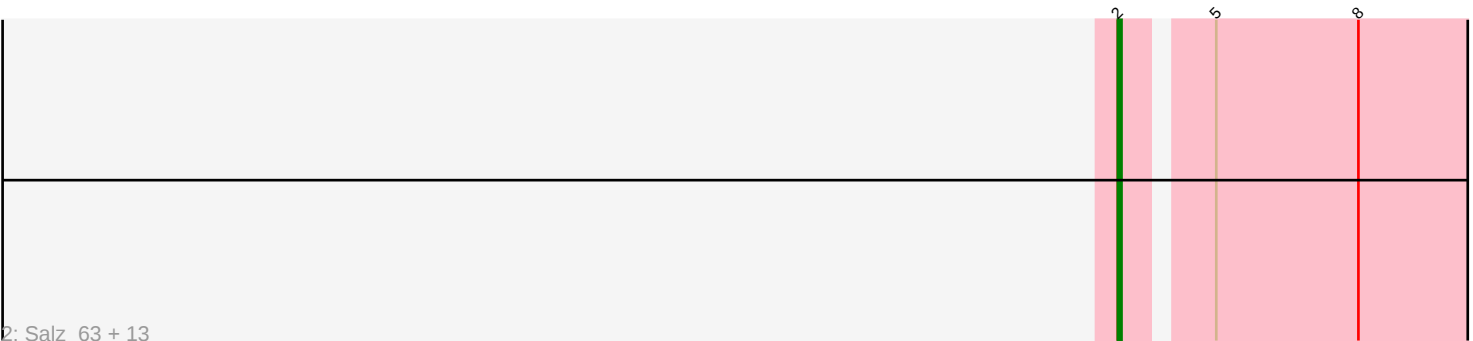
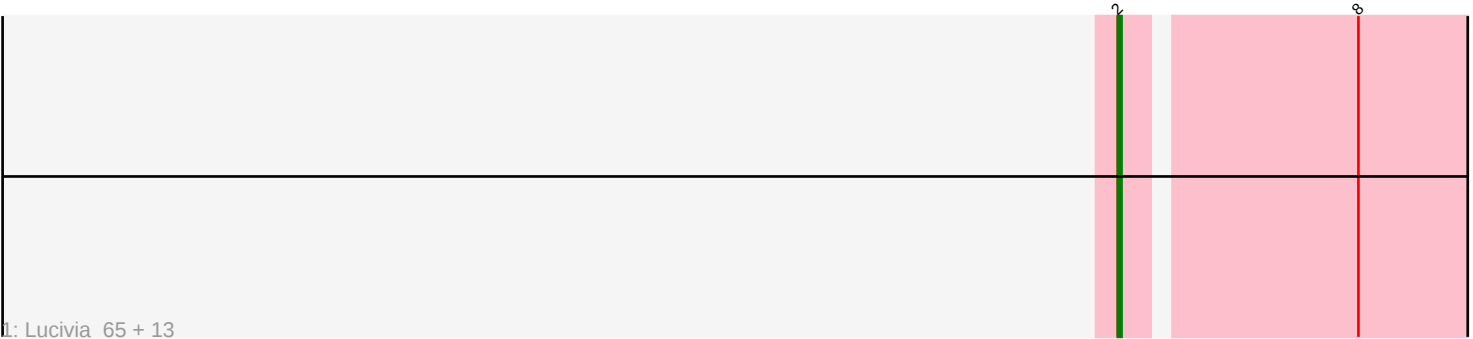




Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly 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 261702 Report

This analysis was run 02/07/26 on database version 634.

Pham number 261702 has 30 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Lucivia_65, Flaverint_65, Orange_63, Saskia_64, Bachome_66, Petersenfast_62, MaCh_64, Bowtie_65, Sham4_64, Timothy_64, Snape_64, Wolpertinger_62, Gilberta_65, Mabel_64
- Track 2 : Salz_63, Fibonacci_64, Jabith_65, Hutc2_63, Mulciber_63, Ebony_64, TinyTimmy_64, Kimba_63, Munch_64, Et2Brutus_63, Aneem_65, Insomnia_65, Bud_63, Joselito_65
- Track 3 : Che12_68
- Track 4 : Serenity_68

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

The start number called the most often in the published annotations is 2, it was called in 24 of the 26 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Aneem_65, Bachome_66, Bowtie_65, Bud_63, Ebony_64, Et2Brutus_63, Fibonacci_64, Flaverint_65, Gilberta_65, Hutc2_63, Insomnia_65, Jabith_65, Joselito_65, Kimba_63, Lucivia_65, MaCh_64, Mabel_64, Mulciber_63, Munch_64, Orange_63, Petersenfast_62, Salz_63, Saskia_64, Sham4_64, Snape_64, Timothy_64, TinyTimmy_64, Wolpertinger_62,

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

- Che12_68, Serenity_68,

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

•

Summary by start number:

Start 2:

- Found in 30 of 30 (100.0%) of genes in pham
- Manual Annotations of this start: 24 of 26
- Called 93.3% of time when present

- Phage (with cluster) where this start called: Aneem_65 (A11), Bachome_66 (A11), Bowtie_65 (A11), Bud_63 (A11), Ebony_64 (A11), Et2Brutus_63 (A11), Fibonacci_64 (A11), Flaverint_65 (A11), Gilberta_65 (A11), Hutc2_63 (A11), Insomnia_65 (A11), Jabith_65 (A11), Joselito_65 (A11), Kimba_63 (A11), Lucivia_65 (A11), MaCh_64 (A11), Mabel_64 (A11), Mulciber_63 (A11), Munch_64 (A11), Orange_63 (A11), Petersenfast_62 (A11), Salz_63 (A11), Saskia_64 (A11), Sham4_64 (A11), Snape_64 (A11), Timothy_64 (A11), TinyTimmy_64 (A11), Wolpertinger_62 (A11),

Start 3:

- Found in 2 of 30 (6.7%) of genes in pham
- Manual Annotations of this start: 1 of 26
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Che12_68 (A2),

Start 4:

- Found in 1 of 30 (3.3%) of genes in pham
- Manual Annotations of this start: 1 of 26
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Serenity_68 (A2),

Summary by clusters:

There are 2 clusters represented in this pham: A2, A11,

Info for manual annotations of cluster A11:

- Start number 2 was manually annotated 24 times for cluster A11.

Info for manual annotations of cluster A2:

- Start number 3 was manually annotated 1 time for cluster A2.
- Start number 4 was manually annotated 1 time for cluster A2.

Gene Information:

Gene: Aneem_65 Start: 39928, Stop: 39827, Start Num: 2

Candidate Starts for Aneem_65:

(Start: 2 @39928 has 24 MA's), (5, 39907), (8, 39868),

Gene: Bachome_66 Start: 39908, Stop: 39807, Start Num: 2

Candidate Starts for Bachome_66:

(Start: 2 @39908 has 24 MA's), (8, 39848),

Gene: Bowtie_65 Start: 39935, Stop: 39834, Start Num: 2

Candidate Starts for Bowtie_65:

(Start: 2 @39935 has 24 MA's), (8, 39875),

Gene: Bud_63 Start: 39482, Stop: 39381, Start Num: 2

Candidate Starts for Bud_63:

(Start: 2 @39482 has 24 MA's), (5, 39461), (8, 39422),

Gene: Che12_68 Start: 39665, Stop: 39570, Start Num: 3

Candidate Starts for Che12_68:

(Start: 2 @39674 has 24 MA's), (Start: 3 @39665 has 1 MA's), (6, 39644),

Gene: Ebony_64 Start: 39499, Stop: 39398, Start Num: 2

Candidate Starts for Ebony_64:

(Start: 2 @39499 has 24 MA's), (5, 39478), (8, 39439),

Gene: Et2Brutus_63 Start: 39462, Stop: 39361, Start Num: 2

Candidate Starts for Et2Brutus_63:

(Start: 2 @39462 has 24 MA's), (5, 39441), (8, 39402),

Gene: Fibonacci_64 Start: 39468, Stop: 39367, Start Num: 2

Candidate Starts for Fibonacci_64:

(Start: 2 @39468 has 24 MA's), (5, 39447), (8, 39408),

Gene: Flaverint_65 Start: 39926, Stop: 39825, Start Num: 2

Candidate Starts for Flaverint_65:

(Start: 2 @39926 has 24 MA's), (8, 39866),

Gene: Gilberta_65 Start: 39919, Stop: 39818, Start Num: 2

Candidate Starts for Gilberta_65:

(Start: 2 @39919 has 24 MA's), (8, 39859),

Gene: Hutc2_63 Start: 39468, Stop: 39367, Start Num: 2

Candidate Starts for Hutc2_63:

(Start: 2 @39468 has 24 MA's), (5, 39447), (8, 39408),

Gene: Insomnia_65 Start: 39979, Stop: 39878, Start Num: 2

Candidate Starts for Insomnia_65:

(Start: 2 @39979 has 24 MA's), (5, 39958), (8, 39919),

Gene: Jabith_65 Start: 39980, Stop: 39879, Start Num: 2

Candidate Starts for Jabith_65:

(Start: 2 @39980 has 24 MA's), (5, 39959), (8, 39920),

Gene: Joselito_65 Start: 39928, Stop: 39827, Start Num: 2

Candidate Starts for Joselito_65:

(Start: 2 @39928 has 24 MA's), (5, 39907), (8, 39868),

Gene: Kimba_63 Start: 39500, Stop: 39399, Start Num: 2

Candidate Starts for Kimba_63:

(Start: 2 @39500 has 24 MA's), (5, 39479), (8, 39440),

Gene: Lucivia_65 Start: 39977, Stop: 39876, Start Num: 2

Candidate Starts for Lucivia_65:

(Start: 2 @39977 has 24 MA's), (8, 39917),

Gene: MaCh_64 Start: 39907, Stop: 39806, Start Num: 2

Candidate Starts for MaCh_64:

(Start: 2 @39907 has 24 MA's), (8, 39847),

Gene: Mabel_64 Start: 39924, Stop: 39823, Start Num: 2

Candidate Starts for Mabel_64:

(Start: 2 @39924 has 24 MA's), (8, 39864),

Gene: Mulciber_63 Start: 39465, Stop: 39364, Start Num: 2
Candidate Starts for Mulciber_63:
(Start: 2 @39465 has 24 MA's), (5, 39444), (8, 39405),

Gene: Munch_64 Start: 39928, Stop: 39827, Start Num: 2
Candidate Starts for Munch_64:
(Start: 2 @39928 has 24 MA's), (5, 39907), (8, 39868),

Gene: Orange_63 Start: 39477, Stop: 39376, Start Num: 2
Candidate Starts for Orange_63:
(Start: 2 @39477 has 24 MA's), (8, 39417),

Gene: Petersenfast_62 Start: 39476, Stop: 39375, Start Num: 2
Candidate Starts for Petersenfast_62:
(Start: 2 @39476 has 24 MA's), (8, 39416),

Gene: Salz_63 Start: 39447, Stop: 39346, Start Num: 2
Candidate Starts for Salz_63:
(Start: 2 @39447 has 24 MA's), (5, 39426), (8, 39387),

Gene: Saskia_64 Start: 39475, Stop: 39374, Start Num: 2
Candidate Starts for Saskia_64:
(Start: 2 @39475 has 24 MA's), (8, 39415),

Gene: Serenity_68 Start: 40371, Stop: 40282, Start Num: 4
Candidate Starts for Serenity_68:
(1, 40662), (Start: 2 @40389 has 24 MA's), (Start: 3 @40380 has 1 MA's), (Start: 4 @40371 has 1 MA's), (7, 40344),

Gene: Sham4_64 Start: 39475, Stop: 39374, Start Num: 2
Candidate Starts for Sham4_64:
(Start: 2 @39475 has 24 MA's), (8, 39415),

Gene: Snape_64 Start: 39467, Stop: 39366, Start Num: 2
Candidate Starts for Snape_64:
(Start: 2 @39467 has 24 MA's), (8, 39407),

Gene: Timothy_64 Start: 39444, Stop: 39343, Start Num: 2
Candidate Starts for Timothy_64:
(Start: 2 @39444 has 24 MA's), (8, 39384),

Gene: TinyTimmy_64 Start: 39493, Stop: 39392, Start Num: 2
Candidate Starts for TinyTimmy_64:
(Start: 2 @39493 has 24 MA's), (5, 39472), (8, 39433),

Gene: Wolpertinger_62 Start: 39476, Stop: 39375, Start Num: 2
Candidate Starts for Wolpertinger_62:
(Start: 2 @39476 has 24 MA's), (8, 39416),