 1 @37514 has 20 MA's), (3, 37502), (8, 37265), (9, 37253), (10, 37250),

Gene: Bachome_58 Start: 37494, Stop: 37096, Start Num: 1

Candidate Starts for Bachome_58:

(Start: 1 @37494 has 20 MA's), (3, 37482), (8, 37245), (9, 37233),

Gene: Bowtie_57 Start: 37521, Stop: 37123, Start Num: 1

Candidate Starts for Bowtie_57:

(Start: 1 @37521 has 20 MA's), (3, 37509), (8, 37272), (9, 37260), (10, 37257),

Gene: Et2Brutus_55 Start: 37048, Stop: 36650, Start Num: 1

Candidate Starts for Et2Brutus_55:

(Start: 1 @37048 has 20 MA's), (3, 37036), (8, 36799), (9, 36787), (10, 36784),

Gene: Flaverint_57 Start: 37512, Stop: 37114, Start Num: 1

Candidate Starts for Flaverint_57:

(Start: 1 @37512 has 20 MA's), (3, 37500), (8, 37263), (9, 37251), (10, 37248),

Gene: Gilberta_57 Start: 37505, Stop: 37107, Start Num: 1

Candidate Starts for Gilberta_57:

(Start: 1 @37505 has 20 MA's), (3, 37493), (8, 37256), (9, 37244), (10, 37241),

Gene: Insomnia_57 Start: 37565, Stop: 37167, Start Num: 1

Candidate Starts for Insomnia_57:

(Start: 1 @37565 has 20 MA's), (3, 37553), (8, 37316), (9, 37304), (10, 37301),

Gene: Jabith_57 Start: 37566, Stop: 37168, Start Num: 1
Candidate Starts for Jabith_57:
(Start: 1 @37566 has 20 MA's), (3, 37554), (8, 37317), (9, 37305), (10, 37302),

Gene: Joselito_57 Start: 37514, Stop: 37116, Start Num: 1
Candidate Starts for Joselito_57:
(Start: 1 @37514 has 20 MA's), (3, 37502), (8, 37265), (9, 37253), (10, 37250),

Gene: Lucivia_57 Start: 37563, Stop: 37165, Start Num: 1
Candidate Starts for Lucivia_57:
(Start: 1 @37563 has 20 MA's), (3, 37551), (8, 37314), (9, 37302), (10, 37299),

Gene: MaCh_57 Start: 37493, Stop: 37095, Start Num: 1
Candidate Starts for MaCh_57:
(Start: 1 @37493 has 20 MA's), (3, 37481), (8, 37244), (9, 37232),

Gene: Mabel_56 Start: 37095, Stop: 36697, Start Num: 1
Candidate Starts for Mabel_56:
(Start: 1 @37095 has 20 MA's), (3, 37083), (8, 36846), (9, 36834), (10, 36831),

Gene: Mulciber_56 Start: 37051, Stop: 36653, Start Num: 1
Candidate Starts for Mulciber_56:
(Start: 1 @37051 has 20 MA's), (3, 37039), (8, 36802), (9, 36790), (10, 36787),

Gene: Munch_57 Start: 37514, Stop: 37116, Start Num: 1
Candidate Starts for Munch_57:
(Start: 1 @37514 has 20 MA's), (3, 37502), (8, 37265), (9, 37253), (10, 37250),

Gene: Orange_56 Start: 37063, Stop: 36665, Start Num: 1
Candidate Starts for Orange_56:
(Start: 1 @37063 has 20 MA's), (3, 37051), (8, 36814), (9, 36802), (10, 36799),

Gene: Petersenfast_55 Start: 37062, Stop: 36664, Start Num: 1
Candidate Starts for Petersenfast_55:
(Start: 1 @37062 has 20 MA's), (3, 37050), (8, 36813), (9, 36801), (10, 36798),

Gene: Phlei_46 Start: 37634, Stop: 37167, Start Num: 1
Candidate Starts for Phlei_46:
(Start: 1 @37634 has 20 MA's), (3, 37625), (5, 37421), (6, 37415), (7, 37400), (11, 37343), (12, 37283),
(13, 37271),

Gene: Saintus_50 Start: 33275, Stop: 32889, Start Num: 2
Candidate Starts for Saintus_50:
(Start: 2 @33275 has 1 MA's), (4, 33230),

Gene: Salz_55 Start: 37033, Stop: 36635, Start Num: 1
Candidate Starts for Salz_55:
(Start: 1 @37033 has 20 MA's), (3, 37021), (8, 36784), (9, 36772), (10, 36769),

Gene: Sham4_56 Start: 37061, Stop: 36663, Start Num: 1
Candidate Starts for Sham4_56:
(Start: 1 @37061 has 20 MA's), (3, 37049), (8, 36812), (9, 36800), (10, 36797),

Gene: Snape_56 Start: 37053, Stop: 36655, Start Num: 1

Candidate Starts for Snape_56:

(Start: 1 @37053 has 20 MA's), (3, 37041), (8, 36804), (9, 36792), (10, 36789),

Gene: Timothy_56 Start: 37030, Stop: 36632, Start Num: 1

Candidate Starts for Timothy_56:

(Start: 1 @37030 has 20 MA's), (3, 37018), (8, 36781), (9, 36769), (10, 36766),

Gene: TinyTimmy_56 Start: 37079, Stop: 36681, Start Num: 1

Candidate Starts for TinyTimmy_56:

(Start: 1 @37079 has 20 MA's), (3, 37067), (8, 36830), (9, 36818), (10, 36815),

Gene: Wolpertinger_55 Start: 37062, Stop: 36664, Start Num: 1

Candidate Starts for Wolpertinger_55:

(Start: 1 @37062 has 20 MA's), (3, 37050), (8, 36813), (9, 36801), (10, 36798),