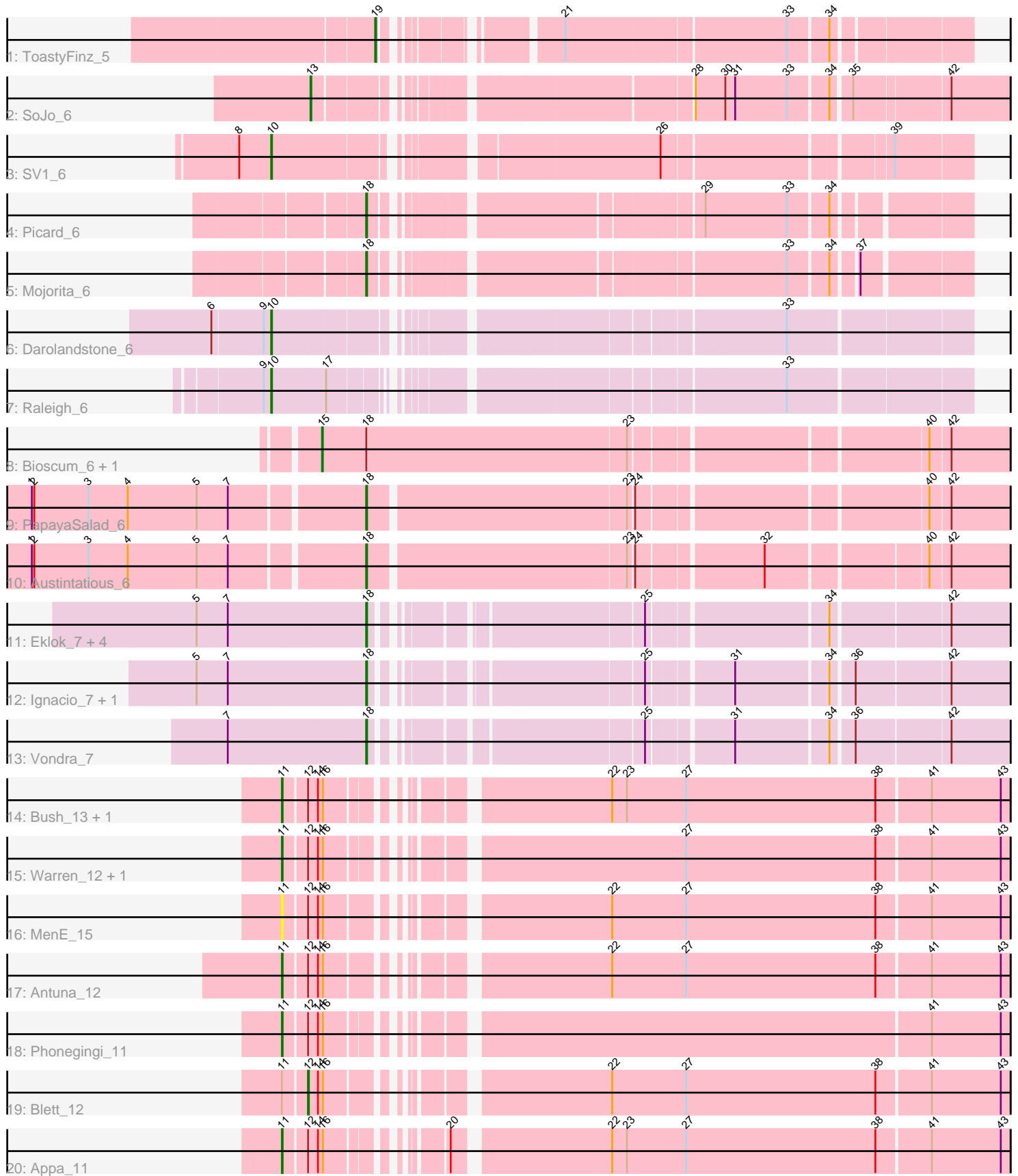


Pham 138124



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 138124 Report

This analysis was run 04/28/24 on database version 559.

WARNING: Pham size does not match number of genes in report. Either unphamerated genes have been added (by you) or starterator has removed genes due to invalid start codon.

Pham number 138124 has 28 members, 2 are drafts.

Phages represented in each track:

- Track 1 : ToastyFinz_5
- Track 2 : SoJo_6
- Track 3 : SV1_6
- Track 4 : Picard_6
- Track 5 : Mojorita_6
- Track 6 : Darolandstone_6
- Track 7 : Raleigh_6
- Track 8 : Bioscum_6, Ididsumtinwong_6
- Track 9 : PapayaSalad_6
- Track 10 : Austintatious_6
- Track 11 : Eklok_7, AxeJC_7, Piccadilly_7, Cumberbatch_7, Eastland_7
- Track 12 : Ignacio_7, HFrancette_7
- Track 13 : Vondra_7
- Track 14 : Bush_13, Dropshot_11
- Track 15 : Warren_12, Pickles13_11
- Track 16 : MenE_15
- Track 17 : Antuna_12
- Track 18 : Phonegingi_11
- Track 19 : Blett_12
- Track 20 : Appa_11

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 12 of the 26 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Austintatious_6, AxeJC_7, Cumberbatch_7, Eastland_7, Eklok_7, HFrancette_7, Ignacio_7, Mojorita_6, PapayaSalad_6, Picard_6, Piccadilly_7, Vondra_7,

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

- Bioscum_6, Ididsumtinwong_6,

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

- Antuna_12, Appa_11, Blett_12, Bush_13, Darolandstone_6, Dropshot_11, MenE_15, Phonegingi_11, Pickles13_11, Raleigh_6, SV1_6, SoJo_6, ToastyFinz_5, Warren_12,

Summary by start number:

Start 10:

- Found in 3 of 28 (10.7%) of genes in pham
- Manual Annotations of this start: 3 of 26
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Darolandstone_6 (BC2), Raleigh_6 (BC2), SV1_6 (BC1),

Start 11:

- Found in 9 of 28 (32.1%) of genes in pham
- Manual Annotations of this start: 6 of 26
- Called 88.9% of time when present
- Phage (with cluster) where this start called: Antuna_12 (GA), Appa_11 (GA), Bush_13 (GA), Dropshot_11 (GA), MenE_15 (GA), Phonegingi_11 (GA), Pickles13_11 (GA), Warren_12 (GA),

Start 12:

- Found in 9 of 28 (32.1%) of genes in pham
- Manual Annotations of this start: 1 of 26
- Called 11.1% of time when present
- Phage (with cluster) where this start called: Blett_12 (GA),

Start 13:

- Found in 1 of 28 (3.6%) of genes in pham
- Manual Annotations of this start: 1 of 26
- Called 100.0% of time when present
- Phage (with cluster) where this start called: SoJo_6 (BC1),

Start 15:

- Found in 2 of 28 (7.1%) of genes in pham
- Manual Annotations of this start: 2 of 26
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bioscum_6 (BC3), Ididsumtinwong_6 (BC3),

Start 18:

- Found in 14 of 28 (50.0%) of genes in pham
- Manual Annotations of this start: 12 of 26
- Called 85.7% of time when present
- Phage (with cluster) where this start called: Austintatious_6 (BC3), AxeJC_7 (BP), Cumberbatch_7 (BP), Eastland_7 (BP), Eklok_7 (BP), HFrancette_7 (BP), Ignacio_7 (BP), Mojarita_6 (BC1), PapayaSalad_6 (BC3), Picard_6 (BC1), Piccadilly_7 (BP), Vondra_7 (BP),

Start 19:

- Found in 1 of 28 (3.6%) of genes in pham
- Manual Annotations of this start: 1 of 26
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ToastyFinz_5 (BC1),

Summary by clusters:

There are 5 clusters represented in this pham: BC2, BP, BC1, GA, BC3,

Info for manual annotations of cluster BC1:

- Start number 10 was manually annotated 1 time for cluster BC1.
- Start number 13 was manually annotated 1 time for cluster BC1.
- Start number 18 was manually annotated 2 times for cluster BC1.
- Start number 19 was manually annotated 1 time for cluster BC1.

Info for manual annotations of cluster BC2:

- Start number 10 was manually annotated 2 times for cluster BC2.

Info for manual annotations of cluster BC3:

- Start number 15 was manually annotated 2 times for cluster BC3.
- Start number 18 was manually annotated 2 times for cluster BC3.

Info for manual annotations of cluster BP:

- Start number 18 was manually annotated 8 times for cluster BP.

Info for manual annotations of cluster GA:

- Start number 11 was manually annotated 6 times for cluster GA.
- Start number 12 was manually annotated 1 time for cluster GA.

Gene Information:

Gene: Antuna_12 Start: 6246, Stop: 7052, Start Num: 11

Candidate Starts for Antuna_12:

(Start: 11 @6246 has 6 MA's), (Start: 12 @6273 has 1 MA's), (14, 6285), (16, 6291), (22, 6573), (27, 6663), (38, 6894), (41, 6957), (43, 7041),

Gene: Appa_11 Start: 6111, Stop: 6914, Start Num: 11

Candidate Starts for Appa_11:

(Start: 11 @6111 has 6 MA's), (Start: 12 @6138 has 1 MA's), (14, 6150), (16, 6156), (20, 6258), (22, 6435), (23, 6453), (27, 6525), (38, 6756), (41, 6819), (43, 6903),

Gene: Austintatious_6 Start: 5252, Stop: 5971, Start Num: 18

Candidate Starts for Austintatious_6:

(1, 4865), (2, 4868), (3, 4934), (4, 4982), (5, 5066), (7, 5102), (Start: 18 @5252 has 12 MA's), (23, 5555), (24, 5561), (32, 5702), (40, 5876), (42, 5900),

Gene: AxeJC_7 Start: 5605, Stop: 6279, Start Num: 18

Candidate Starts for AxeJC_7:

(5, 5407), (7, 5443), (Start: 18 @5605 has 12 MA's), (25, 5881), (34, 6079), (42, 6211),

Gene: Bioscum_6 Start: 5214, Stop: 6005, Start Num: 15

Candidate Starts for Bioscum_6:

(Start: 15 @5214 has 2 MA's), (Start: 18 @5268 has 12 MA's), (23, 5583), (40, 5910), (42, 5934),

Gene: Blett_12 Start: 6287, Stop: 7066, Start Num: 12

Candidate Starts for Blett_12:

(Start: 11 @6260 has 6 MA's), (Start: 12 @6287 has 1 MA's), (14, 6299), (16, 6305), (22, 6587), (27, 6677), (38, 6908), (41, 6971), (43, 7055),

Gene: Bush_13 Start: 6255, Stop: 7058, Start Num: 11

Candidate Starts for Bush_13:

(Start: 11 @6255 has 6 MA's), (Start: 12 @6282 has 1 MA's), (14, 6294), (16, 6300), (22, 6579), (23, 6597), (27, 6669), (38, 6900), (41, 6963), (43, 7047),

Gene: Cumberbatch_7 Start: 5592, Stop: 6266, Start Num: 18

Candidate Starts for Cumberbatch_7:

(5, 5394), (7, 5430), (Start: 18 @5592 has 12 MA's), (25, 5868), (34, 6066), (42, 6198),

Gene: Darolandstone_6 Start: 5453, Stop: 6211, Start Num: 10

Candidate Starts for Darolandstone_6:

(6, 5384), (9, 5444), (Start: 10 @5453 has 3 MA's), (33, 5999),

Gene: Dropshot_11 Start: 6111, Stop: 6914, Start Num: 11

Candidate Starts for Dropshot_11:

(Start: 11 @6111 has 6 MA's), (Start: 12 @6138 has 1 MA's), (14, 6150), (16, 6156), (22, 6435), (23, 6453), (27, 6525), (38, 6756), (41, 6819), (43, 6903),

Gene: Eastland_7 Start: 5593, Stop: 6267, Start Num: 18

Candidate Starts for Eastland_7:

(5, 5395), (7, 5431), (Start: 18 @5593 has 12 MA's), (25, 5869), (34, 6067), (42, 6199),

Gene: Eklok_7 Start: 5605, Stop: 6279, Start Num: 18

Candidate Starts for Eklok_7:

(5, 5407), (7, 5443), (Start: 18 @5605 has 12 MA's), (25, 5881), (34, 6079), (42, 6211),

Gene: HFrancette_7 Start: 5597, Stop: 6271, Start Num: 18

Candidate Starts for HFrancette_7:

(5, 5399), (7, 5435), (Start: 18 @5597 has 12 MA's), (25, 5873), (31, 5966), (34, 6071), (36, 6095), (42, 6203),

Gene: Ididsumtinwong_6 Start: 5214, Stop: 6005, Start Num: 15

Candidate Starts for Ididsumtinwong_6:

(Start: 15 @5214 has 2 MA's), (Start: 18 @5268 has 12 MA's), (23, 5583), (40, 5910), (42, 5934),

Gene: Ignacio_7 Start: 5597, Stop: 6271, Start Num: 18

Candidate Starts for Ignacio_7:

(5, 5399), (7, 5435), (Start: 18 @5597 has 12 MA's), (25, 5873), (31, 5966), (34, 6071), (36, 6095), (42, 6203),

Gene: MenE_15 Start: 6376, Stop: 7182, Start Num: 11

Candidate Starts for MenE_15:

(Start: 11 @6376 has 6 MA's), (Start: 12 @6403 has 1 MA's), (14, 6415), (16, 6421), (22, 6703), (27, 6793), (38, 7024), (41, 7087), (43, 7171),

Gene: Mojarita_6 Start: 5599, Stop: 6231, Start Num: 18

Candidate Starts for Mojarita_6:

(Start: 18 @5599 has 12 MA's), (33, 6040), (34, 6082), (37, 6106),

Gene: PapayaSalad_6 Start: 5252, Stop: 5977, Start Num: 18

Candidate Starts for PapayaSalad_6:

(1, 4865), (2, 4868), (3, 4934), (4, 4982), (5, 5066), (7, 5102), (Start: 18 @5252 has 12 MA's), (23, 5555), (24, 5561), (40, 5882), (42, 5906),

Gene: Phonegingi_11 Start: 6105, Stop: 6908, Start Num: 11

Candidate Starts for Phonegingi_11:

(Start: 11 @6105 has 6 MA's), (Start: 12 @6132 has 1 MA's), (14, 6144), (16, 6150), (41, 6813), (43, 6897),

Gene: Picard_6 Start: 5599, Stop: 6231, Start Num: 18

Candidate Starts for Picard_6:

(Start: 18 @5599 has 12 MA's), (29, 5941), (33, 6040), (34, 6082),

Gene: Piccadilly_7 Start: 5592, Stop: 6266, Start Num: 18

Candidate Starts for Piccadilly_7:

(5, 5394), (7, 5430), (Start: 18 @5592 has 12 MA's), (25, 5868), (34, 6066), (42, 6198),

Gene: Pickles13_11 Start: 6248, Stop: 7060, Start Num: 11

Candidate Starts for Pickles13_11:

(Start: 11 @6248 has 6 MA's), (Start: 12 @6275 has 1 MA's), (14, 6287), (16, 6293), (27, 6671), (38, 6902), (41, 6965), (43, 7049),

Gene: Raleigh_6 Start: 5425, Stop: 6174, Start Num: 10

Candidate Starts for Raleigh_6:

(9, 5416), (Start: 10 @5425 has 3 MA's), (17, 5488), (33, 5962),

Gene: SV1_6 Start: 5267, Stop: 6019, Start Num: 10

Candidate Starts for SV1_6:

(8, 5228), (Start: 10 @5267 has 3 MA's), (26, 5675), (39, 5927),

Gene: SoJo_6 Start: 5536, Stop: 6282, Start Num: 13

Candidate Starts for SoJo_6:

(Start: 13 @5536 has 1 MA's), (28, 5926), (30, 5962), (31, 5974), (33, 6037), (34, 6079), (35, 6100), (42, 6211),

Gene: ToastyFinz_5 Start: 5393, Stop: 6004, Start Num: 19

Candidate Starts for ToastyFinz_5:

(Start: 19 @5393 has 1 MA's), (21, 5549), (33, 5807), (34, 5849),

Gene: Vondra_7 Start: 5594, Stop: 6271, Start Num: 18

Candidate Starts for Vondra_7:

(7, 5432), (Start: 18 @5594 has 12 MA's), (25, 5873), (31, 5966), (34, 6071), (36, 6095), (42, 6203),

Gene: Warren_12 Start: 6290, Stop: 7093, Start Num: 11

Candidate Starts for Warren_12:

(Start: 11 @6290 has 6 MA's), (Start: 12 @6317 has 1 MA's), (14, 6329), (16, 6335), (27, 6704), (38, 6935), (41, 6998), (43, 7082),

