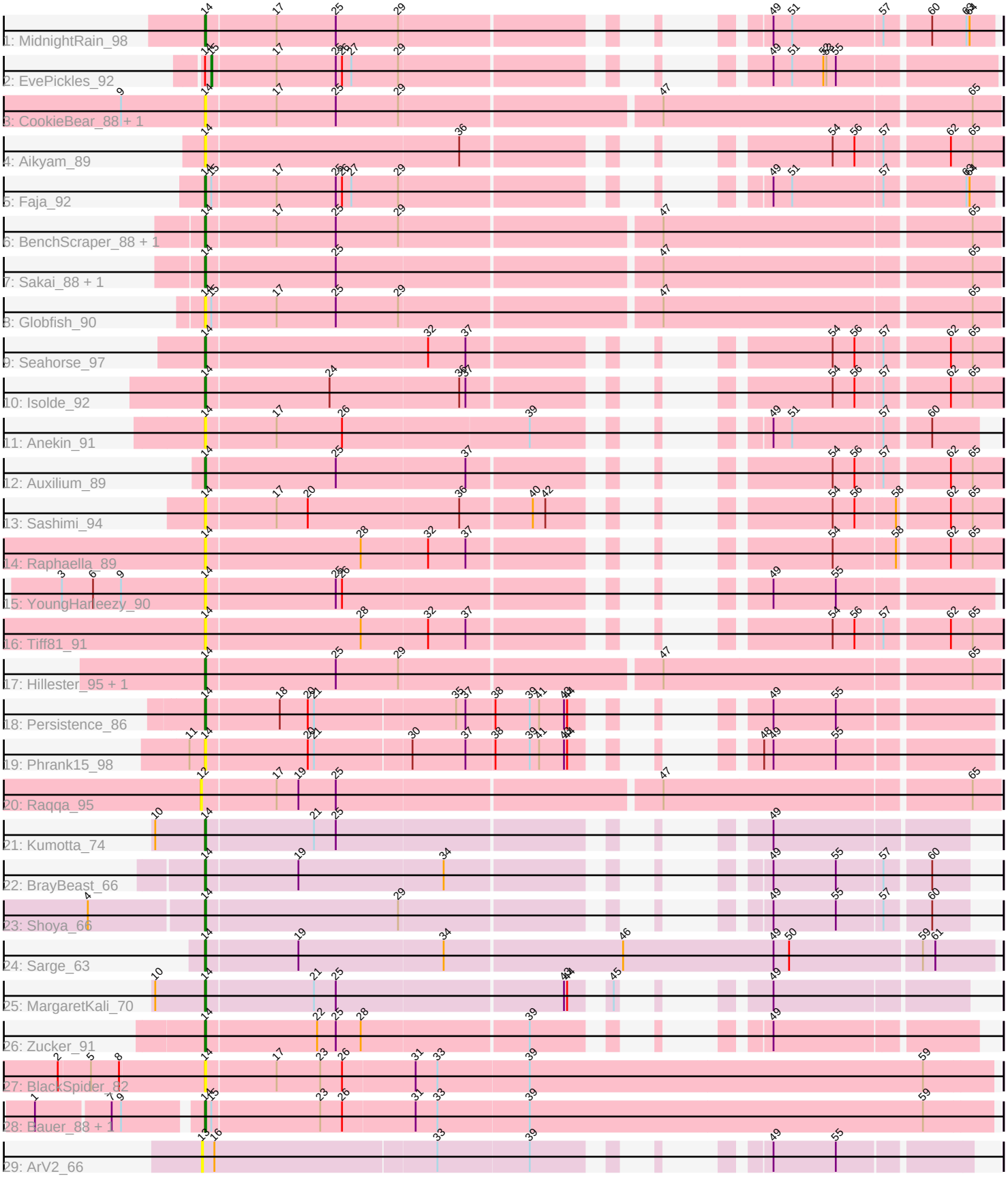
Pham 154884


1: MidnightRain_98
2: EvePickles_92
3: CookieBear_88 + 1
4: Aikyam_89
5: Faja_92
6: BenchScraper_88 + 1
7: Sakai_88 + 1
8: Globfish_90
9: Seahorse_97
10: Isolde_92
11: Anekin_91
12: Auxilium_89
13: Sashimi_94
14: Raphaella_89
15: YoungHarleezy_90
16: Tiff81_91
17: Hillester_95 + 1
18: Persistence_86
19: Phrank15_98
20: Raqqa_95
21: Kumotta_74
22: BrayBeast_66
23: Shoya_66
24: Sarge_63
25: MargaretKali_70
26: Zucker_91
27: BlackSpider_82
28: Bauer_88 + 1
29: ArV2_66

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 154884 Report

This analysis was run 04/12/24 on database version 558.

Pham number 154884 has 34 members, 15 are drafts.

Phages represented in each track:
- Track 1 : MidnightRain_98
- Track 2 : EvePickles_92
- Track 3 : CookieBear_88, BillyTP_90
- Track 4 : Aikyam_89
- Track 5 : Faja_92
- Track 6 : BenchScraper_88, Richie_94
- Track 7 : Sakai_88, Gorpy_89
- Track 8 : Globfish_90
- Track 9 : Seahorse_97
- Track 10 : Isolde_92
- Track 11 : Anekin_91
- Track 12 : Auxilium_89
- Track 13 : Sashimi_94
- Track 14 : Raphaella_89
- Track 15 : YoungHarleezy_90
- Track 16 : Tiff81_91
- Track 17 : Hillester_95, RadFad_96
- Track 18 : Persistence_86
- Track 19 : Phrank15_98
- Track 20 : Raqqa_95
- Track 21 : Kumotta_74
- Track 22 : BrayBeast_66
- Track 23 : Shoya_66
- Track 24 : Sarge_63
- Track 25 : MargaretKali_70
- Track 26 : Zucker_91
- Track 27 : BlackSpider_82
- Track 28 : Bauer_88, Hestia_85
- Track 29 : ArV2_66

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

The start number called the most often in the published annotations is 14, it was called in 18 of the 19 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Aikyam_89, Anekin_91, Auxilium_89, Bauer_88, BenchScraper_88, BillyTP_90, BlackSpider_82, BrayBeast_66, CookieBear_88, Faja_92, Globfish_90, Gorpy_89, Hestia_85, Hillester_95, Isolde_92, Kumotta_74, MargaretKali_70, MidnightRain_98, Persistence_86, Phrank15_98, RadFad_96, Raphaella_89, Richie_94, Sakai_88, Sarge_63, Sashimi_94, Seahorse_97, Shoya_66, Tiff81_91, YoungHarleezy_90, Zucker_91,

Genes that have the "Most Annotated" start but do not call it:
• EvePickles_92,

Genes that do not have the "Most Annotated" start:
• ArV2_66, Raqqa_95,

Summary by start number:

Start 12:
• Found in 1 of 34 (2.9%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Raqqa_95 (AY),

Start 13:
• Found in 1 of 34 (2.9%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: ArV2_66 (singleton),

Start 14:
• Found in 32 of 34 (94.1%) of genes in pham
• Manual Annotations of this start: 18 of 19
• Called 96.9% of time when present
• Phage (with cluster) where this start called: Aikyam_89 (AY), Anekin_91 (AY), Auxilium_89 (AY), Bauer_88 (FN), BenchScraper_88 (AY), BillyTP_90 (AY), BlackSpider_82 (FN), BrayBeast_66 (FB), CookieBear_88 (AY), Faja_92 (AY), Globfish_90 (AY), Gorpy_89 (AY), Hestia_85 (AY), Hillester_95 (AY), Isolde_92 (AY), Kumotta_74 (FB), MargaretKali_70 (FB), MidnightRain_98 (AY), Persistence_86 (AY), Phrank15_98 (AY), RadFad_96 (AY), Raphaella_89 (AY), Richie_94 (AY), Sakai_88 (AY), Sarge_63 (FB), Sashimi_94 (AY), Seahorse_97 (AY), Shoya_66 (FB), Tiff81_91 (AY), YoungHarleezy_90 (AY), Zucker_91 (FN),

Start 15:
• Found in 5 of 34 (14.7%) of genes in pham
• Manual Annotations of this start: 1 of 19
• Called 20.0% of time when present
• Phage (with cluster) where this start called: EvePickles_92 (AY),

Summary by clusters:

There are 4 clusters represented in this pham: AY, FB, singleton, FN,

Info for manual annotations of cluster AY:

•Start number 14 was manually annotated 11 times for cluster AY.
•Start number 15 was manually annotated 1 time for cluster AY.

Info for manual annotations of cluster FB:
•Start number 14 was manually annotated 5 times for cluster FB.

Info for manual annotations of cluster FN:
•Start number 14 was manually annotated 2 times for cluster FN.

Gene Information:

Gene: Aikyam_89 Start: 48484, Stop: 49107, Start Num: 14
Candidate Starts for Aikyam_89:
(Start: 14 @48484 has 18 MA's), (36, 48724), (54, 48955), (56, 48976), (57, 49000), (62, 49057), (65, 49078),

Gene: Anekin_91 Start: 50412, Stop: 51011, Start Num: 14
Candidate Starts for Anekin_91:
(Start: 14 @50412 has 18 MA's), (17, 50478), (26, 50541), (39, 50718), (49, 50826), (51, 50844), (57, 50928), (60, 50967),

Gene: ArV2_66 Start: 35893, Stop: 36489, Start Num: 13
Candidate Starts for ArV2_66:
(13, 35893), (16, 35905), (33, 36115), (39, 36202), (49, 36310), (55, 36370),

Gene: Auxilium_89 Start: 47474, Stop: 48097, Start Num: 14
Candidate Starts for Auxilium_89:
(Start: 14 @47474 has 18 MA's), (25, 47597), (37, 47720), (54, 47945), (56, 47966), (57, 47990), (62, 48047), (65, 48068),

Gene: Bauer_88 Start: 46653, Stop: 47402, Start Num: 14
Candidate Starts for Bauer_88:
(1, 46506), (7, 46575), (9, 46584), (Start: 14 @46653 has 18 MA's), (Start: 15 @46659 has 1 MA's), (23, 46761), (26, 46782), (31, 46851), (33, 46872), (39, 46959), (59, 47337),

Gene: BenchScraper_88 Start: 48422, Stop: 49156, Start Num: 14
Candidate Starts for BenchScraper_88:
(Start: 14 @48422 has 18 MA's), (17, 48488), (25, 48545), (29, 48605), (47, 48845), (65, 49130),

Gene: BillyTP_90 Start: 50623, Stop: 51357, Start Num: 14
Candidate Starts for BillyTP_90:
(9, 50542), (Start: 14 @50623 has 18 MA's), (17, 50689), (25, 50746), (29, 50806), (47, 51046), (65, 51331),

Gene: BlackSpider_82 Start: 47899, Stop: 48648, Start Num: 14
Candidate Starts for BlackSpider_82:
(2, 47761), (5, 47791), (8, 47818), (Start: 14 @47899 has 18 MA's), (17, 47965), (23, 48007), (26, 48028), (31, 48097), (33, 48118), (39, 48205), (59, 48583),

Gene: BrayBeast_66 Start: 36485, Stop: 37072, Start Num: 14
Candidate Starts for BrayBeast_66:

(Start: 14 @36485 has 18 MA's), (19, 36572), (34, 36710), (49, 36896), (55, 36956), (57, 36998), (60, 37037),

Gene: CookieBear_88 Start: 49831, Stop: 50565, Start Num: 14
Candidate Starts for CookieBear_88:
(9, 49750), (Start: 14 @49831 has 18 MA's), (17, 49897), (25, 49954), (29, 50014), (47, 50254), (65, 50539),

Gene: EvePickles_92 Start: 51186, Stop: 51797, Start Num: 15
Candidate Starts for EvePickles_92:
(Start: 14 @51180 has 18 MA's), (Start: 15 @51186 has 1 MA's), (17, 51246), (25, 51303), (26, 51309), (27, 51318), (29, 51363), (49, 51594), (51, 51612), (52, 51642), (53, 51645), (55, 51654),

Gene: Faja_92 Start: 50399, Stop: 51010, Start Num: 14
Candidate Starts for Faja_92:
(Start: 14 @50399 has 18 MA's), (Start: 15 @50405 has 1 MA's), (17, 50465), (25, 50522), (26, 50528), (27, 50537), (29, 50582), (49, 50810), (51, 50828), (57, 50912), (63, 50984), (64, 50987),

Gene: Globfish_90 Start: 49142, Stop: 49876, Start Num: 14
Candidate Starts for Globfish_90:
(Start: 14 @49142 has 18 MA's), (Start: 15 @49148 has 1 MA's), (17, 49208), (25, 49265), (29, 49325), (47, 49565), (65, 49850),

Gene: Gorpy_89 Start: 51150, Stop: 51884, Start Num: 14
Candidate Starts for Gorpy_89:
(Start: 14 @51150 has 18 MA's), (25, 51273), (47, 51573), (65, 51858),

Gene: Hestia_85 Start: 47670, Stop: 48419, Start Num: 14
Candidate Starts for Hestia_85:
(1, 47523), (7, 47592), (9, 47601), (Start: 14 @47670 has 18 MA's), (Start: 15 @47676 has 1 MA's), (23, 47778), (26, 47799), (31, 47868), (33, 47889), (39, 47976), (59, 48354),

Gene: Hillester_95 Start: 50345, Stop: 51079, Start Num: 14
Candidate Starts for Hillester_95:
(Start: 14 @50345 has 18 MA's), (25, 50468), (29, 50528), (47, 50768), (65, 51053),

Gene: Isolde_92 Start: 51007, Stop: 51630, Start Num: 14
Candidate Starts for Isolde_92:
(Start: 14 @51007 has 18 MA's), (24, 51124), (36, 51247), (37, 51253), (54, 51478), (56, 51499), (57, 51523), (62, 51580), (65, 51601),

Gene: Kumotta_74 Start: 38724, Stop: 39317, Start Num: 14
Candidate Starts for Kumotta_74:
(10, 38676), (Start: 14 @38724 has 18 MA's), (21, 38826), (25, 38847), (49, 39138),

Gene: MargaretKali_70 Start: 37342, Stop: 37935, Start Num: 14
Candidate Starts for MargaretKali_70:
(10, 37294), (Start: 14 @37342 has 18 MA's), (21, 37444), (25, 37465), (43, 37678), (44, 37681), (45, 37705), (49, 37756),

Gene: MidnightRain_98 Start: 51625, Stop: 52236, Start Num: 14
Candidate Starts for MidnightRain_98:

(Start: 14 @51625 has 18 MA's), (17, 51691), (25, 51748), (29, 51808), (49, 52036), (51, 52054), (57, 52138), (60, 52177), (63, 52210), (64, 52213),

Gene: Persistence_86 Start: 47784, Stop: 48398, Start Num: 14
Candidate Starts for Persistence_86:
(Start: 14 @47784 has 18 MA's), (18, 47853), (20, 47880), (21, 47886), (35, 48018), (37, 48027), (38, 48054), (39, 48087), (41, 48096), (43, 48120), (44, 48123), (49, 48198), (55, 48258),

Gene: Phrank15_98 Start: 50774, Stop: 51388, Start Num: 14
Candidate Starts for Phrank15_98:
(11, 50759), (Start: 14 @50774 has 18 MA's), (20, 50870), (21, 50876), (30, 50966), (37, 51017), (38, 51044), (39, 51077), (41, 51086), (43, 51110), (44, 51113), (48, 51179), (49, 51188), (55, 51248),

Gene: RadFad_96 Start: 50345, Stop: 51079, Start Num: 14
Candidate Starts for RadFad_96:
(Start: 14 @50345 has 18 MA's), (25, 50468), (29, 50528), (47, 50768), (65, 51053),

Gene: Raphaella_89 Start: 49416, Stop: 50039, Start Num: 14
Candidate Starts for Raphaella_89:
(Start: 14 @49416 has 18 MA's), (28, 49563), (32, 49626), (37, 49662), (54, 49887), (58, 49944), (62, 49989), (65, 50010),

Gene: Raqqa_95 Start: 51202, Stop: 51939, Start Num: 12
Candidate Starts for Raqqa_95:
(12, 51202), (17, 51271), (19, 51292), (25, 51328), (47, 51628), (65, 51913),

Gene: Richie_94 Start: 50994, Stop: 51728, Start Num: 14
Candidate Starts for Richie_94:
(Start: 14 @50994 has 18 MA's), (17, 51060), (25, 51117), (29, 51177), (47, 51417), (65, 51702),

Gene: Sakai_88 Start: 49861, Stop: 50595, Start Num: 14
Candidate Starts for Sakai_88:
(Start: 14 @49861 has 18 MA's), (25, 49984), (47, 50284), (65, 50569),

Gene: Sarge_63 Start: 34201, Stop: 34944, Start Num: 14
Candidate Starts for Sarge_63:
(Start: 14 @34201 has 18 MA's), (19, 34288), (34, 34426), (46, 34594), (49, 34738), (50, 34753), (59, 34876), (61, 34888),

Gene: Sashimi_94 Start: 50240, Stop: 50863, Start Num: 14
Candidate Starts for Sashimi_94:
(Start: 14 @50240 has 18 MA's), (17, 50306), (20, 50336), (36, 50480), (40, 50546), (42, 50558), (54, 50711), (56, 50732), (58, 50768), (62, 50813), (65, 50834),

Gene: Seahorse_97 Start: 54507, Stop: 55130, Start Num: 14
Candidate Starts for Seahorse_97:
(Start: 14 @54507 has 18 MA's), (32, 54717), (37, 54753), (54, 54978), (56, 54999), (57, 55023), (62, 55080), (65, 55101),

Gene: Shoya_66 Start: 36590, Stop: 37177, Start Num: 14
Candidate Starts for Shoya_66:
(4, 36482), (Start: 14 @36590 has 18 MA's), (29, 36773), (49, 37001), (55, 37061), (57, 37103), (60, 37142),

Gene: Tiff81_91 Start: 48536, Stop: 49159, Start Num: 14
Candidate Starts for Tiff81_91:
(Start: 14 @48536 has 18 MA's), (28, 48683), (32, 48746), (37, 48782), (54, 49007), (56, 49028), (57, 49052), (62, 49109), (65, 49130),

Gene: YoungHarleezy_90 Start: 50740, Stop: 51354, Start Num: 14
Candidate Starts for YoungHarleezy_90:
(3, 50602), (6, 50632), (9, 50659), (Start: 14 @50740 has 18 MA's), (25, 50863), (26, 50869), (49, 51154), (55, 51214),

Gene: Zucker_91 Start: 51104, Stop: 51700, Start Num: 14
Candidate Starts for Zucker_91:
(Start: 14 @51104 has 18 MA's), (22, 51209), (25, 51227), (28, 51251), (39, 51407), (49, 51515),