Pham 284159

1: Globfish_90 + 1

2: Faja_91

3: Pepe25_49

4: CandC_49 + 3

5: OneinaGillian_50

6: Tempo_50 + 1

7: BirdInFrench_50 + 1

8: Marcie_55

9: Kelcole_49

10: Toodles_61

11: Maruru_74

12: Orkz_77

13: AirForce1_76

14: Zucker_90

15: Cassini_84

16: BellaJr_88

17: Merpity_45

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 284159 Report

This analysis was run 02/23/26 on database version 636.

Pham number 284159 has 23 members, 7 are drafts.

Phages represented in each track:
• Track 1 : Globfish_90, SpicyFrank_92
• Track 2 : Faja_91
• Track 3 : Pepe25_49
• Track 4 : CandC_49, Romm_52, RobinRose_52, KillerQueen_51
• Track 5 : OneinaGillian_50
• Track 6 : Tempo_50, Fregley_51
• Track 7 : BirdInFrench_50, Wilca_50
• Track 8 : Marcie_55
• Track 9 : Kelcole_49
• Track 10 : Toodles_61
• Track 11 : Maruru_74
• Track 12 : Orkz_77
• Track 13 : AirForce1_76
• Track 14 : Zucker_90
• Track 15 : Cassini_84
• Track 16 : BellaJr_88
• Track 17 : Merpity_45

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 12 of the 16 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• BirdInFrench_50, CandC_49, Fregley_51, Kelcole_49, KillerQueen_51, Marcie_55, Maruru_74, OneinaGillian_50, Pepe25_49, RobinRose_52, Romm_52, Tempo_50, Wilca_50,

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

Genes that do not have the "Most Annotated" start:
• AirForce1_76, BellaJr_88, Cassini_84, Faja_91, Globfish_90, Merpity_45, Orkz_77, SpicyFrank_92, Toodles_61, Zucker_90,

Summary by start number:

Start 11:
• Found in 5 of 23 (21.7%) of genes in pham
• Manual Annotations of this start: 4 of 16
• Called 80.0% of time when present
• Phage (with cluster) where this start called: Faja_91 (AY), Globfish_90 (AY), SpicyFrank_92 (AY), Zucker_90 (FN),

Start 12:
• Found in 1 of 23 (4.3%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Toodles_61 (FF),

Start 13:
• Found in 1 of 23 (4.3%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Merpity_45 (FQ),

Start 14:
• Found in 3 of 23 (13.0%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AirForce1_76 (FL), BellaJr_88 (FN), Orkz_77 (FL),

Start 15:
• Found in 13 of 23 (56.5%) of genes in pham
• Manual Annotations of this start: 12 of 16
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BirdInFrench_50 (EG), CandC_49 (EG), Fregley_51 (EG), Kelcole_49 (EG), KillerQueen_51 (EG), Marcie_55 (EG), Maruru_74 (FG), OneinaGillian_50 (EG), Pepe25_49 (EG), RobinRose_52 (EG), Romm_52 (EG), Tempo_50 (EG), Wilca_50 (EG),

Start 18:
• Found in 1 of 23 (4.3%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Cassini_84 (FN),

Summary by clusters:

There are 7 clusters represented in this pham: FQ, EG, FF, FG, AY, FL, FN,

Info for manual annotations of cluster AY:
•Start number 11 was manually annotated 3 times for cluster AY.

Info for manual annotations of cluster EG:
•Start number 15 was manually annotated 11 times for cluster EG.

Info for manual annotations of cluster FG:
•Start number 15 was manually annotated 1 time for cluster FG.

Info for manual annotations of cluster FN:
•Start number 11 was manually annotated 1 time for cluster FN.

Gene Information:

Gene: AirForce1_76 Start: 43771, Stop: 44016, Start Num: 14
Candidate Starts for AirForce1_76:
(14, 43771),

Gene: BellaJr_88 Start: 49498, Stop: 49731, Start Num: 14
Candidate Starts for BellaJr_88:
(1, 49054), (2, 49069), (3, 49138), (14, 49498), (23, 49594), (28, 49642), (40, 49717),

Gene: BirdInFrench_50 Start: 35488, Stop: 35219, Start Num: 15
Candidate Starts for BirdInFrench_50:
(7, 35710), (8, 35599), (Start: 15 @35488 has 12 MA's), (22, 35410), (29, 35341), (31, 35329), (33, 35311), (35, 35290), (38, 35281), (40, 35257), (41, 35251), (42, 35230),

Gene: CandC_49 Start: 35861, Stop: 35583, Start Num: 15
Candidate Starts for CandC_49:
(8, 35972), (Start: 15 @35861 has 12 MA's), (29, 35708), (31, 35696), (37, 35648), (40, 35621), (41, 35615), (42, 35594),

Gene: Cassini_84 Start: 48452, Stop: 48691, Start Num: 18
Candidate Starts for Cassini_84:
(9, 48389), (10, 48398), (18, 48452), (19, 48461),

Gene: Faja_91 Start: 50148, Stop: 50402, Start Num: 11
Candidate Starts for Faja_91:
(Start: 11 @50148 has 4 MA's), (17, 50187), (26, 50298), (27, 50304), (30, 50328),

Gene: Fregley_51 Start: 36422, Stop: 36144, Start Num: 15
Candidate Starts for Fregley_51:
(8, 36533), (Start: 15 @36422 has 12 MA's), (29, 36269), (31, 36257), (36, 36215), (37, 36209), (40, 36182), (41, 36176), (42, 36155),

Gene: Globfish_90 Start: 48891, Stop: 49145, Start Num: 11
Candidate Starts for Globfish_90:
(Start: 11 @48891 has 4 MA's), (26, 49041), (27, 49047), (30, 49071),

Gene: Kelcole_49 Start: 36313, Stop: 36035, Start Num: 15
Candidate Starts for Kelcole_49:
(Start: 15 @36313 has 12 MA's), (29, 36160), (31, 36148), (36, 36106), (37, 36100), (40, 36073), (41, 36067), (42, 36046),

Gene: KillerQueen_51 Start: 36305, Stop: 36027, Start Num: 15
Candidate Starts for KillerQueen_51:
(8, 36416), (Start: 15 @36305 has 12 MA's), (29, 36152), (31, 36140), (37, 36092), (40, 36065), (41, 36059), (42, 36038),

Gene: Marcie_55 Start: 36924, Stop: 36652, Start Num: 15
Candidate Starts for Marcie_55:
(5, 37209), (6, 37194), (7, 37146), (8, 37035), (Start: 15 @36924 has 12 MA's), (20, 36894), (22, 36846), (29, 36777), (31, 36765), (37, 36717), (40, 36690), (41, 36684), (42, 36663),

Gene: Maruru_74 Start: 47670, Stop: 47918, Start Num: 15
Candidate Starts for Maruru_74:
(Start: 15 @47670 has 12 MA's), (32, 47841), (34, 47856), (41, 47913),

Gene: Merpity_45 Start: 28400, Stop: 28615, Start Num: 13
Candidate Starts for Merpity_45:
(Start: 11 @28382 has 4 MA's), (13, 28400), (17, 28418),

Gene: OneinaGillian_50 Start: 35958, Stop: 35680, Start Num: 15
Candidate Starts for OneinaGillian_50:
(Start: 15 @35958 has 12 MA's), (29, 35805), (31, 35793), (36, 35751), (37, 35745), (40, 35718), (42, 35691),

Gene: Orkz_77 Start: 42490, Stop: 42714, Start Num: 14
Candidate Starts for Orkz_77:
(14, 42490), (39, 42685),

Gene: Pepe25_49 Start: 35500, Stop: 35231, Start Num: 15
Candidate Starts for Pepe25_49:
(4, 35794), (7, 35722), (8, 35611), (Start: 15 @35500 has 12 MA's), (24, 35398), (29, 35353), (31, 35341), (33, 35323), (35, 35302), (38, 35293), (40, 35269), (41, 35263), (42, 35242),

Gene: RobinRose_52 Start: 36467, Stop: 36189, Start Num: 15
Candidate Starts for RobinRose_52:
(8, 36578), (Start: 15 @36467 has 12 MA's), (29, 36314), (31, 36302), (37, 36254), (40, 36227), (41, 36221), (42, 36200),

Gene: Romm_52 Start: 36467, Stop: 36189, Start Num: 15
Candidate Starts for Romm_52:
(8, 36578), (Start: 15 @36467 has 12 MA's), (29, 36314), (31, 36302), (37, 36254), (40, 36227), (41, 36221), (42, 36200),

Gene: SpicyFrank_92 Start: 49662, Stop: 49916, Start Num: 11
Candidate Starts for SpicyFrank_92:
(Start: 11 @49662 has 4 MA's), (26, 49812), (27, 49818), (30, 49842),

Gene: Tempo_50 Start: 36346, Stop: 36068, Start Num: 15
Candidate Starts for Tempo_50:
(8, 36457), (Start: 15 @36346 has 12 MA's), (29, 36193), (31, 36181), (36, 36139), (37, 36133), (40, 36106), (41, 36100), (42, 36079),

Gene: Toodles_61 Start: 39232, Stop: 39504, Start Num: 12

Candidate Starts for Toodles_61:
(12, 39232), (16, 39250), (21, 39325), (25, 39361),

Gene: Wilca_50 Start: 35488, Stop: 35219, Start Num: 15
Candidate Starts for Wilca_50:
(7, 35710), (8, 35599), (Start: 15 @35488 has 12 MA's), (22, 35410), (29, 35341), (31, 35329), (33, 35311), (35, 35290), (38, 35281), (40, 35257), (41, 35251), (42, 35230),

Gene: Zucker_90 Start: 50853, Stop: 51107, Start Num: 11
Candidate Starts for Zucker_90:
(Start: 11 @50853 has 4 MA's),