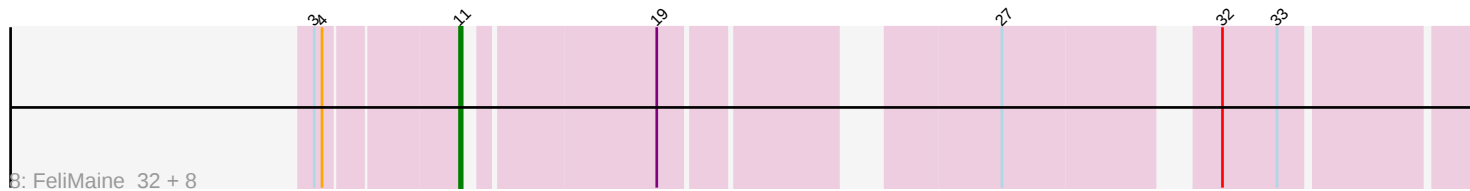
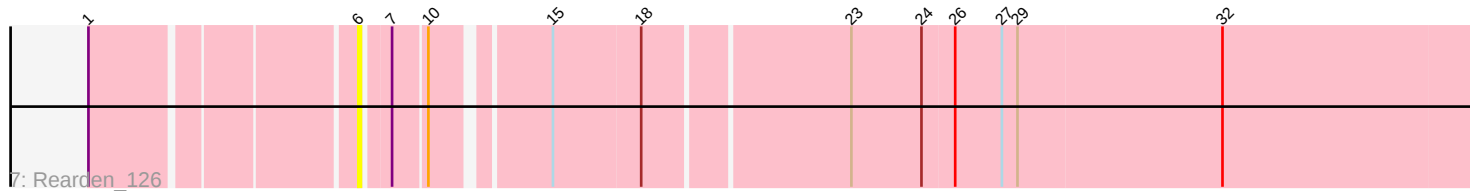
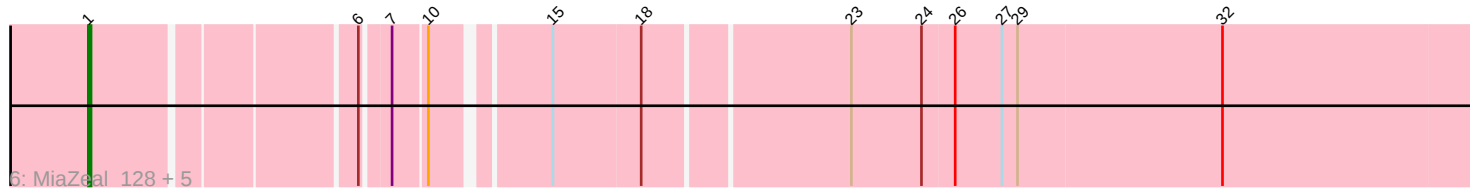
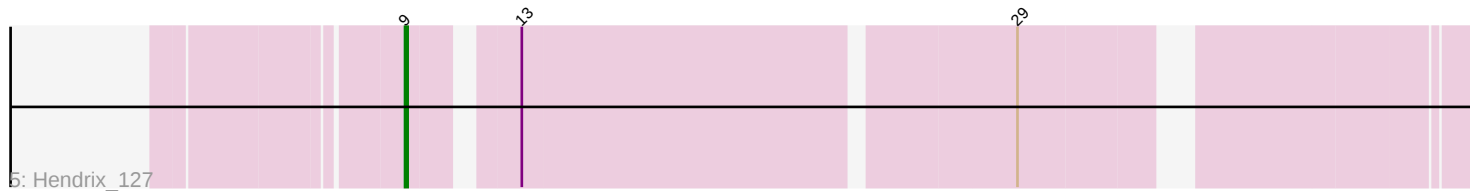
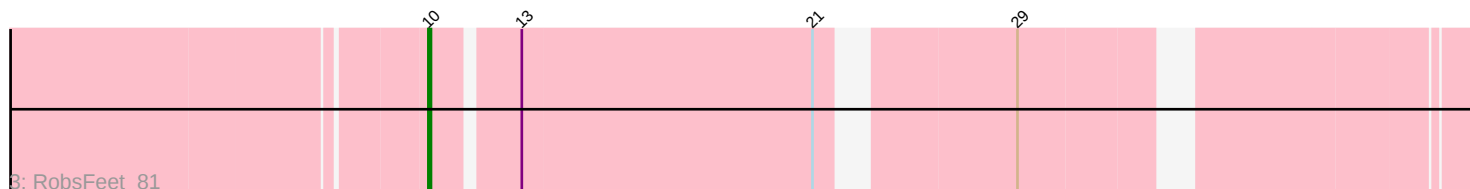
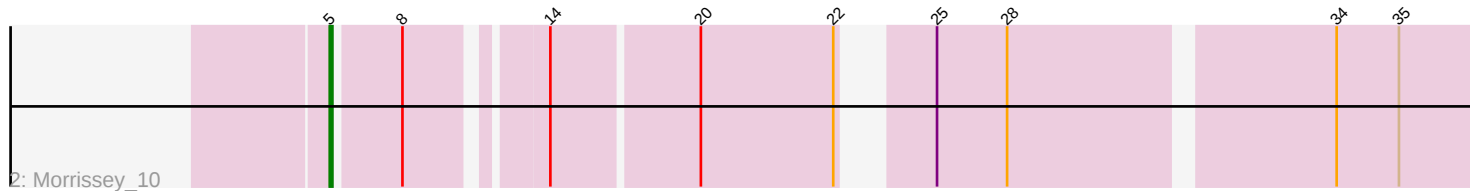
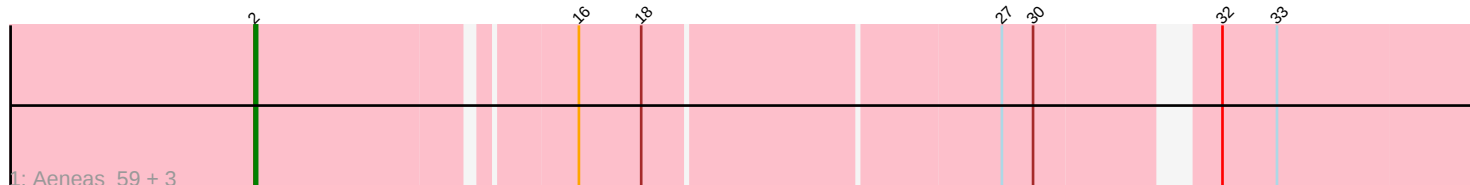


Pham 331190



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 331190 Report

This analysis was run 09/05/26 on database version 662.

Pham number 331190 has 24 members, 5 are drafts.

Phages represented in each track:

- Track 1 : Aeneas_59, Mule_54, Smairt_59, PhrostyMug_55
- Track 2 : Morrissey_10
- Track 3 : RobsFeet_81
- Track 4 : ClearAsMud_18
- Track 5 : Hendrix_127
- Track 6 : MiaZeal_128, Nibley_125, Gonephishing_122, Nekros_131, Shaboozey_129, Squint_126
- Track 7 : Rearden_126
- Track 8 : FeliMaine_32, JoieB_32, Beelzebub_35, Clarkson_32, Pringar_31, Caprice_29, VasuNzinga_31, Huphlepuuff_33, LittleLaf_31

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

The start number called the most often in the published annotations is 11, it was called in 9 of the 19 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Beelzebub_35, Caprice_29, Clarkson_32, FeliMaine_32, Huphlepuuff_33, JoieB_32, LittleLaf_31, Pringar_31, VasuNzinga_31,

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

-

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

- Aeneas_59, ClearAsMud_18, Gonephishing_122, Hendrix_127, MiaZeal_128, Morrissey_10, Mule_54, Nekros_131, Nibley_125, PhrostyMug_55, Rearden_126, RobsFeet_81, Shaboozey_129, Smairt_59, Squint_126,

Summary by start number:

Start 1:

- Found in 7 of 24 (29.2%) of genes in pham
- Manual Annotations of this start: 2 of 19
- Called 85.7% of time when present

- Phage (with cluster) where this start called: Gonephishing_122 (J), MiaZeal_128 (J), Nekros_131 (J), Nibley_125 (J), Shaboozey_129 (J), Squint_126 (J),

Start 2:

- Found in 4 of 24 (16.7%) of genes in pham
- Manual Annotations of this start: 4 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aeneas_59 (A1), Mule_54 (A1), PhrostyMug_55 (A1), Smairt_59 (A1),

Start 5:

- Found in 1 of 24 (4.2%) of genes in pham
- Manual Annotations of this start: 1 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Morrissey_10 (CD),

Start 6:

- Found in 7 of 24 (29.2%) of genes in pham
- No Manual Annotations of this start.
- Called 14.3% of time when present
- Phage (with cluster) where this start called: Rearden_126 (J),

Start 9:

- Found in 1 of 24 (4.2%) of genes in pham
- Manual Annotations of this start: 1 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Hendrix_127 (GC),

Start 10:

- Found in 8 of 24 (33.3%) of genes in pham
- Manual Annotations of this start: 1 of 19
- Called 12.5% of time when present
- Phage (with cluster) where this start called: RobsFeet_81 (EC),

Start 11:

- Found in 9 of 24 (37.5%) of genes in pham
- Manual Annotations of this start: 9 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Beelzebub_35 (S), Caprice_29 (S), Clarkson_32 (S), FeliMaine_32 (S), Huphlepuuff_33 (S), JoieB_32 (S), LittleLaf_31 (S), Pringar_31 (S), VasuNzinga_31 (S),

Start 17:

- Found in 1 of 24 (4.2%) of genes in pham
- Manual Annotations of this start: 1 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ClearAsMud_18 (EC),

Summary by clusters:

There are 6 clusters represented in this pham: J, EC, CD, A1, S, GC,

Info for manual annotations of cluster A1:

- Start number 2 was manually annotated 4 times for cluster A1.

Info for manual annotations of cluster CD:

- Start number 5 was manually annotated 1 time for cluster CD.

Info for manual annotations of cluster EC:

- Start number 10 was manually annotated 1 time for cluster EC.
- Start number 17 was manually annotated 1 time for cluster EC.

Info for manual annotations of cluster GC:

- Start number 9 was manually annotated 1 time for cluster GC.

Info for manual annotations of cluster J:

- Start number 1 was manually annotated 2 times for cluster J.

Info for manual annotations of cluster S:

- Start number 11 was manually annotated 9 times for cluster S.

Gene Information:

Gene: Aeneas_59 Start: 40763, Stop: 40299, Start Num: 2

Candidate Starts for Aeneas_59:

(Start: 2 @40763 has 4 MA's), (16, 40649), (18, 40625), (27, 40493), (30, 40481), (32, 40424), (33, 40403),

Gene: Beelzebub_35 Start: 9572, Stop: 9919, Start Num: 11

Candidate Starts for Beelzebub_35:

(3, 9521), (4, 9524), (Start: 11 @9572 has 9 MA's), (19, 9638), (27, 9746), (32, 9815), (33, 9836),

Gene: Caprice_29 Start: 8136, Stop: 8483, Start Num: 11

Candidate Starts for Caprice_29:

(3, 8085), (4, 8088), (Start: 11 @8136 has 9 MA's), (19, 8202), (27, 8310), (32, 8379), (33, 8400),

Gene: Clarkson_32 Start: 9273, Stop: 9620, Start Num: 11

Candidate Starts for Clarkson_32:

(3, 9222), (4, 9225), (Start: 11 @9273 has 9 MA's), (19, 9339), (27, 9447), (32, 9516), (33, 9537),

Gene: ClearAsMud_18 Start: 7804, Stop: 8094, Start Num: 17

Candidate Starts for ClearAsMud_18:

(12, 7747), (13, 7765), (Start: 17 @7804 has 1 MA's), (29, 7927), (31, 7948),

Gene: FeliMaine_32 Start: 9274, Stop: 9621, Start Num: 11

Candidate Starts for FeliMaine_32:

(3, 9223), (4, 9226), (Start: 11 @9274 has 9 MA's), (19, 9340), (27, 9448), (32, 9517), (33, 9538),

Gene: Gonephishing_122 Start: 66828, Stop: 67358, Start Num: 1

Candidate Starts for Gonephishing_122:

(Start: 1 @66828 has 2 MA's), (6, 66921), (7, 66930), (Start: 10 @66942 has 1 MA's), (15, 66981), (18, 67014), (23, 67089), (24, 67116), (26, 67128), (27, 67146), (29, 67152), (32, 67230),

Gene: Hendrix_127 Start: 81520, Stop: 81882, Start Num: 9

Candidate Starts for Hendrix_127:

(Start: 9 @81520 has 1 MA's), (13, 81553), (29, 81733),

Gene: Huphlebuff_33 Start: 9078, Stop: 9425, Start Num: 11

Candidate Starts for Huphlebuff_33:

(3, 9027), (4, 9030), (Start: 11 @9078 has 9 MA's), (19, 9144), (27, 9252), (32, 9321), (33, 9342),

Gene: JoieB_32 Start: 9297, Stop: 9644, Start Num: 11

Candidate Starts for JoieB_32:

(3, 9246), (4, 9249), (Start: 11 @9297 has 9 MA's), (19, 9363), (27, 9471), (32, 9540), (33, 9561),

Gene: LittleLaf_31 Start: 9003, Stop: 9350, Start Num: 11

Candidate Starts for LittleLaf_31:

(3, 8952), (4, 8955), (Start: 11 @9003 has 9 MA's), (19, 9069), (27, 9177), (32, 9246), (33, 9267),

Gene: MiaZeal_128 Start: 68487, Stop: 69017, Start Num: 1

Candidate Starts for MiaZeal_128:

(Start: 1 @68487 has 2 MA's), (6, 68580), (7, 68589), (Start: 10 @68601 has 1 MA's), (15, 68640), (18, 68673), (23, 68748), (24, 68775), (26, 68787), (27, 68805), (29, 68811), (32, 68889),

Gene: Morrissey_10 Start: 7151, Stop: 7570, Start Num: 5

Candidate Starts for Morrissey_10:

(Start: 5 @7151 has 1 MA's), (8, 7175), (14, 7220), (20, 7274), (22, 7325), (25, 7346), (28, 7373), (34, 7490), (35, 7514),

Gene: Mule_54 Start: 38049, Stop: 37585, Start Num: 2

Candidate Starts for Mule_54:

(Start: 2 @38049 has 4 MA's), (16, 37935), (18, 37911), (27, 37779), (30, 37767), (32, 37710), (33, 37689),

Gene: Nekros_131 Start: 71983, Stop: 72513, Start Num: 1

Candidate Starts for Nekros_131:

(Start: 1 @71983 has 2 MA's), (6, 72076), (7, 72085), (Start: 10 @72097 has 1 MA's), (15, 72136), (18, 72169), (23, 72244), (24, 72271), (26, 72283), (27, 72301), (29, 72307), (32, 72385),

Gene: Nibley_125 Start: 68366, Stop: 68896, Start Num: 1

Candidate Starts for Nibley_125:

(Start: 1 @68366 has 2 MA's), (6, 68459), (7, 68468), (Start: 10 @68480 has 1 MA's), (15, 68519), (18, 68552), (23, 68627), (24, 68654), (26, 68666), (27, 68684), (29, 68690), (32, 68768),

Gene: PhrostyMug_55 Start: 40223, Stop: 39759, Start Num: 2

Candidate Starts for PhrostyMug_55:

(Start: 2 @40223 has 4 MA's), (16, 40109), (18, 40085), (27, 39953), (30, 39941), (32, 39884), (33, 39863),

Gene: Pringar_31 Start: 8903, Stop: 9250, Start Num: 11

Candidate Starts for Pringar_31:

(3, 8852), (4, 8855), (Start: 11 @8903 has 9 MA's), (19, 8969), (27, 9077), (32, 9146), (33, 9167),

Gene: Rearden_126 Start: 68479, Stop: 68916, Start Num: 6

Candidate Starts for Rearden_126:

(Start: 1 @68386 has 2 MA's), (6, 68479), (7, 68488), (Start: 10 @68500 has 1 MA's), (15, 68539), (18, 68572), (23, 68647), (24, 68674), (26, 68686), (27, 68704), (29, 68710), (32, 68788),

Gene: RobsFeet_81 Start: 46826, Stop: 47179, Start Num: 10

Candidate Starts for RobsFeet_81:

(Start: 10 @46826 has 1 MA's), (13, 46856), (21, 46967), (29, 47030),

Gene: Shaboozey_129 Start: 68810, Stop: 69340, Start Num: 1

Candidate Starts for Shaboozey_129:

(Start: 1 @68810 has 2 MA's), (6, 68903), (7, 68912), (Start: 10 @68924 has 1 MA's), (15, 68963), (18, 68996), (23, 69071), (24, 69098), (26, 69110), (27, 69128), (29, 69134), (32, 69212),

Gene: Smairt_59 Start: 41216, Stop: 40752, Start Num: 2

Candidate Starts for Smairt_59:

(Start: 2 @41216 has 4 MA's), (16, 41102), (18, 41078), (27, 40946), (30, 40934), (32, 40877), (33, 40856),

Gene: Squint_126 Start: 68600, Stop: 69130, Start Num: 1

Candidate Starts for Squint_126:

(Start: 1 @68600 has 2 MA's), (6, 68693), (7, 68702), (Start: 10 @68714 has 1 MA's), (15, 68753), (18, 68786), (23, 68861), (24, 68888), (26, 68900), (27, 68918), (29, 68924), (32, 69002),

Gene: VasuNzinga_31 Start: 8480, Stop: 8827, Start Num: 11

Candidate Starts for VasuNzinga_31:

(3, 8429), (4, 8432), (Start: 11 @8480 has 9 MA's), (19, 8546), (27, 8654), (32, 8723), (33, 8744),