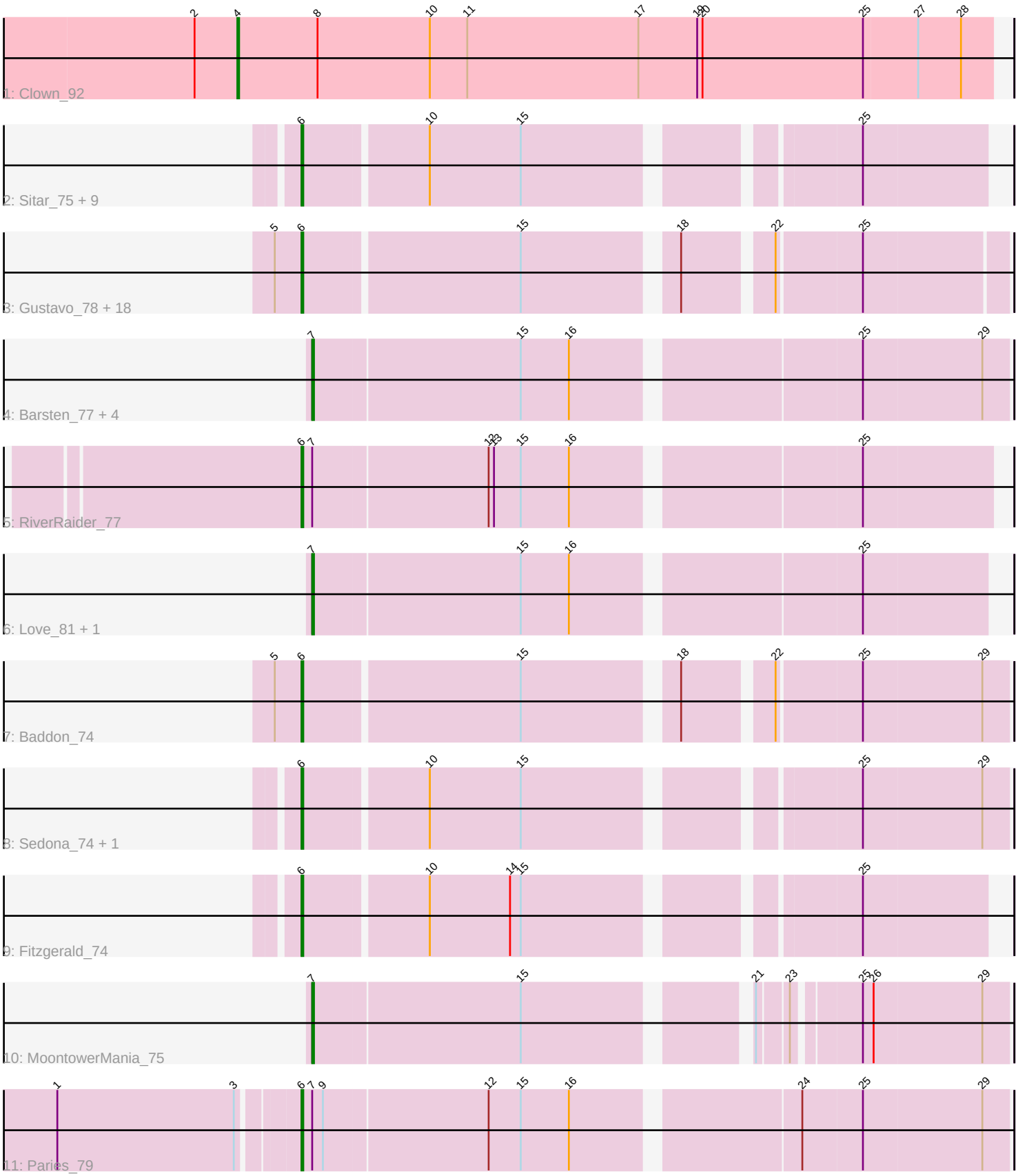
Pham 345870


2
4
8
10
11
17
19
20
25
27
28
1: Clown_92
6
10
15
25
2: Sitar_75 + 9
5
6
15
18
22
25
3: Gustavo_78 + 18
7
15
16
25
29
4: Barsten_77 + 4
6
7
13
15
16
25
5: RiverRaider_77
7
15
16
25
6: Love_81 + 1
5
6
15
18
22
25
29
7: Baddon_74
6
10
15
25
29
8: Sedona_74 + 1
6
10
14
15
25
9: Fitzgerald_74
7
15
21
23
25
26
29
10: MoontowerMania_75
1
3
6
7
9
12
15
16
24
25
29
11: Paries_79

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 345870 Report

This analysis was run 11/14/26 on database version 672.

Pham number 345870 has 44 members, 3 are drafts.

Phages represented in each track:
• Track 1 : Clown_92
• Track 2 : Sitar_75, Sanjuju_74, Stultus_71, Brawn1_73, Keitabear_74, Angelicage_74, Lennon_75, Ailee_73, Jabberwocky_74, Bibwit_74
• Track 3 : Gustavo_78, StorminNorm_77, Stichling_72, Gaea_77, Ashertheman_76, Bizzy_77, YorkOnyx_76, Ribeye_76, LilHam_70, Kwobi_78, SchottB_74, Kroos_76, Flatwoods_76, Tangerine_77, Tycho_75, Baumdotcom_74, Saronaya_78, JKSyngboy_74, Derg_70
• Track 4 : Barsten_77, Kamashten_76, Thing3_76, Shivanishola_76, Galadriel_76
• Track 5 : RiverRaider_77
• Track 6 : Love_81, McCrothy_74
• Track 7 : Baddon_74
• Track 8 : Sedona_74, McKinley_78
• Track 9 : Fitzgerald_74
• Track 10 : MoontowerMania_75
• Track 11 : Paries_79

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 33 of the 41 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Ailee_73, Angelicage_74, Ashertheman_76, Baddon_74, Baumdotcom_74, Bibwit_74, Bizzy_77, Brawn1_73, Derg_70, Fitzgerald_74, Flatwoods_76, Gaea_77, Gustavo_78, JKSyngboy_74, Jabberwocky_74, Keitabear_74, Kroos_76, Kwobi_78, Lennon_75, LilHam_70, McKinley_78, Paries_79, Ribeye_76, RiverRaider_77, Sanjuju_74, Saronaya_78, SchottB_74, Sedona_74, Sitar_75, Stichling_72, StorminNorm_77, Stultus_71, Tangerine_77, Tycho_75, YorkOnyx_76,

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

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

• Barsten_77, Clown_92, Galadriel_76, Kamashten_76, Love_81, McCrothy_74, MoontowerMania_75, Shivanishola_76, Thing3_76,

Summary by start number:

Start 4:
• Found in 1 of 44 (2.3%) of genes in pham
• Manual Annotations of this start: 1 of 41
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Clown_92 (DC2),

Start 6:
• Found in 35 of 44 (79.5%) of genes in pham
• Manual Annotations of this start: 33 of 41
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Ailee_73 (DE1), Angelicage_74 (DE1), Ashertheman_76 (DE1), Baddon_74 (DE1), Baumdotcom_74 (DE1), Bibwit_74 (DE1), Bizzy_77 (DE1), Brawn1_73 (DE1), Derg_70 (DE1), Fitzgerald_74 (DE1), Flatwoods_76 (DE1), Gaea_77 (DE1), Gustavo_78 (DE1), JKSyngboy_74 (DE1), Jabberwocky_74 (DE1), Keitabear_74 (DE1), Kroos_76 (DE1), Kwobi_78 (DE1), Lennon_75 (DE1), LilHam_70 (DE1), McKinley_78 (DE1), Paries_79 (DE1), Ribeye_76 (DE1), RiverRaider_77 (DE1), Sanjuju_74 (DE1), Saronaya_78 (DE1), SchottB_74 (DE1), Sedona_74 (DE1), Sitar_75 (DE1), Stichling_72 (DE1), StorminNorm_77 (DE1), Stultus_71 (DE1), Tangerine_77 (DE1), Tycho_75 (DE1), YorkOnyx_76 (DE1),

Start 7:
• Found in 10 of 44 (22.7%) of genes in pham
• Manual Annotations of this start: 7 of 41
• Called 80.0% of time when present
• Phage (with cluster) where this start called: Barsten_77 (DE1), Galadriel_76 (DE1), Kamashten_76 (DE1), Love_81 (DE1), McCrothy_74 (DE1), MoontowerMania_75 (DE1), Shivanishola_76 (DE1), Thing3_76 (DE1),

Summary by clusters:

There are 2 clusters represented in this pham: DE1, DC2,

Info for manual annotations of cluster DC2:
•Start number 4 was manually annotated 1 time for cluster DC2.

Info for manual annotations of cluster DE1:
•Start number 6 was manually annotated 33 times for cluster DE1.
•Start number 7 was manually annotated 7 times for cluster DE1.

Gene Information:

Gene: Ailee_73 Start: 54620, Stop: 54970, Start Num: 6
Candidate Starts for Ailee_73:
(Start: 6 @54620 has 33 MA's), (10, 54686), (15, 54737), (25, 54902),

Gene: Angelicage_74 Start: 55559, Stop: 55915, Start Num: 6
Candidate Starts for Angelicage_74:
(Start: 6 @55559 has 33 MA's), (10, 55625), (15, 55676), (25, 55841),

Gene: Ashertheman_76 Start: 54155, Stop: 54517, Start Num: 6
Candidate Starts for Ashertheman_76:
(5, 54140), (Start: 6 @54155 has 33 MA's), (15, 54272), (18, 54350), (22, 54395), (25, 54440),

Gene: Baddon_74 Start: 54810, Stop: 55175, Start Num: 6
Candidate Starts for Baddon_74:
(5, 54795), (Start: 6 @54810 has 33 MA's), (15, 54927), (18, 55005), (22, 55050), (25, 55095), (29, 55161),

Gene: Barsten_77 Start: 55588, Stop: 55959, Start Num: 7
Candidate Starts for Barsten_77:
(Start: 7 @55588 has 7 MA's), (15, 55702), (16, 55729), (25, 55879), (29, 55945),

Gene: Baumdotcom_74 Start: 54126, Stop: 54488, Start Num: 6
Candidate Starts for Baumdotcom_74:
(5, 54111), (Start: 6 @54126 has 33 MA's), (15, 54243), (18, 54321), (22, 54366), (25, 54411),

Gene: Bibwit_74 Start: 54261, Stop: 54611, Start Num: 6
Candidate Starts for Bibwit_74:
(Start: 6 @54261 has 33 MA's), (10, 54327), (15, 54378), (25, 54543),

Gene: Bizzy_77 Start: 54039, Stop: 54404, Start Num: 6
Candidate Starts for Bizzy_77:
(5, 54024), (Start: 6 @54039 has 33 MA's), (15, 54156), (18, 54234), (22, 54279), (25, 54324),

Gene: Brawn1_73 Start: 54404, Stop: 54760, Start Num: 6
Candidate Starts for Brawn1_73:
(Start: 6 @54404 has 33 MA's), (10, 54470), (15, 54521), (25, 54686),

Gene: Clown_92 Start: 57279, Stop: 56857, Start Num: 4
Candidate Starts for Clown_92:
(2, 57303), (Start: 4 @57279 has 1 MA's), (8, 57234), (10, 57171), (11, 57150), (17, 57054), (19, 57021), (20, 57018), (25, 56928), (27, 56898), (28, 56874),

Gene: Derg_70 Start: 52842, Stop: 53204, Start Num: 6
Candidate Starts for Derg_70:
(5, 52827), (Start: 6 @52842 has 33 MA's), (15, 52959), (18, 53037), (22, 53082), (25, 53127),

Gene: Fitzgerald_74 Start: 55407, Stop: 55757, Start Num: 6
Candidate Starts for Fitzgerald_74:
(Start: 6 @55407 has 33 MA's), (10, 55473), (14, 55518), (15, 55524), (25, 55689),

Gene: Flatwoods_76 Start: 53348, Stop: 53710, Start Num: 6
Candidate Starts for Flatwoods_76:
(5, 53333), (Start: 6 @53348 has 33 MA's), (15, 53465), (18, 53543), (22, 53588), (25, 53633),

Gene: Gaea_77 Start: 53935, Stop: 54297, Start Num: 6
Candidate Starts for Gaea_77:
(5, 53920), (Start: 6 @53935 has 33 MA's), (15, 54052), (18, 54130), (22, 54175), (25, 54220),

Gene: Galadriel_76 Start: 55496, Stop: 55867, Start Num: 7
Candidate Starts for Galadriel_76:
(Start: 7 @55496 has 7 MA's), (15, 55610), (16, 55637), (25, 55787), (29, 55853),

Gene: Gustavo_78 Start: 54920, Stop: 55282, Start Num: 6
Candidate Starts for Gustavo_78:
(5, 54905), (Start: 6 @54920 has 33 MA's), (15, 55037), (18, 55115), (22, 55160), (25, 55205),

Gene: JKSyngboy_74 Start: 54834, Stop: 55196, Start Num: 6
Candidate Starts for JKSyngboy_74:
(5, 54819), (Start: 6 @54834 has 33 MA's), (15, 54951), (18, 55029), (22, 55074), (25, 55119),

Gene: Jabberwocky_74 Start: 55633, Stop: 55989, Start Num: 6
Candidate Starts for Jabberwocky_74:
(Start: 6 @55633 has 33 MA's), (10, 55699), (15, 55750), (25, 55915),

Gene: Kamashten_76 Start: 55390, Stop: 55761, Start Num: 7
Candidate Starts for Kamashten_76:
(Start: 7 @55390 has 7 MA's), (15, 55504), (16, 55531), (25, 55681), (29, 55747),

Gene: Keitabear_74 Start: 56182, Stop: 56532, Start Num: 6
Candidate Starts for Keitabear_74:
(Start: 6 @56182 has 33 MA's), (10, 56248), (15, 56299), (25, 56464),

Gene: Kroos_76 Start: 54474, Stop: 54836, Start Num: 6
Candidate Starts for Kroos_76:
(5, 54459), (Start: 6 @54474 has 33 MA's), (15, 54591), (18, 54669), (22, 54714), (25, 54759),

Gene: Kwobi_78 Start: 54739, Stop: 55101, Start Num: 6
Candidate Starts for Kwobi_78:
(5, 54724), (Start: 6 @54739 has 33 MA's), (15, 54856), (18, 54934), (22, 54979), (25, 55024),

Gene: Lennon_75 Start: 56283, Stop: 56633, Start Num: 6
Candidate Starts for Lennon_75:
(Start: 6 @56283 has 33 MA's), (10, 56349), (15, 56400), (25, 56565),

Gene: LilHam_70 Start: 51821, Stop: 52183, Start Num: 6
Candidate Starts for LilHam_70:
(5, 51806), (Start: 6 @51821 has 33 MA's), (15, 51938), (18, 52016), (22, 52061), (25, 52106),

Gene: Love_81 Start: 56197, Stop: 56556, Start Num: 7
Candidate Starts for Love_81:
(Start: 7 @56197 has 7 MA's), (15, 56311), (16, 56338), (25, 56488),

Gene: McCrothy_74 Start: 56062, Stop: 56427, Start Num: 7
Candidate Starts for McCrothy_74:
(Start: 7 @56062 has 7 MA's), (15, 56176), (16, 56203), (25, 56353),

Gene: McKinley_78 Start: 55346, Stop: 55708, Start Num: 6
Candidate Starts for McKinley_78:
(Start: 6 @55346 has 33 MA's), (10, 55412), (15, 55463), (25, 55628), (29, 55694),

Gene: MoontowerMania_75 Start: 55975, Stop: 56328, Start Num: 7
Candidate Starts for MoontowerMania_75:
(Start: 7 @55975 has 7 MA's), (15, 56089), (21, 56200), (23, 56215), (25, 56248), (26, 56254), (29, 56314),

Gene: Paries_79 Start: 56413, Stop: 56790, Start Num: 6
Candidate Starts for Paries_79:
(1, 56284), (3, 56383), (Start: 6 @56413 has 33 MA's), (Start: 7 @56419 has 7 MA's), (9, 56425), (12, 56515), (15, 56533), (16, 56560), (24, 56677), (25, 56710), (29, 56776),

Gene: Ribeye_76 Start: 54081, Stop: 54443, Start Num: 6
Candidate Starts for Ribeye_76:
(5, 54066), (Start: 6 @54081 has 33 MA's), (15, 54198), (18, 54276), (22, 54321), (25, 54366),

Gene: RiverRaider_77 Start: 53411, Stop: 53779, Start Num: 6
Candidate Starts for RiverRaider_77:
(Start: 6 @53411 has 33 MA's), (Start: 7 @53417 has 7 MA's), (12, 53513), (13, 53516), (15, 53531), (16, 53558), (25, 53708),

Gene: Sanjuju_74 Start: 55497, Stop: 55853, Start Num: 6
Candidate Starts for Sanjuju_74:
(Start: 6 @55497 has 33 MA's), (10, 55563), (15, 55614), (25, 55779),

Gene: Saronaya_78 Start: 54920, Stop: 55282, Start Num: 6
Candidate Starts for Saronaya_78:
(5, 54905), (Start: 6 @54920 has 33 MA's), (15, 55037), (18, 55115), (22, 55160), (25, 55205),

Gene: SchottB_74 Start: 54541, Stop: 54903, Start Num: 6
Candidate Starts for SchottB_74:
(5, 54526), (Start: 6 @54541 has 33 MA's), (15, 54658), (18, 54736), (22, 54781), (25, 54826),

Gene: Sedona_74 Start: 56067, Stop: 56429, Start Num: 6
Candidate Starts for Sedona_74:
(Start: 6 @56067 has 33 MA's), (10, 56133), (15, 56184), (25, 56349), (29, 56415),

Gene: Shivanishola_76 Start: 53843, Stop: 54214, Start Num: 7
Candidate Starts for Shivanishola_76:
(Start: 7 @53843 has 7 MA's), (15, 53957), (16, 53984), (25, 54134), (29, 54200),

Gene: Sitar_75 Start: 56041, Stop: 56391, Start Num: 6
Candidate Starts for Sitar_75:
(Start: 6 @56041 has 33 MA's), (10, 56107), (15, 56158), (25, 56323),

Gene: Stichling_72 Start: 53498, Stop: 53860, Start Num: 6
Candidate Starts for Stichling_72:
(5, 53483), (Start: 6 @53498 has 33 MA's), (15, 53615), (18, 53693), (22, 53738), (25, 53783),

Gene: StorminNorm_77 Start: 54711, Stop: 55073, Start Num: 6
Candidate Starts for StorminNorm_77:
(5, 54696), (Start: 6 @54711 has 33 MA's), (15, 54828), (18, 54906), (22, 54951), (25, 54996),

Gene: Stultus_71 Start: 54288, Stop: 54638, Start Num: 6
Candidate Starts for Stultus_71:

(Start: 6 @54288 has 33 MA's), (10, 54354), (15, 54405), (25, 54570),

Gene: Tangerine_77 Start: 54214, Stop: 54576, Start Num: 6
Candidate Starts for Tangerine_77:
(5, 54199), (Start: 6 @54214 has 33 MA's), (15, 54331), (18, 54409), (22, 54454), (25, 54499),

Gene: Thing3_76 Start: 55390, Stop: 55761, Start Num: 7
Candidate Starts for Thing3_76:
(Start: 7 @55390 has 7 MA's), (15, 55504), (16, 55531), (25, 55681), (29, 55747),

Gene: Tycho_75 Start: 54030, Stop: 54392, Start Num: 6
Candidate Starts for Tycho_75:
(5, 54015), (Start: 6 @54030 has 33 MA's), (15, 54147), (18, 54225), (22, 54270), (25, 54315),

Gene: YorkOnyx_76 Start: 54058, Stop: 54420, Start Num: 6
Candidate Starts for YorkOnyx_76:
(5, 54043), (Start: 6 @54058 has 33 MA's), (15, 54175), (18, 54253), (22, 54298), (25, 54343),