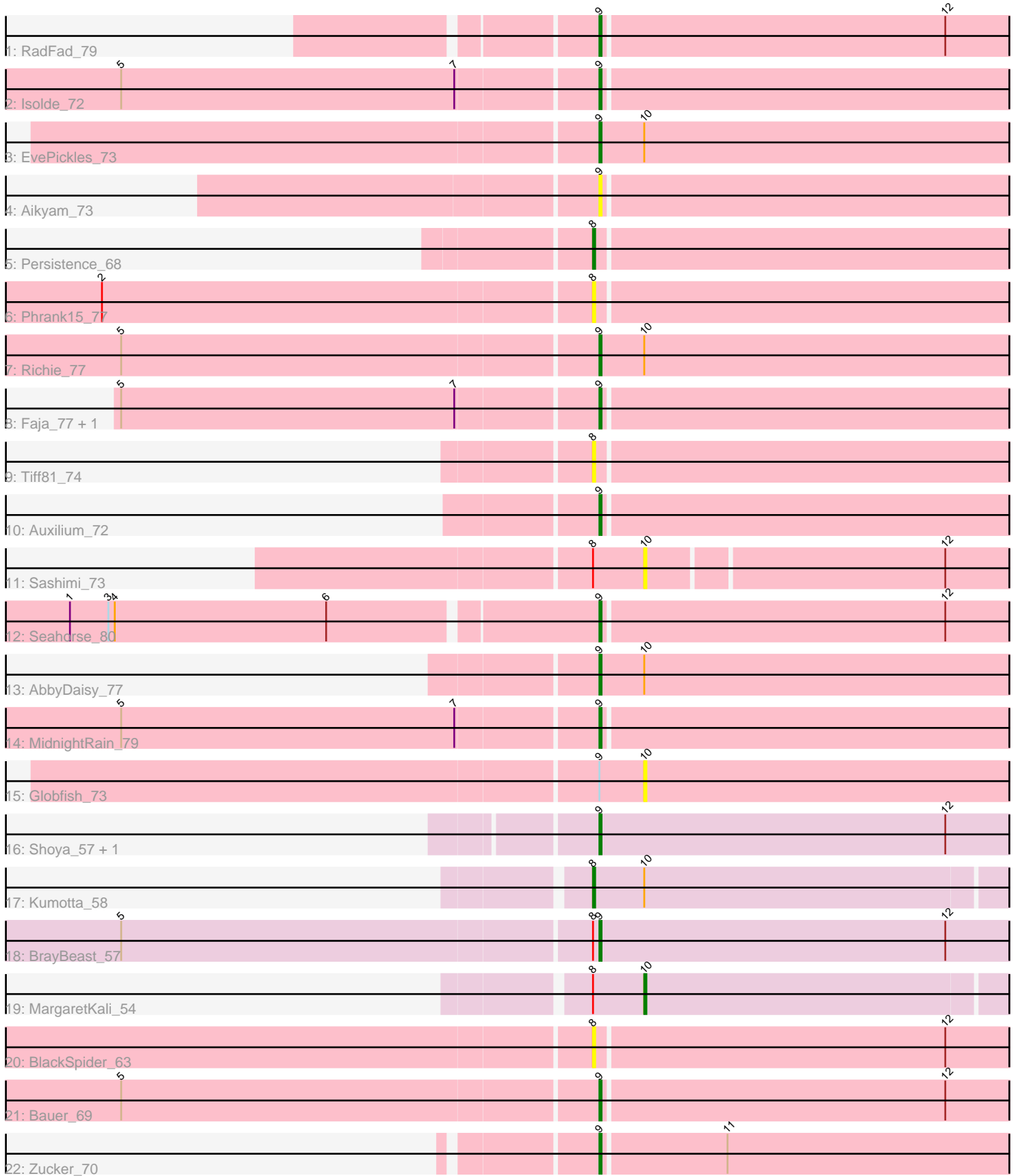


Pham 140014



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 140014 Report

This analysis was run 04/05/24 on database version 557.

Pham number 140014 has 24 members, 6 are drafts.

Phages represented in each track:

- Track 1 : RadFad_79
- Track 2 : Isolde_72
- Track 3 : EvePickles_73
- Track 4 : Aikyam_73
- Track 5 : Persistence_68
- Track 6 : Phrank15_77
- Track 7 : Richie_77
- Track 8 : Faja_77, Hestia_68
- Track 9 : Tiff81_74
- Track 10 : Auxilium_72
- Track 11 : Sashimi_73
- Track 12 : Seahorse_80
- Track 13 : AbbyDaisy_77
- Track 14 : MidnightRain_79
- Track 15 : Globfish_73
- Track 16 : Shoya_57, Sarge_52
- Track 17 : Kumotta_58
- Track 18 : BrayBeast_57
- Track 19 : MargaretKali_54
- Track 20 : BlackSpider_63
- Track 21 : Bauer_69
- Track 22 : Zucker_70

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

The start number called the most often in the published annotations is 9, it was called in 15 of the 18 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

• AbbyDaisy_77, Aikyam_73, Auxilium_72, Bauer_69, BrayBeast_57, EvePickles_73, Faja_77, Hestia_68, Isolde_72, MidnightRain_79, RadFad_79, Richie_77, Sarge_52, Seahorse_80, Shoya_57, Zucker_70,

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

- Globfish_73,

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

- BlackSpider_63, Kumotta_58, MargaretKali_54, Persistence_68, Phrank15_77, Sashimi_73, Tiff81_74,

Summary by start number:

Start 8:

- Found in 8 of 24 (33.3%) of genes in pham
- Manual Annotations of this start: 2 of 18
- Called 62.5% of time when present
- Phage (with cluster) where this start called: BlackSpider_63 (FN), Kumotta_58 (FB), Persistence_68 (AY), Phrank15_77 (AY), Tiff81_74 (AY),

Start 9:

- Found in 17 of 24 (70.8%) of genes in pham
- Manual Annotations of this start: 15 of 18
- Called 94.1% of time when present
- Phage (with cluster) where this start called: AbbyDaisy_77 (AY), Aikyam_73 (AY), Auxilium_72 (AY), Bauer_69 (FN), BrayBeast_57 (FB), EvePickles_73 (AY), Faja_77 (AY), Hestia_68 (AY), Isolde_72 (AY), MidnightRain_79 (AY), RadFad_79 (AY), Richie_77 (AY), Sarge_52 (FB), Seahorse_80 (AY), Shoya_57 (FB), Zucker_70 (FN),

Start 10:

- Found in 7 of 24 (29.2%) of genes in pham
- Manual Annotations of this start: 1 of 18
- Called 42.9% of time when present
- Phage (with cluster) where this start called: Globfish_73 (AY), MargaretKali_54 (FB), Sashimi_73 (AY),

Summary by clusters:

There are 3 clusters represented in this pham: AY, FB, FN,

Info for manual annotations of cluster AY:

- Start number 8 was manually annotated 1 time for cluster AY.
- Start number 9 was manually annotated 10 times for cluster AY.

Info for manual annotations of cluster FB:

- Start number 8 was manually annotated 1 time for cluster FB.
- Start number 9 was manually annotated 3 times for cluster FB.
- Start number 10 was manually annotated 1 time for cluster FB.

Info for manual annotations of cluster FN:

- Start number 9 was manually annotated 2 times for cluster FN.

Gene Information:

Gene: AbbyDaisy_77 Start: 41339, Stop: 41572, Start Num: 9

Candidate Starts for AbbyDaisy_77:

(Start: 9 @41339 has 15 MA's), (Start: 10 @41360 has 1 MA's),

Gene: Aikyam_73 Start: 37758, Stop: 37988, Start Num: 9

Candidate Starts for Aikyam_73:

(Start: 9 @37758 has 15 MA's),

Gene: Auxilium_72 Start: 37301, Stop: 37531, Start Num: 9

Candidate Starts for Auxilium_72:

(Start: 9 @37301 has 15 MA's),

Gene: Bauer_69 Start: 38444, Stop: 38671, Start Num: 9

Candidate Starts for Bauer_69:

(5, 38225), (Start: 9 @38444 has 15 MA's), (12, 38603),

Gene: BlackSpider_63 Start: 36439, Stop: 36672, Start Num: 8

Candidate Starts for BlackSpider_63:

(Start: 8 @36439 has 2 MA's), (12, 36601),

Gene: BrayBeast_57 Start: 32181, Stop: 32381, Start Num: 9

Candidate Starts for BrayBeast_57:

(5, 31962), (Start: 8 @32178 has 2 MA's), (Start: 9 @32181 has 15 MA's), (12, 32343),

Gene: EvePickles_73 Start: 40201, Stop: 40434, Start Num: 9

Candidate Starts for EvePickles_73:

(Start: 9 @40201 has 15 MA's), (Start: 10 @40222 has 1 MA's),

Gene: Faja_77 Start: 40979, Stop: 41209, Start Num: 9

Candidate Starts for Faja_77:

(5, 40760), (7, 40916), (Start: 9 @40979 has 15 MA's),

Gene: Globfish_73 Start: 38686, Stop: 38898, Start Num: 10

Candidate Starts for Globfish_73:

(Start: 9 @38665 has 15 MA's), (Start: 10 @38686 has 1 MA's),

Gene: Hestia_68 Start: 37202, Stop: 37432, Start Num: 9

Candidate Starts for Hestia_68:

(5, 36983), (7, 37139), (Start: 9 @37202 has 15 MA's),

Gene: Isolde_72 Start: 39048, Stop: 39278, Start Num: 9

Candidate Starts for Isolde_72:

(5, 38829), (7, 38985), (Start: 9 @39048 has 15 MA's),

Gene: Kumotta_58 Start: 33336, Stop: 33533, Start Num: 8

Candidate Starts for Kumotta_58:

(Start: 8 @33336 has 2 MA's), (Start: 10 @33360 has 1 MA's),

Gene: MargaretKali_54 Start: 31978, Stop: 32151, Start Num: 10

Candidate Starts for MargaretKali_54:

(Start: 8 @31954 has 2 MA's), (Start: 10 @31978 has 1 MA's),

Gene: MidnightRain_79 Start: 40518, Stop: 40748, Start Num: 9

Candidate Starts for MidnightRain_79:

(5, 40299), (7, 40455), (Start: 9 @40518 has 15 MA's),

Gene: Persistence_68 Start: 37585, Stop: 37818, Start Num: 8
Candidate Starts for Persistence_68:
(Start: 8 @37585 has 2 MA's),

Gene: Phrank15_77 Start: 39010, Stop: 39243, Start Num: 8
Candidate Starts for Phrank15_77:
(2, 38785), (Start: 8 @39010 has 2 MA's),

Gene: RadFad_79 Start: 40220, Stop: 40450, Start Num: 9
Candidate Starts for RadFad_79:
(Start: 9 @40220 has 15 MA's), (12, 40379),

Gene: Richie_77 Start: 40859, Stop: 41092, Start Num: 9
Candidate Starts for Richie_77:
(5, 40640), (Start: 9 @40859 has 15 MA's), (Start: 10 @40880 has 1 MA's),

Gene: Sarge_52 Start: 30498, Stop: 30698, Start Num: 9
Candidate Starts for Sarge_52:
(Start: 9 @30498 has 15 MA's), (12, 30660),

Gene: Sashimi_73 Start: 39005, Stop: 39211, Start Num: 10
Candidate Starts for Sashimi_73:
(Start: 8 @38981 has 2 MA's), (Start: 10 @39005 has 1 MA's), (12, 39140),

Gene: Seahorse_80 Start: 42515, Stop: 42742, Start Num: 9
Candidate Starts for Seahorse_80:
(1, 42275), (3, 42293), (4, 42296), (6, 42395), (Start: 9 @42515 has 15 MA's), (12, 42674),

Gene: Shoya_57 Start: 32112, Stop: 32312, Start Num: 9
Candidate Starts for Shoya_57:
(Start: 9 @32112 has 15 MA's), (12, 32274),

Gene: Tiff81_74 Start: 37579, Stop: 37809, Start Num: 8
Candidate Starts for Tiff81_74:
(Start: 8 @37579 has 2 MA's),

Gene: Zucker_70 Start: 40676, Stop: 40906, Start Num: 9
Candidate Starts for Zucker_70:
(Start: 9 @40676 has 15 MA's), (11, 40733),