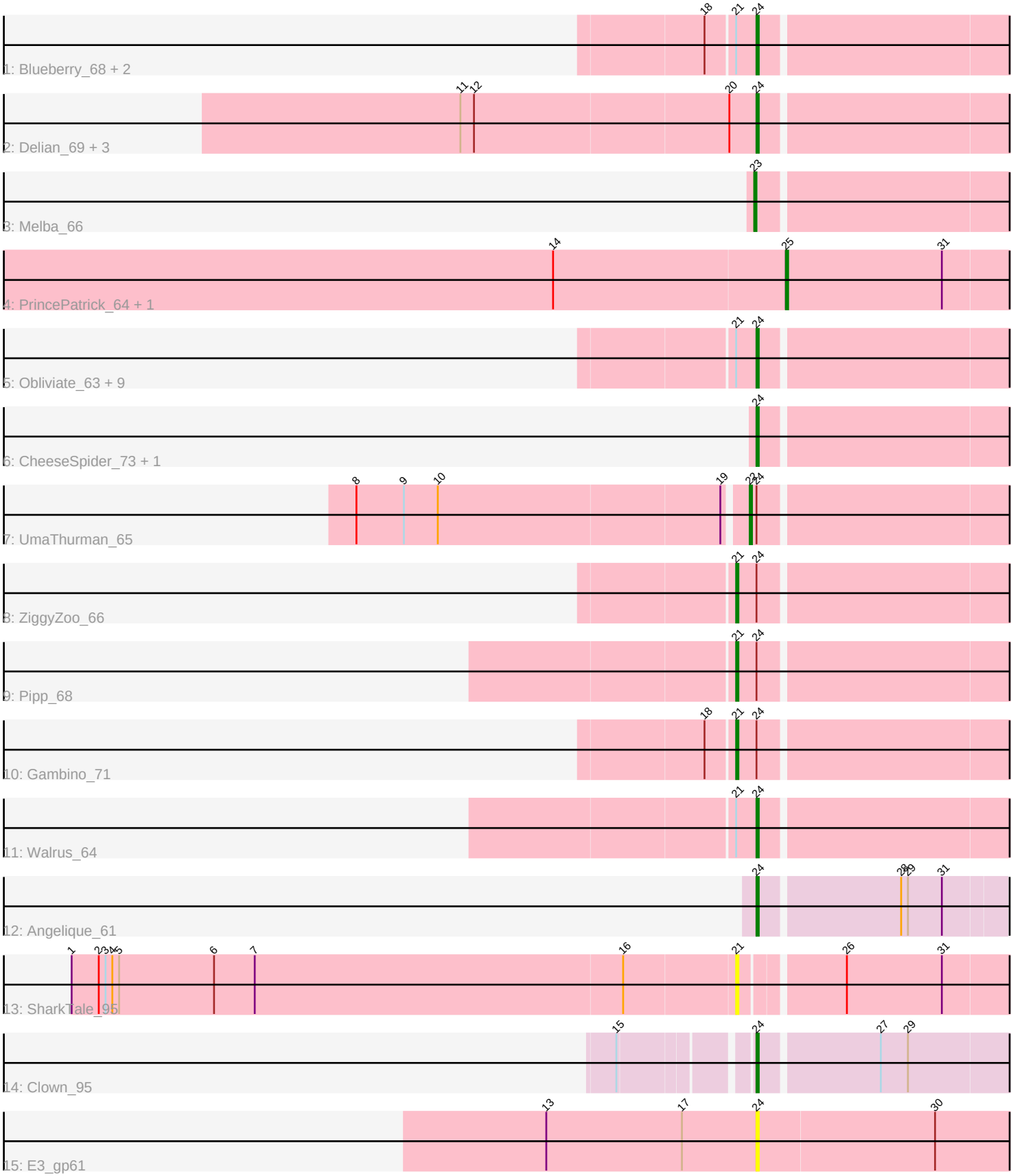
Pham 339905


1: Blueberry_68 + 2
2: Delian_69 + 3
3: Melba_66
4: PrincePatrick_64 + 1
5: Obliviate_63 + 9
6: CheeseSpider_73 + 1
7: UmaThurman_65
8: ZiggyZoo_66
9: Pipp_68
10: Gambino_71
11: Walrus_64
12: Angelique_61
13: SharkTale_95
14: Clown_95
15: E3_gp61

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 339905 Report

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

Pham number 339905 has 31 members, 2 are drafts.

Phages represented in each track:
• Track 1 : Blueberry_68, Azula_69, MissRona_69
• Track 2 : Delian_69, Utz_58, CaptainKirk2_66, MintFen_66
• Track 3 : Melba_66
• Track 4 : PrincePatrick_64, William_67
• Track 5 : Obliviate_63, Fenry_65, Zarbodnamra_66, Samba_66, Guacamole_64, KappaFarmDelta_67, Jalammah_69, JasperJr_64, Wisp_63, Lysidious_68
• Track 6 : CheeseSpider_73, Petra_67
• Track 7 : UmaThurman_65
• Track 8 : ZiggyZoo_66
• Track 9 : Pipp_68
• Track 10 : Gambino_71
• Track 11 : Walrus_64
• Track 12 : Angelique_61
• Track 13 : SharkTale_95
• Track 14 : Clown_95
• Track 15 : E3_gp61

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

The start number called the most often in the published annotations is 24, it was called in 22 of the 29 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Angelique_61, Azula_69, Blueberry_68, CaptainKirk2_66, CheeseSpider_73, Clown_95, Delian_69, E3_gp61, Fenry_65, Guacamole_64, Jalammah_69, JasperJr_64, KappaFarmDelta_67, Lysidious_68, MintFen_66, MissRona_69, Obliviate_63, Petra_67, Samba_66, Utz_58, Walrus_64, Wisp_63, Zarbodnamra_66,

Genes that have the "Most Annotated" start but do not call it:
• Gambino_71, Pipp_68, UmaThurman_65, ZiggyZoo_66,

Genes that do not have the "Most Annotated" start:
• Melba_66, PrincePatrick_64, SharkTale_95, William_67,

Summary by start number:

Start 21:
• Found in 18 of 31 (58.1%) of genes in pham
• Manual Annotations of this start: 3 of 29
• Called 22.2% of time when present
• Phage (with cluster) where this start called: Gambino_71 (CV), Pipp_68 (CV), SharkTale_95 (DC1), ZiggyZoo_66 (CV),

Start 22:
• Found in 1 of 31 (3.2%) of genes in pham
• Manual Annotations of this start: 1 of 29
• Called 100.0% of time when present
• Phage (with cluster) where this start called: UmaThurman_65 (CV),

Start 23:
• Found in 1 of 31 (3.2%) of genes in pham
• Manual Annotations of this start: 1 of 29
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Melba_66 (CV),

Start 24:
• Found in 27 of 31 (87.1%) of genes in pham
• Manual Annotations of this start: 22 of 29
• Called 85.2% of time when present
• Phage (with cluster) where this start called: Angelique_61 (CY1), Azula_69 (CV), Blueberry_68 (CV), CaptainKirk2_66 (CV), CheeseSpider_73 (CV), Clown_95 (DC2), Delian_69 (CV), E3_gp61 (singleton), Fenry_65 (CV), Guacamole_64 (CV), Jalammah_69 (CV), JasperJr_64 (CV), KappaFarmDelta_67 (CV), Lysidious_68 (CV), MintFen_66 (CV), MissRona_69 (CV), Obliviate_63 (CV), Petra_67 (CV), Samba_66 (CV), Utz_58 (CV), Walrus_64 (CV), Wisp_63 (CV), Zarbodnamra_66 (CV),

Start 25:
• Found in 2 of 31 (6.5%) of genes in pham
• Manual Annotations of this start: 2 of 29
• Called 100.0% of time when present
• Phage (with cluster) where this start called: PrincePatrick_64 (CV), William_67 (CV),

Summary by clusters:

There are 5 clusters represented in this pham: singleton, CY1, DC2, CV, DC1,

Info for manual annotations of cluster CV:
•Start number 21 was manually annotated 3 times for cluster CV.
•Start number 22 was manually annotated 1 time for cluster CV.
•Start number 23 was manually annotated 1 time for cluster CV.
•Start number 24 was manually annotated 20 times for cluster CV.
•Start number 25 was manually annotated 2 times for cluster CV.

Info for manual annotations of cluster CY1:
•Start number 24 was manually annotated 1 time for cluster CY1.

Info for manual annotations of cluster DC2:
•Start number 24 was manually annotated 1 time for cluster DC2.

Gene Information:

Gene: Angelique_61 Start: 44665, Stop: 44877, Start Num: 24
Candidate Starts for Angelique_61:
(Start: 24 @44665 has 22 MA's), (28, 44725), (29, 44728), (31, 44743),

Gene: Azula_69 Start: 44892, Stop: 45110, Start Num: 24
Candidate Starts for Azula_69:
(18, 44871), (Start: 21 @44883 has 3 MA's), (Start: 24 @44892 has 22 MA's),

Gene: Blueberry_68 Start: 44892, Stop: 45110, Start Num: 24
Candidate Starts for Blueberry_68:
(18, 44871), (Start: 21 @44883 has 3 MA's), (Start: 24 @44892 has 22 MA's),

Gene: CaptainKirk2_66 Start: 40921, Stop: 41139, Start Num: 24
Candidate Starts for CaptainKirk2_66:
(11, 40792), (12, 40798), (20, 40909), (Start: 24 @40921 has 22 MA's),

Gene: CheeseSpider_73 Start: 43764, Stop: 43982, Start Num: 24
Candidate Starts for CheeseSpider_73:
(Start: 24 @43764 has 22 MA's),

Gene: Clown_95 Start: 58077, Stop: 57859, Start Num: 24
Candidate Starts for Clown_95:
(15, 58128), (Start: 24 @58077 has 22 MA's), (27, 58026), (29, 58014),

Gene: Delian_69 Start: 40919, Stop: 41137, Start Num: 24
Candidate Starts for Delian_69:
(11, 40790), (12, 40796), (20, 40907), (Start: 24 @40919 has 22 MA's),

Gene: E3_gp61 Start: 24313, Stop: 24513, Start Num: 24
Candidate Starts for E3_gp61:
(13, 24220), (17, 24280), (Start: 24 @24313 has 22 MA's), (30, 24391),

Gene: Fenry_65 Start: 43311, Stop: 43529, Start Num: 24
Candidate Starts for Fenry_65:
(Start: 21 @43302 has 3 MA's), (Start: 24 @43311 has 22 MA's),

Gene: Gambino_71 Start: 44883, Stop: 45110, Start Num: 21
Candidate Starts for Gambino_71:
(18, 44871), (Start: 21 @44883 has 3 MA's), (Start: 24 @44892 has 22 MA's),

Gene: Guacamole_64 Start: 42282, Stop: 42500, Start Num: 24
Candidate Starts for Guacamole_64:
(Start: 21 @42273 has 3 MA's), (Start: 24 @42282 has 22 MA's),

Gene: Jalammah_69 Start: 44214, Stop: 44432, Start Num: 24

Candidate Starts for Jalammah_69:
(Start: 21 @44205 has 3 MA's), (Start: 24 @44214 has 22 MA's),

Gene: JasperJr_64 Start: 42282, Stop: 42500, Start Num: 24
Candidate Starts for JasperJr_64:
(Start: 21 @42273 has 3 MA's), (Start: 24 @42282 has 22 MA's),

Gene: KappaFarmDelta_67 Start: 41448, Stop: 41666, Start Num: 24
Candidate Starts for KappaFarmDelta_67:
(Start: 21 @41439 has 3 MA's), (Start: 24 @41448 has 22 MA's),

Gene: Lysidious_68 Start: 43940, Stop: 44158, Start Num: 24
Candidate Starts for Lysidious_68:
(Start: 21 @43931 has 3 MA's), (Start: 24 @43940 has 22 MA's),

Gene: Melba_66 Start: 41430, Stop: 41648, Start Num: 23
Candidate Starts for Melba_66:
(Start: 23 @41430 has 1 MA's),

Gene: MintFen_66 Start: 41535, Stop: 41753, Start Num: 24
Candidate Starts for MintFen_66:
(11, 41406), (12, 41412), (20, 41523), (Start: 24 @41535 has 22 MA's),

Gene: MissRona_69 Start: 44893, Stop: 45111, Start Num: 24
Candidate Starts for MissRona_69:
(18, 44872), (Start: 21 @44884 has 3 MA's), (Start: 24 @44893 has 22 MA's),

Gene: Obliviate_63 Start: 40666, Stop: 40884, Start Num: 24
Candidate Starts for Obliviate_63:
(Start: 21 @40657 has 3 MA's), (Start: 24 @40666 has 22 MA's),

Gene: Petra_67 Start: 42041, Stop: 42259, Start Num: 24
Candidate Starts for Petra_67:
(Start: 24 @42041 has 22 MA's),

Gene: Pipp_68 Start: 42761, Stop: 42988, Start Num: 21
Candidate Starts for Pipp_68:
(Start: 21 @42761 has 3 MA's), (Start: 24 @42770 has 22 MA's),

Gene: PrincePatrick_64 Start: 40877, Stop: 41089, Start Num: 25
Candidate Starts for PrincePatrick_64:
(14, 40775), (Start: 25 @40877 has 2 MA's), (31, 40946),

Gene: Samba_66 Start: 44639, Stop: 44857, Start Num: 24
Candidate Starts for Samba_66:
(Start: 21 @44630 has 3 MA's), (Start: 24 @44639 has 22 MA's),

Gene: SharkTale_95 Start: 59205, Stop: 58981, Start Num: 21
Candidate Starts for SharkTale_95:
(1, 59496), (2, 59484), (3, 59481), (4, 59478), (5, 59475), (6, 59433), (7, 59415), (16, 59253), (Start: 21 @59205 has 3 MA's), (26, 59163), (31, 59121),

Gene: UmaThurman_65 Start: 41987, Stop: 42208, Start Num: 22

Candidate Starts for UmaThurman_65:
(8, 41819), (9, 41840), (10, 41855), (19, 41978), (Start: 22 @41987 has 1 MA's), (Start: 24 @41990 has 22 MA's),

Gene: Utz_58 Start: 41504, Stop: 41722, Start Num: 24
Candidate Starts for Utz_58:
(11, 41375), (12, 41381), (20, 41492), (Start: 24 @41504 has 22 MA's),

Gene: Walrus_64 Start: 41578, Stop: 41796, Start Num: 24
Candidate Starts for Walrus_64:
(Start: 21 @41569 has 3 MA's), (Start: 24 @41578 has 22 MA's),

Gene: William_67 Start: 43224, Stop: 43436, Start Num: 25
Candidate Starts for William_67:
(14, 43122), (Start: 25 @43224 has 2 MA's), (31, 43293),

Gene: Wisp_63 Start: 42431, Stop: 42649, Start Num: 24
Candidate Starts for Wisp_63:
(Start: 21 @42422 has 3 MA's), (Start: 24 @42431 has 22 MA's),

Gene: Zarbodnamra_66 Start: 41825, Stop: 42043, Start Num: 24
Candidate Starts for Zarbodnamra_66:
(Start: 21 @41816 has 3 MA's), (Start: 24 @41825 has 22 MA's),

Gene: ZiggyZoo_66 Start: 43475, Stop: 43702, Start Num: 21
Candidate Starts for ZiggyZoo_66:
(Start: 21 @43475 has 3 MA's), (Start: 24 @43484 has 22 MA's),