



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 158245 Report

This analysis was run 04/13/24 on database version 558.

Pham number 158245 has 16 members, 5 are drafts.

Phages represented in each track:

- Track 1 : GTE7_11, Austin_20, HayZem_19, Amore2_20, GMA7_11
- Track 2 : Kvothe_18, Katyusha_18, Teech_18, Demosthenes_18, Niagara_18, Tredge_18, ASerpRocky_18, Hollow_18, Benczkowski14_18, Teatealatte_18
- Track 3 : Philon9_20

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

The start number called the most often in the published annotations is 5, it was called in 9 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- ASerpRocky_18, Benczkowski14_18, Demosthenes_18, Hollow_18, Katyusha_18, Kvothe_18, Niagara_18, Philon9_20, Teatealatte_18, Teech_18, Tredge_18,

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

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

- Amore2_20, Austin_20, GMA7_11, GTE7_11, HayZem_19,

Summary by start number:

Start 5:

- Found in 11 of 16 (68.8%) of genes in pham
- Manual Annotations of this start: 9 of 11
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ASerpRocky_18 (CS4), Benczkowski14_18 (CS4), Demosthenes_18 (CS4), Hollow_18 (CS4), Katyusha_18 (CS4), Kvothe_18 (CS4), Niagara_18 (CS4), Philon9_20 (CS4), Teatealatte_18 (CS4), Teech_18 (CS4), Tredge_18 (CS4),

Start 6:

- Found in 5 of 16 (31.2%) of genes in pham
- Manual Annotations of this start: 2 of 11

- Called 100.0% of time when present
- Phage (with cluster) where this start called: Amore2_20 (CS1), Austin_20 (CS1), GMA7_11 (CS1), GTE7_11 (CS1), HayZem_19 (CS1),

Summary by clusters:

There are 2 clusters represented in this pham: CS4, CS1,

Info for manual annotations of cluster CS1:

- Start number 6 was manually annotated 2 times for cluster CS1.

Info for manual annotations of cluster CS4:

- Start number 5 was manually annotated 9 times for cluster CS4.

Gene Information:

Gene: ASerpRocky_18 Start: 18527, Stop: 18817, Start Num: 5

Candidate Starts for ASerpRocky_18:

(4, 18509), (Start: 5 @18527 has 9 MA's), (9, 18680),

Gene: Amore2_20 Start: 16011, Stop: 16268, Start Num: 6

Candidate Starts for Amore2_20:

(Start: 6 @16011 has 2 MA's), (8, 16077),

Gene: Austin_20 Start: 16011, Stop: 16268, Start Num: 6

Candidate Starts for Austin_20:

(Start: 6 @16011 has 2 MA's), (8, 16077),

Gene: Benczkowski14_18 Start: 18609, Stop: 18899, Start Num: 5

Candidate Starts for Benczkowski14_18:

(4, 18591), (Start: 5 @18609 has 9 MA's), (9, 18762),

Gene: Demosthenes_18 Start: 18500, Stop: 18790, Start Num: 5

Candidate Starts for Demosthenes_18:

(4, 18482), (Start: 5 @18500 has 9 MA's), (9, 18653),

Gene: GMA7_11 Start: 10200, Stop: 10454, Start Num: 6

Candidate Starts for GMA7_11:

(Start: 6 @10200 has 2 MA's), (8, 10266),

Gene: GTE7_11 Start: 10259, Stop: 10513, Start Num: 6

Candidate Starts for GTE7_11:

(Start: 6 @10259 has 2 MA's), (8, 10325),

Gene: HayZem_19 Start: 16011, Stop: 16265, Start Num: 6

Candidate Starts for HayZem_19:

(Start: 6 @16011 has 2 MA's), (8, 16077),

Gene: Hollow_18 Start: 17775, Stop: 18065, Start Num: 5

Candidate Starts for Hollow_18:

(4, 17757), (Start: 5 @17775 has 9 MA's), (9, 17928),

Gene: Katyusha_18 Start: 18609, Stop: 18899, Start Num: 5
Candidate Starts for Katyusha_18:
(4, 18591), (Start: 5 @18609 has 9 MA's), (9, 18762),

Gene: Kvothe_18 Start: 18546, Stop: 18836, Start Num: 5
Candidate Starts for Kvothe_18:
(4, 18528), (Start: 5 @18546 has 9 MA's), (9, 18699),

Gene: Niagara_18 Start: 18566, Stop: 18856, Start Num: 5
Candidate Starts for Niagara_18:
(4, 18548), (Start: 5 @18566 has 9 MA's), (9, 18719),

Gene: Philon9_20 Start: 20444, Stop: 20719, Start Num: 5
Candidate Starts for Philon9_20:
(1, 20204), (2, 20240), (3, 20285), (4, 20426), (Start: 5 @20444 has 9 MA's), (7, 20492), (10, 20612),

Gene: Teatealatte_18 Start: 18529, Stop: 18819, Start Num: 5
Candidate Starts for Teatealatte_18:
(4, 18511), (Start: 5 @18529 has 9 MA's), (9, 18682),

Gene: Teech_18 Start: 18330, Stop: 18620, Start Num: 5
Candidate Starts for Teech_18:
(4, 18312), (Start: 5 @18330 has 9 MA's), (9, 18483),

Gene: Tredge_18 Start: 18529, Stop: 18819, Start Num: 5
Candidate Starts for Tredge_18:
(4, 18511), (Start: 5 @18529 has 9 MA's), (9, 18682),