



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 331524 Report

This analysis was run 09/05/26 on database version 662.

Pham number 331524 has 9 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Blueberry_54, Azula_55, Gambino_57, MissRona_55
- Track 2 : Coriander_47, Doggs_44
- Track 3 : DirtyBoi_49
- Track 4 : RayTheFireFly_54
- Track 5 : Chipko_52

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

The start number called the most often in the published annotations is 10, it was called in 4 of the 8 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Azula_55, Blueberry_54, Gambino_57, MissRona_55,

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:

- Chipko_52, Coriander_47, DirtyBoi_49, Doggs_44, RayTheFireFly_54,

Summary by start number:

Start 10:

- Found in 4 of 9 (44.4%) of genes in pham
- Manual Annotations of this start: 4 of 8
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Azula_55 (CV), Blueberry_54 (CV), Gambino_57 (CV), MissRona_55 (CV),

Start 11:

- Found in 5 of 9 (55.6%) of genes in pham
- Manual Annotations of this start: 1 of 8
- Called 40.0% of time when present

- Phage (with cluster) where this start called: Chipko_52 (DB), RayTheFireFly_54 (DB),

Start 12:

- Found in 5 of 9 (55.6%) of genes in pham
- Manual Annotations of this start: 3 of 8
- Called 60.0% of time when present
- Phage (with cluster) where this start called: Coriander_47 (DB), DirtyBoi_49 (DB), Doggs_44 (DB),

Summary by clusters:

There are 2 clusters represented in this pham: DB, CV,

Info for manual annotations of cluster CV:

- Start number 10 was manually annotated 4 times for cluster CV.

Info for manual annotations of cluster DB:

- Start number 11 was manually annotated 1 time for cluster DB.
- Start number 12 was manually annotated 3 times for cluster DB.

Gene Information:

Gene: Azula_55 Start: 38102, Stop: 38458, Start Num: 10

Candidate Starts for Azula_55:

(Start: 10 @38102 has 4 MA's), (15, 38249), (16, 38288), (17, 38291),

Gene: Blueberry_54 Start: 38102, Stop: 38458, Start Num: 10

Candidate Starts for Blueberry_54:

(Start: 10 @38102 has 4 MA's), (15, 38249), (16, 38288), (17, 38291),

Gene: Chipko_52 Start: 36603, Stop: 36950, Start Num: 11

Candidate Starts for Chipko_52:

(9, 36453), (Start: 11 @36603 has 1 MA's), (Start: 12 @36606 has 3 MA's), (13, 36660), (14, 36714), (17, 36780), (18, 36819),

Gene: Coriander_47 Start: 34198, Stop: 34536, Start Num: 12

Candidate Starts for Coriander_47:

(7, 33937), (8, 33940), (9, 34045), (Start: 11 @34195 has 1 MA's), (Start: 12 @34198 has 3 MA's), (13, 34246), (17, 34366), (18, 34405),

Gene: DirtyBoi_49 Start: 34236, Stop: 34574, Start Num: 12

Candidate Starts for DirtyBoi_49:

(2, 33720), (4, 33792), (5, 33795), (6, 33957), (7, 33975), (8, 33978), (9, 34083), (Start: 11 @34233 has 1 MA's), (Start: 12 @34236 has 3 MA's), (13, 34284), (14, 34338), (18, 34443),

Gene: Doggs_44 Start: 34926, Stop: 35264, Start Num: 12

Candidate Starts for Doggs_44:

(7, 34665), (8, 34668), (9, 34773), (Start: 11 @34923 has 1 MA's), (Start: 12 @34926 has 3 MA's), (13, 34974), (17, 35094), (18, 35133),

Gene: Gambino_57 Start: 38102, Stop: 38458, Start Num: 10

Candidate Starts for Gambino_57:

(Start: 10 @38102 has 4 MA's), (15, 38249), (16, 38288), (17, 38291),

Gene: MissRona_55 Start: 38103, Stop: 38459, Start Num: 10

Candidate Starts for MissRona_55:

(Start: 10 @38103 has 4 MA's), (15, 38250), (16, 38289), (17, 38292),

Gene: RayTheFireFly_54 Start: 35821, Stop: 36162, Start Num: 11

Candidate Starts for RayTheFireFly_54:

(1, 35260), (2, 35308), (3, 35326), (4, 35380), (5, 35383), (6, 35545), (7, 35563), (8, 35566), (9, 35671),
(Start: 11 @35821 has 1 MA's), (Start: 12 @35824 has 3 MA's), (13, 35872), (14, 35926), (17, 35992),
(18, 36031), (19, 36115),