

Pham 311757



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 311757 Report

This analysis was run 06/27/26 on database version 652.

Pham number 311757 has 44 members, 14 are drafts.

Phages represented in each track:

- Track 1 : GumGum_51, CosmicBrownie_48, Zucker_43, Nyilah_51
- Track 2 : Shukran_47
- Track 3 : Hestia_45
- Track 4 : B3_31
- Track 5 : E1_31, E6_31
- Track 6 : Anatole_31
- Track 7 : Doucette_34, B22_32
- Track 8 : G4_32
- Track 9 : FosterFrank_43, Peas_38, Judy_42, NidoQ_36, Bridgette_41, Eileen_37, LittleRon_39, ChuckDuck_42, Constance_41, RootBeer_32, KayMoney_41, GlobiWarming_41, LilyBell_41
- Track 10 : Rooter_37, Gibbzilla_42, JeanClaude_38, Shoya_40
- Track 11 : BrayBeast_36
- Track 12 : Kumotta_33, MargaretKali_33
- Track 13 : Sarge_33
- Track 14 : Alatato_34
- Track 15 : Pigu_36
- Track 16 : Bauer_44
- Track 17 : BellaJr_42, BlackSpider_39
- Track 18 : Maja_33
- Track 19 : Rebel_30
- Track 20 : Rem711_48, 32HC_49
- Track 21 : ArV2_35

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

The start number called the most often in the published annotations is 7, it was called in 15 of the 30 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BellaJr_42, BlackSpider_39, BrayBeast_36, Bridgette_41, ChuckDuck_42, Constance_41, Eileen_37, FosterFrank_43, GlobiWarming_41, Judy_42, KayMoney_41, Kumotta_33, LilyBell_41, LittleRon_39, MargaretKali_33, NidoQ_36, Peas_38, Rebel_30, RootBeer_32, Shukran_47,

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

- 32HC_49, Rem711_48,

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

- Alatato_34, Anatole_31, ArV2_35, B22_32, B3_31, Bauer_44, CosmicBrownie_48, Doucette_34, E1_31, E6_31, G4_32, Gibbzilla_42, GumGum_51, Hestia_45, JeanClaude_38, Maja_33, Nyilah_51, Pigu_36, Rooter_37, Sarge_33, Shoya_40, Zucker_43,

Summary by start number:

Start 6:

- Found in 3 of 44 (6.8%) of genes in pham
- Manual Annotations of this start: 1 of 30
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Anatole_31 (BV),

Start 7:

- Found in 22 of 44 (50.0%) of genes in pham
- Manual Annotations of this start: 15 of 30
- Called 90.9% of time when present
- Phage (with cluster) where this start called: BellaJr_42 (FN), BlackSpider_39 (FN), BrayBeast_36 (FB), Bridgette_41 (FA), ChuckDuck_42 (FA), Constance_41 (FA), Eileen_37 (FA), FosterFrank_43 (FA), GlobiWarming_41 (FA), Judy_42 (FA), KayMoney_41 (FA), Kumotta_33 (FB), LilyBell_41 (FA), LittleRon_39 (FA), MargaretKali_33 (FB), NidoQ_36 (FA), Peas_38 (FA), Rebel_30 (N), RootBeer_32 (FA), Shukran_47 (AY),

Start 8:

- Found in 4 of 44 (9.1%) of genes in pham
- Manual Annotations of this start: 1 of 30
- Called 25.0% of time when present
- Phage (with cluster) where this start called: B3_31 (BV),

Start 10:

- Found in 15 of 44 (34.1%) of genes in pham
- Manual Annotations of this start: 7 of 30
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Alatato_34 (FB), ArV2_35 (singleton), Bauer_44 (FN), CosmicBrownie_48 (AY), Gibbzilla_42 (FB), GumGum_51 (AY), Hestia_45 (AY), JeanClaude_38 (FB), Maja_33 (FO), Nyilah_51 (AY), Pigu_36 (FB), Rooter_37 (FB), Sarge_33 (FB), Shoya_40 (FB), Zucker_43 (FN),

Start 11:

- Found in 3 of 44 (6.8%) of genes in pham
- Manual Annotations of this start: 2 of 30
- Called 66.7% of time when present
- Phage (with cluster) where this start called: E1_31 (BV), E6_31 (BW),

Start 12:

- Found in 6 of 44 (13.6%) of genes in pham
- Manual Annotations of this start: 3 of 30

- Called 66.7% of time when present
- Phage (with cluster) where this start called: 32HC_49 (Z), B22_32 (BW), Doucette_34 (BW), Rem711_48 (Z),

Start 15:

- Found in 4 of 44 (9.1%) of genes in pham
- Manual Annotations of this start: 1 of 30
- Called 25.0% of time when present
- Phage (with cluster) where this start called: G4_32 (BW),

Summary by clusters:

There are 10 clusters represented in this pham: singleton, FB, N, FA, BV, BW, AY, Z, FN, FO,

Info for manual annotations of cluster AY:

- Start number 10 was manually annotated 1 time for cluster AY.

Info for manual annotations of cluster BV:

- Start number 6 was manually annotated 1 time for cluster BV.
- Start number 8 was manually annotated 1 time for cluster BV.
- Start number 11 was manually annotated 1 time for cluster BV.

Info for manual annotations of cluster BW:

- Start number 11 was manually annotated 1 time for cluster BW.
- Start number 12 was manually annotated 2 times for cluster BW.
- Start number 15 was manually annotated 1 time for cluster BW.

Info for manual annotations of cluster FA:

- Start number 7 was manually annotated 10 times for cluster FA.

Info for manual annotations of cluster FB:

- Start number 7 was manually annotated 3 times for cluster FB.
- Start number 10 was manually annotated 3 times for cluster FB.

Info for manual annotations of cluster FN:

- Start number 7 was manually annotated 1 time for cluster FN.
- Start number 10 was manually annotated 2 times for cluster FN.

Info for manual annotations of cluster FO:

- Start number 10 was manually annotated 1 time for cluster FO.

Info for manual annotations of cluster N:

- Start number 7 was manually annotated 1 time for cluster N.

Info for manual annotations of cluster Z:

- Start number 12 was manually annotated 1 time for cluster Z.

Gene Information:

Gene: 32HC_49 Start: 34204, Stop: 34452, Start Num: 12

Candidate Starts for 32HC_49:

(Start: 7 @34177 has 15 MA's), (Start: 12 @34204 has 3 MA's), (13, 34213), (19, 34267), (22, 34282), (23, 34288), (30, 34363),

Gene: Alatato_34 Start: 25489, Stop: 25716, Start Num: 10

Candidate Starts for Alatato_34:

(Start: 10 @25489 has 7 MA's), (18, 25549),

Gene: Anatole_31 Start: 23401, Stop: 23664, Start Num: 6

Candidate Starts for Anatole_31:

(Start: 6 @23401 has 1 MA's), (9, 23413), (Start: 11 @23422 has 2 MA's), (14, 23440), (23, 23509), (25, 23521), (26, 23527), (32, 23590), (38, 23632),

Gene: ArV2_35 Start: 24447, Stop: 24674, Start Num: 10

Candidate Starts for ArV2_35:

(Start: 10 @24447 has 7 MA's),

Gene: B22_32 Start: 23397, Stop: 23636, Start Num: 12

Candidate Starts for B22_32:

(3, 23325), (5, 23346), (Start: 8 @23376 has 1 MA's), (Start: 12 @23397 has 3 MA's), (Start: 15 @23433 has 1 MA's), (27, 23502), (29, 23526), (35, 23592),

Gene: B3_31 Start: 23506, Stop: 23766, Start Num: 8

Candidate Starts for B3_31:

(Start: 8 @23506 has 1 MA's), (Start: 12 @23527 has 3 MA's), (Start: 15 @23563 has 1 MA's), (27, 23632), (29, 23656), (35, 23722),

Gene: Bauer_44 Start: 29731, Stop: 29958, Start Num: 10

Candidate Starts for Bauer_44:

(Start: 10 @29731 has 7 MA's),

Gene: BellaJr_42 Start: 30243, Stop: 30515, Start Num: 7

Candidate Starts for BellaJr_42:

(Start: 7 @30243 has 15 MA's), (33, 30441), (40, 30492),

Gene: BlackSpider_39 Start: 28835, Stop: 29107, Start Num: 7

Candidate Starts for BlackSpider_39:

(Start: 7 @28835 has 15 MA's), (33, 29033), (40, 29084),

Gene: BrayBeast_36 Start: 26166, Stop: 26420, Start Num: 7

Candidate Starts for BrayBeast_36:

(Start: 7 @26166 has 15 MA's), (34, 26370),

Gene: Bridgette_41 Start: 28919, Stop: 29173, Start Num: 7

Candidate Starts for Bridgette_41:

(Start: 7 @28919 has 15 MA's), (20, 29003), (21, 29009),

Gene: ChuckDuck_42 Start: 28742, Stop: 28996, Start Num: 7

Candidate Starts for ChuckDuck_42:

(Start: 7 @28742 has 15 MA's), (20, 28826), (21, 28832),

Gene: Constance_41 Start: 29071, Stop: 29325, Start Num: 7

Candidate Starts for Constance_41:

(Start: 7 @29071 has 15 MA's), (20, 29155), (21, 29161),

Gene: CosmicBrownie_48 Start: 30817, Stop: 31044, Start Num: 10

Candidate Starts for CosmicBrownie_48:

(Start: 10 @30817 has 7 MA's), (16, 30865), (17, 30868), (37, 31024), (39, 31036),

Gene: Doucette_34 Start: 24811, Stop: 25050, Start Num: 12

Candidate Starts for Doucette_34:

(3, 24739), (5, 24760), (Start: 8 @24790 has 1 MA's), (Start: 12 @24811 has 3 MA's), (Start: 15 @24847 has 1 MA's), (27, 24916), (29, 24940), (35, 25006),

Gene: E1_31 Start: 23422, Stop: 23664, Start Num: 11

Candidate Starts for E1_31:

(Start: 6 @23401 has 1 MA's), (9, 23413), (Start: 11 @23422 has 2 MA's), (14, 23440), (23, 23509), (25, 23521), (26, 23527), (32, 23590), (38, 23632),

Gene: E6_31 Start: 23144, Stop: 23386, Start Num: 11

Candidate Starts for E6_31:

(Start: 6 @23123 has 1 MA's), (9, 23135), (Start: 11 @23144 has 2 MA's), (14, 23162), (23, 23231), (25, 23243), (26, 23249), (32, 23312), (38, 23354),

Gene: Eileen_37 Start: 27149, Stop: 27403, Start Num: 7

Candidate Starts for Eileen_37:

(Start: 7 @27149 has 15 MA's), (20, 27233), (21, 27239),

Gene: FosterFrank_43 Start: 28801, Stop: 29055, Start Num: 7

Candidate Starts for FosterFrank_43:

(Start: 7 @28801 has 15 MA's), (20, 28885), (21, 28891),

Gene: G4_32 Start: 24466, Stop: 24669, Start Num: 15

Candidate Starts for G4_32:

(Start: 8 @24409 has 1 MA's), (Start: 12 @24430 has 3 MA's), (Start: 15 @24466 has 1 MA's), (27, 24535), (29, 24559), (35, 24625),

Gene: Gibbzilla_42 Start: 26748, Stop: 26975, Start Num: 10

Candidate Starts for Gibbzilla_42:

(Start: 10 @26748 has 7 MA's), (18, 26808), (31, 26913),

Gene: GlobiWarming_41 Start: 28325, Stop: 28579, Start Num: 7

Candidate Starts for GlobiWarming_41:

(Start: 7 @28325 has 15 MA's), (20, 28409), (21, 28415),

Gene: GumGum_51 Start: 31236, Stop: 31463, Start Num: 10

Candidate Starts for GumGum_51:

(Start: 10 @31236 has 7 MA's), (16, 31284), (17, 31287), (37, 31443), (39, 31455),

Gene: Hestia_45 Start: 29565, Stop: 29792, Start Num: 10

Candidate Starts for Hestia_45:

(Start: 10 @29565 has 7 MA's), (28, 29697),

Gene: JeanClaude_38 Start: 25241, Stop: 25468, Start Num: 10

Candidate Starts for JeanClaude_38:

(Start: 10 @25241 has 7 MA's), (18, 25301), (31, 25406),

Gene: Judy_42 Start: 29237, Stop: 29491, Start Num: 7

Candidate Starts for Judy_42:

(Start: 7 @29237 has 15 MA's), (20, 29321), (21, 29327),

Gene: KayMoney_41 Start: 28414, Stop: 28668, Start Num: 7

Candidate Starts for KayMoney_41:

(Start: 7 @28414 has 15 MA's), (20, 28498), (21, 28504),

Gene: Kumotta_33 Start: 26166, Stop: 26420, Start Num: 7

Candidate Starts for Kumotta_33:

(Start: 7 @26166 has 15 MA's), (21, 26256), (41, 26400), (42, 26409),

Gene: LilyBell_41 Start: 28643, Stop: 28897, Start Num: 7

Candidate Starts for LilyBell_41:

(Start: 7 @28643 has 15 MA's), (20, 28727), (21, 28733),

Gene: LittleRon_39 Start: 28023, Stop: 28277, Start Num: 7

Candidate Starts for LittleRon_39:

(Start: 7 @28023 has 15 MA's), (20, 28107), (21, 28113),

Gene: Maja_33 Start: 26682, Stop: 26909, Start Num: 10

Candidate Starts for Maja_33:

(Start: 10 @26682 has 7 MA's), (16, 26730), (37, 26889),

Gene: MargaretKali_33 Start: 25801, Stop: 26055, Start Num: 7

Candidate Starts for MargaretKali_33:

(Start: 7 @25801 has 15 MA's), (21, 25891), (41, 26035), (42, 26044),

Gene: NidoQ_36 Start: 27748, Stop: 28002, Start Num: 7

Candidate Starts for NidoQ_36:

(Start: 7 @27748 has 15 MA's), (20, 27832), (21, 27838),

Gene: Nyilah_51 Start: 30452, Stop: 30679, Start Num: 10

Candidate Starts for Nyilah_51:

(Start: 10 @30452 has 7 MA's), (16, 30500), (17, 30503), (37, 30659), (39, 30671),

Gene: Peas_38 Start: 29296, Stop: 29550, Start Num: 7

Candidate Starts for Peas_38:

(Start: 7 @29296 has 15 MA's), (20, 29380), (21, 29386),

Gene: Pigu_36 Start: 25386, Stop: 25616, Start Num: 10

Candidate Starts for Pigu_36:

(1, 25272), (2, 25299), (Start: 10 @25386 has 7 MA's),

Gene: Rebel_30 Start: 25542, Stop: 25255, Start Num: 7

Candidate Starts for Rebel_30:

(4, 25578), (Start: 7 @25542 has 15 MA's), (26, 25416), (36, 25317),

Gene: Rem711_48 Start: 34188, Stop: 34436, Start Num: 12

Candidate Starts for Rem711_48:

(Start: 7 @34161 has 15 MA's), (Start: 12 @34188 has 3 MA's), (13, 34197), (19, 34251), (22, 34266), (23, 34272), (30, 34347),

Gene: RootBeer_32 Start: 25199, Stop: 25453, Start Num: 7
Candidate Starts for RootBeer_32:
(Start: 7 @25199 has 15 MA's), (20, 25283), (21, 25289),

Gene: Rooter_37 Start: 25733, Stop: 25960, Start Num: 10
Candidate Starts for Rooter_37:
(Start: 10 @25733 has 7 MA's), (18, 25793), (31, 25898),

Gene: Sarge_33 Start: 24068, Stop: 24295, Start Num: 10
Candidate Starts for Sarge_33:
(Start: 10 @24068 has 7 MA's), (24, 24164), (31, 24233),

Gene: Shoya_40 Start: 26509, Stop: 26736, Start Num: 10
Candidate Starts for Shoya_40:
(Start: 10 @26509 has 7 MA's), (18, 26569), (31, 26674),

Gene: Shukran_47 Start: 30205, Stop: 30456, Start Num: 7
Candidate Starts for Shukran_47:
(Start: 7 @30205 has 15 MA's),

Gene: Zucker_43 Start: 30252, Stop: 30479, Start Num: 10
Candidate Starts for Zucker_43:
(Start: 10 @30252 has 7 MA's), (16, 30300), (17, 30303), (37, 30459), (39, 30471),