

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 194198 Report

This analysis was run 11/02/24 on database version 579.

Pham number 194198 has 35 members, 4 are drafts.

Phages represented in each track:

- Track 1: Petra 40, Zarbodnamra 42, Obliviate 39
- Track 2 : UmaThurman_37
- Track 3: GRU3 20
- Track 4: Bunker 39
- Track 5 : BackstagePass_50
- Track 6 : MagicMan_41, Eyes_39
- Track 7 : ZAYM 43
- Track 8 : Schnabeltier 41
- Track 9 : SallySpecial_19
- Track 10 : Emperor 22
- Track 11 : Zaheer 44
- Track 12 : Brujita 35
- Track 13: Xulá_30, Island3_35, QueenHazel_31
- Track 14: Babsiella 35
- Track 15: Ubuntu_50, Kinbote_50, LilHazelnut_50, Hadrien_50, Forge_48, Webster2_50, Ein37_50, Amymech_50, DeepSoil15_50, Amochick_50, Gancho_49, Daegal_52, Luke_50, Evanesce_49
- Track 16 : OBUpride 50
- Track 17 : Barebow_20

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

The start number called the most often in the published annotations is 15, it was called in 15 of the 31 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

Amochick_50, Amymech_50, Daegal_52, DeepSoil15_50, Ein37_50, Evanesce_49, Forge_48, Gancho_49, Hadrien_50, Kinbote_50, LilHazelnut_50, Luke_50, OBUpride_50, Ubuntu_50, Webster2_50,

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

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

• Babsiella_35, BackstagePass_50, Barebow_20, Brujita_35, Bunker_39, Emperor_22, Eyes_39, GRU3_20, Island3_35, MagicMan_41, Obliviate_39, Petra_40, QueenHazel_31, SallySpecial_19, Schnabeltier_41, UmaThurman_37, Xula_30, ZAYM_43, Zaheer_44, Zarbodnamra_42,

Summary by start number:

Start 10:

- Found in 6 of 35 (17.1%) of genes in pham
- Manual Annotations of this start: 1 of 31
- Called 16.7% of time when present
- Phage (with cluster) where this start called: UmaThurman_37 (CV),

Start 13:

- Found in 4 of 35 (11.4%) of genes in pham
- Manual Annotations of this start: 2 of 31
- Called 75.0% of time when present
- Phage (with cluster) where this start called: Bunker_39 (DB), ZAYM_43 (DB), Zaheer_44 (FF),

Start 15:

- Found in 15 of 35 (42.9%) of genes in pham
- Manual Annotations of this start: 15 of 31
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Amochick_50 (Q), Amymech_50 (Q), Daegal_52 (Q), DeepSoil15_50 (Q), Ein37_50 (Q), Evanesce_49 (Q), Forge_48 (Q), Gancho_49 (Q), Hadrien_50 (Q), Kinbote_50 (Q), LilHazelnut_50 (Q), Luke_50 (Q), OBUpride_50 (Q), Ubuntu_50 (Q), Webster2_50 (Q),

Start 16:

- Found in 3 of 35 (8.6%) of genes in pham
- Manual Annotations of this start: 3 of 31
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Obliviate_39 (CV), Petra_40 (CV),
 Zarbodnamra_42 (CV),

Start 18:

- Found in 7 of 35 (20.0%) of genes in pham
- Manual Annotations of this start: 4 of 31
- Called 85.7% of time when present
- Phage (with cluster) where this start called: BackstagePass_50 (DB), Emperor_22 (DM), Eyes_39 (DB), GRU3_20 (CW2), MagicMan_41 (DB), Schnabeltier_41 (DB),

Start 19:

- Found in 6 of 35 (17.1%) of genes in pham
- Manual Annotations of this start: 4 of 31
- Called 83.3% of time when present
- Phage (with cluster) where this start called: Babsiella_35 (I1), Barebow_20 (singleton), Island3_35 (I1), QueenHazel_31 (I1), Xula_30 (I1),

Start 20:

- Found in 1 of 35 (2.9%) of genes in pham
- Manual Annotations of this start: 1 of 31

- Called 100.0% of time when present
- Phage (with cluster) where this start called: SallySpecial_19 (DM),

Start 21:

- Found in 5 of 35 (14.3%) of genes in pham
- Manual Annotations of this start: 1 of 31
- Called 20.0% of time when present
- Phage (with cluster) where this start called: Brujita_35 (I1),

Summary by clusters:

There are 8 clusters represented in this pham: singleton, DM, I1, CW2, DB, Q, FF, CV,

Info for manual annotations of cluster CV:

- •Start number 10 was manually annotated 1 time for cluster CV.
- •Start number 16 was manually annotated 3 times for cluster CV.

Info for manual annotations of cluster DB:

- •Start number 13 was manually annotated 1 time for cluster DB.
- •Start number 18 was manually annotated 3 times for cluster DB.

Info for manual annotations of cluster DM:

- •Start number 18 was manually annotated 1 time for cluster DM.
- •Start number 20 was manually annotated 1 time for cluster DM.

Info for manual annotations of cluster FF:

•Start number 13 was manually annotated 1 time for cluster FF.

Info for manual annotations of cluster I1:

- •Start number 19 was manually annotated 4 times for cluster I1.
- •Start number 21 was manually annotated 1 time for cluster I1.

Info for manual annotations of cluster Q:

•Start number 15 was manually annotated 15 times for cluster Q.

Gene Information:

Gene: Amochick_50 Start: 36955, Stop: 37152, Start Num: 15

Candidate Starts for Amochick_50:

(Start: 15 @36955 has 15 MA's), (24, 37018),

Gene: Amymech_50 Start: 36949, Stop: 37146, Start Num: 15

Candidate Starts for Amymech_50:

(Start: 15 @36949 has 15 MA's), (24, 37012),

Gene: Babsiella 35 Start: 28713, Stop: 28880, Start Num: 19

Candidate Starts for Babsiella 35:

(2, 28563), (5, 28629), (8, 28668), (Start: 10 @28677 has 1 MA's), (Start: 19 @28713 has 4 MA's),

(Start: 21 @28725 has 1 MA's),

Gene: BackstagePass_50 Start: 34306, Stop: 34112, Start Num: 18

Candidate Starts for BackstagePass_50:

(14, 34321), (Start: 18 @34306 has 4 MA's), (23, 34267), (29, 34222),

Gene: Barebow_20 Start: 15789, Stop: 15971, Start Num: 19

Candidate Starts for Barebow_20:

(12, 15759), (17, 15774), (Start: 18 @15783 has 4 MA's), (Start: 19 @15789 has 4 MA's), (22, 15807), (31, 15894), (36, 15960),

Gene: Brujita_35 Start: 29623, Stop: 29778, Start Num: 21

Candidate Starts for Brujita 35:

(2, 29461), (5, 29527), (Start: 10 @29575 has 1 MA's), (Start: 19 @29611 has 4 MA's), (Start: 21 @29623 has 1 MA's),

Gene: Bunker_39 Start: 31881, Stop: 32090, Start Num: 13

Candidate Starts for Bunker_39:

(7, 31854), (Start: 13 @31881 has 2 MA's), (34, 32055),

Gene: Daegal_52 Start: 37533, Stop: 37730, Start Num: 15

Candidate Starts for Daegal_52:

(Start: 15 @37533 has 15 MA's), (24, 37596),

Gene: DeepSoil15_50 Start: 36949, Stop: 37146, Start Num: 15

Candidate Starts for DeepSoil15_50:

(Start: 15 @36949 has 15 MA's), (24, 37012),

Gene: Ein37 50 Start: 36949, Stop: 37146, Start Num: 15

Candidate Starts for Ein37_50:

(Start: 15 @36949 has 15 MA's), (24, 37012),

Gene: Emperor_22 Start: 15163, Stop: 15360, Start Num: 18

Candidate Starts for Emperor 22:

(7, 15115), (9, 15127), (11, 15136), (17, 15154), (Start: 18 @15163 has 4 MA's), (26, 15223), (30, 15274), (32, 15280),

Gene: Evanesce_49 Start: 36949, Stop: 37146, Start Num: 15

Candidate Starts for Evanesce_49:

(Start: 15 @36949 has 15 MA's), (24, 37012),

Gene: Eyes_39 Start: 32432, Stop: 32626, Start Num: 18

Candidate Starts for Eyes_39:

(14, 32417), (Start: 18 @32432 has 4 MA's), (29, 32516),

Gene: Forge 48 Start: 36949, Stop: 37146, Start Num: 15

Candidate Starts for Forge_48:

(Start: 15 @36949 has 15 MA's), (24, 37012),

Gene: GRU3_20 Start: 14761, Stop: 14949, Start Num: 18

Candidate Starts for GRU3 20:

(Start: 18 @14761 has 4 MA's), (22, 14788), (27, 14836), (35, 14932),

Gene: Gancho_49 Start: 36672, Stop: 36869, Start Num: 15

Candidate Starts for Gancho 49:

(Start: 15 @36672 has 15 MA's), (24, 36735),

Gene: Hadrien_50 Start: 36949, Stop: 37146, Start Num: 15

Candidate Starts for Hadrien_50:

(Start: 15 @36949 has 15 MA's), (24, 37012),

Gene: Island3_35 Start: 29611, Stop: 29778, Start Num: 19

Candidate Starts for Island3_35:

(2, 29461), (5, 29527), (Start: 10 @29575 has 1 MA's), (Start: 19 @29611 has 4 MA's), (Start: 21

@29623 has 1 MA's),

Gene: Kinbote_50 Start: 36949, Stop: 37146, Start Num: 15

Candidate Starts for Kinbote_50:

(Start: 15 @36949 has 15 MA's), (24, 37012),

Gene: LilHazelnut 50 Start: 36949, Stop: 37146, Start Num: 15

Candidate Starts for LilHazeInut_50:

(Start: 15 @36949 has 15 MA's), (24, 37012),

Gene: Luke_50 Start: 36904, Stop: 37101, Start Num: 15

Candidate Starts for Luke_50:

(Start: 15 @36904 has 15 MA's), (24, 36967),

Gene: MagicMan_41 Start: 32979, Stop: 33173, Start Num: 18

Candidate Starts for MagicMan_41:

(14, 32964), (Start: 18 @ 32979 has 4 MA's), (29, 33063),

Gene: OBUpride_50 Start: 36945, Stop: 37142, Start Num: 15

Candidate Starts for OBUpride_50:

(Start: 15 @36945 has 15 MA's), (24, 37008), (26, 37017), (27, 37032),

Gene: Obliviate_39 Start: 31330, Stop: 31524, Start Num: 16

Candidate Starts for Obliviate_39: (Start: 16 @31330 has 3 MA's),

Gene: Petra_40 Start: 31689, Stop: 31883, Start Num: 16

Candidate Starts for Petra_40: (Start: 16 @31689 has 3 MA's),

Gene: QueenHazel_31 Start: 27647, Stop: 27814, Start Num: 19

Candidate Starts for QueenHazel_31:

(2, 27497), (5, 27563), (Start: 10 @27611 has 1 MA's), (Start: 19 @27647 has 4 MA's), (Start: 21

@27659 has 1 MA's),

Gene: SallySpecial_19 Start: 14475, Stop: 14666, Start Num: 20

Candidate Starts for SallySpecial_19:

(Start: 20 @14475 has 1 MA's), (23, 14505), (26, 14523), (27, 14538), (28, 14547), (33, 14625),

Gene: Schnabeltier 41 Start: 32611, Stop: 32805, Start Num: 18

Candidate Starts for Schnabeltier_41:

(Start: 18 @32611 has 4 MA's), (23, 32650), (29, 32695),

Gene: Ubuntu_50 Start: 36949, Stop: 37146, Start Num: 15

Candidate Starts for Ubuntu_50:

(Start: 15 @36949 has 15 MA's), (24, 37012),

Gene: UmaThurman_37 Start: 31748, Stop: 31954, Start Num: 10

Candidate Starts for UmaThurman_37:

(1, 31565), (3, 31640), (4, 31670), (6, 31712), (Start: 10 @31748 has 1 MA's), (Start: 13 @31760 has

2 MA's), (25, 31826), (33, 31934), (34, 31937),

Gene: Webster2_50 Start: 36949, Stop: 37146, Start Num: 15

Candidate Starts for Webster2_50:

(Start: 15 @36949 has 15 MA's), (24, 37012),

Gene: Xula_30 Start: 27171, Stop: 27338, Start Num: 19

Candidate Starts for Xula_30:

(2, 27021), (5, 27087), (Start: 10 @27135 has 1 MA's), (Start: 19 @27171 has 4 MA's), (Start: 21

@27183 has 1 MA's),

Gene: ZAYM_43 Start: 32247, Stop: 32456, Start Num: 13

Candidate Starts for ZAYM_43:

(7, 32220), (Start: 13 @32247 has 2 MA's),

Gene: Zaheer_44 Start: 31390, Stop: 31605, Start Num: 13

Candidate Starts for Zaheer_44: (Start: 13 @31390 has 2 MA's),

Gene: Zarbodnamra_42 Start: 32451, Stop: 32645, Start Num: 16

Candidate Starts for Zarbodnamra 42:

(Start: 16 @32451 has 3 MA's),