

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 198427 Report

This analysis was run 01/18/25 on database version 583.

Pham number 198427 has 21 members, 15 are drafts.

Phages represented in each track:

- Track 1 : Maco6_16
- Track 2 : FF47_18
- Track 3: Wendigo_15, TinaBug_15, DNAIII_0015, Maliketh_15, AzulaCat_15
- Track 4 : Pace1224 15
- Track 5 : Stargaze_15
- Track 6 : Dartin_20, Richo_20, McMater_20
- Track 7: TaiwanKao 21, Llorens 20, CallaLilly 21
- Track 8 : Clipper_22, Torres_16, MacKat_21
- Track 9 : Y10_21, Y2_21
- Track 10 : Rando14 18

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 3 of the 6 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

Rando14_18, Y10_21, Y2_21,

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

• AzulaCat_15, DNAIII_0015, Dartin_20, FF47_18, Maliketh_15, McMater_20, Richo_20, TinaBug_15, Wendigo_15,

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

• CallaLilly_21, Clipper_22, Llorens_20, MacKat_21, Maco6_16, Pace1224_15, Stargaze_15, TaiwanKao_21, Torres_16,

Summary by start number:

Start 5:

- Found in 12 of 21 (57.1%) of genes in pham
- Manual Annotations of this start: 3 of 6
- Called 25.0% of time when present

• Phage (with cluster) where this start called: Rando14_18 (K5), Y10_21 (K4), Y2_21 (K4),

Start 6:

- Found in 2 of 21 (9.5%) of genes in pham
- Manual Annotations of this start: 1 of 6
- Called 100.0% of time when present
- Phage (with cluster) where this start called: FF47_18 (AB), Maco6_16 (AB),

Start 7:

- Found in 5 of 21 (23.8%) of genes in pham
- Manual Annotations of this start: 1 of 6
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AzulaCat_15 (G1), DNAIII_0015 (G1), Maliketh_15 (G1), TinaBug_15 (G1), Wendigo_15 (G1),

Start 9:

- Found in 1 of 21 (4.8%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Stargaze_15 (G5),

Start 11:

- Found in 6 of 21 (28.6%) of genes in pham
- Manual Annotations of this start: 1 of 6
- Called 100.0% of time when present
- Phage (with cluster) where this start called: CallaLilly_21 (K1), Clipper_22 (K1), Llorens_20 (K1), MacKat_21 (K1), TaiwanKao_21 (K1), Torres_16 (K1),

Start 12:

- Found in 1 of 21 (4.8%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Pace1224_15 (G2),

Start 13:

- Found in 9 of 21 (42.9%) of genes in pham
- No Manual Annotations of this start.
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Dartin_20 (K1), McMater_20 (K1), Richo_20 (K1),

Summary by clusters:

There are 7 clusters represented in this pham: G5, AB, G2, G1, K1, K5, K4,

Info for manual annotations of cluster AB:

•Start number 6 was manually annotated 1 time for cluster AB.

Info for manual annotations of cluster G1:

Start number 7 was manually annotated 1 time for cluster G1.

Info for manual annotations of cluster K1:

•Start number 11 was manually annotated 1 time for cluster K1.

Info for manual annotations of cluster K4:

Start number 5 was manually annotated 2 times for cluster K4.

Info for manual annotations of cluster K5:

Start number 5 was manually annotated 1 time for cluster K5.

Gene Information:

Gene: AzulaCat_15 Start: 11087, Stop: 11464, Start Num: 7

Candidate Starts for AzulaCat 15:

(2, 10724), (Start: 5 @11000 has 3 MA's), (Start: 7 @11087 has 1 MA's), (10, 11096), (24, 11375), (25, 11378),

Gene: CallaLilly_21 Start: 11686, Stop: 12039, Start Num: 11

Candidate Starts for CallaLilly 21:

(Start: 11 @11686 has 1 MA's), (16, 11812), (17, 11863), (22, 11941), (27, 11977),

Gene: Clipper_22 Start: 11740, Stop: 12093, Start Num: 11

Candidate Starts for Clipper_22:

(Start: 11 @11740 has 1 MA's), (16, 11866), (17, 11917), (22, 11995), (27, 12031),

Gene: DNAIII_0015 Start: 11096, Stop: 11473, Start Num: 7

Candidate Starts for DNAIII_0015:

(2, 10733), (Start: 5 @11009 has 3 MA's), (Start: 7 @11096 has 1 MA's), (10, 11105), (24, 11384), (25, 11387),

Gene: Dartin 20 Start: 10832, Stop: 11128, Start Num: 13

Candidate Starts for Dartin 20:

(4, 10634), (Start: 5 @ 10655 has 3 MA's), (13, 10832), (14, 10886), (22, 11027), (27, 11063),

Gene: FF47_18 Start: 11043, Stop: 11405, Start Num: 6

Candidate Starts for FF47_18:

(Start: 5 @10962 has 3 MA's), (Start: 6 @11043 has 1 MA's), (8, 11052), (13, 11139), (15, 11205), (16, 11211), (17, 11262), (18, 11289), (25, 11328), (26, 11346), (29, 11382),

Gene: Llorens_20 Start: 11763, Stop: 12116, Start Num: 11

Candidate Starts for Llorens_20:

(Start: 11 @11763 has 1 MA's), (16, 11889), (17, 11940), (22, 12018), (27, 12054),

Gene: MacKat 21 Start: 11740, Stop: 12093, Start Num: 11

Candidate Starts for MacKat_21:

(Start: 11 @11740 has 1 MA's), (16, 11866), (17, 11917), (22, 11995), (27, 12031),

Gene: Maco6 16 Start: 10335, Stop: 10697, Start Num: 6

Candidate Starts for Maco6 16:

(Start: 6 @ 10335 has 1 MA's), (8, 10344), (13, 10431), (15, 10497), (16, 10503), (17, 10554), (18, 10581), (25, 10620), (26, 10638), (29, 10674),

Gene: Maliketh_15 Start: 11087, Stop: 11464, Start Num: 7

Candidate Starts for Maliketh 15:

(2, 10724), (Start: 5 @11000 has 3 MA's), (Start: 7 @11087 has 1 MA's), (10, 11096), (24, 11375), (25, 11378),

Gene: McMater_20 Start: 10832, Stop: 11128, Start Num: 13

Candidate Starts for McMater 20:

(4, 10634), (Start: 5 @10655 has 3 MA's), (13, 10832), (14, 10886), (22, 11027), (27, 11063),

Gene: Pace1224 15 Start: 11290, Stop: 11628, Start Num: 12

Candidate Starts for Pace1224 15:

(1, 10573), (2, 10861), (12, 11290), (13, 11320), (24, 11512), (25, 11515), (28, 11554),

Gene: Rando14_18 Start: 10595, Stop: 11053, Start Num: 5

Candidate Starts for Rando14_18:

(Start: 5 @ 10595 has 3 MA's), (13, 10772), (19, 10952), (20, 10964), (27, 11006),

Gene: Richo 20 Start: 10832, Stop: 11128, Start Num: 13

Candidate Starts for Richo_20:

(4, 10634), (Start: 5 @ 10655 has 3 MA's), (13, 10832), (14, 10886), (22, 11027), (27, 11063),

Gene: Stargaze 15 Start: 11389, Stop: 11766, Start Num: 9

Candidate Starts for Stargaze_15:

(9, 11389), (24, 11668), (25, 11671), (28, 11710),

Gene: TaiwanKao_21 Start: 11699, Stop: 12052, Start Num: 11

Candidate Starts for TaiwanKao 21:

(Start: 11 @11699 has 1 MA's), (16, 11825), (17, 11876), (22, 11954), (27, 11990),

Gene: TinaBug_15 Start: 11082, Stop: 11459, Start Num: 7

Candidate Starts for TinaBug_15:

(2, 10719), (Start: 5 @10995 has 3 MA's), (Start: 7 @11082 has 1 MA's), (10, 11091), (24, 11370), (25, 11373),

Gene: Torres_16 Start: 10977, Stop: 11327, Start Num: 11

Candidate Starts for Torres_16:

(Start: 11 @10977 has 1 MA's), (16, 11103), (17, 11154), (22, 11229), (27, 11265),

Gene: Wendigo_15 Start: 11087, Stop: 11464, Start Num: 7

Candidate Starts for Wendigo_15:

(2, 10724), (Start: 5 @11000 has 3 MA's), (Start: 7 @11087 has 1 MA's), (10, 11096), (24, 11375), (25, 11378),

Gene: Y10_21 Start: 12813, Stop: 13310, Start Num: 5

Candidate Starts for Y10 21:

(3, 12657), (4, 12792), (Start: 5 @12813 has 3 MA's), (13, 12990), (14, 13044), (17, 13113), (21, 13215), (23, 13218), (27, 13254),

Gene: Y2 21 Start: 12813, Stop: 13310, Start Num: 5

Candidate Starts for Y2 21:

(3, 12657), (4, 12792), (Start: 5 @12813 has 3 MA's), (13, 12990), (14, 13044), (17, 13113), (21, 13215), (23, 13218), (27, 13254),