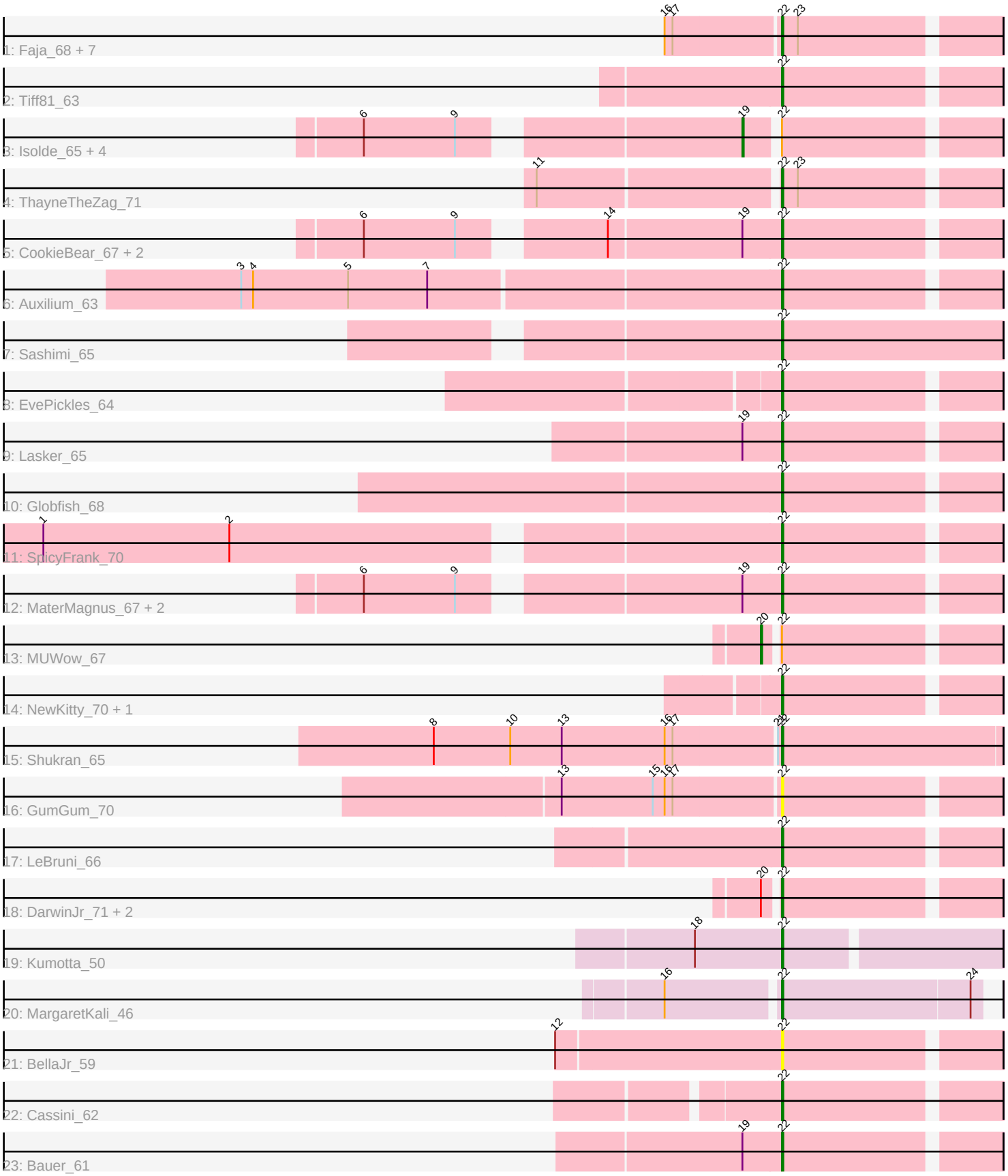
Pham 345904


1: Faja_68 + 7
2: Tiff81_63
3: Isolde_65 + 4
4: ThayneTheZag_71
5: CookieBear_67 + 2
6: Auxilium_63
7: Sashimi_65
8: EvePickles_64
9: Lasker_65
10: Globfish_68
11: SpicyFrank_70
12: MaterMagnus_67 + 2
13: MUWow_67
14: NewKitty_70 + 1
15: Shukran_65
16: GumGum_70
17: LeBruni_66
18: DarwinJr_71 + 2
19: Kumotta_50
20: MargaretKali_46
21: BellaJr_59
22: Cassini_62
23: Bauer_61

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 345904 Report

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

Pham number 345904 has 41 members, 6 are drafts.

Phages represented in each track:
• Track 1 : Faja_68, Phrank15_69, JellyBread_64, MurphyJoseph_65, Lawnathon_69, Raphaella_67, BenchScraper_67, Windest_70
• Track 2 : Tiff81_63
• Track 3 : Isolde_65, Gorpy_66, YoungHarleezy_66, BasketStar_68, Sakai_65
• Track 4 : ThayneTheZag_71
• Track 5 : CookieBear_67, Sporco_70, Vopal_69
• Track 6 : Auxilium_63
• Track 7 : Sashimi_65
• Track 8 : EvePickles_64
• Track 9 : Lasker_65
• Track 10 : Globfish_68
• Track 11 : SpicyFrank_70
• Track 12 : MaterMagnus_67, AdaS_63, Aikyam_66
• Track 13 : MUWow_67
• Track 14 : NewKitty_70, Zucker_63
• Track 15 : Shukran_65
• Track 16 : GumGum_70
• Track 17 : LeBruni_66
• Track 18 : DarwinJr_71, Crescenzo_69, BlackSpider_55
• Track 19 : Kumotta_50
• Track 20 : MargaretKali_46
• Track 21 : BellaJr_59
• Track 22 : Cassini_62
• Track 23 : Bauer_61

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

The start number called the most often in the published annotations is 22, it was called in 30 of the 35 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• AdaS_63, Aikyam_66, Auxilium_63, Bauer_61, BellaJr_59, BenchScraper_67, BlackSpider_55, Cassini_62, CookieBear_67, Crescenzo_69, DarwinJr_71, EvePickles_64, Faja_68, Globfish_68, GumGum_70, JellyBread_64, Kumotta_50,

Lasker_65, Lawnathon_69, LeBruni_66, MargaretKali_46, MaterMagnus_67, MurphyJoseph_65, NewKitty_70, Phrank15_69, Raphaella_67, Sashimi_65, Shukran_65, SpicyFrank_70, Sporco_70, ThayneTheZag_71, Tiff81_63, Vopal_69, Windest_70, Zucker_63,

Genes that have the "Most Annotated" start but do not call it:
• BasketStar_68, Gorpy_66, Isolde_65, MUWow_67, Sakai_65, YoungHarleezy_66,

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

Summary by start number:

Start 19:
• Found in 13 of 41 (31.7%) of genes in pham
• Manual Annotations of this start: 4 of 35
• Called 38.5% of time when present
• Phage (with cluster) where this start called: BasketStar_68 (AY), Gorpy_66 (AY), Isolde_65 (AY), Sakai_65 (AY), YoungHarleezy_66 (AY),

Start 20:
• Found in 4 of 41 (9.8%) of genes in pham
• Manual Annotations of this start: 1 of 35
• Called 25.0% of time when present
• Phage (with cluster) where this start called: MUWow_67 (AY),

Start 22:
• Found in 41 of 41 (100.0%) of genes in pham
• Manual Annotations of this start: 30 of 35
• Called 85.4% of time when present
• Phage (with cluster) where this start called: AdaS_63 (AY), Aikyam_66 (AY), Auxilium_63 (AY), Bauer_61 (FN), BellaJr_59 (FN), BenchScraper_67 (AY), BlackSpider_55 (FN), Cassini_62 (FN), CookieBear_67 (AY), Crescenzo_69 (AY), DarwinJr_71 (AY), EvePickles_64 (AY), Faja_68 (AY), Globfish_68 (AY), GumGum_70 (AY), JellyBread_64 (AY), Kumotta_50 (FB), Lasker_65 (AY), Lawnathon_69 (AY), LeBruni_66 (AY), MargaretKali_46 (FB), MaterMagnus_67 (AY), MurphyJoseph_65 (AY), NewKitty_70 (AY), Phrank15_69 (AY), Raphaella_67 (AY), Sashimi_65 (AY), Shukran_65 (AY), SpicyFrank_70 (AY), Sporco_70 (AY), ThayneTheZag_71 (AY), Tiff81_63 (AY), Vopal_69 (AY), Windest_70 (AY), Zucker_63 (FN),

Summary by clusters:

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

Info for manual annotations of cluster AY:
•Start number 19 was manually annotated 4 times for cluster AY.
•Start number 20 was manually annotated 1 time for cluster AY.
•Start number 22 was manually annotated 24 times for cluster AY.

Info for manual annotations of cluster FB:
•Start number 22 was manually annotated 2 times for cluster FB.

Info for manual annotations of cluster FN:
•Start number 22 was manually annotated 4 times for cluster FN.

Gene Information:

Gene: AdaS_63 Start: 33664, Stop: 33819, Start Num: 22
Candidate Starts for AdaS_63:
(6, 33385), (9, 33454), (Start: 19 @33643 has 4 MA's), (Start: 22 @33664 has 30 MA's),

Gene: Aikyam_66 Start: 33983, Stop: 34138, Start Num: 22
Candidate Starts for Aikyam_66:
(6, 33704), (9, 33773), (Start: 19 @33962 has 4 MA's), (Start: 22 @33983 has 30 MA's),

Gene: Auxilium_63 Start: 33144, Stop: 33299, Start Num: 22
Candidate Starts for Auxilium_63:
(3, 32751), (4, 32760), (5, 32832), (7, 32892), (Start: 22 @33144 has 30 MA's),

Gene: BasketStar_68 Start: 36313, Stop: 36489, Start Num: 19
Candidate Starts for BasketStar_68:
(6, 36055), (9, 36124), (Start: 19 @36313 has 4 MA's), (Start: 22 @36334 has 30 MA's),

Gene: Bauer_61 Start: 34076, Stop: 34231, Start Num: 22
Candidate Starts for Bauer_61:
(Start: 19 @34055 has 4 MA's), (Start: 22 @34076 has 30 MA's),

Gene: BellaJr_59 Start: 34771, Stop: 34926, Start Num: 22
Candidate Starts for BellaJr_59:
(12, 34612), (Start: 22 @34771 has 30 MA's),

Gene: BenchScraper_67 Start: 35352, Stop: 35516, Start Num: 22
Candidate Starts for BenchScraper_67:
(16, 35268), (17, 35274), (Start: 22 @35352 has 30 MA's), (23, 35364),

Gene: BlackSpider_55 Start: 32936, Stop: 33091, Start Num: 22
Candidate Starts for BlackSpider_55:
(Start: 20 @32927 has 1 MA's), (Start: 22 @32936 has 30 MA's),

Gene: Cassini_62 Start: 34777, Stop: 34932, Start Num: 22
Candidate Starts for Cassini_62:
(Start: 22 @34777 has 30 MA's),

Gene: CookieBear_67 Start: 35414, Stop: 35569, Start Num: 22
Candidate Starts for CookieBear_67:
(6, 35135), (9, 35204), (14, 35294), (Start: 19 @35393 has 4 MA's), (Start: 22 @35414 has 30 MA's),

Gene: Crescenzo_69 Start: 37555, Stop: 37710, Start Num: 22
Candidate Starts for Crescenzo_69:
(Start: 20 @37546 has 1 MA's), (Start: 22 @37555 has 30 MA's),

Gene: DarwinJr_71 Start: 37510, Stop: 37665, Start Num: 22
Candidate Starts for DarwinJr_71:

(Start: 20 @37501 has 1 MA's), (Start: 22 @37510 has 30 MA's),

Gene: EvePickles_64 Start: 36114, Stop: 36269, Start Num: 22
Candidate Starts for EvePickles_64:
(Start: 22 @36114 has 30 MA's),

Gene: Faja_68 Start: 36966, Stop: 37121, Start Num: 22
Candidate Starts for Faja_68:
(16, 36882), (17, 36888), (Start: 22 @36966 has 30 MA's), (23, 36978),

Gene: Globfish_68 Start: 36057, Stop: 36212, Start Num: 22
Candidate Starts for Globfish_68:
(Start: 22 @36057 has 30 MA's),

Gene: Gorpy_66 Start: 36385, Stop: 36561, Start Num: 19
Candidate Starts for Gorpy_66:
(6, 36127), (9, 36196), (Start: 19 @36385 has 4 MA's), (Start: 22 @36406 has 30 MA's),

Gene: GumGum_70 Start: 35873, Stop: 36028, Start Num: 22
Candidate Starts for GumGum_70:
(13, 35711), (15, 35780), (16, 35789), (17, 35795), (Start: 22 @35873 has 30 MA's),

Gene: Isolde_65 Start: 35062, Stop: 35238, Start Num: 19
Candidate Starts for Isolde_65:
(6, 34804), (9, 34873), (Start: 19 @35062 has 4 MA's), (Start: 22 @35083 has 30 MA's),

Gene: JellyBread_64 Start: 34612, Stop: 34776, Start Num: 22
Candidate Starts for JellyBread_64:
(16, 34528), (17, 34534), (Start: 22 @34612 has 30 MA's), (23, 34624),

Gene: Kumotta_50 Start: 30103, Stop: 30261, Start Num: 22
Candidate Starts for Kumotta_50:
(18, 30037), (Start: 22 @30103 has 30 MA's),

Gene: Lasker_65 Start: 35961, Stop: 36116, Start Num: 22
Candidate Starts for Lasker_65:
(Start: 19 @35940 has 4 MA's), (Start: 22 @35961 has 30 MA's),

Gene: Lawnathon_69 Start: 35752, Stop: 35916, Start Num: 22
Candidate Starts for Lawnathon_69:
(16, 35668), (17, 35674), (Start: 22 @35752 has 30 MA's), (23, 35764),

Gene: LeBruni_66 Start: 35023, Stop: 35178, Start Num: 22
Candidate Starts for LeBruni_66:
(Start: 22 @35023 has 30 MA's),

Gene: MUWow_67 Start: 35986, Stop: 36150, Start Num: 20
Candidate Starts for MUWow_67:
(Start: 20 @35986 has 1 MA's), (Start: 22 @35995 has 30 MA's),

Gene: MargaretKali_46 Start: 28714, Stop: 28863, Start Num: 22
Candidate Starts for MargaretKali_46:
(16, 28633), (Start: 22 @28714 has 30 MA's), (24, 28855),

Gene: MaterMagnus_67 Start: 36155, Stop: 36310, Start Num: 22
Candidate Starts for MaterMagnus_67:
(6, 35876), (9, 35945), (Start: 19 @36134 has 4 MA's), (Start: 22 @36155 has 30 MA's),

Gene: MurphyJoseph_65 Start: 34830, Stop: 34994, Start Num: 22
Candidate Starts for MurphyJoseph_65:
(16, 34746), (17, 34752), (Start: 22 @34830 has 30 MA's), (23, 34842),

Gene: NewKitty_70 Start: 36234, Stop: 36389, Start Num: 22
Candidate Starts for NewKitty_70:
(Start: 22 @36234 has 30 MA's),

Gene: Phrank15_69 Start: 35883, Stop: 36047, Start Num: 22
Candidate Starts for Phrank15_69:
(16, 35799), (17, 35805), (Start: 22 @35883 has 30 MA's), (23, 35895),

Gene: Raphaella_67 Start: 35450, Stop: 35614, Start Num: 22
Candidate Starts for Raphaella_67:
(16, 35366), (17, 35372), (Start: 22 @35450 has 30 MA's), (23, 35462),

Gene: Sakai_65 Start: 35096, Stop: 35272, Start Num: 19
Candidate Starts for Sakai_65:
(6, 34838), (9, 34907), (Start: 19 @35096 has 4 MA's), (Start: 22 @35117 has 30 MA's),

Gene: Sashimi_65 Start: 36369, Stop: 36536, Start Num: 22
Candidate Starts for Sashimi_65:
(Start: 22 @36369 has 30 MA's),

Gene: Shukran_65 Start: 34401, Stop: 34565, Start Num: 22
Candidate Starts for Shukran_65:
(8, 34143), (10, 34200), (13, 34239), (16, 34317), (17, 34323), (21, 34398), (Start: 22 @34401 has 30 MA's),

Gene: SpicyFrank_70 Start: 36679, Stop: 36834, Start Num: 22
Candidate Starts for SpicyFrank_70:
(1, 36157), (2, 36298), (Start: 22 @36679 has 30 MA's),

Gene: Sporco_70 Start: 36701, Stop: 36856, Start Num: 22
Candidate Starts for Sporco_70:
(6, 36422), (9, 36491), (14, 36581), (Start: 19 @36680 has 4 MA's), (Start: 22 @36701 has 30 MA's),

Gene: ThayneTheZag_71 Start: 35896, Stop: 36051, Start Num: 22
Candidate Starts for ThayneTheZag_71:
(11, 35722), (Start: 22 @35896 has 30 MA's), (23, 35908),

Gene: Tiff81_63 Start: 34064, Stop: 34219, Start Num: 22
Candidate Starts for Tiff81_63:
(Start: 22 @34064 has 30 MA's),

Gene: Vopal_69 Start: 38606, Stop: 38761, Start Num: 22
Candidate Starts for Vopal_69:
(6, 38327), (9, 38396), (14, 38486), (Start: 19 @38585 has 4 MA's), (Start: 22 @38606 has 30 MA's),

Gene: Windest_70 Start: 34810, Stop: 34974, Start Num: 22
Candidate Starts for Windest_70:
(16, 34726), (17, 34732), (Start: 22 @34810 has 30 MA's), (23, 34822),

Gene: YoungHarleezy_66 Start: 35791, Stop: 35967, Start Num: 19
Candidate Starts for YoungHarleezy_66:
(6, 35533), (9, 35602), (Start: 19 @35791 has 4 MA's), (Start: 22 @35812 has 30 MA's),

Gene: Zucker_63 Start: 36020, Stop: 36172, Start Num: 22
Candidate Starts for Zucker_63:
(Start: 22 @36020 has 30 MA's),