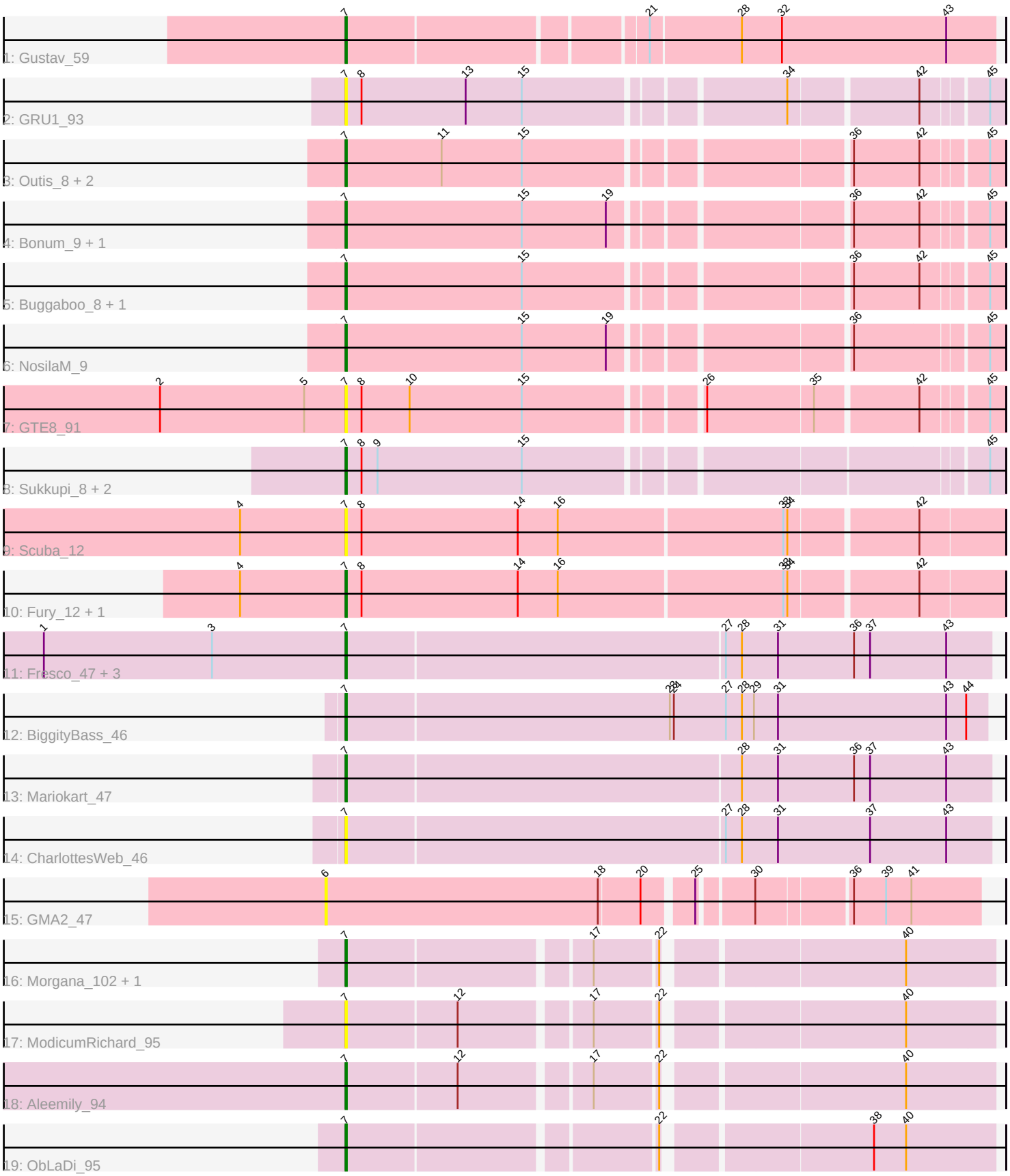
Pham 203194


1: Gustav_59
2: GRU1_93
3: Outis_8 + 2
4: Bonum_9 + 1
5: Buggaboo_8 + 1
6: NosilaM_9
7: GTE8_91
8: Sukkupi_8 + 2
9: Scuba_12
10: Fury_12 + 1
11: Fresco_47 + 3
12: BiggityBass_46
13: Mariokart_47
14: CharlottesWeb_46
15: GMA2_47
16: Morgana_102 + 1
17: ModicumRichard_95
18: Aleemily_94
19: ObLaDi_95

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 203194 Report

This analysis was run 01/18/25 on database version 583.

Pham number 203194 has 30 members, 6 are drafts.

Phages represented in each track:
• Track 1 : Gustav_59
• Track 2 : GRU1_93
• Track 3 : Outis_8, MerCougar_8, StarStruck_8
• Track 4 : Bonum_9, Kabluna_9
• Track 5 : Buggaboo_8, SuperSulley_8
• Track 6 : NosilaM_9
• Track 7 : GTE8_91
• Track 8 : Sukkupi_8, BiPauneto_8, Yndexa_8
• Track 9 : Scuba_12
• Track 10 : Fury_12, Pleakley_12
• Track 11 : Fresco_47, Axumite_47, Shatter_47, Ligma_47
• Track 12 : BiggityBass_46
• Track 13 : Mariokart_47
• Track 14 : CharlottesWeb_46
• Track 15 : GMA2_47
• Track 16 : Morgana_102, Cafasso_96
• Track 17 : ModicumRichard_95
• Track 18 : Aleemily_94
• Track 19 : ObLaDi_95

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

The start number called the most often in the published annotations is 7, it was called in 24 of the 24 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Aleemily_94, Axumite_47, BiPauneto_8, BiggityBass_46, Bonum_9, Buggaboo_8, Cafasso_96, CharlottesWeb_46, Fresco_47, Fury_12, GRU1_93, GTE8_91, Gustav_59, Kabluna_9, Ligma_47, Mariokart_47, MerCougar_8, ModicumRichard_95, Morgana_102, NosilaM_9, ObLaDi_95, Outis_8, Pleakley_12, Scuba_12, Shatter_47, 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:
• GMA2_47,

Summary by start number:

Start 6:
• Found in 1 of 30 (3.3%) 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 7:
• Found in 29 of 30 (96.7%) of genes in pham
• Manual Annotations of this start: 24 of 24
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Aleemily_94 (DZ), Axumite_47 (DR), BiPauneto_8 (CR4), BiggityBass_46 (DR), Bonum_9 (CR2), Buggaboo_8 (CR2), Cafasso_96 (DZ), CharlottesWeb_46 (DR), Fresco_47 (DR), Fury_12 (CR5), GRU1_93 (CR1), GTE8_91 (CR2), Gustav_59 (CD), Kabluna_9 (CR2), Ligma_47 (DR), Mariokart_47 (DR), MerCougar_8 (CR2), ModicumRichard_95 (DZ), Morgana_102 (DZ), NosilaM_9 (CR2), ObLaDi_95 (DZ), Outis_8 (CR2), Pleakley_12 (CR5), Scuba_12 (CR5), Shatter_47 (DR), StarStruck_8 (CR2), Sukkupi_8 (CR4), SuperSulley_8 (CR2), Yndexa_8 (CR4),

Summary by clusters:

There are 8 clusters represented in this pham: CR2, CR1, CR4, CR5, CD, DZ, DR, DS,

Info for manual annotations of cluster CD:
•Start number 7 was manually annotated 1 time for cluster CD.

Info for manual annotations of cluster CR2:
•Start number 7 was manually annotated 8 times for cluster CR2.

Info for manual annotations of cluster CR4:
•Start number 7 was manually annotated 3 times for cluster CR4.

Info for manual annotations of cluster CR5:
•Start number 7 was manually annotated 2 times for cluster CR5.

Info for manual annotations of cluster DR:
•Start number 7 was manually annotated 6 times for cluster DR.

Info for manual annotations of cluster DZ:
•Start number 7 was manually annotated 4 times for cluster DZ.

Gene Information:

Gene: Aleemily_94 Start: 55554, Stop: 56000, Start Num: 7
Candidate Starts for Aleemily_94:
(Start: 7 @55554 has 24 MA's), (12, 55635), (17, 55725), (22, 55770), (40, 55935),

Gene: Axumite_47 Start: 40708, Stop: 40232, Start Num: 7
Candidate Starts for Axumite_47:
(1, 40930), (3, 40804), (Start: 7 @40708 has 24 MA's), (27, 40429), (28, 40417), (31, 40390), (36, 40333), (37, 40321), (43, 40264),

Gene: BiPauneto_8 Start: 3928, Stop: 4389, Start Num: 7
Candidate Starts for BiPauneto_8:
(Start: 7 @3928 has 24 MA's), (8, 3940), (9, 3952), (15, 4060), (45, 4378),

Gene: BiggityBass_46 Start: 42504, Stop: 42028, Start Num: 7
Candidate Starts for BiggityBass_46:
(Start: 7 @42504 has 24 MA's), (23, 42264), (24, 42261), (27, 42222), (28, 42210), (29, 42201), (31, 42183), (43, 42057), (44, 42042),

Gene: Bonum_9 Start: 5341, Stop: 5799, Start Num: 7
Candidate Starts for Bonum_9:
(Start: 7 @5341 has 24 MA's), (15, 5473), (19, 5536), (36, 5695), (42, 5743), (45, 5788),

Gene: Buggaboo_8 Start: 4860, Stop: 5318, Start Num: 7
Candidate Starts for Buggaboo_8:
(Start: 7 @4860 has 24 MA's), (15, 4992), (36, 5214), (42, 5262), (45, 5307),

Gene: Cafasso_96 Start: 56105, Stop: 56551, Start Num: 7
Candidate Starts for Cafasso_96:
(Start: 7 @56105 has 24 MA's), (17, 56276), (22, 56321), (40, 56486),

Gene: CharlottesWeb_46 Start: 40078, Stop: 39602, Start Num: 7
Candidate Starts for CharlottesWeb_46:
(Start: 7 @40078 has 24 MA's), (27, 39799), (28, 39787), (31, 39760), (37, 39691), (43, 39634),

Gene: Fresco_47 Start: 40708, Stop: 40232, Start Num: 7
Candidate Starts for Fresco_47:
(1, 40930), (3, 40804), (Start: 7 @40708 has 24 MA's), (27, 40429), (28, 40417), (31, 40390), (36, 40333), (37, 40321), (43, 40264),

Gene: Fury_12 Start: 5438, Stop: 5917, Start Num: 7
Candidate Starts for Fury_12:
(4, 5363), (Start: 7 @5438 has 24 MA's), (8, 5450), (14, 5567), (16, 5597), (33, 5762), (34, 5765), (42, 5855),

Gene: GMA2_47 Start: 48456, Stop: 47995, Start Num: 6
Candidate Starts for GMA2_47:
(6, 48456), (18, 48252), (20, 48222), (25, 48189), (30, 48153), (36, 48087), (39, 48063), (41, 48045),

Gene: GRU1_93 Start: 64270, Stop: 64728, Start Num: 7
Candidate Starts for GRU1_93:
(Start: 7 @64270 has 24 MA's), (8, 64282), (13, 64360), (15, 64402), (34, 64582), (42, 64672), (45, 64717),

Gene: GTE8_91 Start: 66184, Stop: 66642, Start Num: 7
Candidate Starts for GTE8_91:
(2, 66049), (5, 66157), (Start: 7 @66184 has 24 MA's), (8, 66196), (10, 66232), (15, 66316), (26, 66436), (35, 66514), (42, 66586), (45, 66631),

Gene: Gustav_59 Start: 40519, Stop: 40055, Start Num: 7
Candidate Starts for Gustav_59:
(Start: 7 @40519 has 24 MA's), (21, 40309), (28, 40243), (32, 40213), (43, 40090),

Gene: Kabluna_9 Start: 4732, Stop: 5190, Start Num: 7
Candidate Starts for Kabluna_9:
(Start: 7 @4732 has 24 MA's), (15, 4864), (19, 4927), (36, 5086), (42, 5134), (45, 5179),

Gene: Ligma_47 Start: 40708, Stop: 40232, Start Num: 7
Candidate Starts for Ligma_47:
(1, 40930), (3, 40804), (Start: 7 @40708 has 24 MA's), (27, 40429), (28, 40417), (31, 40390), (36, 40333), (37, 40321), (43, 40264),

Gene: Mariokart_47 Start: 40855, Stop: 40379, Start Num: 7
Candidate Starts for Mariokart_47:
(Start: 7 @40855 has 24 MA's), (28, 40564), (31, 40537), (36, 40480), (37, 40468), (43, 40411),

Gene: MerCougar_8 Start: 5083, Stop: 5541, Start Num: 7
Candidate Starts for MerCougar_8:
(Start: 7 @5083 has 24 MA's), (11, 5155), (15, 5215), (36, 5437), (42, 5485), (45, 5530),

Gene: ModicumRichard_95 Start: 55749, Stop: 56195, Start Num: 7
Candidate Starts for ModicumRichard_95:
(Start: 7 @55749 has 24 MA's), (12, 55830), (17, 55920), (22, 55965), (40, 56130),

Gene: Morgana_102 Start: 57954, Stop: 58400, Start Num: 7
Candidate Starts for Morgana_102:
(Start: 7 @57954 has 24 MA's), (17, 58125), (22, 58170), (40, 58335),

Gene: NosilaM_9 Start: 5620, Stop: 6078, Start Num: 7
Candidate Starts for NosilaM_9:
(Start: 7 @5620 has 24 MA's), (15, 5752), (19, 5815), (36, 5974), (45, 6067),

Gene: ObLaDi_95 Start: 55798, Stop: 56244, Start Num: 7
Candidate Starts for ObLaDi_95:
(Start: 7 @55798 has 24 MA's), (22, 56014), (38, 56155), (40, 56179),

Gene: Outis_8 Start: 4774, Stop: 5232, Start Num: 7
Candidate Starts for Outis_8:
(Start: 7 @4774 has 24 MA's), (11, 4846), (15, 4906), (36, 5128), (42, 5176), (45, 5221),

Gene: Pleakley_12 Start: 5438, Stop: 5917, Start Num: 7
Candidate Starts for Pleakley_12:
(4, 5363), (Start: 7 @5438 has 24 MA's), (8, 5450), (14, 5567), (16, 5597), (33, 5762), (34, 5765), (42, 5855),

Gene: Scuba_12 Start: 5536, Stop: 6015, Start Num: 7
Candidate Starts for Scuba_12:

(4, 5461), (Start: 7 @5536 has 24 MA's), (8, 5548), (14, 5665), (16, 5695), (33, 5860), (34, 5863), (42, 5953),

Gene: Shatter_47 Start: 40708, Stop: 40232, Start Num: 7
Candidate Starts for Shatter_47:
(1, 40930), (3, 40804), (Start: 7 @40708 has 24 MA's), (27, 40429), (28, 40417), (31, 40390), (36, 40333), (37, 40321), (43, 40264),

Gene: StarStruck_8 Start: 4774, Stop: 5232, Start Num: 7
Candidate Starts for StarStruck_8:
(Start: 7 @4774 has 24 MA's), (11, 4846), (15, 4906), (36, 5128), (42, 5176), (45, 5221),

Gene: Sukkupi_8 Start: 3819, Stop: 4280, Start Num: 7
Candidate Starts for Sukkupi_8:
(Start: 7 @3819 has 24 MA's), (8, 3831), (9, 3843), (15, 3951), (45, 4269),

Gene: SuperSulley_8 Start: 4860, Stop: 5318, Start Num: 7
Candidate Starts for SuperSulley_8:
(Start: 7 @4860 has 24 MA's), (15, 4992), (36, 5214), (42, 5262), (45, 5307),

Gene: Yndexa_8 Start: 3819, Stop: 4280, Start Num: 7
Candidate Starts for Yndexa_8:
(Start: 7 @3819 has 24 MA's), (8, 3831), (9, 3843), (15, 3951), (45, 4269),