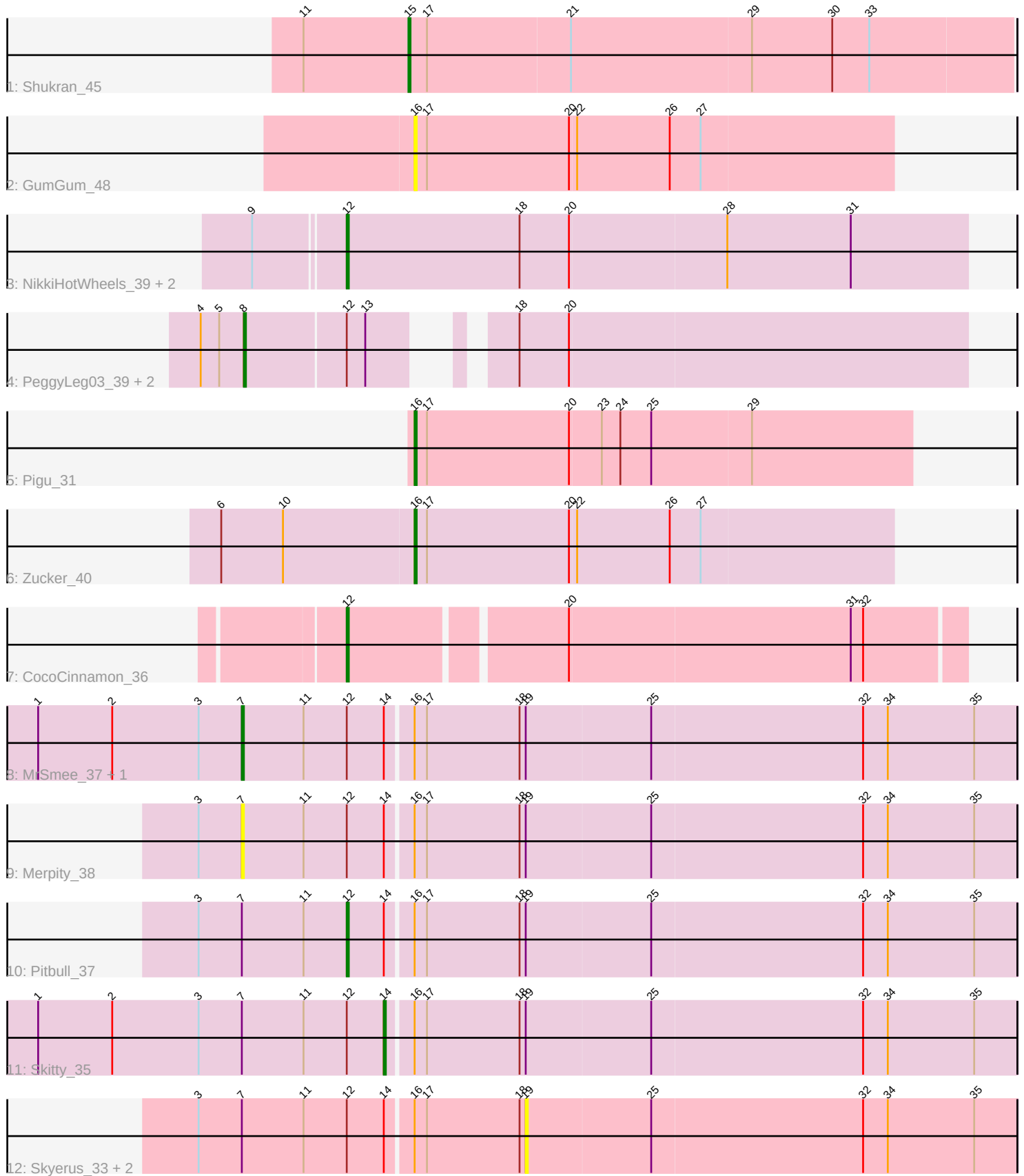


Pham 331280



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 331280 Report

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

Pham number 331280 has 19 members, 7 are drafts.

Phages represented in each track:

- Track 1 : Shukran_45
- Track 2 : GumGum_48
- Track 3 : NikkiHotWheels_39, Henrique_39, HotPotato_38
- Track 4 : PeggyLeg03_39, Pucara_36, Karkharias_39
- Track 5 : Pigu_31
- Track 6 : Zucker_40
- Track 7 : CocoCinnamon_36
- Track 8 : MrSmee_37, Hum25_38
- Track 9 : Merpity_38
- Track 10 : Pitbull_37
- Track 11 : Skitty_35
- Track 12 : Skyerus_33, Neroxid_37, Raya_37

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

The start number called the most often in the published annotations is 12, it was called in 4 of the 12 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- CocoCinnamon_36, Henrique_39, HotPotato_38, NikkiHotWheels_39, Pitbull_37,

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

- Hum25_38, Karkharias_39, Merpity_38, MrSmee_37, Neroxid_37, PeggyLeg03_39, Pucara_36, Raya_37, Skitty_35, Skyerus_33,

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

- GumGum_48, Pigu_31, Shukran_45, Zucker_40,

Summary by start number:

Start 7:

- Found in 8 of 19 (42.1%) of genes in pham
- Manual Annotations of this start: 2 of 12
- Called 37.5% of time when present

- Phage (with cluster) where this start called: Hum25_38 (FQ1), Merpity_38 (FQ1), MrSmee_37 (FQ1),

Start 8:

- Found in 3 of 19 (15.8%) of genes in pham
- Manual Annotations of this start: 2 of 12
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Karkharias_39 (FA), PeggyLeg03_39 (FA), Pucara_36 (FA),

Start 12:

- Found in 15 of 19 (78.9%) of genes in pham
- Manual Annotations of this start: 4 of 12
- Called 33.3% of time when present
- Phage (with cluster) where this start called: CocoCinnamon_36 (FO), Henrique_39 (FA), HotPotato_38 (FA), NikkiHotWheels_39 (FA), Pitbull_37 (FQ1),

Start 14:

- Found in 8 of 19 (42.1%) of genes in pham
- Manual Annotations of this start: 1 of 12
- Called 12.5% of time when present
- Phage (with cluster) where this start called: Skitty_35 (FQ1),

Start 15:

- Found in 1 of 19 (5.3%) of genes in pham
- Manual Annotations of this start: 1 of 12
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Shukran_45 (AY),

Start 16:

- Found in 11 of 19 (57.9%) of genes in pham
- Manual Annotations of this start: 2 of 12
- Called 27.3% of time when present
- Phage (with cluster) where this start called: GumGum_48 (AY), Pigu_31 (FB), Zucker_40 (FN),

Start 19:

- Found in 8 of 19 (42.1%) of genes in pham
- No Manual Annotations of this start.
- Called 37.5% of time when present
- Phage (with cluster) where this start called: Neroxid_37 (FQ2), Raya_37 (FQ2), Skyerus_33 (FQ2),

Summary by clusters:

There are 7 clusters represented in this pham: FQ2, FA, FB, AY, FQ1, FN, FO,

Info for manual annotations of cluster AY:

- Start number 15 was manually annotated 1 time for cluster AY.

Info for manual annotations of cluster FA:

- Start number 8 was manually annotated 2 times for cluster FA.
- Start number 12 was manually annotated 2 times for cluster FA.

Info for manual annotations of cluster FB:

- Start number 16 was manually annotated 1 time for cluster FB.

Info for manual annotations of cluster FN:

- Start number 16 was manually annotated 1 time for cluster FN.

Info for manual annotations of cluster FO:

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

Info for manual annotations of cluster FQ1:

- Start number 7 was manually annotated 2 times for cluster FQ1.
- Start number 12 was manually annotated 1 time for cluster FQ1.
- Start number 14 was manually annotated 1 time for cluster FQ1.

Gene Information:

Gene: CocoCinnamon_36 Start: 26265, Stop: 26552, Start Num: 12

Candidate Starts for CocoCinnamon_36:

(Start: 12 @26265 has 4 MA's), (20, 26364), (31, 26499), (32, 26505),

Gene: GumGum_48 Start: 30386, Stop: 30156, Start Num: 16

Candidate Starts for GumGum_48:

(Start: 16 @30386 has 2 MA's), (17, 30380), (20, 30311), (22, 30308), (26, 30263), (27, 30248),

Gene: Henrique_39 Start: 27776, Stop: 28075, Start Num: 12

Candidate Starts for Henrique_39:

(9, 27734), (Start: 12 @27776 has 4 MA's), (18, 27860), (20, 27884), (28, 27959), (31, 28019),

Gene: HotPotato_38 Start: 28340, Stop: 28639, Start Num: 12

Candidate Starts for HotPotato_38:

(9, 28298), (Start: 12 @28340 has 4 MA's), (18, 28424), (20, 28448), (28, 28523), (31, 28583),

Gene: Hum25_38 Start: 26145, Stop: 25774, Start Num: 7

Candidate Starts for Hum25_38:

(1, 26244), (2, 26208), (3, 26166), (Start: 7 @26145 has 2 MA's), (11, 26115), (Start: 12 @26094 has 4 MA's), (Start: 14 @26076 has 1 MA's), (Start: 16 @26064 has 2 MA's), (17, 26058), (18, 26013), (19, 26010), (25, 25950), (32, 25848), (34, 25836), (35, 25794),

Gene: Karkharias_39 Start: 28202, Stop: 28516, Start Num: 8

Candidate Starts for Karkharias_39:

(4, 28181), (5, 28190), (Start: 8 @28202 has 2 MA's), (Start: 12 @28250 has 4 MA's), (13, 28259), (18, 28301), (20, 28325),

Gene: Merpity_38 Start: 26598, Stop: 26227, Start Num: 7

Candidate Starts for Merpity_38:

(3, 26619), (Start: 7 @26598 has 2 MA's), (11, 26568), (Start: 12 @26547 has 4 MA's), (Start: 14 @26529 has 1 MA's), (Start: 16 @26517 has 2 MA's), (17, 26511), (18, 26466), (19, 26463), (25, 26403), (32, 26301), (34, 26289), (35, 26247),

Gene: MrSmee_37 Start: 26784, Stop: 26413, Start Num: 7

Candidate Starts for MrSmee_37:

(1, 26883), (2, 26847), (3, 26805), (Start: 7 @26784 has 2 MA's), (11, 26754), (Start: 12 @26733 has 4 MA's), (Start: 14 @26715 has 1 MA's), (Start: 16 @26703 has 2 MA's), (17, 26697), (18, 26652), (19, 26649), (25, 26589), (32, 26487), (34, 26475), (35, 26433),

Gene: Neroxid_37 Start: 25328, Stop: 25092, Start Num: 19

Candidate Starts for Neroxid_37:

(3, 25484), (Start: 7 @25463 has 2 MA's), (11, 25433), (Start: 12 @25412 has 4 MA's), (Start: 14 @25394 has 1 MA's), (Start: 16 @25382 has 2 MA's), (17, 25376), (18, 25331), (19, 25328), (25, 25268), (32, 25166), (34, 25154), (35, 25112),

Gene: NikkiHotWheels_39 Start: 27769, Stop: 28068, Start Num: 12

Candidate Starts for NikkiHotWheels_39:

(9, 27727), (Start: 12 @27769 has 4 MA's), (18, 27853), (20, 27877), (28, 27952), (31, 28012),

Gene: PeggyLeg03_39 Start: 28437, Stop: 28751, Start Num: 8

Candidate Starts for PeggyLeg03_39:

(4, 28416), (5, 28425), (Start: 8 @28437 has 2 MA's), (Start: 12 @28485 has 4 MA's), (13, 28494), (18, 28536), (20, 28560),

Gene: Pigu_31 Start: 24557, Stop: 24318, Start Num: 16

Candidate Starts for Pigu_31:

(Start: 16 @24557 has 2 MA's), (17, 24551), (20, 24482), (23, 24467), (24, 24458), (25, 24443), (29, 24395),

Gene: Pitbull_37 Start: 25814, Stop: 25494, Start Num: 12

Candidate Starts for Pitbull_37:

(3, 25886), (Start: 7 @25865 has 2 MA's), (11, 25835), (Start: 12 @25814 has 4 MA's), (Start: 14 @25796 has 1 MA's), (Start: 16 @25784 has 2 MA's), (17, 25778), (18, 25733), (19, 25730), (25, 25670), (32, 25568), (34, 25556), (35, 25514),

Gene: Pucara_36 Start: 28042, Stop: 28356, Start Num: 8

Candidate Starts for Pucara_36:

(4, 28021), (5, 28030), (Start: 8 @28042 has 2 MA's), (Start: 12 @28090 has 4 MA's), (13, 28099), (18, 28141), (20, 28165),

Gene: Raya_37 Start: 25328, Stop: 25092, Start Num: 19

Candidate Starts for Raya_37:

(3, 25484), (Start: 7 @25463 has 2 MA's), (11, 25433), (Start: 12 @25412 has 4 MA's), (Start: 14 @25394 has 1 MA's), (Start: 16 @25382 has 2 MA's), (17, 25376), (18, 25331), (19, 25328), (25, 25268), (32, 25166), (34, 25154), (35, 25112),

Gene: Shukran_45 Start: 29468, Stop: 29178, Start Num: 15

Candidate Starts for Shukran_45:

(11, 29519), (Start: 15 @29468 has 1 MA's), (17, 29459), (21, 29390), (29, 29303), (30, 29264), (33, 29246),

Gene: Skitty_35 Start: 25342, Stop: 25040, Start Num: 14

Candidate Starts for Skitty_35:

(1, 25510), (2, 25474), (3, 25432), (Start: 7 @25411 has 2 MA's), (11, 25381), (Start: 12 @25360 has 4 MA's), (Start: 14 @25342 has 1 MA's), (Start: 16 @25330 has 2 MA's), (17, 25324), (18, 25279), (19, 25276), (25, 25216), (32, 25114), (34, 25102), (35, 25060),

Gene: Skyerus_33 Start: 23446, Stop: 23210, Start Num: 19

Candidate Starts for Skyerus_33:

(3, 23602), (Start: 7 @23581 has 2 MA's), (11, 23551), (Start: 12 @23530 has 4 MA's), (Start: 14 @23512 has 1 MA's), (Start: 16 @23500 has 2 MA's), (17, 23494), (18, 23449), (19, 23446), (25, 23386), (32, 23284), (34, 23272), (35, 23230),

Gene: Zucker_40 Start: 29401, Stop: 29171, Start Num: 16

Candidate Starts for Zucker_40:

(6, 29494), (10, 29464), (Start: 16 @29401 has 2 MA's), (17, 29395), (20, 29326), (22, 29323), (26, 29278), (27, 29263),