



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 160749 Report

This analysis was run 04/28/24 on database version 559.

Pham number 160749 has 21 members, 5 are drafts.

Phages represented in each track:

- Track 1 : Xerxes_22, Bosection6_22, Melville_22, Journey_23, Silvy_22, Parmesanjohn_22, Magsby_22, Duplicity_22, Gex_22, Chewbacca_22, Silvafighter_22, LilSpotty_25, Schnauzer_22, Smurph_22, MulchSalad_20, Tapioca_22
- Track 2 : Carcharodon_22, Aggie_22, Charlie_22, Pipsqueaks_22, Philonius_22

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

The start number called the most often in the published annotations is 4, it was called in 11 of the 16 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Bosection6_22, Chewbacca_22, Duplicity_22, Gex_22, Journey_23, LilSpotty_25, Magsby_22, Melville_22, MulchSalad_20, Parmesanjohn_22, Schnauzer_22, Silvafighter_22, Silvy_22, Smurph_22, Tapioca_22, Xerxes_22,

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

- Aggie_22, Carcharodon_22, Charlie_22, Philonius_22, Pipsqueaks_22,

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

-

Summary by start number:

Start 3:

- Found in 21 of 21 (100.0%) of genes in pham
- Manual Annotations of this start: 5 of 16
- Called 23.8% of time when present
- Phage (with cluster) where this start called: Aggie_22 (N), Carcharodon_22 (N), Charlie_22 (N), Philonius_22 (N), Pipsqueaks_22 (N),

Start 4:

- Found in 21 of 21 (100.0%) of genes in pham
- Manual Annotations of this start: 11 of 16

- Called 76.2% of time when present
- Phage (with cluster) where this start called: Bosection6_22 (N), Chewbacca_22 (N), Duplicity_22 (N), Gex_22 (N), Journey_23 (N), LilSpotty_25 (singleton), Magsby_22 (N), Melville_22 (N), MulchSalad_20 (F), Parmesanjohn_22 (N), Schnauzer_22 (N), Silvafighter_22 (N), Silvy_22 (N), Smurph_22 (N), Tapioca_22 (N), Xerxes_22 (N),

Summary by clusters:

There are 3 clusters represented in this pham: singleton, F, N,

Info for manual annotations of cluster N:

- Start number 3 was manually annotated 5 times for cluster N.
- Start number 4 was manually annotated 10 times for cluster N.

Gene Information:

Gene: Aggie_22 Start: 20221, Stop: 21438, Start Num: 3

Candidate Starts for Aggie_22:

(1, 19894), (2, 20092), (Start: 3 @20221 has 5 MA's), (Start: 4 @20224 has 11 MA's), (5, 20485), (6, 20656), (7, 20806), (8, 20845), (9, 20947), (10, 20989), (11, 21361),

Gene: Bosection6_22 Start: 20223, Stop: 21437, Start Num: 4

Candidate Starts for Bosection6_22:

(1, 19893), (2, 20091), (Start: 3 @20220 has 5 MA's), (Start: 4 @20223 has 11 MA's), (5, 20484), (6, 20655), (7, 20805), (8, 20844), (9, 20946), (10, 20988), (11, 21360),

Gene: Carcharodon_22 Start: 20220, Stop: 21437, Start Num: 3

Candidate Starts for Carcharodon_22:

(1, 19893), (2, 20091), (Start: 3 @20220 has 5 MA's), (Start: 4 @20223 has 11 MA's), (5, 20484), (6, 20655), (7, 20805), (8, 20844), (9, 20946), (10, 20988), (11, 21360),

Gene: Charlie_22 Start: 20220, Stop: 21437, Start Num: 3

Candidate Starts for Charlie_22:

(1, 19893), (2, 20091), (Start: 3 @20220 has 5 MA's), (Start: 4 @20223 has 11 MA's), (5, 20484), (6, 20655), (7, 20805), (8, 20844), (9, 20946), (10, 20988), (11, 21360),

Gene: Chewbacca_22 Start: 20223, Stop: 21437, Start Num: 4

Candidate Starts for Chewbacca_22:

(1, 19893), (2, 20091), (Start: 3 @20220 has 5 MA's), (Start: 4 @20223 has 11 MA's), (5, 20484), (6, 20655), (7, 20805), (8, 20844), (9, 20946), (10, 20988), (11, 21360),

Gene: Duplicity_22 Start: 20223, Stop: 21437, Start Num: 4

Candidate Starts for Duplicity_22:

(1, 19893), (2, 20091), (Start: 3 @20220 has 5 MA's), (Start: 4 @20223 has 11 MA's), (5, 20484), (6, 20655), (7, 20805), (8, 20844), (9, 20946), (10, 20988), (11, 21360),

Gene: Gex_22 Start: 20219, Stop: 21433, Start Num: 4

Candidate Starts for Gex_22:

(1, 19889), (2, 20087), (Start: 3 @20216 has 5 MA's), (Start: 4 @20219 has 11 MA's), (5, 20480), (6, 20651), (7, 20801), (8, 20840), (9, 20942), (10, 20984), (11, 21356),

Gene: Journey_23 Start: 20223, Stop: 21437, Start Num: 4

Candidate Starts for Journey_23:

(1, 19893), (2, 20091), (Start: 3 @20220 has 5 MA's), (Start: 4 @20223 has 11 MA's), (5, 20484), (6, 20655), (7, 20805), (8, 20844), (9, 20946), (10, 20988), (11, 21360),

Gene: LilSpotty_25 Start: 21191, Stop: 22405, Start Num: 4

Candidate Starts for LilSpotty_25:

(1, 20861), (2, 21059), (Start: 3 @21188 has 5 MA's), (Start: 4 @21191 has 11 MA's), (5, 21452), (6, 21623), (7, 21773), (8, 21812), (9, 21914), (10, 21956), (11, 22328),

Gene: Magsby_22 Start: 20220, Stop: 21434, Start Num: 4

Candidate Starts for Magsby_22:

(1, 19890), (2, 20088), (Start: 3 @20217 has 5 MA's), (Start: 4 @20220 has 11 MA's), (5, 20481), (6, 20652), (7, 20802), (8, 20841), (9, 20943), (10, 20985), (11, 21357),

Gene: Melville_22 Start: 20223, Stop: 21437, Start Num: 4

Candidate Starts for Melville_22:

(1, 19893), (2, 20091), (Start: 3 @20220 has 5 MA's), (Start: 4 @20223 has 11 MA's), (5, 20484), (6, 20655), (7, 20805), (8, 20844), (9, 20946), (10, 20988), (11, 21360),

Gene: MulchSalad_20 Start: 19992, Stop: 21206, Start Num: 4

Candidate Starts for MulchSalad_20:

(1, 19662), (2, 19860), (Start: 3 @19989 has 5 MA's), (Start: 4 @19992 has 11 MA's), (5, 20253), (6, 20424), (7, 20574), (8, 20613), (9, 20715), (10, 20757), (11, 21129),

Gene: Parmesanjohn_22 Start: 20223, Stop: 21437, Start Num: 4

Candidate Starts for Parmesanjohn_22:

(1, 19893), (2, 20091), (Start: 3 @20220 has 5 MA's), (Start: 4 @20223 has 11 MA's), (5, 20484), (6, 20655), (7, 20805), (8, 20844), (9, 20946), (10, 20988), (11, 21360),

Gene: Philonius_22 Start: 20220, Stop: 21437, Start Num: 3

Candidate Starts for Philonius_22:

(1, 19893), (2, 20091), (Start: 3 @20220 has 5 MA's), (Start: 4 @20223 has 11 MA's), (5, 20484), (6, 20655), (7, 20805), (8, 20844), (9, 20946), (10, 20988), (11, 21360),

Gene: Pipsqueaks_22 Start: 20220, Stop: 21437, Start Num: 3

Candidate Starts for Pipsqueaks_22:

(1, 19893), (2, 20091), (Start: 3 @20220 has 5 MA's), (Start: 4 @20223 has 11 MA's), (5, 20484), (6, 20655), (7, 20805), (8, 20844), (9, 20946), (10, 20988), (11, 21360),

Gene: Schnauzer_22 Start: 20223, Stop: 21437, Start Num: 4

Candidate Starts for Schnauzer_22:

(1, 19893), (2, 20091), (Start: 3 @20220 has 5 MA's), (Start: 4 @20223 has 11 MA's), (5, 20484), (6, 20655), (7, 20805), (8, 20844), (9, 20946), (10, 20988), (11, 21360),

Gene: Silvafighter_22 Start: 20223, Stop: 21437, Start Num: 4

Candidate Starts for Silvafighter_22:

(1, 19893), (2, 20091), (Start: 3 @20220 has 5 MA's), (Start: 4 @20223 has 11 MA's), (5, 20484), (6, 20655), (7, 20805), (8, 20844), (9, 20946), (10, 20988), (11, 21360),

Gene: Silvy_22 Start: 20224, Stop: 21438, Start Num: 4

Candidate Starts for Silvy_22:

(1, 19894), (2, 20092), (Start: 3 @20221 has 5 MA's), (Start: 4 @20224 has 11 MA's), (5, 20485), (6, 20656), (7, 20806), (8, 20845), (9, 20947), (10, 20989), (11, 21361),

Gene: Smurph_22 Start: 20223, Stop: 21437, Start Num: 4

Candidate Starts for Smurph_22:

(1, 19893), (2, 20091), (Start: 3 @20220 has 5 MA's), (Start: 4 @20223 has 11 MA's), (5, 20484), (6, 20655), (7, 20805), (8, 20844), (9, 20946), (10, 20988), (11, 21360),

Gene: Tapioca_22 Start: 20223, Stop: 21437, Start Num: 4

Candidate Starts for Tapioca_22:

(1, 19893), (2, 20091), (Start: 3 @20220 has 5 MA's), (Start: 4 @20223 has 11 MA's), (5, 20484), (6, 20655), (7, 20805), (8, 20844), (9, 20946), (10, 20988), (11, 21360),

Gene: Xerxes_22 Start: 20220, Stop: 21434, Start Num: 4

Candidate Starts for Xerxes_22:

(1, 19890), (2, 20088), (Start: 3 @20217 has 5 MA's), (Start: 4 @20220 has 11 MA's), (5, 20481), (6, 20652), (7, 20802), (8, 20841), (9, 20943), (10, 20985), (11, 21357),