Pham 284016


1: Gustav_59
2: GRU1_93
3: Bonum_9 + 1
4: MerCougar_8 + 2
5: Buggaboo_8 + 1
6: NosilaM_9
7: GTE8_91
8: Sukkupi_8 + 2
9: Pemberton_8
10: Scuba_12
11: Fury_12 + 1
12: HomeFry_11
13: Fresco_47 + 3
14: Yago84_46 + 2
15: BiggityBass_46
16: Mariokart_47
17: CharlottesWeb_46
18: GMA2_47
19: Morgana_102 + 1
20: ModicumRichard_95
21: Aleemily_94
22: 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 284016 Report

This analysis was run 02/23/26 on database version 636.

Pham number 284016 has 35 members, 8 are drafts.

Phages represented in each track:
- Track 1 : Gustav_59
- Track 2 : GRU1_93
- Track 3 : Bonum_9, Kabluna_9
- Track 4 : MerCougar_8, Outis_8, StarStruck_8
- Track 5 : Buggaboo_8, SuperSulley_8
- Track 6 : NosilaM_9
- Track 7 : GTE8_91
- Track 8 : Sukkupi_8, BiPauneto_8, Yndexa_8
- Track 9 : Pemberton_8
- Track 10 : Scuba_12
- Track 11 : Fury_12, Pleakley_12
- Track 12 : HomeFry_11
- Track 13 : Fresco_47, Axumite_47, Shatter_47, Ligma_47
- Track 14 : Yago84_46, AnClar_47, Sisko_46
- Track 15 : BiggityBass_46
- Track 16 : Mariokart_47
- Track 17 : CharlottesWeb_46
- Track 18 : GMA2_47
- Track 19 : Morgana_102, Cafasso_96
- Track 20 : ModicumRichard_95
- Track 21 : Aleemily_94
- Track 22 : 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 6, it was called in 14 of the 27 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
- Aleemily_94, AnClar_47, Axumite_47, BiggityBass_46, Cafasso_96, CharlottesWeb_46, Fresco_47, Gustav_59, Ligma_47, Mariokart_47, ModicumRichard_95, Morgana_102, ObLaDi_95, Shatter_47, Sisko_46, Yago84_46,

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

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Genes that do not have the "Most Annotated" start:
• BiPauneto_8, Bonum_9, Buggaboo_8, Fury_12, GMA2_47, 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,

Summary by start number:

Start 6:
• Found in 16 of 35 (45.7%) of genes in pham
• Manual Annotations of this start: 14 of 27
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Aleemily_94 (DZ), AnClar_47 (DR), Axumite_47 (DR), BiggityBass_46 (DR), Cafasso_96 (DZ), CharlottesWeb_46 (DR), Fresco_47 (DR), Gustav_59 (CD), Ligma_47 (DR), Mariokart_47 (DR), ModicumRichard_95 (DZ), Morgana_102 (DZ), ObLaDi_95 (DZ), Shatter_47 (DR), Sisko_46 (DR), Yago84_46 (DR),

Start 7:
• Found in 1 of 35 (2.9%) 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 8:
• Found in 18 of 35 (51.4%) of genes in pham
• Manual Annotations of this start: 13 of 27
• 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 8 clusters represented in this pham: CR2, CR1, CR4, CR5, CD, DZ, DR, DS,

Info for manual annotations of cluster CD:
•Start number 6 was manually annotated 1 time for cluster CD.

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

Info for manual annotations of cluster CR4:
•Start number 8 was manually annotated 3 times for cluster CR4.

Info for manual annotations of cluster CR5:
•Start number 8 was manually annotated 2 times for cluster CR5.

Info for manual annotations of cluster DR:
•Start number 6 was manually annotated 9 times for cluster DR.

Info for manual annotations of cluster DZ:
•Start number 6 was manually annotated 4 times for cluster DZ.

Gene Information:

Gene: Aleemily_94 Start: 55554, Stop: 56000, Start Num: 6
Candidate Starts for Aleemily_94:
(Start: 6 @55554 has 14 MA's), (14, 55635), (21, 55725), (27, 55770), (44, 55935),

Gene: AnClar_47 Start: 43032, Stop: 42556, Start Num: 6
Candidate Starts for AnClar_47:
(Start: 6 @43032 has 14 MA's), (11, 42987), (12, 42972), (20, 42867), (34, 42711), (41, 42654), (47, 42585), (48, 42570),

Gene: Axumite_47 Start: 40708, Stop: 40232, Start Num: 6
Candidate Starts for Axumite_47:
(1, 40930), (3, 40804), (Start: 6 @40708 has 14 MA's), (29, 40429), (32, 40417), (34, 40390), (41, 40333), (42, 40321), (47, 40264),

Gene: BiPauneto_8 Start: 3928, Stop: 4389, Start Num: 8
Candidate Starts for BiPauneto_8:
(Start: 8 @3928 has 13 MA's), (9, 3940), (11, 3952), (19, 4060), (49, 4378),

Gene: BiggityBass_46 Start: 42504, Stop: 42028, Start Num: 6
Candidate Starts for BiggityBass_46:
(Start: 6 @42504 has 14 MA's), (26, 42264), (27, 42261), (29, 42222), (32, 42210), (33, 42201), (34, 42183), (47, 42057), (48, 42042),

Gene: Bonum_9 Start: 5341, Stop: 5799, Start Num: 8
Candidate Starts for Bonum_9:
(Start: 8 @5341 has 13 MA's), (19, 5473), (24, 5536), (43, 5695), (46, 5743), (49, 5788),

Gene: Buggaboo_8 Start: 4860, Stop: 5318, Start Num: 8
Candidate Starts for Buggaboo_8:
(Start: 8 @4860 has 13 MA's), (19, 4992), (43, 5214), (46, 5262), (49, 5307),

Gene: Cafasso_96 Start: 56105, Stop: 56551, Start Num: 6
Candidate Starts for Cafasso_96:
(Start: 6 @56105 has 14 MA's), (21, 56276), (27, 56321), (44, 56486),

Gene: CharlottesWeb_46 Start: 40078, Stop: 39602, Start Num: 6
Candidate Starts for CharlottesWeb_46:
(Start: 6 @40078 has 14 MA's), (29, 39799), (32, 39787), (34, 39760), (42, 39691), (47, 39634),

Gene: Fresco_47 Start: 40708, Stop: 40232, Start Num: 6
Candidate Starts for Fresco_47:

(1, 40930), (3, 40804), (Start: 6 @40708 has 14 MA's), (29, 40429), (32, 40417), (34, 40390), (41, 40333), (42, 40321), (47, 40264),

Gene: Fury_12 Start: 5438, Stop: 5917, Start Num: 8
Candidate Starts for Fury_12:
(4, 5363), (Start: 8 @5438 has 13 MA's), (9, 5450), (18, 5567), (21, 5597), (38, 5762), (39, 5765), (46, 5855),

Gene: GMA2_47 Start: 48456, Stop: 47995, Start Num: 7
Candidate Starts for GMA2_47:
(7, 48456), (23, 48252), (28, 48222), (31, 48189), (37, 48153), (43, 48087), (44, 48063), (45, 48045),

Gene: GRU1_93 Start: 64270, Stop: 64728, Start Num: 8
Candidate Starts for GRU1_93:
(Start: 8 @64270 has 13 MA's), (9, 64282), (16, 64360), (19, 64402), (39, 64582), (46, 64672), (49, 64717),

Gene: GTE8_91 Start: 66184, Stop: 66642, Start Num: 8
Candidate Starts for GTE8_91:
(2, 66049), (5, 66157), (Start: 8 @66184 has 13 MA's), (9, 66196), (13, 66232), (19, 66316), (30, 66436), (40, 66514), (46, 66586), (49, 66631),

Gene: Gustav_59 Start: 40519, Stop: 40055, Start Num: 6
Candidate Starts for Gustav_59:
(Start: 6 @40519 has 14 MA's), (25, 40309), (32, 40243), (35, 40213), (47, 40090),

Gene: HomeFry_11 Start: 4943, Stop: 5422, Start Num: 8
Candidate Starts for HomeFry_11:
(Start: 8 @4943 has 13 MA's), (10, 4964), (17, 5036), (18, 5072), (21, 5102), (38, 5267), (39, 5270), (46, 5360),

Gene: Kabluna_9 Start: 4732, Stop: 5190, Start Num: 8
Candidate Starts for Kabluna_9:
(Start: 8 @4732 has 13 MA's), (19, 4864), (24, 4927), (43, 5086), (46, 5134), (49, 5179),

Gene: Ligma_47 Start: 40708, Stop: 40232, Start Num: 6
Candidate Starts for Ligma_47:
(1, 40930), (3, 40804), (Start: 6 @40708 has 14 MA's), (29, 40429), (32, 40417), (34, 40390), (41, 40333), (42, 40321), (47, 40264),

Gene: Mariokart_47 Start: 40855, Stop: 40379, Start Num: 6
Candidate Starts for Mariokart_47:
(Start: 6 @40855 has 14 MA's), (32, 40564), (34, 40537), (41, 40480), (42, 40468), (47, 40411),

Gene: MerCougar_8 Start: 5083, Stop: 5541, Start Num: 8
Candidate Starts for MerCougar_8:
(Start: 8 @5083 has 13 MA's), (15, 5155), (19, 5215), (43, 5437), (46, 5485), (49, 5530),

Gene: ModicumRichard_95 Start: 55749, Stop: 56195, Start Num: 6
Candidate Starts for ModicumRichard_95:
(Start: 6 @55749 has 14 MA's), (14, 55830), (21, 55920), (27, 55965), (44, 56130),

Gene: Morgana_102 Start: 57954, Stop: 58400, Start Num: 6

Candidate Starts for Morgana_102:
(Start: 6 @57954 has 14 MA's), (21, 58125), (27, 58170), (44, 58335),

Gene: NosilaM_9 Start: 5620, Stop: 6078, Start Num: 8
Candidate Starts for NosilaM_9:
(Start: 8 @5620 has 13 MA's), (19, 5752), (24, 5815), (43, 5974), (49, 6067),

Gene: ObLaDi_95 Start: 55798, Stop: 56244, Start Num: 6
Candidate Starts for ObLaDi_95:
(Start: 6 @55798 has 14 MA's), (27, 56014), (43, 56155), (44, 56179),

Gene: Outis_8 Start: 4774, Stop: 5232, Start Num: 8
Candidate Starts for Outis_8:
(Start: 8 @4774 has 13 MA's), (15, 4846), (19, 4906), (43, 5128), (46, 5176), (49, 5221),

Gene: Pemberton_8 Start: 3778, Stop: 4239, Start Num: 8
Candidate Starts for Pemberton_8:
(Start: 8 @3778 has 13 MA's), (9, 3790), (11, 3802), (19, 3910), (22, 3946), (36, 4066), (49, 4228),

Gene: Pleakley_12 Start: 5438, Stop: 5917, Start Num: 8
Candidate Starts for Pleakley_12:
(4, 5363), (Start: 8 @5438 has 13 MA's), (9, 5450), (18, 5567), (21, 5597), (38, 5762), (39, 5765), (46, 5855),

Gene: Scuba_12 Start: 5536, Stop: 6015, Start Num: 8
Candidate Starts for Scuba_12:
(4, 5461), (Start: 8 @5536 has 13 MA's), (9, 5548), (18, 5665), (21, 5695), (38, 5860), (39, 5863), (46, 5953),

Gene: Shatter_47 Start: 40708, Stop: 40232, Start Num: 6
Candidate Starts for Shatter_47:
(1, 40930), (3, 40804), (Start: 6 @40708 has 14 MA's), (29, 40429), (32, 40417), (34, 40390), (41, 40333), (42, 40321), (47, 40264),

Gene: Sisko_46 Start: 41036, Stop: 40560, Start Num: 6
Candidate Starts for Sisko_46:
(Start: 6 @41036 has 14 MA's), (11, 40991), (12, 40976), (20, 40871), (34, 40715), (41, 40658), (47, 40589), (48, 40574),

Gene: StarStruck_8 Start: 4774, Stop: 5232, Start Num: 8
Candidate Starts for StarStruck_8:
(Start: 8 @4774 has 13 MA's), (15, 4846), (19, 4906), (43, 5128), (46, 5176), (49, 5221),

Gene: Sukkupi_8 Start: 3819, Stop: 4280, Start Num: 8
Candidate Starts for Sukkupi_8:
(Start: 8 @3819 has 13 MA's), (9, 3831), (11, 3843), (19, 3951), (49, 4269),

Gene: SuperSulley_8 Start: 4860, Stop: 5318, Start Num: 8
Candidate Starts for SuperSulley_8:
(Start: 8 @4860 has 13 MA's), (19, 4992), (43, 5214), (46, 5262), (49, 5307),

Gene: Yago84_46 Start: 41111, Stop: 40635, Start Num: 6
Candidate Starts for Yago84_46:

(Start: 6 @41111 has 14 MA's), (11, 41066), (12, 41051), (20, 40946), (34, 40790), (41, 40733), (47, 40664), (48, 40649),

Gene: Yndexa_8 Start: 3819, Stop: 4280, Start Num: 8
Candidate Starts for Yndexa_8:
(Start: 8 @3819 has 13 MA's), (9, 3831), (11, 3843), (19, 3951), (49, 4269),