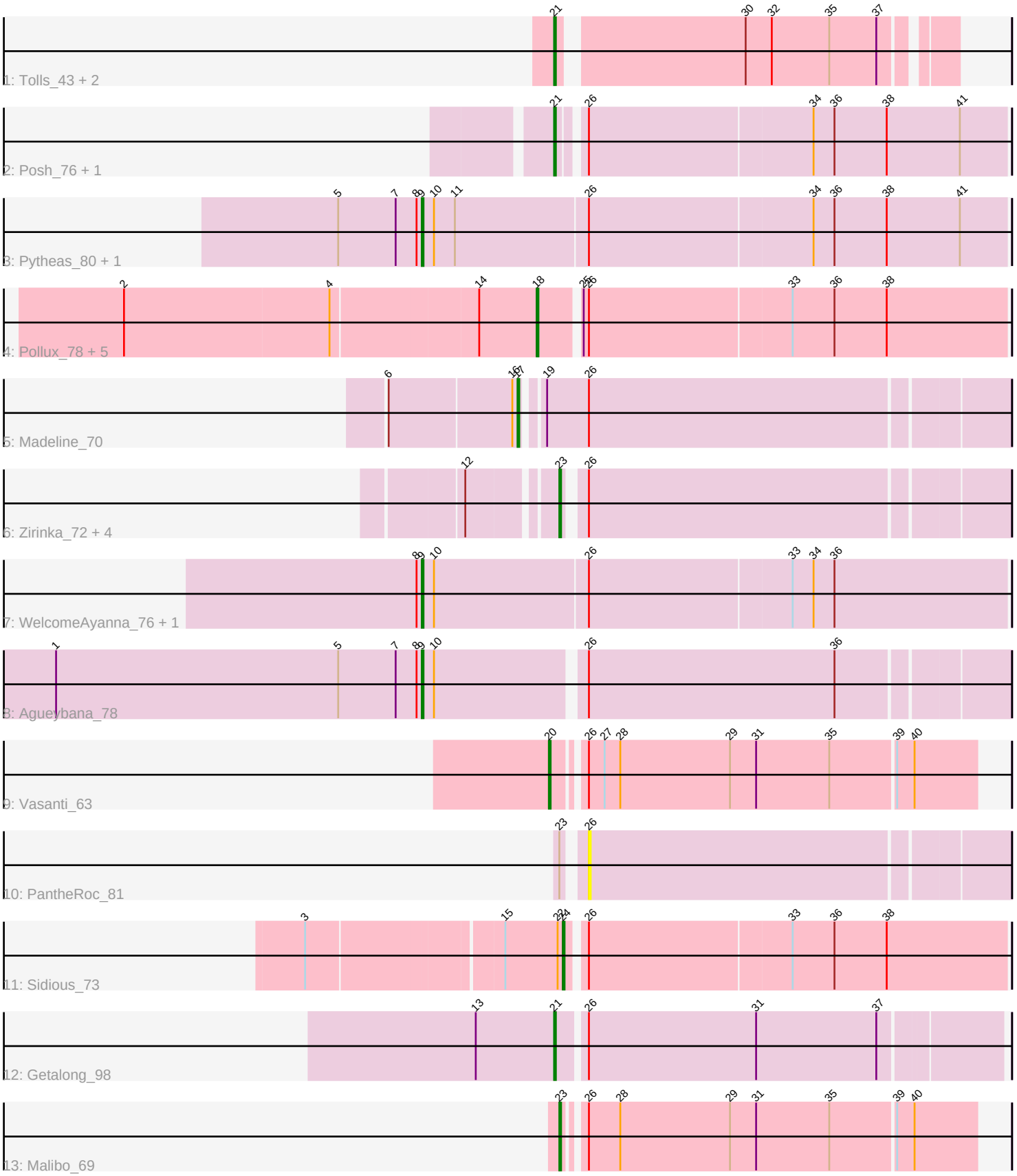
Pham 86350


1: Tolls_43 + 2
2: Posh_76 + 1
3: Pytheas_80 + 1
4: Pollux_78 + 5
5: Madeline_70
6: Zirinka_72 + 4
7: WelcomeAyanna_76 + 1
8: Agueybana_78
9: Vasanti_63
10: PantheRoc_81
11: Sidious_73
12: Getalong_98
13: Malibo_69

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 86350 Report

This analysis was run 04/28/24 on database version 559.

Pham number 86350 has 27 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Tolls_43, Yarn_39, AndPeggy_39
• Track 2 : Posh_76, Wrigley_78
• Track 3 : Pytheas_80, Jablanski_79
• Track 4 : Pollux_78, Floral_76, EnalisNailo_71, Lilas_72, Marteena_74, EMsquaredA_75
• Track 5 : Madeline_70
• Track 6 : Zirinka_72, BoyNamedSue_75, Bialota_72, AlumE_75, Maridalia_77
• Track 7 : WelcomeAyanna_76, ThankyouJordi_76
• Track 8 : Agueybana_78
• Track 9 : Vasanti_63
• Track 10 : PantheRoc_81
• Track 11 : Sidious_73
• Track 12 : Getalong_98
• Track 13 : Malibo_69

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

The start number called the most often in the published annotations is 18, it was called in 6 of the 26 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• EMsquaredA_75, EnalisNailo_71, Floral_76, Lilas_72, Marteena_74, Pollux_78,

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

Genes that do not have the "Most Annotated" start:
• Agueybana_78, AlumE_75, AndPeggy_39, Bialota_72, BoyNamedSue_75, Getalong_98, Jablanski_79, Madeline_70, Malibo_69, Maridalia_77, PantheRoc_81, Posh_76, Pytheas_80, Sidious_73, ThankyouJordi_76, Tolls_43, Vasanti_63, WelcomeAyanna_76, Wrigley_78, Yarn_39, Zirinka_72,

Summary by start number:

Start 9:
• Found in 5 of 27 (18.5%) of genes in pham
• Manual Annotations of this start: 5 of 26
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Agueybana_78 (CZ1), Jablanski_79 (CY), Pytheas_80 (CY), ThankyouJordi_76 (CZ1), WelcomeAyanna_76 (CZ1),

Start 17:
• Found in 1 of 27 (3.7%) of genes in pham
• Manual Annotations of this start: 1 of 26
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Madeline_70 (CZ1),

Start 18:
• Found in 6 of 27 (22.2%) of genes in pham
• Manual Annotations of this start: 6 of 26
• Called 100.0% of time when present
• Phage (with cluster) where this start called: EMsquaredA_75 (CY1), EnalisNailo_71 (CY1), Floral_76 (CY1), Lilas_72 (CY1), Marteena_74 (CY1), Pollux_78 (CY1),

Start 20:
• Found in 1 of 27 (3.7%) of genes in pham
• Manual Annotations of this start: 1 of 26
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Vasanti_63 (CZ2),

Start 21:
• Found in 6 of 27 (22.2%) of genes in pham
• Manual Annotations of this start: 6 of 26
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AndPeggy_39 (CT), Getalong_98 (DN1), Posh_76 (CY), Tolls_43 (CT), Wrigley_78 (CY), Yarn_39 (CT),

Start 23:
• Found in 7 of 27 (25.9%) of genes in pham
• Manual Annotations of this start: 6 of 26
• Called 85.7% of time when present
• Phage (with cluster) where this start called: AlumE_75 (CZ1), Bialota_72 (CZ1), BoyNamedSue_75 (CZ1), Malibo_69 (DW), Maridalia_77 (CZ1), Zirinka_72 (CZ1),

Start 24:
• Found in 1 of 27 (3.7%) of genes in pham
• Manual Annotations of this start: 1 of 26
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Sidious_73 (CZ7),

Start 26:
• Found in 24 of 27 (88.9%) of genes in pham
• No Manual Annotations of this start.
• Called 4.2% of time when present
• Phage (with cluster) where this start called: PantheRoc_81 (CZ3),

Summary by clusters:

There are 9 clusters represented in this pham: CY1, CZ2, CZ3, CZ1, CZ7, CY, DN1, DW, CT,

Info for manual annotations of cluster CT:
•Start number 21 was manually annotated 3 times for cluster CT.

Info for manual annotations of cluster CY:
•Start number 9 was manually annotated 2 times for cluster CY.
•Start number 21 was manually annotated 2 times for cluster CY.

Info for manual annotations of cluster CY1:
•Start number 18 was manually annotated 6 times for cluster CY1.

Info for manual annotations of cluster CZ1:
•Start number 9 was manually annotated 3 times for cluster CZ1.
•Start number 17 was manually annotated 1 time for cluster CZ1.
•Start number 23 was manually annotated 5 times for cluster CZ1.

Info for manual annotations of cluster CZ2:
•Start number 20 was manually annotated 1 time for cluster CZ2.

Info for manual annotations of cluster CZ7:
•Start number 24 was manually annotated 1 time for cluster CZ7.

Info for manual annotations of cluster DN1:
•Start number 21 was manually annotated 1 time for cluster DN1.

Info for manual annotations of cluster DW:
•Start number 23 was manually annotated 1 time for cluster DW.

Gene Information:

Gene: Agueybana_78 Start: 49983, Stop: 50303, Start Num: 9
Candidate Starts for Agueybana_78:
(1, 49773), (5, 49935), (7, 49968), (8, 49980), (Start: 9 @49983 has 5 MA's), (10, 49989), (26, 50070), (36, 50211),

Gene: AlumE_75 Start: 49953, Stop: 50195, Start Num: 23
Candidate Starts for AlumE_75:
(12, 49908), (Start: 23 @49953 has 6 MA's), (26, 49962),

Gene: AndPeggy_39 Start: 29751, Stop: 29542, Start Num: 21
Candidate Starts for AndPeggy_39:
(Start: 21 @29751 has 6 MA's), (30, 29652), (32, 29637), (35, 29604), (37, 29577),

Gene: Bialota_72 Start: 49404, Stop: 49646, Start Num: 23
Candidate Starts for Bialota_72:
(12, 49359), (Start: 23 @49404 has 6 MA's), (26, 49413),

Gene: BoyNamedSue_75 Start: 49953, Stop: 50195, Start Num: 23
Candidate Starts for BoyNamedSue_75:
(12, 49908), (Start: 23 @49953 has 6 MA's), (26, 49962),

Gene: EMsquaredA_75 Start: 48515, Stop: 48775, Start Num: 18
Candidate Starts for EMsquaredA_75:
(2, 48284), (4, 48401), (14, 48482), (Start: 18 @48515 has 6 MA's), (25, 48536), (26, 48539), (33, 48653), (36, 48677), (38, 48707),

Gene: EnalisNailo_71 Start: 49007, Stop: 49267, Start Num: 18
Candidate Starts for EnalisNailo_71:
(2, 48776), (4, 48893), (14, 48974), (Start: 18 @49007 has 6 MA's), (25, 49028), (26, 49031), (33, 49145), (36, 49169), (38, 49199),

Gene: Floral_76 Start: 50472, Stop: 50732, Start Num: 18
Candidate Starts for Floral_76:
(2, 50241), (4, 50358), (14, 50439), (Start: 18 @50472 has 6 MA's), (25, 50493), (26, 50496), (33, 50610), (36, 50634), (38, 50664),

Gene: Getalong_98 Start: 53180, Stop: 53425, Start Num: 21
Candidate Starts for Getalong_98:
(13, 53135), (Start: 21 @53180 has 6 MA's), (26, 53195), (31, 53291), (37, 53360),

Gene: Jablanski_79 Start: 51879, Stop: 52208, Start Num: 9
Candidate Starts for Jablanski_79:
(5, 51831), (7, 51864), (8, 51876), (Start: 9 @51879 has 5 MA's), (10, 51885), (11, 51897), (26, 51972), (34, 52098), (36, 52110), (38, 52140), (41, 52182),

Gene: Lilas_72 Start: 50545, Stop: 50805, Start Num: 18
Candidate Starts for Lilas_72:
(2, 50314), (4, 50431), (14, 50512), (Start: 18 @50545 has 6 MA's), (25, 50566), (26, 50569), (33, 50683), (36, 50707), (38, 50737),

Gene: Madeline_70 Start: 49023, Stop: 49289, Start Num: 17
Candidate Starts for Madeline_70:
(6, 48951), (16, 49020), (Start: 17 @49023 has 1 MA's), (19, 49032), (26, 49056),

Gene: Malibo_69 Start: 46043, Stop: 46270, Start Num: 23
Candidate Starts for Malibo_69:
(Start: 23 @46043 has 6 MA's), (26, 46052), (28, 46070), (29, 46133), (31, 46148), (35, 46190), (39, 46226), (40, 46235),

Gene: Maridalia_77 Start: 48993, Stop: 49235, Start Num: 23
Candidate Starts for Maridalia_77:
(12, 48948), (Start: 23 @48993 has 6 MA's), (26, 49002),

Gene: Marteena_74 Start: 48515, Stop: 48775, Start Num: 18
Candidate Starts for Marteena_74:
(2, 48284), (4, 48401), (14, 48482), (Start: 18 @48515 has 6 MA's), (25, 48536), (26, 48539), (33, 48653), (36, 48677), (38, 48707),

Gene: PantheRoc_81 Start: 50427, Stop: 50660, Start Num: 26
Candidate Starts for PantheRoc_81:

(Start: 23 @50418 has 6 MA's), (26, 50427),

Gene: Pollux_78 Start: 50472, Stop: 50732, Start Num: 18
Candidate Starts for Pollux_78:
(2, 50241), (4, 50358), (14, 50439), (Start: 18 @50472 has 6 MA's), (25, 50493), (26, 50496), (33, 50610), (36, 50634), (38, 50664),

Gene: Posh_76 Start: 50733, Stop: 50981, Start Num: 21
Candidate Starts for Posh_76:
(Start: 21 @50733 has 6 MA's), (26, 50745), (34, 50871), (36, 50883), (38, 50913), (41, 50955),

Gene: Pytheas_80 Start: 51878, Stop: 52207, Start Num: 9
Candidate Starts for Pytheas_80:
(5, 51830), (7, 51863), (8, 51875), (Start: 9 @51878 has 5 MA's), (10, 51884), (11, 51896), (26, 51971), (34, 52097), (36, 52109), (38, 52139), (41, 52181),

Gene: Sidious_73 Start: 49089, Stop: 49334, Start Num: 24
Candidate Starts for Sidious_73:
(3, 48951), (15, 49056), (22, 49086), (Start: 24 @49089 has 1 MA's), (26, 49098), (33, 49212), (36, 49236), (38, 49266),

Gene: ThankyouJordi_76 Start: 50792, Stop: 51121, Start Num: 9
Candidate Starts for ThankyouJordi_76:
(8, 50789), (Start: 9 @50792 has 5 MA's), (10, 50798), (26, 50885), (33, 50999), (34, 51011), (36, 51023),

Gene: Tolls_43 Start: 29996, Stop: 29787, Start Num: 21
Candidate Starts for Tolls_43:
(Start: 21 @29996 has 6 MA's), (30, 29897), (32, 29882), (35, 29849), (37, 29822),

Gene: Vasanti_63 Start: 42619, Stop: 42852, Start Num: 20
Candidate Starts for Vasanti_63:
(Start: 20 @42619 has 1 MA's), (26, 42634), (27, 42643), (28, 42652), (29, 42715), (31, 42730), (35, 42772), (39, 42808), (40, 42817),

Gene: WelcomeAyanna_76 Start: 50939, Stop: 51268, Start Num: 9
Candidate Starts for WelcomeAyanna_76:
(8, 50936), (Start: 9 @50939 has 5 MA's), (10, 50945), (26, 51032), (33, 51146), (34, 51158), (36, 51170),

Gene: Wrigley_78 Start: 50316, Stop: 50564, Start Num: 21
Candidate Starts for Wrigley_78:
(Start: 21 @50316 has 6 MA's), (26, 50328), (34, 50454), (36, 50466), (38, 50496), (41, 50538),

Gene: Yarn_39 Start: 29756, Stop: 29547, Start Num: 21
Candidate Starts for Yarn_39:
(Start: 21 @29756 has 6 MA's), (30, 29657), (32, 29642), (35, 29609), (37, 29582),

Gene: Zirinka_72 Start: 49392, Stop: 49634, Start Num: 23
Candidate Starts for Zirinka_72:
(12, 49347), (Start: 23 @49392 has 6 MA's), (26, 49401),