



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 295072 Report

This analysis was run 04/18/26 on database version 643.

Pham number 295072 has 22 members, 8 are drafts.

Phages represented in each track:

- Track 1 : Artu_24, Artu_311
- Track 2 : Racecar_31, Racecar_320, Bloom_319, Talia1610_316, Talia1610_30, FrostedClock_32, Bloom_32, FrostedClock_317
- Track 3 : GoldenEssence_16, GoldenEssence_297
- Track 4 : Patbob_29, FloraSnap32_312, Patbob_315, FloraSnap32_27
- Track 5 : Mimi_315, Mimi_30
- Track 6 : Panchaali_310, Panchaali_23
- Track 7 : Phrampa_309, Phrampa_25

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

The start number called the most often in the published annotations is 1, it was called in 14 of the 14 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Artu_24, Artu_311, Bloom_319, Bloom_32, FloraSnap32_27, FloraSnap32_312, FrostedClock_317, FrostedClock_32, GoldenEssence_16, GoldenEssence_297, Mimi_30, Mimi_315, Panchaali_23, Panchaali_310, Patbob_29, Patbob_315, Phrampa_25, Phrampa_309, Racecar_31, Racecar_320, Talia1610_30, Talia1610_316,

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

-

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

-

Summary by start number:

Start 1:

- Found in 22 of 22 (100.0%) of genes in pham
- Manual Annotations of this start: 14 of 14
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Artu_24 (FC), Artu_311 (FC), Bloom_319 (FC), Bloom_32 (FC), FloraSnap32_27 (FC), FloraSnap32_312 (FC), FrostedClock_317 (FC), FrostedClock_32 (FC), GoldenEssence_16 (FC), GoldenEssence_297 (FC), Mimi_30 (FC), Mimi_315 (FC), Panchaali_23 (FC), Panchaali_310 (FC), Patbob_29 (FC), Patbob_315 (FC), Phrampa_25 (FC), Phrampa_309 (FC), Racecar_31 (FC), Racecar_320 (FC), Talia1610_30 (FC), Talia1610_316 (FC),

Summary by clusters:

There is one cluster represented in this pham: FC

Info for manual annotations of cluster FC:

- Start number 1 was manually annotated 14 times for cluster FC.

Gene Information:

Gene: Artu_24 Start: 9828, Stop: 10130, Start Num: 1

Candidate Starts for Artu_24:

(Start: 1 @9828 has 14 MA's), (7, 10068),

Gene: Artu_311 Start: 188982, Stop: 189284, Start Num: 1

Candidate Starts for Artu_311:

(Start: 1 @188982 has 14 MA's), (7, 189222),

Gene: Bloom_319 Start: 187552, Stop: 187866, Start Num: 1

Candidate Starts for Bloom_319:

(Start: 1 @187552 has 14 MA's), (2, 187633),

Gene: Bloom_32 Start: 14077, Stop: 14391, Start Num: 1

Candidate Starts for Bloom_32:

(Start: 1 @14077 has 14 MA's), (2, 14158),

Gene: FloraSnap32_312 Start: 186646, Stop: 186960, Start Num: 1

Candidate Starts for FloraSnap32_312:

(Start: 1 @186646 has 14 MA's), (2, 186727), (5, 186856), (6, 186877), (10, 186925),

Gene: FloraSnap32_27 Start: 12508, Stop: 12822, Start Num: 1

Candidate Starts for FloraSnap32_27:

(Start: 1 @12508 has 14 MA's), (2, 12589), (5, 12718), (6, 12739), (10, 12787),

Gene: FrostedClock_32 Start: 13635, Stop: 13949, Start Num: 1

Candidate Starts for FrostedClock_32:

(Start: 1 @13635 has 14 MA's), (2, 13716),

Gene: FrostedClock_317 Start: 187435, Stop: 187749, Start Num: 1

Candidate Starts for FrostedClock_317:

(Start: 1 @187435 has 14 MA's), (2, 187516),

Gene: GoldenEssence_16 Start: 7886, Stop: 8194, Start Num: 1

Candidate Starts for GoldenEssence_16:

(Start: 1 @7886 has 14 MA's), (2, 7967), (3, 8024), (4, 8069), (9, 8150),

Gene: GoldenEssence_297 Start: 178439, Stop: 178747, Start Num: 1

Candidate Starts for GoldenEssence_297:

(Start: 1 @178439 has 14 MA's), (2, 178520), (3, 178577), (4, 178622), (9, 178703),

Gene: Mimi_315 Start: 186189, Stop: 186503, Start Num: 1

Candidate Starts for Mimi_315:

(Start: 1 @186189 has 14 MA's), (2, 186270), (5, 186399), (6, 186420), (10, 186468),

Gene: Mimi_30 Start: 13529, Stop: 13843, Start Num: 1

Candidate Starts for Mimi_30:

(Start: 1 @13529 has 14 MA's), (2, 13610), (5, 13739), (6, 13760), (10, 13808),

Gene: Panchaali_310 Start: 188816, Stop: 189118, Start Num: 1

Candidate Starts for Panchaali_310:

(Start: 1 @188816 has 14 MA's), (7, 189056), (8, 189071), (11, 189110),

Gene: Panchaali_23 Start: 9758, Stop: 10060, Start Num: 1

Candidate Starts for Panchaali_23:

(Start: 1 @9758 has 14 MA's), (7, 9998), (8, 10013), (11, 10052),

Gene: Patbob_29 Start: 13693, Stop: 14007, Start Num: 1

Candidate Starts for Patbob_29:

(Start: 1 @13693 has 14 MA's), (2, 13774), (5, 13903), (6, 13924), (10, 13972),

Gene: Patbob_315 Start: 189152, Stop: 189466, Start Num: 1

Candidate Starts for Patbob_315:

(Start: 1 @189152 has 14 MA's), (2, 189233), (5, 189362), (6, 189383), (10, 189431),

Gene: Phrampa_309 Start: 187978, Stop: 188286, Start Num: 1

Candidate Starts for Phrampa_309:

(Start: 1 @187978 has 14 MA's), (2, 188059), (5, 188188), (6, 188209), (9, 188242),

Gene: Phrampa_25 Start: 11607, Stop: 11915, Start Num: 1

Candidate Starts for Phrampa_25:

(Start: 1 @11607 has 14 MA's), (2, 11688), (5, 11817), (6, 11838), (9, 11871),

Gene: Racecar_31 Start: 14121, Stop: 14435, Start Num: 1

Candidate Starts for Racecar_31:

(Start: 1 @14121 has 14 MA's), (2, 14202),

Gene: Racecar_320 Start: 187830, Stop: 188144, Start Num: 1

Candidate Starts for Racecar_320:

(Start: 1 @187830 has 14 MA's), (2, 187911),

Gene: Talia1610_316 Start: 188015, Stop: 188329, Start Num: 1

Candidate Starts for Talia1610_316:

(Start: 1 @188015 has 14 MA's), (2, 188096),

Gene: Talia1610_30 Start: 13543, Stop: 13857, Start Num: 1

Candidate Starts for Talia1610_30:

(Start: 1 @13543 has 14 MA's), (2, 13624),

