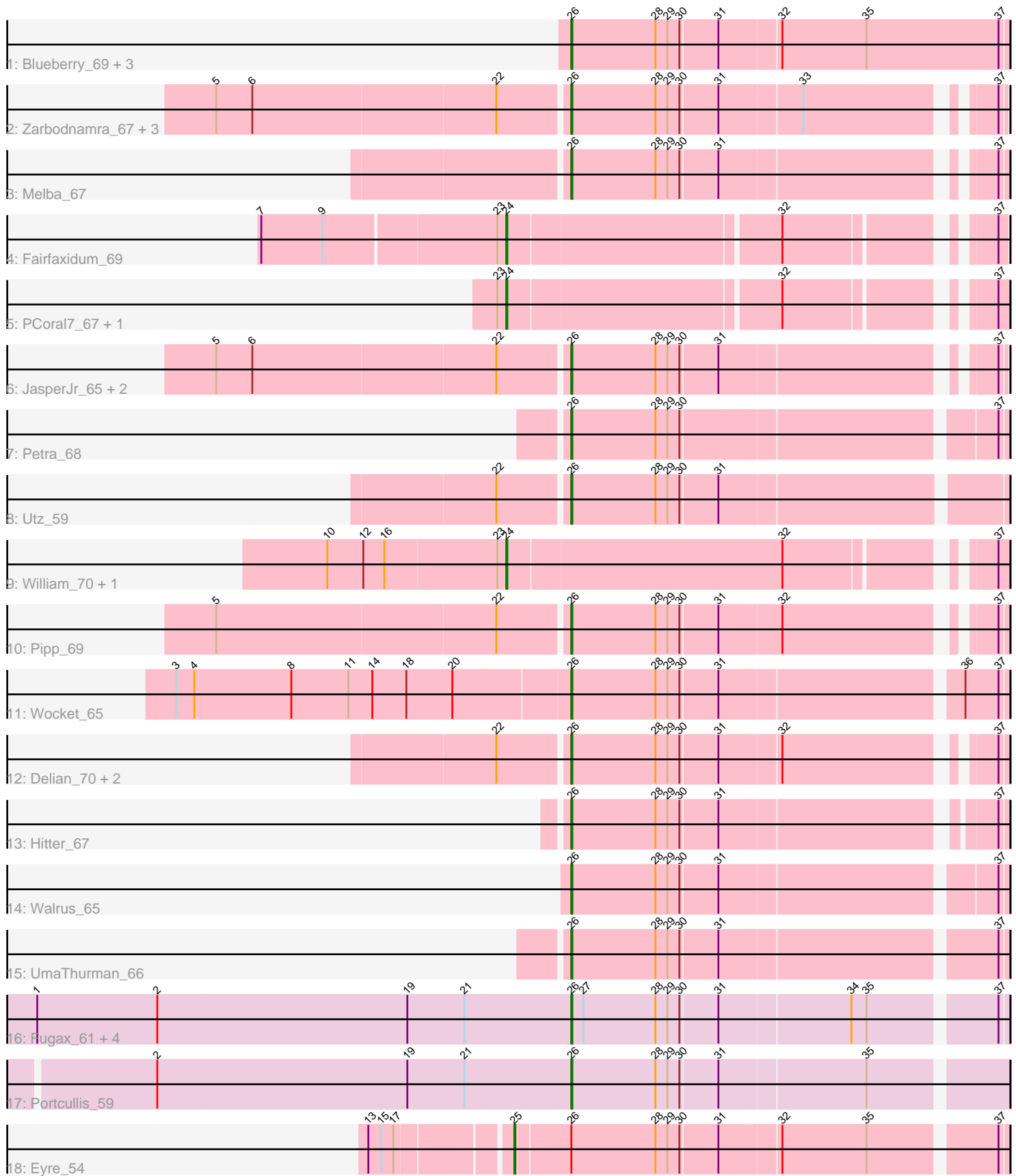


Pham 86085



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 86085 Report

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

Pham number 86085 has 34 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Blueberry_69, Azula_70, MissRona_70, Gambino_72
- Track 2 : Zarbodnamra_67, Fenry_66, Samba_67, Lysidious_69
- Track 3 : Melba_67
- Track 4 : Fairfaxidum_69
- Track 5 : PCoral7_67, Toast_67
- Track 6 : JasperJr_65, Jalammah_70, Guacamole_65
- Track 7 : Petra_68
- Track 8 : Utz_59
- Track 9 : William_70, PrincePatrick_68
- Track 10 : Pipp_69
- Track 11 : Wocket_65
- Track 12 : Delian_70, CaptainKirk2_67, MintFen_67
- Track 13 : Hitter_67
- Track 14 : Walrus_65
- Track 15 : UmaThurman_66
- Track 16 : Fugax_61, Barb_60, KimmyK_59, PinkCoffee_60, ClamChowder_60
- Track 17 : Portcullis_59
- Track 18 : Eyre_54

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

The start number called the most often in the published annotations is 26, it was called in 28 of the 33 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Azula_70, Barb_60, Blueberry_69, CaptainKirk2_67, ClamChowder_60, Delian_70, Fenry_66, Fugax_61, Gambino_72, Guacamole_65, Hitter_67, Jalammah_70, JasperJr_65, KimmyK_59, Lysidious_69, Melba_67, MintFen_67, MissRona_70, Petra_68, PinkCoffee_60, Pipp_69, Portcullis_59, Samba_67, UmaThurman_66, Utz_59, Walrus_65, Wocket_65, Zarbodnamra_67,

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

- Eyre_54,

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

- Fairfaxidum_69, PCoral7_67, PrincePatrick_68, Toast_67, William_70,

Summary by start number:

Start 24:

- Found in 5 of 34 (14.7%) of genes in pham
- Manual Annotations of this start: 4 of 33
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Fairfaxidum_69 (CV), PCoral7_67 (CV), PrincePatrick_68 (CV), Toast_67 (CV), William_70 (CV),

Start 25:

- Found in 1 of 34 (2.9%) of genes in pham
- Manual Annotations of this start: 1 of 33
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Eyre_54 (singleton),

Start 26:

- Found in 29 of 34 (85.3%) of genes in pham
- Manual Annotations of this start: 28 of 33
- Called 96.6% of time when present
- Phage (with cluster) where this start called: Azula_70 (CV), Barb_60 (DC1), Blueberry_69 (CV), CaptainKirk2_67 (CV), ClamChowder_60 (DC1), Delian_70 (CV), Ferry_66 (CV), Fugax_61 (DC1), Gambino_72 (CV), Guacamole_65 (CV), Hitter_67 (CV), Jalammah_70 (CV), JasperJr_65 (CV), KimmyK_59 (DC1), Lysidious_69 (CV), Melba_67 (CV), MintFen_67 (CV), MissRona_70 (CV), Petra_68 (CV), PinkCoffee_60 (DC1), Pipp_69 (CV), Portcullis_59 (DC1), Samba_67 (CV), UmaThurman_66 (CV), Utz_59 (CV), Walrus_65 (CV), Wocket_65 (CV), Zarbodnamra_67 (CV),

Summary by clusters:

There are 3 clusters represented in this pham: singleton, CV, DC1,

Info for manual annotations of cluster CV:

- Start number 24 was manually annotated 4 times for cluster CV.
- Start number 26 was manually annotated 22 times for cluster CV.

Info for manual annotations of cluster DC1:

- Start number 26 was manually annotated 6 times for cluster DC1.

Gene Information:

Gene: Azula_70 Start: 45107, Stop: 45532, Start Num: 26

Candidate Starts for Azula_70:

(Start: 26 @45107 has 28 MA's), (28, 45191), (29, 45203), (30, 45215), (31, 45251), (32, 45308), (35, 45392), (37, 45524),

Gene: Barb_60 Start: 43858, Stop: 44268, Start Num: 26

Candidate Starts for Barb_60:

(1, 43330), (2, 43450), (19, 43699), (21, 43756), (Start: 26 @43858 has 28 MA's), (27, 43870), (28, 43942), (29, 43954), (30, 43966), (31, 44002), (34, 44128), (35, 44143), (37, 44260),

Gene: Blueberry_69 Start: 45107, Stop: 45532, Start Num: 26

Candidate Starts for Blueberry_69:

(Start: 26 @45107 has 28 MA's), (28, 45191), (29, 45203), (30, 45215), (31, 45251), (32, 45308), (35, 45392), (37, 45524),

Gene: CaptainKirk2_67 Start: 41136, Stop: 41528, Start Num: 26

Candidate Starts for CaptainKirk2_67:

(22, 41070), (Start: 26 @41136 has 28 MA's), (28, 41220), (29, 41232), (30, 41244), (31, 41280), (32, 41337), (37, 41520),

Gene: ClamChowder_60 Start: 43858, Stop: 44268, Start Num: 26

Candidate Starts for ClamChowder_60:

(1, 43330), (2, 43450), (19, 43699), (21, 43756), (Start: 26 @43858 has 28 MA's), (27, 43870), (28, 43942), (29, 43954), (30, 43966), (31, 44002), (34, 44128), (35, 44143), (37, 44260),

Gene: Delian_70 Start: 41134, Stop: 41526, Start Num: 26

Candidate Starts for Delian_70:

(22, 41068), (Start: 26 @41134 has 28 MA's), (28, 41218), (29, 41230), (30, 41242), (31, 41278), (32, 41335), (37, 41518),

Gene: Eyre_54 Start: 36057, Stop: 36518, Start Num: 25

Candidate Starts for Eyre_54:

(13, 35931), (15, 35943), (17, 35955), (Start: 25 @36057 has 1 MA's), (Start: 26 @36108 has 28 MA's), (28, 36192), (29, 36204), (30, 36216), (31, 36252), (32, 36309), (35, 36393), (37, 36510),

Gene: Fairfaxidum_69 Start: 43672, Stop: 44115, Start Num: 24

Candidate Starts for Fairfaxidum_69:

(7, 43435), (9, 43495), (23, 43663), (Start: 24 @43672 has 4 MA's), (32, 43933), (37, 44107),

Gene: Fenry_66 Start: 43526, Stop: 43915, Start Num: 26

Candidate Starts for Fenry_66:

(5, 43184), (6, 43220), (22, 43460), (Start: 26 @43526 has 28 MA's), (28, 43610), (29, 43622), (30, 43634), (31, 43670), (33, 43748), (37, 43910),

Gene: Fugax_61 Start: 43850, Stop: 44260, Start Num: 26

Candidate Starts for Fugax_61:

(1, 43322), (2, 43442), (19, 43691), (21, 43748), (Start: 26 @43850 has 28 MA's), (27, 43862), (28, 43934), (29, 43946), (30, 43958), (31, 43994), (34, 44120), (35, 44135), (37, 44252),

Gene: Gambino_72 Start: 45107, Stop: 45532, Start Num: 26

Candidate Starts for Gambino_72:

(Start: 26 @45107 has 28 MA's), (28, 45191), (29, 45203), (30, 45215), (31, 45251), (32, 45308), (35, 45392), (37, 45524),

Gene: Guacamole_65 Start: 42497, Stop: 42886, Start Num: 26

Candidate Starts for Guacamole_65:

(5, 42155), (6, 42191), (22, 42431), (Start: 26 @42497 has 28 MA's), (28, 42581), (29, 42593), (30, 42605), (31, 42641), (37, 42881),

Gene: Hitter_67 Start: 41453, Stop: 41851, Start Num: 26

Candidate Starts for Hitter_67:

(Start: 26 @41453 has 28 MA's), (28, 41537), (29, 41549), (30, 41561), (31, 41597), (37, 41843),

Gene: Jalammah_70 Start: 44429, Stop: 44821, Start Num: 26

Candidate Starts for Jalammah_70:

(5, 44087), (6, 44123), (22, 44363), (Start: 26 @44429 has 28 MA's), (28, 44513), (29, 44525), (30, 44537), (31, 44573), (37, 44813),

Gene: JasperJr_65 Start: 42497, Stop: 42886, Start Num: 26

Candidate Starts for JasperJr_65:

(5, 42155), (6, 42191), (22, 42431), (Start: 26 @42497 has 28 MA's), (28, 42581), (29, 42593), (30, 42605), (31, 42641), (37, 42881),

Gene: KimmyK_59 Start: 44292, Stop: 44702, Start Num: 26

Candidate Starts for KimmyK_59:

(1, 43764), (2, 43884), (19, 44133), (21, 44190), (Start: 26 @44292 has 28 MA's), (27, 44304), (28, 44376), (29, 44388), (30, 44400), (31, 44436), (34, 44562), (35, 44577), (37, 44694),

Gene: Lysidious_69 Start: 44155, Stop: 44544, Start Num: 26

Candidate Starts for Lysidious_69:

(5, 43813), (6, 43849), (22, 44089), (Start: 26 @44155 has 28 MA's), (28, 44239), (29, 44251), (30, 44263), (31, 44299), (33, 44377), (37, 44539),

Gene: Melba_67 Start: 41645, Stop: 42037, Start Num: 26

Candidate Starts for Melba_67:

(Start: 26 @41645 has 28 MA's), (28, 41729), (29, 41741), (30, 41753), (31, 41789), (37, 42029),

Gene: MintFen_67 Start: 41750, Stop: 42142, Start Num: 26

Candidate Starts for MintFen_67:

(22, 41684), (Start: 26 @41750 has 28 MA's), (28, 41834), (29, 41846), (30, 41858), (31, 41894), (32, 41951), (37, 42134),

Gene: MissRona_70 Start: 45108, Stop: 45533, Start Num: 26

Candidate Starts for MissRona_70:

(Start: 26 @45108 has 28 MA's), (28, 45192), (29, 45204), (30, 45216), (31, 45252), (32, 45309), (35, 45393), (37, 45525),

Gene: PCoral7_67 Start: 42813, Stop: 43259, Start Num: 24

Candidate Starts for PCoral7_67:

(23, 42804), (Start: 24 @42813 has 4 MA's), (32, 43074), (37, 43248),

Gene: Petra_68 Start: 42256, Stop: 42663, Start Num: 26

Candidate Starts for Petra_68:

(Start: 26 @42256 has 28 MA's), (28, 42340), (29, 42352), (30, 42364), (37, 42655),

Gene: PinkCoffee_60 Start: 43867, Stop: 44277, Start Num: 26

Candidate Starts for PinkCoffee_60:

(1, 43339), (2, 43459), (19, 43708), (21, 43765), (Start: 26 @43867 has 28 MA's), (27, 43879), (28, 43951), (29, 43963), (30, 43975), (31, 44011), (34, 44137), (35, 44152), (37, 44269),

Gene: Pipp_69 Start: 42985, Stop: 43380, Start Num: 26

Candidate Starts for Pipp_69:

(5, 42643), (22, 42919), (Start: 26 @42985 has 28 MA's), (28, 43069), (29, 43081), (30, 43093), (31, 43129), (32, 43189), (37, 43372),

Gene: Portcullis_59 Start: 43483, Stop: 43896, Start Num: 26

Candidate Starts for Portcullis_59:

(2, 43075), (19, 43324), (21, 43381), (Start: 26 @43483 has 28 MA's), (28, 43567), (29, 43579), (30, 43591), (31, 43627), (35, 43768),

Gene: PrincePatrick_68 Start: 41863, Stop: 42318, Start Num: 24

Candidate Starts for PrincePatrick_68:

(10, 41686), (12, 41722), (16, 41743), (23, 41854), (Start: 24 @41863 has 4 MA's), (32, 42133), (37, 42307),

Gene: Samba_67 Start: 44854, Stop: 45243, Start Num: 26

Candidate Starts for Samba_67:

(5, 44512), (6, 44548), (22, 44788), (Start: 26 @44854 has 28 MA's), (28, 44938), (29, 44950), (30, 44962), (31, 44998), (33, 45076), (37, 45238),

Gene: Toast_67 Start: 42813, Stop: 43259, Start Num: 24

Candidate Starts for Toast_67:

(23, 42804), (Start: 24 @42813 has 4 MA's), (32, 43074), (37, 43248),

Gene: UmaThurman_66 Start: 42205, Stop: 42615, Start Num: 26

Candidate Starts for UmaThurman_66:

(Start: 26 @42205 has 28 MA's), (28, 42289), (29, 42301), (30, 42313), (31, 42349), (37, 42607),

Gene: Utz_59 Start: 41719, Stop: 42129, Start Num: 26

Candidate Starts for Utz_59:

(22, 41653), (Start: 26 @41719 has 28 MA's), (28, 41803), (29, 41815), (30, 41827), (31, 41863),

Gene: Walrus_65 Start: 41793, Stop: 42200, Start Num: 26

Candidate Starts for Walrus_65:

(Start: 26 @41793 has 28 MA's), (28, 41877), (29, 41889), (30, 41901), (31, 41937), (37, 42192),

Gene: William_70 Start: 44211, Stop: 44666, Start Num: 24

Candidate Starts for William_70:

(10, 44034), (12, 44070), (16, 44091), (23, 44202), (Start: 24 @44211 has 4 MA's), (32, 44481), (37, 44655),

Gene: Wocket_65 Start: 41668, Stop: 42078, Start Num: 26

Candidate Starts for Wocket_65:

(3, 41284), (4, 41302), (8, 41398), (11, 41455), (14, 41479), (18, 41512), (20, 41557), (Start: 26 @41668 has 28 MA's), (28, 41752), (29, 41764), (30, 41776), (31, 41812), (36, 42037), (37, 42070),

Gene: Zarbodnamra_67 Start: 42040, Stop: 42429, Start Num: 26

Candidate Starts for Zarbodnamra_67:

(5, 41698), (6, 41734), (22, 41974), (Start: 26 @42040 has 28 MA's), (28, 42124), (29, 42136), (30, 42148), (31, 42184), (33, 42262), (37, 42424),