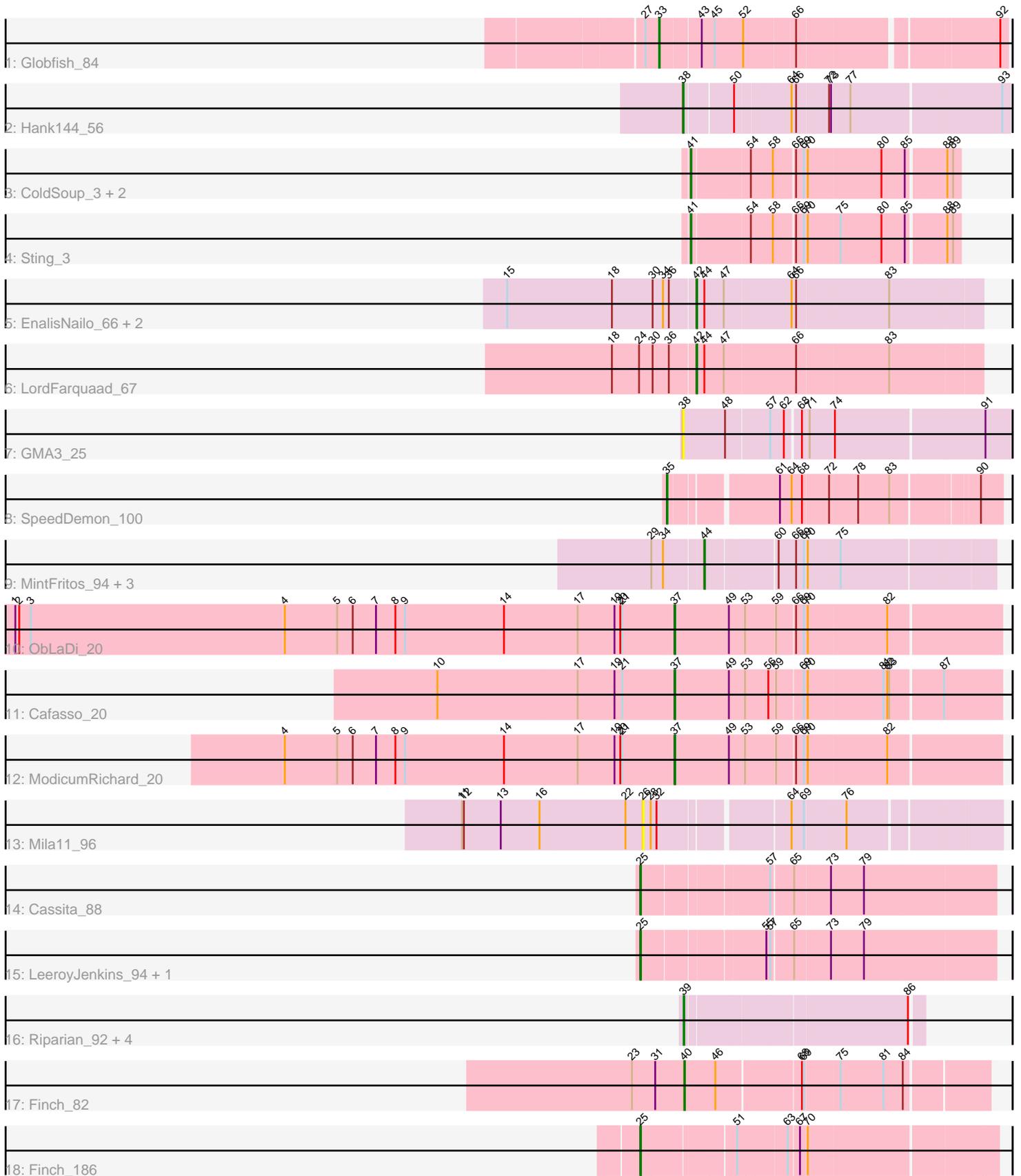


Pham 289630



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 289630 Report

This analysis was run 03/28/26 on database version 641.

Pham number 289630 has 30 members, 7 are drafts.

Phages represented in each track:

- Track 1 : Globfish_84
- Track 2 : Hank144_56
- Track 3 : ColdSoup_3, Jollymon_3, Amo99_3
- Track 4 : Sting_3
- Track 5 : EnalisNailo_66, Bradissa_67, Lilas_67
- Track 6 : LordFarquaad_67
- Track 7 : GMA3_25
- Track 8 : SpeedDemon_100
- Track 9 : MintFritos_94, Farrylious_96, Argena_96, ChisanaKitsune_96
- Track 10 : ObLaDi_20
- Track 11 : Cafasso_20
- Track 12 : ModicumRichard_20
- Track 13 : Mila11_96
- Track 14 : Cassita_88
- Track 15 : LeeroyJenkins_94, BarnCat_84
- Track 16 : Riparian_92, Papyrus_90, Weiss13_90, Nilo_93, Zenon_92
- Track 17 : Finch_82
- Track 18 : Finch_186

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

The start number called the most often in the published annotations is 39, it was called in 5 of the 23 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Nilo_93, Papyrus_90, Riparian_92, Weiss13_90, Zenon_92,

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

-

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

- Amo99_3, Argena_96, BarnCat_84, Bradissa_67, Cafasso_20, Cassita_88, ChisanaKitsune_96, ColdSoup_3, EnalisNailo_66, Farrylious_96, Finch_186, Finch_82, GMA3_25, Globfish_84, Hank144_56, Jollymon_3, LeeroyJenkins_94,

Lilas_67, LordFarquaad_67, Mila11_96, MintFritos_94, ModicumRichard_20, ObLaDi_20, SpeedDemon_100, Sting_3,

Summary by start number:

Start 25:

- Found in 4 of 30 (13.3%) of genes in pham
- Manual Annotations of this start: 4 of 23
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BarnCat_84 (GB), Cassita_88 (GB), Finch_186 (singleton), LeeroyJenkins_94 (GB),

Start 26:

- Found in 1 of 30 (3.3%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Mila11_96 (EG),

Start 33:

- Found in 1 of 30 (3.3%) of genes in pham
- Manual Annotations of this start: 1 of 23
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Globfish_84 (AY),

Start 35:

- Found in 1 of 30 (3.3%) of genes in pham
- Manual Annotations of this start: 1 of 23
- Called 100.0% of time when present
- Phage (with cluster) where this start called: SpeedDemon_100 (DL),

Start 37:

- Found in 3 of 30 (10.0%) of genes in pham
- Manual Annotations of this start: 3 of 23
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cafasso_20 (DZ), ModicumRichard_20 (DZ), ObLaDi_20 (DZ),

Start 38:

- Found in 2 of 30 (6.7%) of genes in pham
- Manual Annotations of this start: 1 of 23
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GMA3_25 (DF2), Hank144_56 (BD2),

Start 39:

- Found in 5 of 30 (16.7%) of genes in pham
- Manual Annotations of this start: 5 of 23
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Nilo_93 (R), Papyrus_90 (R), Riparian_92 (R), Weiss13_90 (R), Zenon_92 (R),

Start 40:

- Found in 1 of 30 (3.3%) of genes in pham
- Manual Annotations of this start: 1 of 23

- Called 100.0% of time when present
- Phage (with cluster) where this start called: Finch_82 (singleton),

Start 41:

- Found in 4 of 30 (13.3%) of genes in pham
- Manual Annotations of this start: 2 of 23
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Amo99_3 (CP), ColdSoup_3 (CP), Jollymon_3 (CP), Sting_3 (CP),

Start 42:

- Found in 4 of 30 (13.3%) of genes in pham
- Manual Annotations of this start: 4 of 23
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bradissa_67 (CY1), EnalisNailo_66 (CY1), Lilas_67 (CY1), LordFarquaad_67 (CZ2),

Start 44:

- Found in 8 of 30 (26.7%) of genes in pham
- Manual Annotations of this start: 1 of 23
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Argena_96 (DQ), ChisanaKitsune_96 (DQ), Farrylious_96 (DQ), MintFritos_94 (DQ),

Summary by clusters:

There are 13 clusters represented in this pham: CY1, singleton, CZ2, EG, DL, DF2, R, DZ, GB, BD2, AY, CP, DQ,

Info for manual annotations of cluster AY:

- Start number 33 was manually annotated 1 time for cluster AY.

Info for manual annotations of cluster BD2:

- Start number 38 was manually annotated 1 time for cluster BD2.

Info for manual annotations of cluster CP:

- Start number 41 was manually annotated 2 times for cluster CP.

Info for manual annotations of cluster CY1:

- Start number 42 was manually annotated 3 times for cluster CY1.

Info for manual annotations of cluster CZ2:

- Start number 42 was manually annotated 1 time for cluster CZ2.

Info for manual annotations of cluster DL:

- Start number 35 was manually annotated 1 time for cluster DL.

Info for manual annotations of cluster DQ:

- Start number 44 was manually annotated 1 time for cluster DQ.

Info for manual annotations of cluster DZ:

- Start number 37 was manually annotated 3 times for cluster DZ.

Info for manual annotations of cluster GB:

•Start number 25 was manually annotated 3 times for cluster GB.

Info for manual annotations of cluster R:

•Start number 39 was manually annotated 5 times for cluster R.

Gene Information:

Gene: Amo99_3 Start: 2875, Stop: 3255, Start Num: 41

Candidate Starts for Amo99_3:

(Start: 41 @2875 has 2 MA's), (54, 2959), (58, 2992), (66, 3019), (69, 3031), (70, 3034), (80, 3145), (85, 3181), (88, 3235), (89, 3244),

Gene: Argena_96 Start: 72813, Stop: 73226, Start Num: 44

Candidate Starts for Argena_96:

(29, 72738), (34, 72756), (Start: 44 @72813 has 1 MA's), (60, 72909), (66, 72936), (69, 72948), (70, 72951), (75, 72999),

Gene: BarnCat_84 Start: 47542, Stop: 47033, Start Num: 25

Candidate Starts for BarnCat_84:

(Start: 25 @47542 has 4 MA's), (55, 47371), (57, 47365), (65, 47335), (73, 47281), (79, 47233),

Gene: Bradissa_67 Start: 46915, Stop: 47334, Start Num: 42

Candidate Starts for Bradissa_67:

(15, 46627), (18, 46789), (30, 46852), (34, 46867), (36, 46876), (Start: 42 @46915 has 4 MA's), (Start: 44 @46927 has 1 MA's), (47, 46957), (64, 47056), (66, 47062), (83, 47200),

Gene: Cafasso_20 Start: 18713, Stop: 18225, Start Num: 37

Candidate Starts for Cafasso_20:

(10, 19079), (17, 18863), (19, 18806), (21, 18794), (Start: 37 @18713 has 3 MA's), (49, 18629), (53, 18605), (56, 18569), (59, 18560), (69, 18521), (70, 18515), (81, 18401), (82, 18395), (83, 18392), (87, 18314),

Gene: Cassita_88 Start: 48685, Stop: 48176, Start Num: 25

Candidate Starts for Cassita_88:

(Start: 25 @48685 has 4 MA's), (57, 48508), (65, 48478), (73, 48424), (79, 48376),

Gene: ChisanaKitsune_96 Start: 72440, Stop: 72853, Start Num: 44

Candidate Starts for ChisanaKitsune_96:

(29, 72365), (34, 72383), (Start: 44 @72440 has 1 MA's), (60, 72536), (66, 72563), (69, 72575), (70, 72578), (75, 72626),

Gene: ColdSoup_3 Start: 2875, Stop: 3255, Start Num: 41

Candidate Starts for ColdSoup_3:

(Start: 41 @2875 has 2 MA's), (54, 2959), (58, 2992), (66, 3019), (69, 3031), (70, 3034), (80, 3145), (85, 3181), (88, 3235), (89, 3244),

Gene: EnalisNailo_66 Start: 46449, Stop: 46868, Start Num: 42

Candidate Starts for EnalisNailo_66:

(15, 46161), (18, 46323), (30, 46386), (34, 46401), (36, 46410), (Start: 42 @46449 has 4 MA's), (Start: 44 @46461 has 1 MA's), (47, 46491), (64, 46590), (66, 46596), (83, 46734),

Gene: Farrylious_96 Start: 72578, Stop: 72991, Start Num: 44

Candidate Starts for Farrylious_96:

(29, 72503), (34, 72521), (Start: 44 @72578 has 1 MA's), (60, 72674), (66, 72701), (69, 72713), (70, 72716), (75, 72764),

Gene: Finch_82 Start: 71334, Stop: 71777, Start Num: 40

Candidate Starts for Finch_82:

(23, 71253), (31, 71289), (Start: 40 @71334 has 1 MA's), (46, 71382), (68, 71505), (69, 71508), (75, 71559), (81, 71625), (84, 71655),

Gene: Finch_186 Start: 111122, Stop: 111628, Start Num: 25

Candidate Starts for Finch_186:

(Start: 25 @111122 has 4 MA's), (51, 111254), (63, 111326), (67, 111341), (70, 111350),

Gene: GMA3_25 Start: 35593, Stop: 36075, Start Num: 38

Candidate Starts for GMA3_25:

(Start: 38 @35593 has 1 MA's), (48, 35656), (57, 35722), (62, 35743), (68, 35764), (71, 35773), (74, 35809), (91, 36034),

Gene: Globfish_84 Start: 46529, Stop: 47017, Start Num: 33

Candidate Starts for Globfish_84:

(27, 46508), (Start: 33 @46529 has 1 MA's), (43, 46586), (45, 46604), (52, 46646), (66, 46721), (92, 47006),

Gene: Hank144_56 Start: 39762, Stop: 39295, Start Num: 38

Candidate Starts for Hank144_56:

(Start: 38 @39762 has 1 MA's), (50, 39693), (64, 39615), (66, 39609), (72, 39561), (73, 39558), (77, 39531), (93, 39306),

Gene: Jollymon_3 Start: 2875, Stop: 3255, Start Num: 41

Candidate Starts for Jollymon_3:

(Start: 41 @2875 has 2 MA's), (54, 2959), (58, 2992), (66, 3019), (69, 3031), (70, 3034), (80, 3145), (85, 3181), (88, 3235), (89, 3244),

Gene: LeeroyJenkins_94 Start: 49860, Stop: 49351, Start Num: 25

Candidate Starts for LeeroyJenkins_94:

(Start: 25 @49860 has 4 MA's), (55, 49689), (57, 49683), (65, 49653), (73, 49599), (79, 49551),

Gene: Lilas_67 Start: 47987, Stop: 48406, Start Num: 42

Candidate Starts for Lilas_67:

(15, 47699), (18, 47861), (30, 47924), (34, 47939), (36, 47948), (Start: 42 @47987 has 4 MA's), (Start: 44 @47999 has 1 MA's), (47, 48029), (64, 48128), (66, 48134), (83, 48272),

Gene: LordFarquaad_67 Start: 43212, Stop: 43631, Start Num: 42

Candidate Starts for LordFarquaad_67:

(18, 43086), (24, 43128), (30, 43149), (36, 43173), (Start: 42 @43212 has 4 MA's), (Start: 44 @43224 has 1 MA's), (47, 43254), (66, 43359), (83, 43497),

Gene: Mila11_96 Start: 59511, Stop: 59011, Start Num: 26

Candidate Starts for Mila11_96:

(11, 59790), (12, 59787), (13, 59730), (16, 59670), (22, 59538), (26, 59511), (28, 59499), (32, 59490), (64, 59310), (69, 59292), (76, 59232),

Gene: MintFritos_94 Start: 72730, Stop: 73143, Start Num: 44

Candidate Starts for MintFritos_94:

(29, 72655), (34, 72673), (Start: 44 @72730 has 1 MA's), (60, 72826), (66, 72853), (69, 72865), (70, 72868), (75, 72916),

Gene: ModicumRichard_20 Start: 18713, Stop: 18225, Start Num: 37

Candidate Starts for ModicumRichard_20:

(4, 19316), (5, 19235), (6, 19211), (7, 19175), (8, 19145), (9, 19130), (14, 18977), (17, 18863), (19, 18806), (20, 18797), (21, 18794), (Start: 37 @18713 has 3 MA's), (49, 18629), (53, 18605), (59, 18560), (66, 18533), (69, 18521), (70, 18515), (82, 18395),

Gene: Nilo_93 Start: 65105, Stop: 65443, Start Num: 39

Candidate Starts for Nilo_93:

(Start: 39 @65105 has 5 MA's), (86, 65426),

Gene: ObLaDi_20 Start: 18692, Stop: 18204, Start Num: 37

Candidate Starts for ObLaDi_20:

(1, 19712), (2, 19706), (3, 19688), (4, 19295), (5, 19214), (6, 19190), (7, 19154), (8, 19124), (9, 19109), (14, 18956), (17, 18842), (19, 18785), (20, 18776), (21, 18773), (Start: 37 @18692 has 3 MA's), (49, 18608), (53, 18584), (59, 18539), (66, 18512), (69, 18500), (70, 18494), (82, 18374),

Gene: Papyrus_90 Start: 64039, Stop: 64377, Start Num: 39

Candidate Starts for Papyrus_90:

(Start: 39 @64039 has 5 MA's), (86, 64360),

Gene: Riparian_92 Start: 64551, Stop: 64889, Start Num: 39

Candidate Starts for Riparian_92:

(Start: 39 @64551 has 5 MA's), (86, 64872),

Gene: SpeedDemon_100 Start: 4893, Stop: 5351, Start Num: 35

Candidate Starts for SpeedDemon_100:

(Start: 35 @4893 has 1 MA's), (61, 5040), (64, 5055), (68, 5070), (72, 5109), (78, 5151), (83, 5199), (90, 5319),

Gene: Sting_3 Start: 2872, Stop: 3252, Start Num: 41

Candidate Starts for Sting_3:

(Start: 41 @2872 has 2 MA's), (54, 2956), (58, 2989), (66, 3016), (69, 3028), (70, 3031), (75, 3079), (80, 3142), (85, 3178), (88, 3232), (89, 3241),

Gene: Weiss13_90 Start: 64788, Stop: 65126, Start Num: 39

Candidate Starts for Weiss13_90:

(Start: 39 @64788 has 5 MA's), (86, 65109),

Gene: Zenon_92 Start: 65114, Stop: 65452, Start Num: 39

Candidate Starts for Zenon_92:

(Start: 39 @65114 has 5 MA's), (86, 65435),