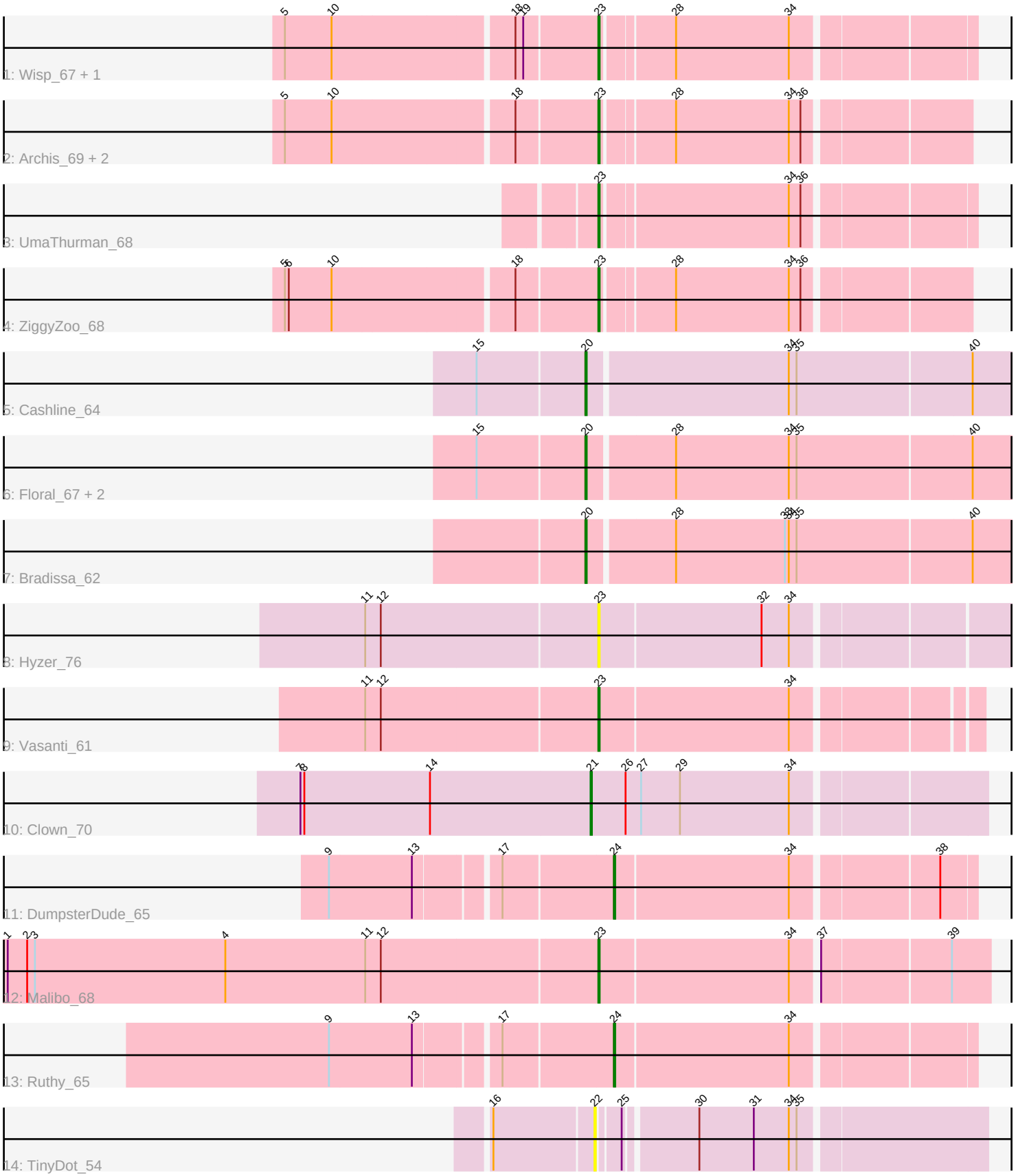
Pham 123146


1: Wisp_67 + 1
2: Archis_69 + 2
3: UmaThurman_68
4: ZiggyZoo_68
5: Cashline_64
6: Floral_67 + 2
7: Bradissa_62
8: Hyzer_76
9: Vasanti_61
10: Clown_70
11: DumpsterDude_65
12: Malibo_68
13: Ruthy_65
14: TinyDot_54

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 123146 Report

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

Pham number 123146 has 19 members, 4 are drafts.

Phages represented in each track:
• Track 1 : Wisp_67, Obliviate_65
• Track 2 : Archis_69, Malachai_67, Begonia_67
• Track 3 : UmaThurman_68
• Track 4 : ZiggyZoo_68
• Track 5 : Cashline_64
• Track 6 : Floral_67, Pollux_69, EdnaMode_59
• Track 7 : Bradissa_62
• Track 8 : Hyzer_76
• Track 9 : Vasanti_61
• Track 10 : Clown_70
• Track 11 : DumpsterDude_65
• Track 12 : Malibo_68
• Track 13 : Ruthy_65
• Track 14 : TinyDot_54

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 8 of the 15 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Archis_69, Begonia_67, Hyzer_76, Malachai_67, Malibo_68, Obliviate_65, UmaThurman_68, Vasanti_61, Wisp_67, ZiggyZoo_68,

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:
• Bradissa_62, Cashline_64, Clown_70, DumpsterDude_65, EdnaMode_59, Floral_67, Pollux_69, Ruthy_65, TinyDot_54,

Summary by start number:

Start 20:

• Found in 5 of 19 (26.3%) of genes in pham
• Manual Annotations of this start: 4 of 15
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bradissa_62 (CY1), Cashline_64 (CY), EdnaMode_59 (CZ2), Floral_67 (CY1), Pollux_69 (CY1),

Start 21:
• Found in 1 of 19 (5.3%) of genes in pham
• Manual Annotations of this start: 1 of 15
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Clown_70 (DC2),

Start 22:
• Found in 1 of 19 (5.3%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: TinyDot_54 (singleton),

Start 23:
• Found in 10 of 19 (52.6%) of genes in pham
• Manual Annotations of this start: 8 of 15
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Archis_69 (CV), Begonia_67 (CV), Hyzer_76 (CZ1), Malachai_67 (CV), Malibo_68 (DW), Obliviate_65 (CV), UmaThurman_68 (CV), Vasanti_61 (CZ2), Wisp_67 (CV), ZiggyZoo_68 (CV),

Start 24:
• Found in 2 of 19 (10.5%) of genes in pham
• Manual Annotations of this start: 2 of 15
• Called 100.0% of time when present
• Phage (with cluster) where this start called: DumpsterDude_65 (DW), Ruthy_65 (DW),

Summary by clusters:

There are 8 clusters represented in this pham: CY1, CZ2, CZ1, singleton, CY, DW, DC2, CV,

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

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

Info for manual annotations of cluster CY1:
•Start number 20 was manually annotated 3 times for cluster CY1.

Info for manual annotations of cluster CZ2:
•Start number 23 was manually annotated 1 time for cluster CZ2.

Info for manual annotations of cluster DC2:
•Start number 21 was manually annotated 1 time for cluster DC2.

Info for manual annotations of cluster DW:
•Start number 23 was manually annotated 1 time for cluster DW.
•Start number 24 was manually annotated 2 times for cluster DW.

Gene Information:

Gene: Archis_69 Start: 41921, Stop: 42187, Start Num: 23
Candidate Starts for Archis_69:
(5, 41693), (10, 41729), (18, 41861), (Start: 23 @41921 has 8 MA's), (28, 41972), (34, 42059), (36, 42068),

Gene: Begonia_67 Start: 45214, Stop: 45483, Start Num: 23
Candidate Starts for Begonia_67:
(5, 44986), (10, 45022), (18, 45154), (Start: 23 @45214 has 8 MA's), (28, 45265), (34, 45352), (36, 45361),

Gene: Bradissa_62 Start: 45039, Stop: 45371, Start Num: 20
Candidate Starts for Bradissa_62:
(Start: 20 @45039 has 4 MA's), (28, 45102), (33, 45186), (34, 45189), (35, 45195), (40, 45327),

Gene: Cashline_64 Start: 45838, Stop: 46170, Start Num: 20
Candidate Starts for Cashline_64:
(15, 45757), (Start: 20 @45838 has 4 MA's), (34, 45988), (35, 45994), (40, 46126),

Gene: Clown_70 Start: 48323, Stop: 48616, Start Num: 21
Candidate Starts for Clown_70:
(7, 48101), (8, 48104), (14, 48200), (Start: 21 @48323 has 1 MA's), (26, 48350), (27, 48362), (29, 48392), (34, 48476),

Gene: DumpsterDude_65 Start: 48344, Stop: 48607, Start Num: 24
Candidate Starts for DumpsterDude_65:
(9, 48143), (13, 48206), (17, 48263), (Start: 24 @48344 has 2 MA's), (34, 48476), (38, 48581),

Gene: EdnaMode_59 Start: 39827, Stop: 40159, Start Num: 20
Candidate Starts for EdnaMode_59:
(15, 39746), (Start: 20 @39827 has 4 MA's), (28, 39890), (34, 39977), (35, 39983), (40, 40115),

Gene: Floral_67 Start: 46996, Stop: 47328, Start Num: 20
Candidate Starts for Floral_67:
(15, 46915), (Start: 20 @46996 has 4 MA's), (28, 47059), (34, 47146), (35, 47152), (40, 47284),

Gene: Hyzer_76 Start: 50995, Stop: 51294, Start Num: 23
Candidate Starts for Hyzer_76:
(11, 50821), (12, 50833), (Start: 23 @50995 has 8 MA's), (32, 51118), (34, 51139),

Gene: Malachai_67 Start: 45214, Stop: 45483, Start Num: 23
Candidate Starts for Malachai_67:
(5, 44986), (10, 45022), (18, 45154), (Start: 23 @45214 has 8 MA's), (28, 45265), (34, 45352), (36, 45361),

Gene: Malibo_68 Start: 45756, Stop: 46043, Start Num: 23
Candidate Starts for Malibo_68:
(1, 45306), (2, 45321), (3, 45327), (4, 45474), (11, 45582), (12, 45594), (Start: 23 @45756 has 8 MA's), (34, 45900), (37, 45918), (39, 46014),

Gene: Obliviate_65 Start: 41567, Stop: 41860, Start Num: 23
Candidate Starts for Obliviate_65:
(5, 41339), (10, 41375), (18, 41507), (19, 41513), (Start: 23 @41567 has 8 MA's), (28, 41618), (34, 41705),

Gene: Pollux_69 Start: 46996, Stop: 47328, Start Num: 20
Candidate Starts for Pollux_69:
(15, 46915), (Start: 20 @46996 has 4 MA's), (28, 47059), (34, 47146), (35, 47152), (40, 47284),

Gene: Ruthy_65 Start: 46522, Stop: 46785, Start Num: 24
Candidate Starts for Ruthy_65:
(9, 46321), (13, 46384), (17, 46441), (Start: 24 @46522 has 2 MA's), (34, 46654),

Gene: TinyDot_54 Start: 34255, Stop: 34533, Start Num: 22
Candidate Starts for TinyDot_54:
(16, 34180), (22, 34255), (25, 34270), (30, 34321), (31, 34363), (34, 34390), (35, 34396),

Gene: UmaThurman_68 Start: 43634, Stop: 43903, Start Num: 23
Candidate Starts for UmaThurman_68:
(Start: 23 @43634 has 8 MA's), (34, 43772), (36, 43781),

Gene: Vasanti_61 Start: 41346, Stop: 41621, Start Num: 23
Candidate Starts for Vasanti_61:
(11, 41172), (12, 41184), (Start: 23 @41346 has 8 MA's), (34, 41490),

Gene: Wisp_67 Start: 43332, Stop: 43601, Start Num: 23
Candidate Starts for Wisp_67:
(5, 43104), (10, 43140), (18, 43272), (19, 43278), (Start: 23 @43332 has 8 MA's), (28, 43383), (34, 43470),

Gene: ZiggyZoo_68 Start: 44385, Stop: 44651, Start Num: 23
Candidate Starts for ZiggyZoo_68:
(5, 44157), (6, 44160), (10, 44193), (18, 44325), (Start: 23 @44385 has 8 MA's), (28, 44436), (34, 44523), (36, 44532),