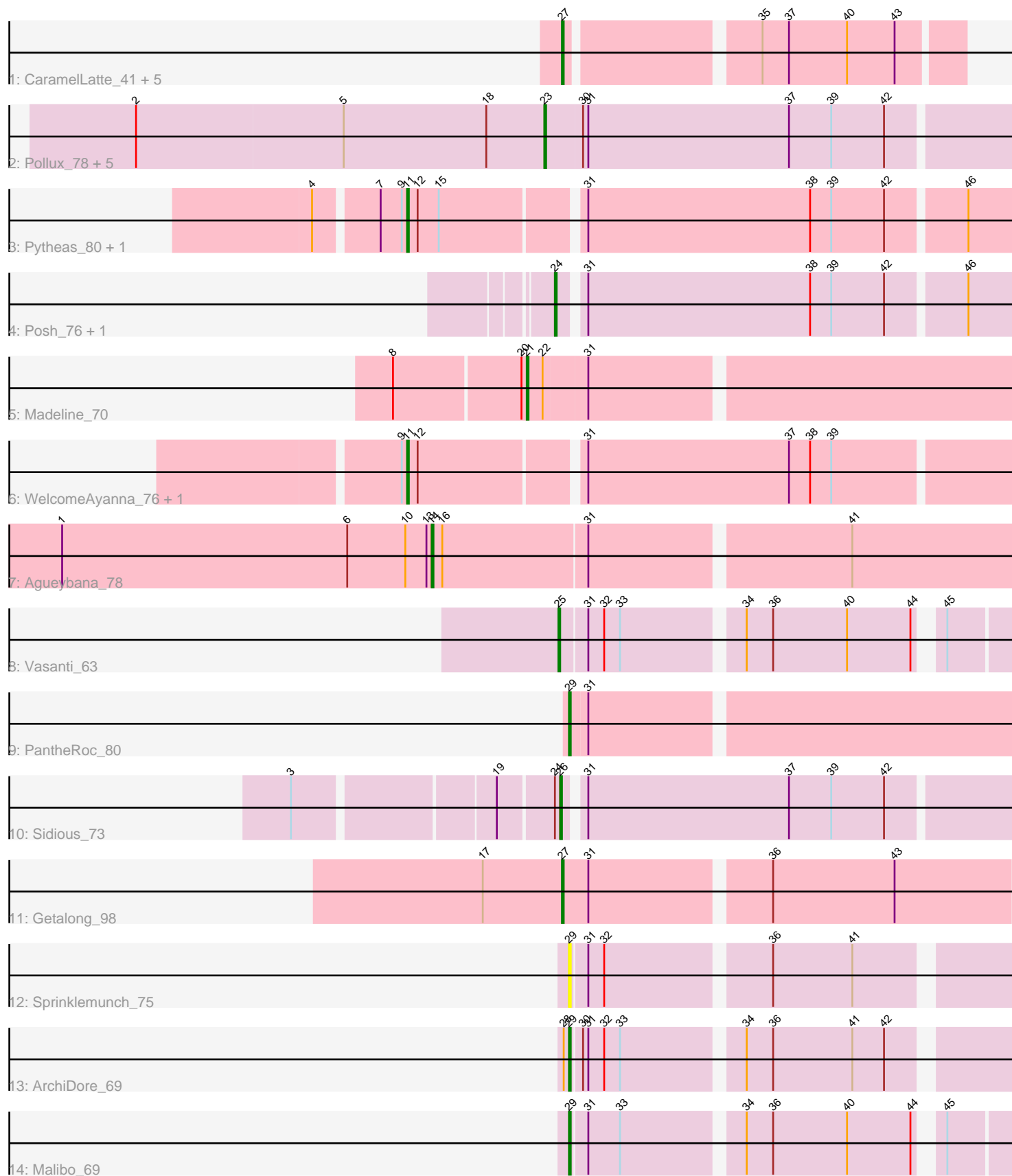# Pham 278499

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 278499 Report

This analysis was run 02/07/26 on database version 634.

Pham number 278499 has 27 members, 4 are drafts.

Phages represented in each track:
• Track 1 : CaramelLatte_41, Tolls_43, Yarn_39, AndPeggy_39, CanesSauce_41, ChocoMunchkin_41
• Track 2 : Pollux_78, Floral_76, EnalisNailo_71, Lilas_72, Marteena_74, EMsquaredA_75
• Track 3 : Pytheas_80, Jablanski_79
• Track 4 : Posh_76, Wrigley_78
• Track 5 : Madeline_70
• Track 6 : WelcomeAyanna_76, ThankyouJordi_76
• Track 7 : Agueybana_78
• Track 8 : Vasanti_63
• Track 9 : PantheRoc_80
• Track 10 : Sidious_73
• Track 11 : Getalong_98
• Track 12 : Sprinklemunch_75
• Track 13 : ArchiDore_69
• Track 14 : 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 23, it was called in 6 of the 23 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, AndPeggy_39, ArchiDore_69, CanesSauce_41, CaramelLatte_41, ChocoMunchkin_41, Getalong_98, Jablanski_79, Madeline_70, Malibo_69, PantheRoc_80, Posh_76, Pytheas_80, Sidious_73, Sprinklemunch_75, ThankyouJordi_76, Tolls_43, Vasanti_63, WelcomeAyanna_76, Wrigley_78, Yarn_39,

Summary by start number:

Start 11:
• Found in 4 of 27 (14.8%) of genes in pham
• Manual Annotations of this start: 4 of 23
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Jablanski_79 (CY3), Pytheas_80 (CY3), ThankyouJordi_76 (CZ1), WelcomeAyanna_76 (CZ1),

Start 14:
• Found in 1 of 27 (3.7%) of genes in pham
• Manual Annotations of this start: 1 of 23
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Agueybana_78 (CZ1),

Start 21:
• Found in 1 of 27 (3.7%) of genes in pham
• Manual Annotations of this start: 1 of 23
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Madeline_70 (CZ1),

Start 23:
• Found in 6 of 27 (22.2%) of genes in pham
• Manual Annotations of this start: 6 of 23
• 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 24:
• Found in 3 of 27 (11.1%) of genes in pham
• Manual Annotations of this start: 2 of 23
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Posh_76 (CY4), Wrigley_78 (CY4),

Start 25:
• Found in 1 of 27 (3.7%) of genes in pham
• Manual Annotations of this start: 1 of 23
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Vasanti_63 (CZ2),

Start 26:
• Found in 1 of 27 (3.7%) of genes in pham
• Manual Annotations of this start: 1 of 23
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Sidious_73 (CZ7),

Start 27:
• Found in 7 of 27 (25.9%) of genes in pham
• Manual Annotations of this start: 4 of 23
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AndPeggy_39 (CT), CanesSauce_41 (CT), CaramelLatte_41 (CT), ChocoMunchkin_41 (CT), Getalong_98 (DN1), Tolls_43

(CT), Yarn_39 (CT),

Start 29:
• Found in 4 of 27 (14.8%) of genes in pham
• Manual Annotations of this start: 3 of 23
• Called 100.0% of time when present
• Phage (with cluster) where this start called: ArchiDore_69 (DW), Malibo_69 (DW), PantheRoc_80 (CZ3), Sprinklemunch_75 (DW),

Summary by clusters:

There are 10 clusters represented in this pham: CY3, CY1, CY4, CZ2, CZ3, CZ1, CZ7, DN1, DW, CT,

Info for manual annotations of cluster CT:
•Start number 27 was manually annotated 3 times for cluster CT.

Info for manual annotations of cluster CY1:
•Start number 23 was manually annotated 6 times for cluster CY1.

Info for manual annotations of cluster CY3:
•Start number 11 was manually annotated 2 times for cluster CY3.

Info for manual annotations of cluster CY4:
•Start number 24 was manually annotated 2 times for cluster CY4.

Info for manual annotations of cluster CZ1:
•Start number 11 was manually annotated 2 times for cluster CZ1.
•Start number 14 was manually annotated 1 time for cluster CZ1.
•Start number 21 was manually annotated 1 time for cluster CZ1.

Info for manual annotations of cluster CZ2:
•Start number 25 was manually annotated 1 time for cluster CZ2.

Info for manual annotations of cluster CZ3:
•Start number 29 was manually annotated 1 time for cluster CZ3.

Info for manual annotations of cluster CZ7:
•Start number 26 was manually annotated 1 time for cluster CZ7.

Info for manual annotations of cluster DN1:
•Start number 27 was manually annotated 1 time for cluster DN1.

Info for manual annotations of cluster DW:
•Start number 29 was manually annotated 2 times for cluster DW.

Gene Information:
Gene: Agueybana_78 Start: 49983, Stop: 50303, Start Num: 14
Candidate Starts for Agueybana_78:

(1, 49773), (6, 49935), (10, 49968), (13, 49980), (Start: 14 @49983 has 1 MA's), (16, 49989), (31, 50070), (41, 50211),

Gene: AndPeggy_39 Start: 29751, Stop: 29542, Start Num: 27
Candidate Starts for AndPeggy_39:
(Start: 27 @29751 has 4 MA's), (35, 29652), (37, 29637), (40, 29604), (43, 29577),

Gene: ArchiDore_69 Start: 47950, Stop: 48180, Start Num: 29
Candidate Starts for ArchiDore_69:
(28, 47947), (Start: 29 @47950 has 3 MA's), (30, 47956), (31, 47959), (32, 47968), (33, 47977), (34, 48040), (36, 48055), (41, 48100), (42, 48118),

Gene: CanesSauce_41 Start: 29924, Stop: 29715, Start Num: 27
Candidate Starts for CanesSauce_41:
(Start: 27 @29924 has 4 MA's), (35, 29825), (37, 29810), (40, 29777), (43, 29750),

Gene: CaramelLatte_41 Start: 29924, Stop: 29715, Start Num: 27
Candidate Starts for CaramelLatte_41:
(Start: 27 @29924 has 4 MA's), (35, 29825), (37, 29810), (40, 29777), (43, 29750),

Gene: ChocoMunchkin_41 Start: 29924, Stop: 29715, Start Num: 27
Candidate Starts for ChocoMunchkin_41:
(Start: 27 @29924 has 4 MA's), (35, 29825), (37, 29810), (40, 29777), (43, 29750),

Gene: EMsquaredA_75 Start: 48515, Stop: 48775, Start Num: 23
Candidate Starts for EMsquaredA_75:
(2, 48284), (5, 48401), (18, 48482), (Start: 23 @48515 has 6 MA's), (30, 48536), (31, 48539), (37, 48653), (39, 48677), (42, 48707),

Gene: EnalisNailo_71 Start: 49007, Stop: 49267, Start Num: 23
Candidate Starts for EnalisNailo_71:
(2, 48776), (5, 48893), (18, 48974), (Start: 23 @49007 has 6 MA's), (30, 49028), (31, 49031), (37, 49145), (39, 49169), (42, 49199),

Gene: Floral_76 Start: 50472, Stop: 50732, Start Num: 23
Candidate Starts for Floral_76:
(2, 50241), (5, 50358), (18, 50439), (Start: 23 @50472 has 6 MA's), (30, 50493), (31, 50496), (37, 50610), (39, 50634), (42, 50664),

Gene: Getalong_98 Start: 53180, Stop: 53425, Start Num: 27
Candidate Starts for Getalong_98:
(17, 53135), (Start: 27 @53180 has 4 MA's), (31, 53195), (36, 53291), (43, 53360),

Gene: Jablanski_79 Start: 51879, Stop: 52208, Start Num: 11
Candidate Starts for Jablanski_79:
(4, 51831), (7, 51864), (9, 51876), (Start: 11 @51879 has 4 MA's), (12, 51885), (15, 51897), (31, 51972), (38, 52098), (39, 52110), (42, 52140), (46, 52182),

Gene: Lilas_72 Start: 50545, Stop: 50805, Start Num: 23
Candidate Starts for Lilas_72:
(2, 50314), (5, 50431), (18, 50512), (Start: 23 @50545 has 6 MA's), (30, 50566), (31, 50569), (37, 50683), (39, 50707), (42, 50737),

Gene: Madeline_70 Start: 49023, Stop: 49289, Start Num: 21
Candidate Starts for Madeline_70:
(8, 48951), (20, 49020), (Start: 21 @49023 has 1 MA's), (22, 49032), (31, 49056),

Gene: Malibo_69 Start: 46043, Stop: 46270, Start Num: 29
Candidate Starts for Malibo_69:
(Start: 29 @46043 has 3 MA's), (31, 46052), (33, 46070), (34, 46133), (36, 46148), (40, 46190), (44, 46226), (45, 46235),

Gene: Marteena_74 Start: 48515, Stop: 48775, Start Num: 23
Candidate Starts for Marteena_74:
(2, 48284), (5, 48401), (18, 48482), (Start: 23 @48515 has 6 MA's), (30, 48536), (31, 48539), (37, 48653), (39, 48677), (42, 48707),

Gene: PantheRoc_80 Start: 50418, Stop: 50660, Start Num: 29
Candidate Starts for PantheRoc_80:
(Start: 29 @50418 has 3 MA's), (31, 50427),

Gene: Pollux_78 Start: 50472, Stop: 50732, Start Num: 23
Candidate Starts for Pollux_78:
(2, 50241), (5, 50358), (18, 50439), (Start: 23 @50472 has 6 MA's), (30, 50493), (31, 50496), (37, 50610), (39, 50634), (42, 50664),

Gene: Posh_76 Start: 50733, Stop: 50981, Start Num: 24
Candidate Starts for Posh_76:
(Start: 24 @50733 has 2 MA's), (31, 50745), (38, 50871), (39, 50883), (42, 50913), (46, 50955),

Gene: Pytheas_80 Start: 51878, Stop: 52207, Start Num: 11
Candidate Starts for Pytheas_80:
(4, 51830), (7, 51863), (9, 51875), (Start: 11 @51878 has 4 MA's), (12, 51884), (15, 51896), (31, 51971), (38, 52097), (39, 52109), (42, 52139), (46, 52181),

Gene: Sidious_73 Start: 49089, Stop: 49334, Start Num: 26
Candidate Starts for Sidious_73:
(3, 48951), (19, 49056), (Start: 24 @49086 has 2 MA's), (Start: 26 @49089 has 1 MA's), (31, 49098), (37, 49212), (39, 49236), (42, 49266),

Gene: Sprinklemunch_75 Start: 48095, Stop: 48325, Start Num: 29
Candidate Starts for Sprinklemunch_75:
(Start: 29 @48095 has 3 MA's), (31, 48104), (32, 48113), (36, 48200), (41, 48245),

Gene: ThankyouJordi_76 Start: 50792, Stop: 51121, Start Num: 11
Candidate Starts for ThankyouJordi_76:
(9, 50789), (Start: 11 @50792 has 4 MA's), (12, 50798), (31, 50885), (37, 50999), (38, 51011), (39, 51023),

Gene: Tolls_43 Start: 29996, Stop: 29787, Start Num: 27
Candidate Starts for Tolls_43:
(Start: 27 @29996 has 4 MA's), (35, 29897), (37, 29882), (40, 29849), (43, 29822),

Gene: Vasanti_63 Start: 42619, Stop: 42852, Start Num: 25
Candidate Starts for Vasanti_63:

(Start: 25 @42619 has 1 MA's), (31, 42634), (32, 42643), (33, 42652), (34, 42715), (36, 42730), (40, 42772), (44, 42808), (45, 42817),

Gene: WelcomeAyanna_76 Start: 50939, Stop: 51268, Start Num: 11
Candidate Starts for WelcomeAyanna_76:
(9, 50936), (Start: 11 @50939 has 4 MA's), (12, 50945), (31, 51032), (37, 51146), (38, 51158), (39, 51170),

Gene: Wrigley_78 Start: 50316, Stop: 50564, Start Num: 24
Candidate Starts for Wrigley_78:
(Start: 24 @50316 has 2 MA's), (31, 50328), (38, 50454), (39, 50466), (42, 50496), (46, 50538),

Gene: Yarn_39 Start: 29756, Stop: 29547, Start Num: 27
Candidate Starts for Yarn_39:
(Start: 27 @29756 has 4 MA's), (35, 29657), (37, 29642), (40, 29609), (43, 29582),