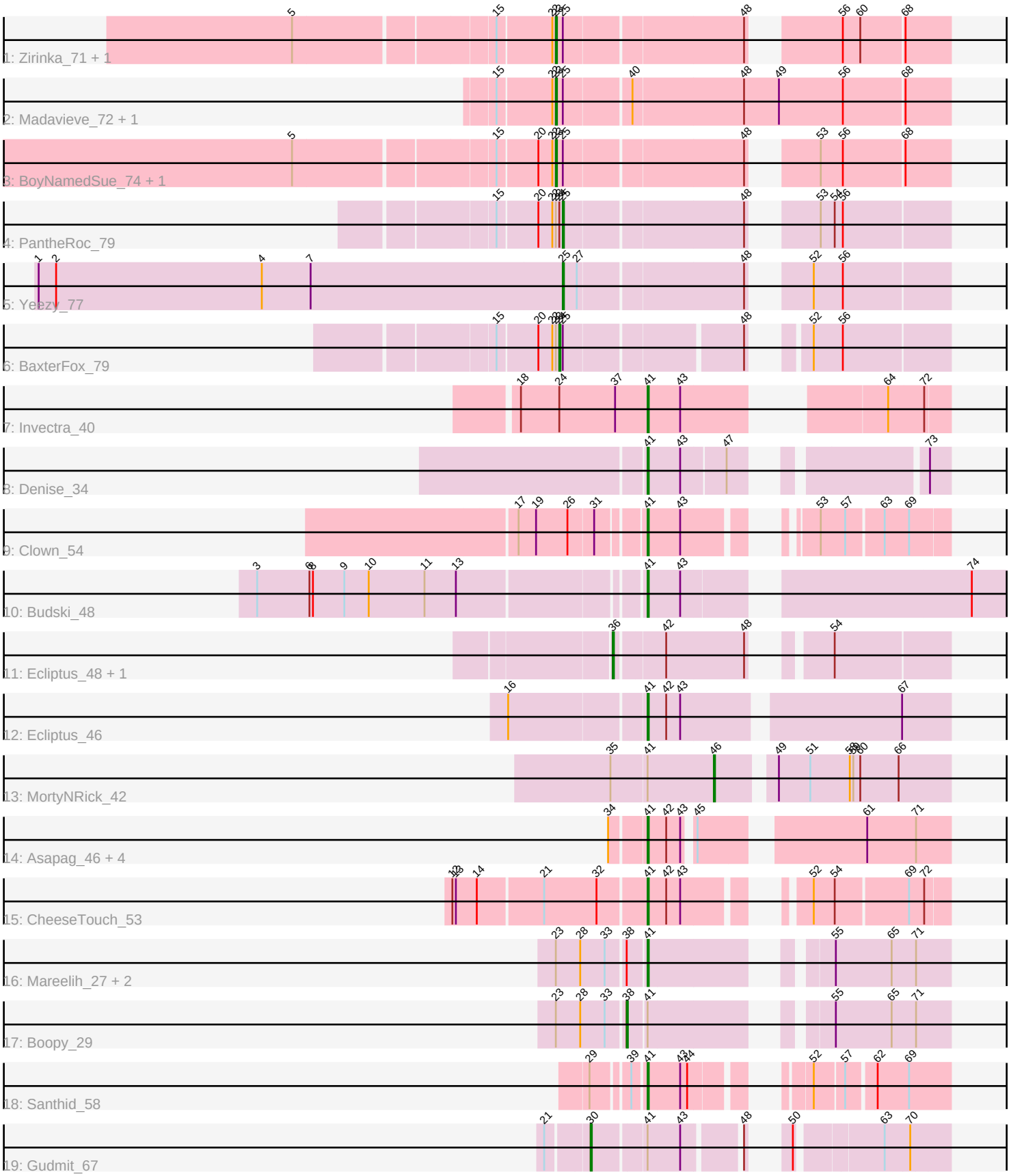
Pham 341129


1: Zirinka_71 + 1
2: Madavieve_72 + 1
3: BoyNamedSue_74 + 1
4: PantheRoc_79
5: Yeezy_77
6: BaxterFox_79
7: Invectra_40
8: Denise_34
9: Clown_54
10: Budski_48
11: Ecliptus_48 + 1
12: Ecliptus_46
13: MortyNRick_42
14: Asapag_46 + 4
15: CheeseTouch_53
16: Mareelih_27 + 2
17: Boopy_29
18: Santhid_58
19: Gudmit_67

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 341129 Report

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

Pham number 341129 has 29 members, 2 are drafts.

Phages represented in each track:
• Track 1 : Zirinka_71, Bialota_71
• Track 2 : Madavieve_72, Maridalia_76
• Track 3 : BoyNamedSue_74, AlumE_74
• Track 4 : PantheRoc_79
• Track 5 : Yeezy_77
• Track 6 : BaxterFox_79
• Track 7 : Invectra_40
• Track 8 : Denise_34
• Track 9 : Clown_54
• Track 10 : Budski_48
• Track 11 : Ecliptus_48, Apricot_47
• Track 12 : Ecliptus_46
• Track 13 : MortyNRick_42
• Track 14 : Asapag_46, Frickyeah_51, Periwinkle_56, ShawBrad_50, Phistory_50
• Track 15 : CheeseTouch_53
• Track 16 : Mareelih_27, BlueNGold_27, Forza_29
• Track 17 : Boopy_29
• Track 18 : Santhid_58
• Track 19 : Gudmit_67

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

The start number called the most often in the published annotations is 41, it was called in 14 of the 27 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Asapag_46, BlueNGold_27, Budski_48, CheeseTouch_53, Clown_54, Denise_34, Ecliptus_46, Forza_29, Frickyeah_51, Invectra_40, Mareelih_27, Periwinkle_56, Phistory_50, Santhid_58, ShawBrad_50,

Genes that have the "Most Annotated" start but do not call it:
• Boopy_29, Gudmit_67, MortyNRick_42,

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

• AlumE_74, Apricot_47, BaxterFox_79, Bialota_71, BoyNamedSue_74, Ecliptus_48, Madavieve_72, Maridalia_76, PantheRoc_79, Yeezy_77, Zirinka_71,

Summary by start number:

Start 23:
• Found in 12 of 29 (41.4%) of genes in pham
• Manual Annotations of this start: 5 of 27
• Called 50.0% of time when present
• Phage (with cluster) where this start called: AlumE_74 (CZ1), Bialota_71 (CZ1), BoyNamedSue_74 (CZ1), Madavieve_72 (CZ1), Maridalia_76 (CZ1), Zirinka_71 (CZ1),

Start 24:
• Found in 3 of 29 (10.3%) of genes in pham
• Manual Annotations of this start: 1 of 27
• Called 33.3% of time when present
• Phage (with cluster) where this start called: BaxterFox_79 (CZ3),

Start 25:
• Found in 9 of 29 (31.0%) of genes in pham
• Manual Annotations of this start: 2 of 27
• Called 22.2% of time when present
• Phage (with cluster) where this start called: PantheRoc_79 (CZ3), Yeezy_77 (CZ3),

Start 30:
• Found in 1 of 29 (3.4%) of genes in pham
• Manual Annotations of this start: 1 of 27
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Gudmit_67 (singleton),

Start 36:
• Found in 2 of 29 (6.9%) of genes in pham
• Manual Annotations of this start: 2 of 27
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Apricot_47 (DN3), Ecliptus_48 (DN),

Start 38:
• Found in 4 of 29 (13.8%) of genes in pham
• Manual Annotations of this start: 1 of 27
• Called 25.0% of time when present
• Phage (with cluster) where this start called: Boopy_29 (DS),

Start 41:
• Found in 18 of 29 (62.1%) of genes in pham
• Manual Annotations of this start: 14 of 27
• Called 83.3% of time when present
• Phage (with cluster) where this start called: Asapag_46 (DN1), BlueNGold_27 (DS), Budski_48 (DN), CheeseTouch_53 (DN1), Clown_54 (DC2), Denise_34 (CZ5), Ecliptus_46 (DN), Forza_29 (DS), Frickyeah_51 (DN1), Invectra_40 (CZ4), Mareelih_27 (DS), Periwinkle_56 (DN1), Phistory_50 (DN1), Santhid_58 (DY), ShawBrad_50 (DN1),

Start 46:
• Found in 1 of 29 (3.4%) of genes in pham
• Manual Annotations of this start: 1 of 27
• Called 100.0% of time when present
• Phage (with cluster) where this start called: MortyNRick_42 (DN),

Summary by clusters:

There are 11 clusters represented in this pham: DN, singleton, CZ3, CZ1, CZ4, CZ5, DN1, DN3, DY, DC2, DS,

Info for manual annotations of cluster CZ1:
•Start number 23 was manually annotated 5 times for cluster CZ1.

Info for manual annotations of cluster CZ3:
•Start number 24 was manually annotated 1 time for cluster CZ3.
•Start number 25 was manually annotated 2 times for cluster CZ3.

Info for manual annotations of cluster CZ4:
•Start number 41 was manually annotated 1 time for cluster CZ4.

Info for manual annotations of cluster CZ5:
•Start number 41 was manually annotated 1 time for cluster CZ5.

Info for manual annotations of cluster DC2:
•Start number 41 was manually annotated 1 time for cluster DC2.

Info for manual annotations of cluster DN:
•Start number 36 was manually annotated 1 time for cluster DN.
•Start number 41 was manually annotated 2 times for cluster DN.
•Start number 46 was manually annotated 1 time for cluster DN.

Info for manual annotations of cluster DN1:
•Start number 41 was manually annotated 5 times for cluster DN1.

Info for manual annotations of cluster DN3:
•Start number 36 was manually annotated 1 time for cluster DN3.

Info for manual annotations of cluster DS:
•Start number 38 was manually annotated 1 time for cluster DS.
•Start number 41 was manually annotated 3 times for cluster DS.

Info for manual annotations of cluster DY:
•Start number 41 was manually annotated 1 time for cluster DY.

Gene Information:

Gene: AlumE_74 Start: 49657, Stop: 49953, Start Num: 23
Candidate Starts for AlumE_74:
(5, 49447), (15, 49609), (20, 49642), (22, 49654), (Start: 23 @49657 has 5 MA's), (Start: 25 @49663 has 2 MA's), (48, 49810), (53, 49846), (56, 49864), (68, 49915),

Gene: Apricot_47 Start: 31166, Stop: 31405, Start Num: 36
Candidate Starts for Apricot_47:
(Start: 36 @31166 has 2 MA's), (42, 31205), (48, 31271), (54, 31310),

Gene: Asapag_46 Start: 32313, Stop: 32537, Start Num: 41
Candidate Starts for Asapag_46:
(34, 32286), (Start: 41 @32313 has 14 MA's), (42, 32328), (43, 32340), (45, 32346), (61, 32466), (71, 32508),

Gene: BaxterFox_79 Start: 50974, Stop: 51255, Start Num: 24
Candidate Starts for BaxterFox_79:
(15, 50923), (20, 50956), (22, 50968), (Start: 23 @50971 has 5 MA's), (Start: 24 @50974 has 1 MA's), (Start: 25 @50977 has 2 MA's), (48, 51118), (52, 51142), (56, 51166),

Gene: Bialota_71 Start: 49108, Stop: 49404, Start Num: 23
Candidate Starts for Bialota_71:
(5, 48898), (15, 49060), (22, 49105), (Start: 23 @49108 has 5 MA's), (Start: 25 @49114 has 2 MA's), (48, 49261), (56, 49315), (60, 49330), (68, 49366),

Gene: BlueNGold_27 Start: 9816, Stop: 9601, Start Num: 41
Candidate Starts for BlueNGold_27:
(Start: 23 @9888 has 5 MA's), (28, 9867), (33, 9846), (Start: 38 @9831 has 1 MA's), (Start: 41 @9816 has 14 MA's), (55, 9699), (65, 9651), (71, 9630),

Gene: Boopy_29 Start: 9843, Stop: 9613, Start Num: 38
Candidate Starts for Boopy_29:
(Start: 23 @9900 has 5 MA's), (28, 9879), (33, 9858), (Start: 38 @9843 has 1 MA's), (Start: 41 @9828 has 14 MA's), (55, 9711), (65, 9663), (71, 9642),

Gene: BoyNamedSue_74 Start: 49657, Stop: 49953, Start Num: 23
Candidate Starts for BoyNamedSue_74:
(5, 49447), (15, 49609), (20, 49642), (22, 49654), (Start: 23 @49657 has 5 MA's), (Start: 25 @49663 has 2 MA's), (48, 49810), (53, 49846), (56, 49864), (68, 49915),

Gene: Budski_48 Start: 33155, Stop: 33439, Start Num: 41
Candidate Starts for Budski_48:
(3, 32837), (6, 32882), (8, 32885), (9, 32912), (10, 32933), (11, 32981), (13, 33008), (Start: 41 @33155 has 14 MA's), (43, 33182), (74, 33398),

Gene: CheeseTouch_53 Start: 30681, Stop: 30887, Start Num: 41
Candidate Starts for CheeseTouch_53:
(12, 30522), (13, 30525), (14, 30543), (21, 30597), (32, 30642), (Start: 41 @30681 has 14 MA's), (42, 30696), (43, 30708), (52, 30777), (54, 30795), (69, 30855), (72, 30867),

Gene: Clown_54 Start: 41043, Stop: 41246, Start Num: 41
Candidate Starts for Clown_54:
(17, 40944), (19, 40959), (26, 40986), (31, 41007), (Start: 41 @41043 has 14 MA's), (43, 41070), (53, 41142), (57, 41163), (63, 41193), (69, 41214),

Gene: Denise_34 Start: 27066, Stop: 27272, Start Num: 41
Candidate Starts for Denise_34:
(Start: 41 @27066 has 14 MA's), (43, 27093), (47, 27129), (73, 27255),

Gene: Ecliptus_48 Start: 33429, Stop: 33668, Start Num: 36
Candidate Starts for Ecliptus_48:
(Start: 36 @33429 has 2 MA's), (42, 33468), (48, 33534), (54, 33573),

Gene: Ecliptus_46 Start: 32573, Stop: 32812, Start Num: 41
Candidate Starts for Ecliptus_46:
(16, 32462), (Start: 41 @32573 has 14 MA's), (42, 32588), (43, 32600), (67, 32771),

Gene: Forza_29 Start: 9868, Stop: 9653, Start Num: 41
Candidate Starts for Forza_29:
(Start: 23 @9940 has 5 MA's), (28, 9919), (33, 9898), (Start: 38 @9883 has 1 MA's), (Start: 41 @9868 has 14 MA's), (55, 9751), (65, 9703), (71, 9682),

Gene: Frickyeah_51 Start: 31788, Stop: 32012, Start Num: 41
Candidate Starts for Frickyeah_51:
(34, 31761), (Start: 41 @31788 has 14 MA's), (42, 31803), (43, 31815), (45, 31821), (61, 31941), (71, 31983),

Gene: Gudmit_67 Start: 40055, Stop: 40297, Start Num: 30
Candidate Starts for Gudmit_67:
(21, 40022), (Start: 30 @40055 has 1 MA's), (Start: 41 @40097 has 14 MA's), (43, 40124), (48, 40166), (50, 40178), (63, 40244), (70, 40265),

Gene: Invectra_40 Start: 30370, Stop: 30570, Start Num: 41
Candidate Starts for Invectra_40:
(18, 30262), (Start: 24 @30295 has 1 MA's), (37, 30343), (Start: 41 @30370 has 14 MA's), (43, 30397), (64, 30520), (72, 30550),

Gene: Madavieve_72 Start: 48787, Stop: 49113, Start Num: 23
Candidate Starts for Madavieve_72:
(15, 48739), (22, 48784), (Start: 23 @48787 has 5 MA's), (Start: 25 @48793 has 2 MA's), (40, 48847), (48, 48940), (49, 48970), (56, 49024), (68, 49075),

Gene: Mareelih_27 Start: 9273, Stop: 9058, Start Num: 41
Candidate Starts for Mareelih_27:
(Start: 23 @9345 has 5 MA's), (28, 9324), (33, 9303), (Start: 38 @9288 has 1 MA's), (Start: 41 @9273 has 14 MA's), (55, 9156), (65, 9108), (71, 9087),

Gene: Maridalia_76 Start: 48667, Stop: 48993, Start Num: 23
Candidate Starts for Maridalia_76:
(15, 48619), (22, 48664), (Start: 23 @48667 has 5 MA's), (Start: 25 @48673 has 2 MA's), (40, 48727), (48, 48820), (49, 48850), (56, 48904), (68, 48955),

Gene: MortyNRick_42 Start: 32315, Stop: 32503, Start Num: 46
Candidate Starts for MortyNRick_42:
(35, 32228), (Start: 41 @32258 has 14 MA's), (Start: 46 @32315 has 1 MA's), (49, 32357), (51, 32384), (58, 32417), (59, 32420), (60, 32426), (66, 32459),

Gene: PantheRoc_79 Start: 50128, Stop: 50418, Start Num: 25
Candidate Starts for PantheRoc_79:
(15, 50074), (20, 50107), (22, 50119), (Start: 23 @50122 has 5 MA's), (Start: 24 @50125 has 1 MA's), (Start: 25 @50128 has 2 MA's), (48, 50275), (53, 50311), (54, 50323), (56, 50329),

Gene: Periwinkle_56 Start: 34613, Stop: 34837, Start Num: 41
Candidate Starts for Periwinkle_56:
(34, 34586), (Start: 41 @34613 has 14 MA's), (42, 34628), (43, 34640), (45, 34646), (61, 34766), (71, 34808),

Gene: Phistory_50 Start: 32872, Stop: 33096, Start Num: 41
Candidate Starts for Phistory_50:
(34, 32845), (Start: 41 @32872 has 14 MA's), (42, 32887), (43, 32899), (45, 32905), (61, 33025), (71, 33067),

Gene: Santhid_58 Start: 38223, Stop: 38426, Start Num: 41
Candidate Starts for Santhid_58:
(29, 38187), (39, 38214), (Start: 41 @38223 has 14 MA's), (43, 38250), (44, 38256), (52, 38319), (57, 38343), (62, 38364), (69, 38391),

Gene: ShawBrad_50 Start: 32095, Stop: 32319, Start Num: 41
Candidate Starts for ShawBrad_50:
(34, 32068), (Start: 41 @32095 has 14 MA's), (42, 32110), (43, 32122), (45, 32128), (61, 32248), (71, 32290),

Gene: Yeezy_77 Start: 47836, Stop: 48126, Start Num: 25
Candidate Starts for Yeezy_77:
(1, 47386), (2, 47401), (4, 47578), (7, 47620), (Start: 25 @47836 has 2 MA's), (27, 47848), (48, 47983), (52, 48013), (56, 48037),

Gene: Zirinka_71 Start: 49096, Stop: 49392, Start Num: 23
Candidate Starts for Zirinka_71:
(5, 48886), (15, 49048), (22, 49093), (Start: 23 @49096 has 5 MA's), (Start: 25 @49102 has 2 MA's), (48, 49249), (56, 49303), (60, 49318), (68, 49354),