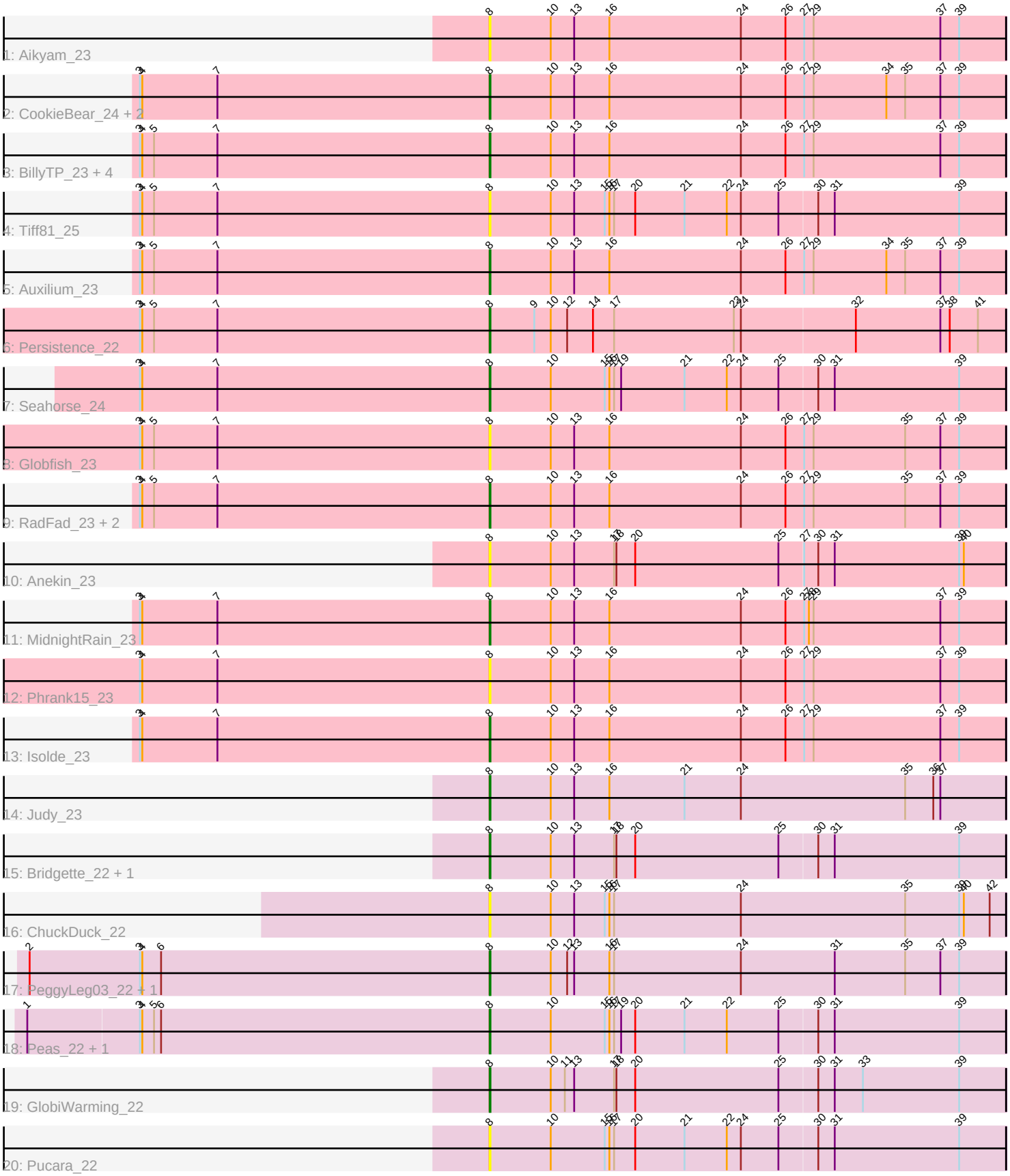
Pham 86524


1: Aikyam_23
2: CookieBear_24 + 2
3: BillyTP_23 + 4
4: Tiff81_25
5: Auxilium_23
6: Persistence_22
7: Seahorse_24
8: Globfish_23
9: RadFad_23 + 2
10: Anekin_23
11: MidnightRain_23
12: Phrank15_23
13: Isolde_23
14: Judy_23
15: Bridgette_22 + 1
16: ChuckDuck_22
17: PeggyLeg03_22 + 1
18: Peas_22 + 1
19: GlobiWarming_22
20: Pucara_22

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 86524 Report

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

Pham number 86524 has 31 members, 14 are drafts.

Phages represented in each track:
• Track 1 : Aikyam_23
• Track 2 : CookieBear_24, BenchScraper_23, Richie_23
• Track 3 : BillyTP_23, YoungHarleezy_23, Gorpy_23, Raphaella_24, Sakai_23
• Track 4 : Tiff81_25
• Track 5 : Auxilium_23
• Track 6 : Persistence_22
• Track 7 : Seahorse_24
• Track 8 : Globfish_23
• Track 9 : RadFad_23, Hestia_23, Hillester_23
• Track 10 : Anekin_23
• Track 11 : MidnightRain_23
• Track 12 : Phrank15_23
• Track 13 : Isolde_23
• Track 14 : Judy_23
• Track 15 : Bridgette_22, Karkharias_22
• Track 16 : ChuckDuck_22
• Track 17 : PeggyLeg03_22, Constance_22
• Track 18 : Peas_22, Eileen_22
• Track 19 : GlobiWarming_22
• Track 20 : Pucara_22

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

The start number called the most often in the published annotations is 8, it was called in 17 of the 17 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Aikyam_23, Anekin_23, Auxilium_23, BenchScraper_23, BillyTP_23, Bridgette_22, ChuckDuck_22, Constance_22, CookieBear_24, Eileen_22, Globfish_23, GlobiWarming_22, Gorpy_23, Hestia_23, Hillester_23, Isolde_23, Judy_23, Karkharias_22, MidnightRain_23, Peas_22, PeggyLeg03_22, Persistence_22, Phrank15_23, Pucara_22, RadFad_23, Raphaella_24, Richie_23, Sakai_23, Seahorse_24, Tiff81_25, YoungHarleezy_23,

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

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

Summary by start number:

Start 8:
• Found in 31 of 31 (100.0%) of genes in pham
• Manual Annotations of this start: 17 of 17
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Aikyam_23 (AY), Anekin_23 (AY), Auxilium_23 (AY), BenchScraper_23 (AY), BillyTP_23 (AY), Bridgette_22 (FA), ChuckDuck_22 (FA), Constance_22 (FA), CookieBear_24 (AY), Eileen_22 (FA), Globfish_23 (AY), GlobiWarming_22 (FA), Gorpy_23 (AY), Hestia_23 (AY), Hillester_23 (AY), Isolde_23 (AY), Judy_23 (FA), Karkharias_22 (FA), MidnightRain_23 (AY), Peas_22 (FA), PeggyLeg03_22 (FA), Persistence_22 (AY), Phrank15_23 (AY), Pucara_22 (FA), RadFad_23 (AY), Raphaella_24 (AY), Richie_23 (AY), Sakai_23 (AY), Seahorse_24 (AY), Tiff81_25 (AY), YoungHarleezy_23 (AY),

Summary by clusters:

There are 2 clusters represented in this pham: AY, FA,

Info for manual annotations of cluster AY:
•Start number 8 was manually annotated 10 times for cluster AY.

Info for manual annotations of cluster FA:
•Start number 8 was manually annotated 7 times for cluster FA.

Gene Information:

Gene: Aikyam_23 Start: 17893, Stop: 18552, Start Num: 8
Candidate Starts for Aikyam_23:
(Start: 8 @17893 has 17 MA's), (10, 17971), (13, 18001), (16, 18046), (24, 18214), (26, 18271), (27, 18295), (29, 18307), (37, 18469), (39, 18493),

Gene: Anekin_23 Start: 17858, Stop: 18514, Start Num: 8
Candidate Starts for Anekin_23:
(Start: 8 @17858 has 17 MA's), (10, 17936), (13, 17966), (17, 18017), (18, 18020), (20, 18044), (25, 18227), (27, 18257), (30, 18275), (31, 18296), (39, 18455), (40, 18461),

Gene: Auxilium_23 Start: 17892, Stop: 18551, Start Num: 8
Candidate Starts for Auxilium_23:
(3, 17445), (4, 17448), (5, 17463), (7, 17544), (Start: 8 @17892 has 17 MA's), (10, 17970), (13, 18000), (16, 18045), (24, 18213), (26, 18270), (27, 18294), (29, 18306), (34, 18399), (35, 18423), (37, 18468), (39, 18492),

Gene: BenchScraper_23 Start: 17907, Stop: 18566, Start Num: 8
Candidate Starts for BenchScraper_23:

(3, 17460), (4, 17463), (7, 17559), (Start: 8 @17907 has 17 MA's), (10, 17985), (13, 18015), (16, 18060), (24, 18228), (26, 18285), (27, 18309), (29, 18321), (34, 18414), (35, 18438), (37, 18483), (39, 18507),

Gene: BillyTP_23 Start: 17676, Stop: 18335, Start Num: 8
Candidate Starts for BillyTP_23:
(3, 17229), (4, 17232), (5, 17247), (7, 17328), (Start: 8 @17676 has 17 MA's), (10, 17754), (13, 17784), (16, 17829), (24, 17997), (26, 18054), (27, 18078), (29, 18090), (37, 18252), (39, 18276),

Gene: Bridgette_22 Start: 17957, Stop: 18613, Start Num: 8
Candidate Starts for Bridgette_22:
(Start: 8 @17957 has 17 MA's), (10, 18035), (13, 18065), (17, 18116), (18, 18119), (20, 18143), (25, 18326), (30, 18374), (31, 18395), (39, 18554),

Gene: ChuckDuck_22 Start: 17793, Stop: 18452, Start Num: 8
Candidate Starts for ChuckDuck_22:
(Start: 8 @17793 has 17 MA's), (10, 17871), (13, 17901), (15, 17940), (16, 17946), (17, 17952), (24, 18114), (35, 18324), (39, 18393), (40, 18399), (42, 18432),

Gene: Constance_22 Start: 17933, Stop: 18592, Start Num: 8
Candidate Starts for Constance_22:
(2, 17345), (3, 17486), (4, 17489), (6, 17513), (Start: 8 @17933 has 17 MA's), (10, 18011), (12, 18032), (13, 18041), (16, 18086), (17, 18092), (24, 18254), (31, 18374), (35, 18464), (37, 18509), (39, 18533),

Gene: CookieBear_24 Start: 17892, Stop: 18551, Start Num: 8
Candidate Starts for CookieBear_24:
(3, 17445), (4, 17448), (7, 17544), (Start: 8 @17892 has 17 MA's), (10, 17970), (13, 18000), (16, 18045), (24, 18213), (26, 18270), (27, 18294), (29, 18306), (34, 18399), (35, 18423), (37, 18468), (39, 18492),

Gene: Eileen_22 Start: 17895, Stop: 18551, Start Num: 8
Candidate Starts for Eileen_22:
(1, 17307), (3, 17448), (4, 17451), (5, 17466), (6, 17475), (Start: 8 @17895 has 17 MA's), (10, 17973), (15, 18042), (16, 18048), (17, 18054), (19, 18063), (20, 18081), (21, 18144), (22, 18198), (25, 18264), (30, 18312), (31, 18333), (39, 18492),

Gene: Globfish_23 Start: 17965, Stop: 18624, Start Num: 8
Candidate Starts for Globfish_23:
(3, 17518), (4, 17521), (5, 17536), (7, 17617), (Start: 8 @17965 has 17 MA's), (10, 18043), (13, 18073), (16, 18118), (24, 18286), (26, 18343), (27, 18367), (29, 18379), (35, 18496), (37, 18541), (39, 18565),

Gene: GlobiWarming_22 Start: 17893, Stop: 18549, Start Num: 8
Candidate Starts for GlobiWarming_22:
(Start: 8 @17893 has 17 MA's), (10, 17971), (11, 17989), (13, 18001), (17, 18052), (18, 18055), (20, 18079), (25, 18262), (30, 18310), (31, 18331), (33, 18367), (39, 18490),

Gene: Gorpy_23 Start: 17901, Stop: 18560, Start Num: 8
Candidate Starts for Gorpy_23:
(3, 17454), (4, 17457), (5, 17472), (7, 17553), (Start: 8 @17901 has 17 MA's), (10, 17979), (13, 18009), (16, 18054), (24, 18222), (26, 18279), (27, 18303), (29, 18315), (37, 18477), (39, 18501),

Gene: Hestia_23 Start: 18070, Stop: 18729, Start Num: 8
Candidate Starts for Hestia_23:
(3, 17623), (4, 17626), (5, 17641), (7, 17722), (Start: 8 @18070 has 17 MA's), (10, 18148), (13, 18178), (16, 18223), (24, 18391), (26, 18448), (27, 18472), (29, 18484), (35, 18601), (37, 18646), (39, 18670),

Gene: Hillester_23 Start: 17892, Stop: 18551, Start Num: 8
Candidate Starts for Hillester_23:
(3, 17445), (4, 17448), (5, 17463), (7, 17544), (Start: 8 @17892 has 17 MA's), (10, 17970), (13, 18000), (16, 18045), (24, 18213), (26, 18270), (27, 18294), (29, 18306), (35, 18423), (37, 18468), (39, 18492),

Gene: Isolde_23 Start: 17727, Stop: 18386, Start Num: 8
Candidate Starts for Isolde_23:
(3, 17280), (4, 17283), (7, 17379), (Start: 8 @17727 has 17 MA's), (10, 17805), (13, 17835), (16, 17880), (24, 18048), (26, 18105), (27, 18129), (29, 18141), (37, 18303), (39, 18327),

Gene: Judy_23 Start: 18204, Stop: 18863, Start Num: 8
Candidate Starts for Judy_23:
(Start: 8 @18204 has 17 MA's), (10, 18282), (13, 18312), (16, 18357), (21, 18453), (24, 18525), (35, 18735), (36, 18771), (37, 18780),

Gene: Karkharias_22 Start: 17897, Stop: 18553, Start Num: 8
Candidate Starts for Karkharias_22:
(Start: 8 @17897 has 17 MA's), (10, 17975), (13, 18005), (17, 18056), (18, 18059), (20, 18083), (25, 18266), (30, 18314), (31, 18335), (39, 18494),

Gene: MidnightRain_23 Start: 17891, Stop: 18550, Start Num: 8
Candidate Starts for MidnightRain_23:
(3, 17444), (4, 17447), (7, 17543), (Start: 8 @17891 has 17 MA's), (10, 17969), (13, 17999), (16, 18044), (24, 18212), (26, 18269), (27, 18293), (28, 18299), (29, 18305), (37, 18467), (39, 18491),

Gene: Peas_22 Start: 17895, Stop: 18551, Start Num: 8
Candidate Starts for Peas_22:
(1, 17307), (3, 17448), (4, 17451), (5, 17466), (6, 17475), (Start: 8 @17895 has 17 MA's), (10, 17973), (15, 18042), (16, 18048), (17, 18054), (19, 18063), (20, 18081), (21, 18144), (22, 18198), (25, 18264), (30, 18312), (31, 18333), (39, 18492),

Gene: PeggyLeg03_22 Start: 17933, Stop: 18592, Start Num: 8
Candidate Starts for PeggyLeg03_22:
(2, 17345), (3, 17486), (4, 17489), (6, 17513), (Start: 8 @17933 has 17 MA's), (10, 18011), (12, 18032), (13, 18041), (16, 18086), (17, 18092), (24, 18254), (31, 18374), (35, 18464), (37, 18509), (39, 18533),

Gene: Persistence_22 Start: 17816, Stop: 18472, Start Num: 8
Candidate Starts for Persistence_22:
(3, 17369), (4, 17372), (5, 17387), (7, 17468), (Start: 8 @17816 has 17 MA's), (9, 17873), (10, 17894), (12, 17915), (14, 17948), (17, 17975), (23, 18128), (24, 18137), (32, 18281), (37, 18389), (38, 18401), (41, 18437),

Gene: Phrank15_23 Start: 17826, Stop: 18485, Start Num: 8
Candidate Starts for Phrank15_23:

(3, 17379), (4, 17382), (7, 17478), (Start: 8 @17826 has 17 MA's), (10, 17904), (13, 17934), (16, 17979), (24, 18147), (26, 18204), (27, 18228), (29, 18240), (37, 18402), (39, 18426),

Gene: Pucara_22 Start: 17894, Stop: 18550, Start Num: 8
Candidate Starts for Pucara_22:
(Start: 8 @17894 has 17 MA's), (10, 17972), (15, 18041), (16, 18047), (17, 18053), (20, 18080), (21, 18143), (22, 18197), (24, 18215), (25, 18263), (30, 18311), (31, 18332), (39, 18491),

Gene: RadFad_23 Start: 17892, Stop: 18551, Start Num: 8
Candidate Starts for RadFad_23:
(3, 17445), (4, 17448), (5, 17463), (7, 17544), (Start: 8 @17892 has 17 MA's), (10, 17970), (13, 18000), (16, 18045), (24, 18213), (26, 18270), (27, 18294), (29, 18306), (35, 18423), (37, 18468), (39, 18492),

Gene: Raphaella_24 Start: 17892, Stop: 18551, Start Num: 8
Candidate Starts for Raphaella_24:
(3, 17445), (4, 17448), (5, 17463), (7, 17544), (Start: 8 @17892 has 17 MA's), (10, 17970), (13, 18000), (16, 18045), (24, 18213), (26, 18270), (27, 18294), (29, 18306), (37, 18468), (39, 18492),

Gene: Richie_23 Start: 17907, Stop: 18566, Start Num: 8
Candidate Starts for Richie_23:
(3, 17460), (4, 17463), (7, 17559), (Start: 8 @17907 has 17 MA's), (10, 17985), (13, 18015), (16, 18060), (24, 18228), (26, 18285), (27, 18309), (29, 18321), (34, 18414), (35, 18438), (37, 18483), (39, 18507),

Gene: Sakai_23 Start: 17901, Stop: 18560, Start Num: 8
Candidate Starts for Sakai_23:
(3, 17454), (4, 17457), (5, 17472), (7, 17553), (Start: 8 @17901 has 17 MA's), (10, 17979), (13, 18009), (16, 18054), (24, 18222), (26, 18279), (27, 18303), (29, 18315), (37, 18477), (39, 18501),

Gene: Seahorse_24 Start: 18259, Stop: 18915, Start Num: 8
Candidate Starts for Seahorse_24:
(3, 17812), (4, 17815), (7, 17911), (Start: 8 @18259 has 17 MA's), (10, 18337), (15, 18406), (16, 18412), (17, 18418), (19, 18427), (21, 18508), (22, 18562), (24, 18580), (25, 18628), (30, 18676), (31, 18697), (39, 18856),

Gene: Tiff81_25 Start: 17987, Stop: 18643, Start Num: 8
Candidate Starts for Tiff81_25:
(3, 17540), (4, 17543), (5, 17558), (7, 17639), (Start: 8 @17987 has 17 MA's), (10, 18065), (13, 18095), (15, 18134), (16, 18140), (17, 18146), (20, 18173), (21, 18236), (22, 18290), (24, 18308), (25, 18356), (30, 18404), (31, 18425), (39, 18584),

Gene: YoungHarleezy_23 Start: 17905, Stop: 18564, Start Num: 8
Candidate Starts for YoungHarleezy_23:
(3, 17458), (4, 17461), (5, 17476), (7, 17557), (Start: 8 @17905 has 17 MA's), (10, 17983), (13, 18013), (16, 18058), (24, 18226), (26, 18283), (27, 18307), (29, 18319), (37, 18481), (39, 18505),