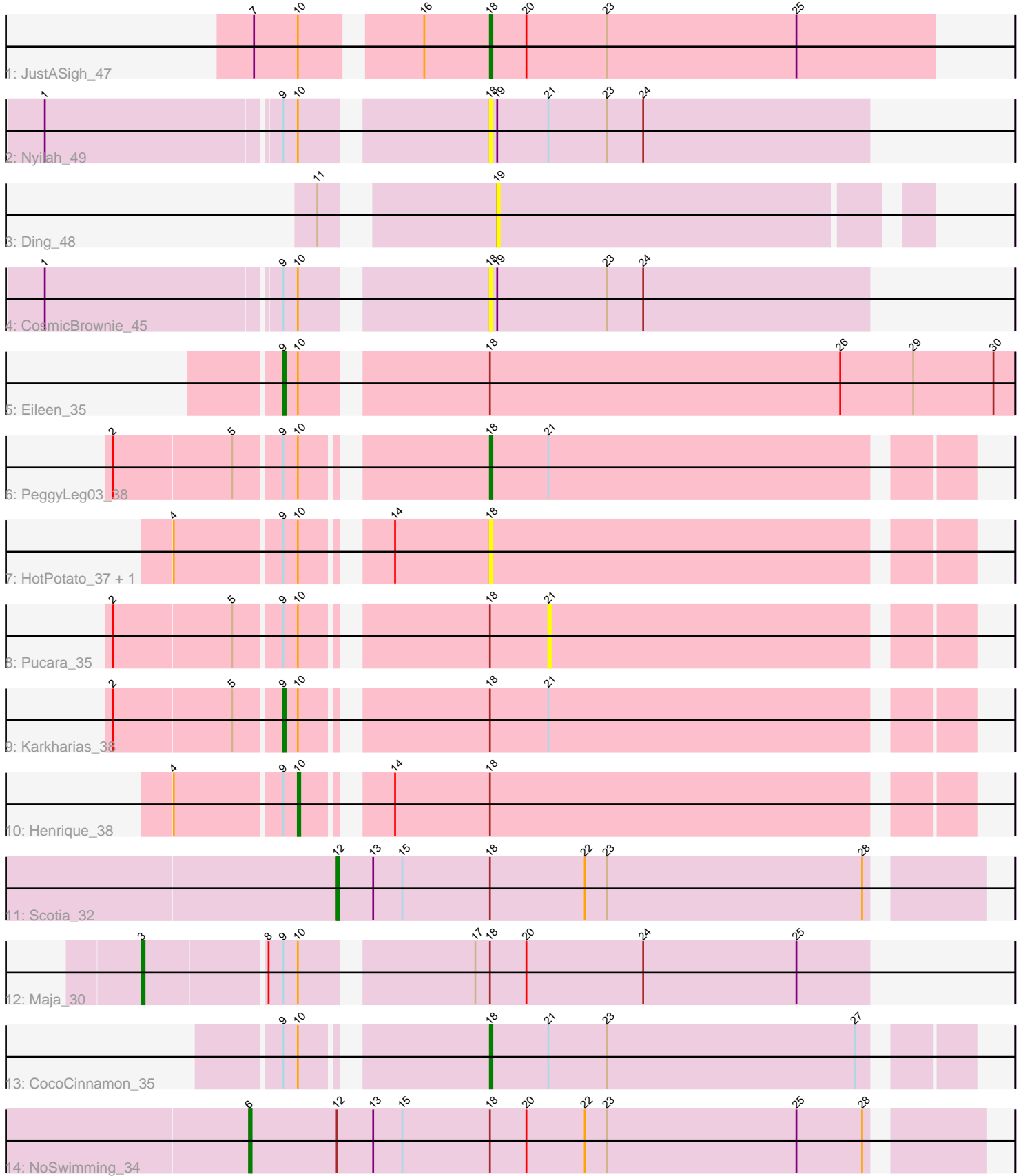


Pham 303751



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 303751 Report

This analysis was run 06/08/26 on database version 649.

Pham number 303751 has 15 members, 6 are drafts.

Phages represented in each track:

- Track 1 : JustASigh_47
- Track 2 : Nyilah_49
- Track 3 : Ding_48
- Track 4 : CosmicBrownie_45
- Track 5 : Eileen_35
- Track 6 : PeggyLeg03_38
- Track 7 : HotPotato_37, NikkiHotWheels_39
- Track 8 : Pucara_35
- Track 9 : Karkharias_38
- Track 10 : Henrique_38
- Track 11 : Scotia_32
- Track 12 : Maja_30
- Track 13 : CocoCinnamon_35
- Track 14 : NoSwimming_34

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

The start number called the most often in the published annotations is 18, it was called in 3 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- CocoCinnamon_35, CosmicBrownie_45, HotPotato_37, JustASigh_47, NikkiHotWheels_39, Nyilah_49, PeggyLeg03_38,

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

- Eileen_35, Henrique_38, Karkharias_38, Maja_30, NoSwimming_34, Pucara_35, Scotia_32,

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

- Ding_48,

Summary by start number:

Start 3:

- Found in 1 of 15 (6.7%) of genes in pham
- Manual Annotations of this start: 1 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Maja_30 (FO),

Start 6:

- Found in 1 of 15 (6.7%) of genes in pham
- Manual Annotations of this start: 1 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: NoSwimming_34 (FO),

Start 9:

- Found in 11 of 15 (73.3%) of genes in pham
- Manual Annotations of this start: 2 of 9
- Called 18.2% of time when present
- Phage (with cluster) where this start called: Eileen_35 (FA), Karkharias_38 (FA),

Start 10:

- Found in 12 of 15 (80.0%) of genes in pham
- Manual Annotations of this start: 1 of 9
- Called 8.3% of time when present
- Phage (with cluster) where this start called: Henrique_38 (FA),

Start 12:

- Found in 2 of 15 (13.3%) of genes in pham
- Manual Annotations of this start: 1 of 9
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Scotia_32 (FO),

Start 18:

- Found in 14 of 15 (93.3%) of genes in pham
- Manual Annotations of this start: 3 of 9
- Called 50.0% of time when present
- Phage (with cluster) where this start called: CocoCinnamon_35 (FO), CosmicBrownie_45 (AY), HotPotato_37 (FA), JustASigh_47 (AH), NikkiHotWheels_39 (FA), Nyilah_49 (AY), PeggyLeg03_38 (FA),

Start 19:

- Found in 3 of 15 (20.0%) of genes in pham
- No Manual Annotations of this start.
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Ding_48 (AY),

Start 21:

- Found in 5 of 15 (33.3%) of genes in pham
- No Manual Annotations of this start.
- Called 20.0% of time when present
- Phage (with cluster) where this start called: Pucara_35 (FA),

Summary by clusters:

There are 4 clusters represented in this pham: AY, FA, AH, FO,

Info for manual annotations of cluster AH:

- Start number 18 was manually annotated 1 time for cluster AH.

Info for manual annotations of cluster FA:

- Start number 9 was manually annotated 2 times for cluster FA.
- Start number 10 was manually annotated 1 time for cluster FA.
- Start number 18 was manually annotated 1 time for cluster FA.

Info for manual annotations of cluster FO:

- Start number 3 was manually annotated 1 time for cluster FO.
- Start number 6 was manually annotated 1 time for cluster FO.
- Start number 12 was manually annotated 1 time for cluster FO.
- Start number 18 was manually annotated 1 time for cluster FO.

Gene Information:

Gene: CocoCinnamon_35 Start: 25963, Stop: 25775, Start Num: 18

Candidate Starts for CocoCinnamon_35:

(Start: 9 @26035 has 2 MA's), (Start: 10 @26029 has 1 MA's), (Start: 18 @25963 has 3 MA's), (21, 25939), (23, 25915), (27, 25813),

Gene: CosmicBrownie_45 Start: 29892, Stop: 29737, Start Num: 18

Candidate Starts for CosmicBrownie_45:

(1, 30060), (Start: 9 @29967 has 2 MA's), (Start: 10 @29961 has 1 MA's), (Start: 18 @29892 has 3 MA's), (19, 29889), (23, 29844), (24, 29829),

Gene: Ding_48 Start: 30824, Stop: 30991, Start Num: 19

Candidate Starts for Ding_48:

(11, 30764), (19, 30824),

Gene: Eileen_35 Start: 26405, Stop: 26115, Start Num: 9

Candidate Starts for Eileen_35:

(Start: 9 @26405 has 2 MA's), (Start: 10 @26399 has 1 MA's), (Start: 18 @26330 has 3 MA's), (26, 26186), (29, 26156), (30, 26123),

Gene: Henrique_38 Start: 27540, Stop: 27286, Start Num: 10

Candidate Starts for Henrique_38:

(4, 27588), (Start: 9 @27546 has 2 MA's), (Start: 10 @27540 has 1 MA's), (14, 27513), (Start: 18 @27474 has 3 MA's),

Gene: HotPotato_37 Start: 28038, Stop: 27850, Start Num: 18

Candidate Starts for HotPotato_37:

(4, 28152), (Start: 9 @28110 has 2 MA's), (Start: 10 @28104 has 1 MA's), (14, 28077), (Start: 18 @28038 has 3 MA's),

Gene: JustASigh_47 Start: 34656, Stop: 34838, Start Num: 18

Candidate Starts for JustASigh_47:

(7, 34569), (Start: 10 @34587 has 1 MA's), (16, 34629), (Start: 18 @34656 has 3 MA's), (20, 34671), (23, 34704), (25, 34782),

Gene: Karkharias_38 Start: 28017, Stop: 27757, Start Num: 9

Candidate Starts for Karkharias_38:

(2, 28083), (5, 28035), (Start: 9 @28017 has 2 MA's), (Start: 10 @28011 has 1 MA's), (Start: 18 @27945 has 3 MA's), (21, 27921),

Gene: Maja_30 Start: 25873, Stop: 25589, Start Num: 3

Candidate Starts for Maja_30:

(Start: 3 @25873 has 1 MA's), (8, 25825), (Start: 9 @25819 has 2 MA's), (Start: 10 @25813 has 1 MA's), (17, 25750), (Start: 18 @25744 has 3 MA's), (20, 25729), (24, 25681), (25, 25618),

Gene: NikkiHotWheels_39 Start: 27467, Stop: 27279, Start Num: 18

Candidate Starts for NikkiHotWheels_39:

(4, 27581), (Start: 9 @27539 has 2 MA's), (Start: 10 @27533 has 1 MA's), (14, 27506), (Start: 18 @27467 has 3 MA's),

Gene: NoSwimming_34 Start: 27843, Stop: 27550, Start Num: 6

Candidate Starts for NoSwimming_34:

(Start: 6 @27843 has 1 MA's), (Start: 12 @27807 has 1 MA's), (13, 27792), (15, 27780), (Start: 18 @27744 has 3 MA's), (20, 27729), (22, 27705), (23, 27696), (25, 27618), (28, 27591),

Gene: Nyilah_49 Start: 29527, Stop: 29372, Start Num: 18

Candidate Starts for Nyilah_49:

(1, 29695), (Start: 9 @29602 has 2 MA's), (Start: 10 @29596 has 1 MA's), (Start: 18 @29527 has 3 MA's), (19, 29524), (21, 29503), (23, 29479), (24, 29464),

Gene: PeggyLeg03_38 Start: 28180, Stop: 27992, Start Num: 18

Candidate Starts for PeggyLeg03_38:

(2, 28318), (5, 28270), (Start: 9 @28252 has 2 MA's), (Start: 10 @28246 has 1 MA's), (Start: 18 @28180 has 3 MA's), (21, 28156),

Gene: Pucara_35 Start: 27761, Stop: 27597, Start Num: 21

Candidate Starts for Pucara_35:

(2, 27923), (5, 27875), (Start: 9 @27857 has 2 MA's), (Start: 10 @27851 has 1 MA's), (Start: 18 @27785 has 3 MA's), (21, 27761),

Gene: Scotia_32 Start: 26848, Stop: 26591, Start Num: 12

Candidate Starts for Scotia_32:

(Start: 12 @26848 has 1 MA's), (13, 26833), (15, 26821), (Start: 18 @26785 has 3 MA's), (22, 26746), (23, 26737), (28, 26632),