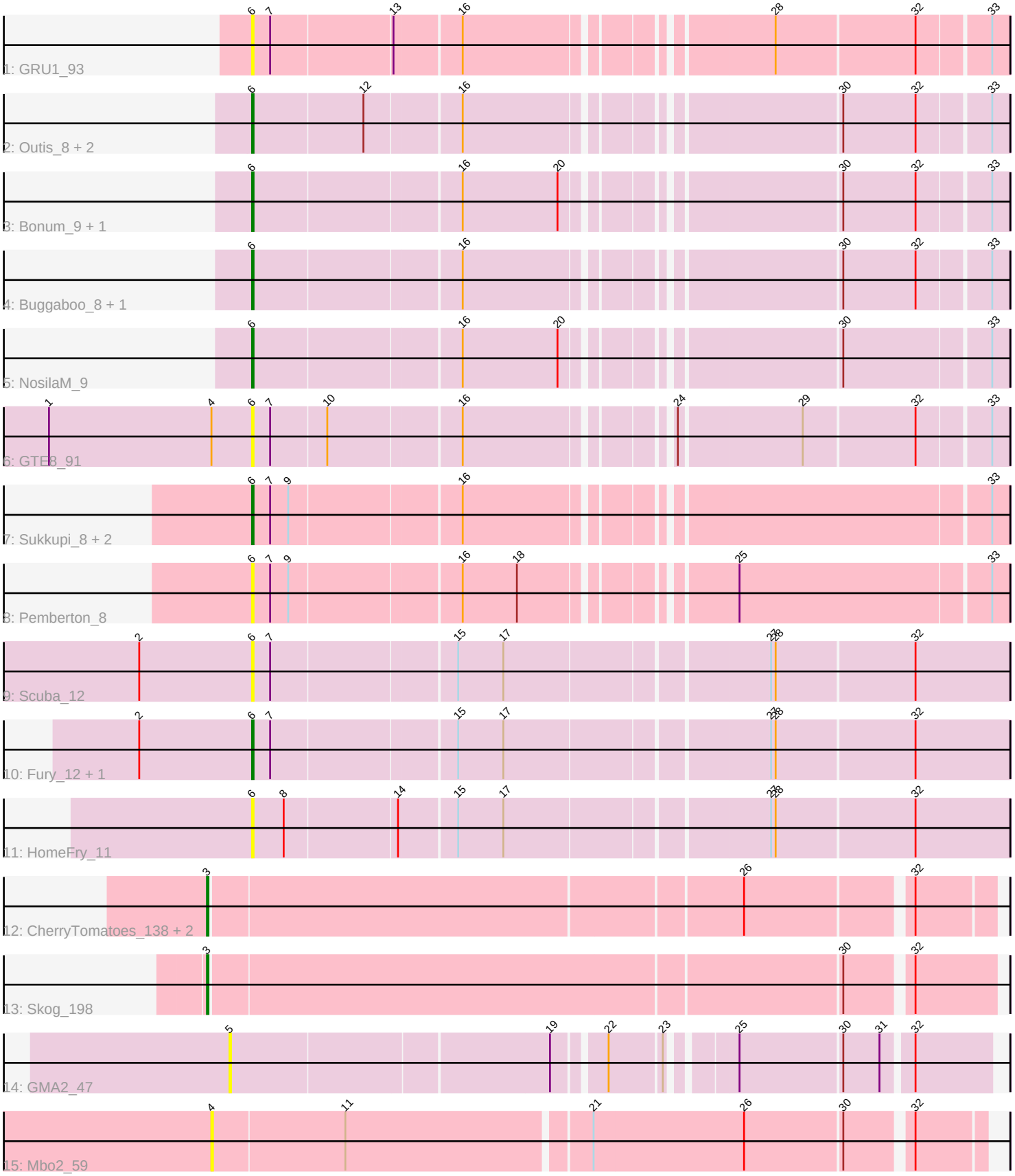
Pham 295036


1: GRU1_93
2: Outis_8 + 2
3: Bonum_9 + 1
4: Buggaboo_8 + 1
5: NosilaM_9
6: GTE8_91
7: Sukkupi_8 + 2
8: Pemberton_8
9: Scuba_12
10: Fury_12 + 1
11: HomeFry_11
12: CherryTomatoes_138 + 2
13: Skog_198
14: GMA2_47
15: Mbo2_59

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 295036 Report

This analysis was run 04/18/26 on database version 643.

Pham number 295036 has 24 members, 7 are drafts.

Phages represented in each track:
• Track 1 : GRU1_93
• Track 2 : Outis_8, MerCougar_8, StarStruck_8
• Track 3 : Bonum_9, Kabluna_9
• Track 4 : Buggaboo_8, SuperSulley_8
• Track 5 : NosilaM_9
• Track 6 : GTE8_91
• Track 7 : Sukkupi_8, BiPauneto_8, Yndexa_8
• Track 8 : Pemberton_8
• Track 9 : Scuba_12
• Track 10 : Fury_12, Pleakley_12
• Track 11 : HomeFry_11
• Track 12 : CherryTomatoes_138, SCentae_136, Pupper_137
• Track 13 : Skog_198
• Track 14 : GMA2_47
• Track 15 : Mbo2_59

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

The start number called the most often in the published annotations is 6, it was called in 13 of the 17 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• BiPauneto_8, Bonum_9, Buggaboo_8, Fury_12, GRU1_93, GTE8_91, HomeFry_11, Kabluna_9, MerCougar_8, NosilaM_9, Outis_8, Pemberton_8, Pleakley_12, Scuba_12, StarStruck_8, Sukkupi_8, SuperSulley_8, Yndexa_8,

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

Genes that do not have the "Most Annotated" start:
• CherryTomatoes_138, GMA2_47, Mbo2_59, Pupper_137, SCentae_136, Skog_198,

Summary by start number:

Start 3:
• Found in 4 of 24 (16.7%) of genes in pham
• Manual Annotations of this start: 4 of 17
• Called 100.0% of time when present
• Phage (with cluster) where this start called: CherryTomatoes_138 (DO), Pupper_137 (DO), SCentae_136 (DO), Skog_198 (DO),

Start 4:
• Found in 2 of 24 (8.3%) of genes in pham
• No Manual Annotations of this start.
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Mbo2_59 (singleton),

Start 5:
• Found in 1 of 24 (4.2%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: GMA2_47 (DS),

Start 6:
• Found in 18 of 24 (75.0%) of genes in pham
• Manual Annotations of this start: 13 of 17
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BiPauneto_8 (CR4), Bonum_9 (CR2), Buggaboo_8 (CR2), Fury_12 (CR5), GRU1_93 (CR1), GTE8_91 (CR2), HomeFry_11 (CR5), Kabluna_9 (CR2), MerCougar_8 (CR2), NosilaM_9 (CR2), Outis_8 (CR2), Pemberton_8 (CR4), Pleakley_12 (CR5), Scuba_12 (CR5), StarStruck_8 (CR2), Sukkupi_8 (CR4), SuperSulley_8 (CR2), Yndexa_8 (CR4),

Summary by clusters:

There are 7 clusters represented in this pham: CR2, DO, singleton, CR1, CR4, CR5, DS,

Info for manual annotations of cluster CR2:
•Start number 6 was manually annotated 8 times for cluster CR2.

Info for manual annotations of cluster CR4:
•Start number 6 was manually annotated 3 times for cluster CR4.

Info for manual annotations of cluster CR5:
•Start number 6 was manually annotated 2 times for cluster CR5.

Info for manual annotations of cluster DO:
•Start number 3 was manually annotated 4 times for cluster DO.

Gene Information:

Gene: BiPauneto_8 Start: 3928, Stop: 4389, Start Num: 6
Candidate Starts for BiPauneto_8:
(Start: 6 @3928 has 13 MA's), (7, 3940), (9, 3952), (16, 4060), (33, 4378),

Gene: Bonum_9 Start: 5341, Stop: 5799, Start Num: 6
Candidate Starts for Bonum_9:
(Start: 6 @5341 has 13 MA's), (16, 5473), (20, 5536), (30, 5695), (32, 5743), (33, 5788),

Gene: Buggaboo_8 Start: 4860, Stop: 5318, Start Num: 6
Candidate Starts for Buggaboo_8:
(Start: 6 @4860 has 13 MA's), (16, 4992), (30, 5214), (32, 5262), (33, 5307),

Gene: CherryTomatoes_138 Start: 95998, Stop: 96492, Start Num: 3
Candidate Starts for CherryTomatoes_138:
(Start: 3 @95998 has 4 MA's), (26, 96340), (32, 96442),

Gene: Fury_12 Start: 5438, Stop: 5917, Start Num: 6
Candidate Starts for Fury_12:
(2, 5363), (Start: 6 @5438 has 13 MA's), (7, 5450), (15, 5567), (17, 5597), (27, 5762), (28, 5765), (32, 5855),

Gene: GMA2_47 Start: 48456, Stop: 47995, Start Num: 5
Candidate Starts for GMA2_47:
(5, 48456), (19, 48252), (22, 48222), (23, 48189), (25, 48153), (30, 48087), (31, 48063), (32, 48045),

Gene: GRU1_93 Start: 64270, Stop: 64728, Start Num: 6
Candidate Starts for GRU1_93:
(Start: 6 @64270 has 13 MA's), (7, 64282), (13, 64360), (16, 64402), (28, 64582), (32, 64672), (33, 64717),

Gene: GTE8_91 Start: 66184, Stop: 66642, Start Num: 6
Candidate Starts for GTE8_91:
(1, 66049), (4, 66157), (Start: 6 @66184 has 13 MA's), (7, 66196), (10, 66232), (16, 66316), (24, 66436), (29, 66514), (32, 66586), (33, 66631),

Gene: HomeFry_11 Start: 4943, Stop: 5422, Start Num: 6
Candidate Starts for HomeFry_11:
(Start: 6 @4943 has 13 MA's), (8, 4964), (14, 5036), (15, 5072), (17, 5102), (27, 5267), (28, 5270), (32, 5360),

Gene: Kabluna_9 Start: 4732, Stop: 5190, Start Num: 6
Candidate Starts for Kabluna_9:
(Start: 6 @4732 has 13 MA's), (16, 4864), (20, 4927), (30, 5086), (32, 5134), (33, 5179),

Gene: Mbo2_59 Start: 47195, Stop: 46707, Start Num: 4
Candidate Starts for Mbo2_59:
(4, 47195), (11, 47108), (21, 46952), (26, 46853), (30, 46790), (32, 46751),

Gene: MerCougar_8 Start: 5083, Stop: 5541, Start Num: 6
Candidate Starts for MerCougar_8:
(Start: 6 @5083 has 13 MA's), (12, 5155), (16, 5215), (30, 5437), (32, 5485), (33, 5530),

Gene: NosilaM_9 Start: 5620, Stop: 6078, Start Num: 6

Candidate Starts for NosilaM_9:
(Start: 6 @5620 has 13 MA's), (16, 5752), (20, 5815), (30, 5974), (33, 6067),

Gene: Outis_8 Start: 4774, Stop: 5232, Start Num: 6
Candidate Starts for Outis_8:
(Start: 6 @4774 has 13 MA's), (12, 4846), (16, 4906), (30, 5128), (32, 5176), (33, 5221),

Gene: Pemberton_8 Start: 3778, Stop: 4239, Start Num: 6
Candidate Starts for Pemberton_8:
(Start: 6 @3778 has 13 MA's), (7, 3790), (9, 3802), (16, 3910), (18, 3946), (25, 4066), (33, 4228),

Gene: Pleakley_12 Start: 5438, Stop: 5917, Start Num: 6
Candidate Starts for Pleakley_12:
(2, 5363), (Start: 6 @5438 has 13 MA's), (7, 5450), (15, 5567), (17, 5597), (27, 5762), (28, 5765), (32, 5855),

Gene: Pupper_137 Start: 96238, Stop: 96732, Start Num: 3
Candidate Starts for Pupper_137:
(Start: 3 @96238 has 4 MA's), (26, 96580), (32, 96682),

Gene: SCentae_136 Start: 96389, Stop: 96883, Start Num: 3
Candidate Starts for SCentae_136:
(Start: 3 @96389 has 4 MA's), (26, 96731), (32, 96833),

Gene: Scuba_12 Start: 5536, Stop: 6015, Start Num: 6
Candidate Starts for Scuba_12:
(2, 5461), (Start: 6 @5536 has 13 MA's), (7, 5548), (15, 5665), (17, 5695), (27, 5860), (28, 5863), (32, 5953),

Gene: Skog_198 Start: 125939, Stop: 126439, Start Num: 3
Candidate Starts for Skog_198:
(Start: 3 @125939 has 4 MA's), (30, 126347), (32, 126386),

Gene: StarStruck_8 Start: 4774, Stop: 5232, Start Num: 6
Candidate Starts for StarStruck_8:
(Start: 6 @4774 has 13 MA's), (12, 4846), (16, 4906), (30, 5128), (32, 5176), (33, 5221),

Gene: Sukkupi_8 Start: 3819, Stop: 4280, Start Num: 6
Candidate Starts for Sukkupi_8:
(Start: 6 @3819 has 13 MA's), (7, 3831), (9, 3843), (16, 3951), (33, 4269),

Gene: SuperSulley_8 Start: 4860, Stop: 5318, Start Num: 6
Candidate Starts for SuperSulley_8:
(Start: 6 @4860 has 13 MA's), (16, 4992), (30, 5214), (32, 5262), (33, 5307),

Gene: Yndexa_8 Start: 3819, Stop: 4280, Start Num: 6
Candidate Starts for Yndexa_8:
(Start: 6 @3819 has 13 MA's), (7, 3831), (9, 3843), (16, 3951), (33, 4269),