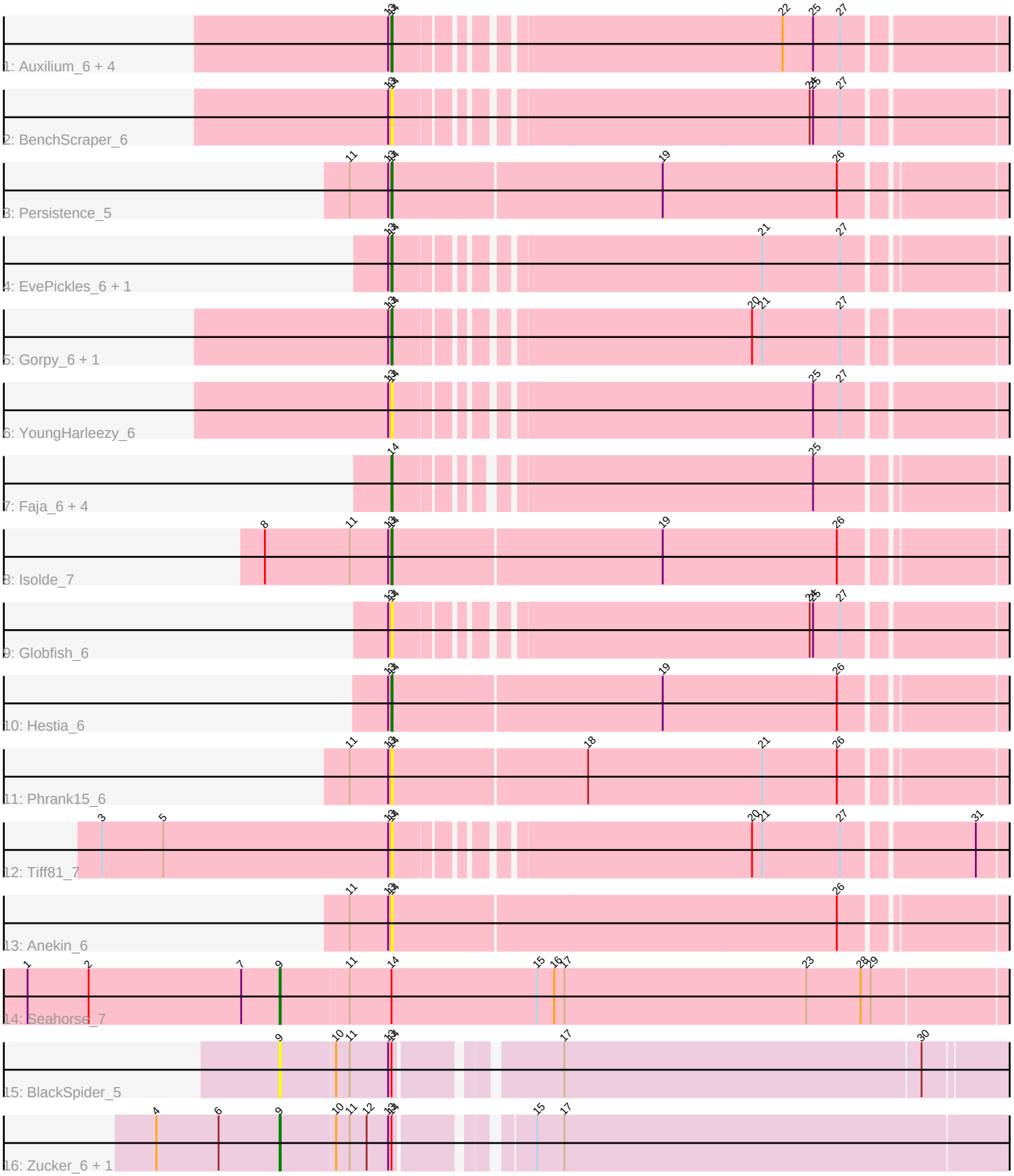
Pham 163061


1: Auxilium_6 + 4
2: BenchScraper_6
3: Persistence_5
4: EvePickles_6 + 1
5: Gorpy_6 + 1
6: YoungHarleezy_6
7: Faja_6 + 4
8: Isolde_7
9: Globfish_6
10: Hestia_6
11: Phrank15_6
12: Tiff81_7
13: Anekin_6
14: Seahorse_7
15: BlackSpider_5
16: Zucker_6 + 1

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 163061 Report

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

Pham number 163061 has 27 members, 13 are drafts.

Phages represented in each track:
• Track 1 : Auxilium_6, Richie_6, Raphaella_6, BillyTP_6, CookieBear_6
• Track 2 : BenchScraper_6
• Track 3 : Persistence_5
• Track 4 : EvePickles_6, Sashimi_7
• Track 5 : Gorpy_6, Sakai_6
• Track 6 : YoungHarleezy_6
• Track 7 : Faja_6, MidnightRain_6, RadFad_6, Aikyam_6, Hillester_6
• Track 8 : Isolde_7
• Track 9 : Globfish_6
• Track 10 : Hestia_6
• Track 11 : Phrank15_6
• Track 12 : Tiff81_7
• Track 13 : Anekin_6
• Track 14 : Seahorse_7
• Track 15 : BlackSpider_5
• Track 16 : Zucker_6, Bauer_7

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 11 of the 14 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Aikyam_6, Anekin_6, Auxilium_6, BenchScraper_6, BillyTP_6, CookieBear_6, EvePickles_6, Faja_6, Globfish_6, Gorpy_6, Hestia_6, Hillester_6, Isolde_7, MidnightRain_6, Persistence_5, Phrank15_6, RadFad_6, Raphaella_6, Richie_6, Sakai_6, Sashimi_7, Tiff81_7, YoungHarleezy_6,

Genes that have the "Most Annotated" start but do not call it:
• Bauer_7, BlackSpider_5, Seahorse_7, Zucker_6,

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

Summary by start number:

Start 9:
• Found in 4 of 27 (14.8%) of genes in pham
• Manual Annotations of this start: 3 of 14
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bauer_7 (FN), BlackSpider_5 (FN), Seahorse_7 (AY), Zucker_6 (FN),

Start 14:
• Found in 27 of 27 (100.0%) of genes in pham
• Manual Annotations of this start: 11 of 14
• Called 85.2% of time when present
• Phage (with cluster) where this start called: Aikyam_6 (AY), Anekin_6 (AY), Auxilium_6 (AY), BenchScraper_6 (AY), BillyTP_6 (AY), CookieBear_6 (AY), EvePickles_6 (AY), Faja_6 (AY), Globfish_6 (AY), Gorpy_6 (AY), Hestia_6 (AY), Hillester_6 (AY), Isolde_7 (AY), MidnightRain_6 (AY), Persistence_5 (AY), Phrank15_6 (AY), RadFad_6 (AY), Raphaella_6 (AY), Richie_6 (AY), Sakai_6 (AY), Sashimi_7 (AY), Tiff81_7 (AY), YoungHarleezy_6 (AY),

Summary by clusters:

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

Info for manual annotations of cluster AY:
•Start number 9 was manually annotated 1 time for cluster AY.
•Start number 14 was manually annotated 11 times for cluster AY.

Info for manual annotations of cluster FN:
•Start number 9 was manually annotated 2 times for cluster FN.

Gene Information:

Gene: Aikyam_6 Start: 4944, Stop: 5444, Start Num: 14
Candidate Starts for Aikyam_6:
(Start: 14 @4944 has 11 MA's), (25, 5277),

Gene: Anekin_6 Start: 5066, Stop: 5599, Start Num: 14
Candidate Starts for Anekin_6:
(11, 5030), (13, 5063), (Start: 14 @5066 has 11 MA's), (26, 5453),

Gene: Auxilium_6 Start: 4952, Stop: 5458, Start Num: 14
Candidate Starts for Auxilium_6:
(13, 4949), (Start: 14 @4952 has 11 MA's), (22, 5261), (25, 5288), (27, 5312),

Gene: Bauer_7 Start: 5263, Stop: 5898, Start Num: 9
Candidate Starts for Bauer_7:
(4, 5155), (6, 5209), (Start: 9 @5263 has 3 MA's), (10, 5311), (11, 5323), (12, 5338), (13, 5356), (Start: 14 @5359 has 11 MA's), (15, 5455), (17, 5479),

Gene: BenchScraper_6 Start: 4952, Stop: 5458, Start Num: 14

Candidate Starts for BenchScraper_6:
(13, 4949), (Start: 14 @4952 has 11 MA's), (24, 5285), (25, 5288), (27, 5312),

Gene: BillyTP_6 Start: 4946, Stop: 5452, Start Num: 14
Candidate Starts for BillyTP_6:
(13, 4943), (Start: 14 @4946 has 11 MA's), (22, 5255), (25, 5282), (27, 5306),

Gene: BlackSpider_5 Start: 4325, Stop: 4957, Start Num: 9
Candidate Starts for BlackSpider_5:
(Start: 9 @4325 has 3 MA's), (10, 4373), (11, 4385), (13, 4418), (Start: 14 @4421 has 11 MA's), (17, 4544), (30, 4856),

Gene: CookieBear_6 Start: 4952, Stop: 5458, Start Num: 14
Candidate Starts for CookieBear_6:
(13, 4949), (Start: 14 @4952 has 11 MA's), (22, 5261), (25, 5288), (27, 5312),

Gene: EvePickles_6 Start: 4997, Stop: 5500, Start Num: 14
Candidate Starts for EvePickles_6:
(13, 4994), (Start: 14 @4997 has 11 MA's), (21, 5288), (27, 5357),

Gene: Faja_6 Start: 4944, Stop: 5444, Start Num: 14
Candidate Starts for Faja_6:
(Start: 14 @4944 has 11 MA's), (25, 5277),

Gene: Globfish_6 Start: 4997, Stop: 5503, Start Num: 14
Candidate Starts for Globfish_6:
(13, 4994), (Start: 14 @4997 has 11 MA's), (24, 5330), (25, 5333), (27, 5357),

Gene: Gorpy_6 Start: 4946, Stop: 5452, Start Num: 14
Candidate Starts for Gorpy_6:
(13, 4943), (Start: 14 @4946 has 11 MA's), (20, 5228), (21, 5237), (27, 5306),

Gene: Hestia_6 Start: 5060, Stop: 5593, Start Num: 14
Candidate Starts for Hestia_6:
(13, 5057), (Start: 14 @5060 has 11 MA's), (19, 5294), (26, 5447),

Gene: Hillester_6 Start: 4944, Stop: 5447, Start Num: 14
Candidate Starts for Hillester_6:
(Start: 14 @4944 has 11 MA's), (25, 5277),

Gene: Isolde_7 Start: 4984, Stop: 5517, Start Num: 14
Candidate Starts for Isolde_7:
(8, 4873), (11, 4948), (13, 4981), (Start: 14 @4984 has 11 MA's), (19, 5218), (26, 5371),

Gene: MidnightRain_6 Start: 4944, Stop: 5447, Start Num: 14
Candidate Starts for MidnightRain_6:
(Start: 14 @4944 has 11 MA's), (25, 5277),

Gene: Persistence_5 Start: 5021, Stop: 5554, Start Num: 14
Candidate Starts for Persistence_5:
(11, 4985), (13, 5018), (Start: 14 @5021 has 11 MA's), (19, 5255), (26, 5408),

Gene: Phrank15_6 Start: 5067, Stop: 5600, Start Num: 14

Candidate Starts for Phrank15_6:
(11, 5031), (13, 5064), (Start: 14 @5067 has 11 MA's), (18, 5235), (21, 5388), (26, 5454),

Gene: RadFad_6 Start: 4944, Stop: 5447, Start Num: 14
Candidate Starts for RadFad_6:
(Start: 14 @4944 has 11 MA's), (25, 5277),

Gene: Raphaella_6 Start: 4952, Stop: 5458, Start Num: 14
Candidate Starts for Raphaella_6:
(13, 4949), (Start: 14 @4952 has 11 MA's), (22, 5261), (25, 5288), (27, 5312),

Gene: Richie_6 Start: 4952, Stop: 5458, Start Num: 14
Candidate Starts for Richie_6:
(13, 4949), (Start: 14 @4952 has 11 MA's), (22, 5261), (25, 5288), (27, 5312),

Gene: Sakai_6 Start: 4946, Stop: 5452, Start Num: 14
Candidate Starts for Sakai_6:
(13, 4943), (Start: 14 @4946 has 11 MA's), (20, 5228), (21, 5237), (27, 5306),

Gene: Sashimi_7 Start: 5113, Stop: 5619, Start Num: 14
Candidate Starts for Sashimi_7:
(13, 5110), (Start: 14 @5113 has 11 MA's), (21, 5404), (27, 5473),

Gene: Seahorse_7 Start: 5084, Stop: 5734, Start Num: 9
Candidate Starts for Seahorse_7:
(1, 4862), (2, 4916), (7, 5051), (Start: 9 @5084 has 3 MA's), (11, 5144), (Start: 14 @5180 has 11 MA's), (15, 5309), (16, 5324), (17, 5333), (23, 5546), (28, 5594), (29, 5603),

Gene: Tiff81_7 Start: 5109, Stop: 5615, Start Num: 14
Candidate Starts for Tiff81_7:
(3, 4854), (5, 4908), (13, 5106), (Start: 14 @5109 has 11 MA's), (20, 5391), (21, 5400), (27, 5469), (31, 5577),

Gene: YoungHarleezy_6 Start: 4950, Stop: 5456, Start Num: 14
Candidate Starts for YoungHarleezy_6:
(13, 4947), (Start: 14 @4950 has 11 MA's), (25, 5286), (27, 5310),

Gene: Zucker_6 Start: 4575, Stop: 5210, Start Num: 9
Candidate Starts for Zucker_6:
(4, 4467), (6, 4521), (Start: 9 @4575 has 3 MA's), (10, 4623), (11, 4635), (12, 4650), (13, 4668), (Start: 14 @4671 has 11 MA's), (15, 4767), (17, 4791),