

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 216637 Report

This analysis was run 02/22/25 on database version 588.

Pham number 216637 has 17 members, 3 are drafts.

Phages represented in each track:

- Track 1: Rialto 74, Emmaloid 70, Slim 70
- Track 2: JoeyJr_65, Daenerys_64, PHappiness_65, Spoonbill_68
- Track 3 : Mahavrat_64, Grimmer_77
- Track 4 : DaWorst 68
- Track 5 : OwlsT2W 69
- Track 6: Ruby_63, Girr_65, MisterCuddles_65, Alexphander_71
- Track 7 : Harley_71
- Track 8 : Renaud18_79

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

The start number called the most often in the published annotations is 9, it was called in 5 of the 14 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

• Daenerys_64, JoeyJr_65, PHappiness_65, Renaud18_79, Spoonbill_68,

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

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

Alexphander_71, DaWorst_68, Emmaloid_70, Girr_65, Grimmer_77, Harley_71, Mahavrat_64, MisterCuddles_65, OwlsT2W_69, Rialto_74, Ruby_63, Slim_70,

Summary by start number:

Start 5:

- Found in 5 of 17 (29.4%) of genes in pham
- Manual Annotations of this start: 5 of 14
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Alexphander_71 (F1), DaWorst_68 (F1), Girr_65 (F1), MisterCuddles_65 (F1), Ruby_63 (F1),

Start 6:

- Found in 3 of 17 (17.6%) of genes in pham
- Manual Annotations of this start: 1 of 14
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Emmaloid_70 (F1), Rialto_74 (F1), Slim_70 (F1),

Start 8:

- Found in 12 of 17 (70.6%) of genes in pham
- Manual Annotations of this start: 3 of 14
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Grimmer_77 (F1), Harley_71 (F1), Mahavrat 64 (F1), OwlsT2W 69 (F1),

Start 9:

- Found in 5 of 17 (29.4%) of genes in pham
- Manual Annotations of this start: 5 of 14
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Daenerys_64 (F1), JoeyJr_65 (F1), PHappiness_65 (F1), Renaud18_79 (F4), Spoonbill_68 (F1),

Summary by clusters:

There are 2 clusters represented in this pham: F1, F4,

Info for manual annotations of cluster F1:

- •Start number 5 was manually annotated 5 times for cluster F1.
- •Start number 6 was manually annotated 1 time for cluster F1.
- •Start number 8 was manually annotated 3 times for cluster F1.
- •Start number 9 was manually annotated 4 times for cluster F1.

Info for manual annotations of cluster F4:

•Start number 9 was manually annotated 1 time for cluster F4.

Gene Information:

Gene: Alexphander_71 Start: 45177, Stop: 45377, Start Num: 5

Candidate Starts for Alexphander_71:

(Start: 5 @45177 has 5 MA's), (Start: 8 @45213 has 3 MA's), (10, 45270), (11, 45357),

Gene: DaWorst 68 Start: 44644, Stop: 44844, Start Num: 5

Candidate Starts for DaWorst 68:

(3, 44554), (4, 44614), (Start: 5 @44644 has 5 MA's), (Start: 8 @44680 has 3 MA's), (10, 44737), (11, 44824),

Gene: Daenerys_64 Start: 43646, Stop: 43810, Start Num: 9

Candidate Starts for Daenerys_64:

(1, 43421), (Start: 9 @ 43646 has 5 MA's), (10, 43703), (11, 43790),

Gene: Emmaloid 70 Start: 44706, Stop: 44894, Start Num: 6

Candidate Starts for Emmaloid 70:

(Start: 6 @ 44706 has 1 MA's), (7, 44715), (Start: 8 @ 44730 has 3 MA's), (10, 44787), (11, 44874),

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Gene: Girr_65 Start: 44587, Stop: 44787, Start Num: 5
Candidate Starts for Girr_65:
(Start: 5 @ 44587 has 5 MA's), (Start: 8 @ 44623 has 3 MA's), (10, 44680), (11, 44767),
Gene: Grimmer 77 Start: 45506, Stop: 45670, Start Num: 8
Candidate Starts for Grimmer_77:
(1, 45284), (Start: 8 @ 45506 has 3 MA's), (10, 45563), (11, 45650),
Gene: Harley_71 Start: 45252, Stop: 45416, Start Num: 8
Candidate Starts for Harley 71:
(1, 45030), (Start: 8 @ 45252 has 3 MA's), (10, 45309), (11, 45396),
Gene: JoeyJr_65 Start: 43814, Stop: 43978, Start Num: 9
Candidate Starts for JoeyJr_65:
(1, 43589), (Start: 9 @43814 has 5 MA's), (10, 43871), (11, 43958),
Gene: Mahavrat_64 Start: 43075, Stop: 43239, Start Num: 8
Candidate Starts for Mahavrat 64:
(1, 42853), (Start: 8 @ 43075 has 3 MA's), (10, 43132), (11, 43219),
Gene: MisterCuddles 65 Start: 44587, Stop: 44787, Start Num: 5
Candidate Starts for MisterCuddles 65:
(Start: 5 @44587 has 5 MA's), (Start: 8 @44623 has 3 MA's), (10, 44680), (11, 44767),
Gene: OwlsT2W_69 Start: 44736, Stop: 44900, Start Num: 8
Candidate Starts for OwlsT2W_69:
(1, 44514), (2, 44517), (Start: 8 @ 44736 has 3 MA's), (10, 44793), (11, 44880),
Gene: PHappiness 65 Start: 43590, Stop: 43754, Start Num: 9
Candidate Starts for PHappiness_65:
(1, 43365), (Start: 9 @ 43590 has 5 MA's), (10, 43647), (11, 43734),
Gene: Renaud18 79 Start: 46542, Stop: 46706, Start Num: 9
Candidate Starts for Renaud18 79:
(1, 46317), (2, 46320), (Start: 9 @46542 has 5 MA's), (10, 46599), (11, 46686),
Gene: Rialto_74 Start: 46079, Stop: 46267, Start Num: 6
Candidate Starts for Rialto 74:
(Start: 6 @ 46079 has 1 MA's), (7, 46088), (Start: 8 @ 46103 has 3 MA's), (10, 46160), (11, 46247),
Gene: Ruby_63 Start: 44588, Stop: 44788, Start Num: 5
Candidate Starts for Ruby 63:
(Start: 5 @ 44588 has 5 MA's), (Start: 8 @ 44624 has 3 MA's), (10, 44681), (11, 44768),
Gene: Slim_70 Start: 44697, Stop: 44885, Start Num: 6
Candidate Starts for Slim 70:
(Start: 6 @ 44697 has 1 MA's), (7, 44706), (Start: 8 @ 44721 has 3 MA's), (10, 44778), (11, 44865),
Gene: Spoonbill 68 Start: 43661, Stop: 43825, Start Num: 9
Candidate Starts for Spoonbill_68:
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(1, 43436), (Start: 9 @ 43661 has 5 MA's), (10, 43718), (11, 43805),