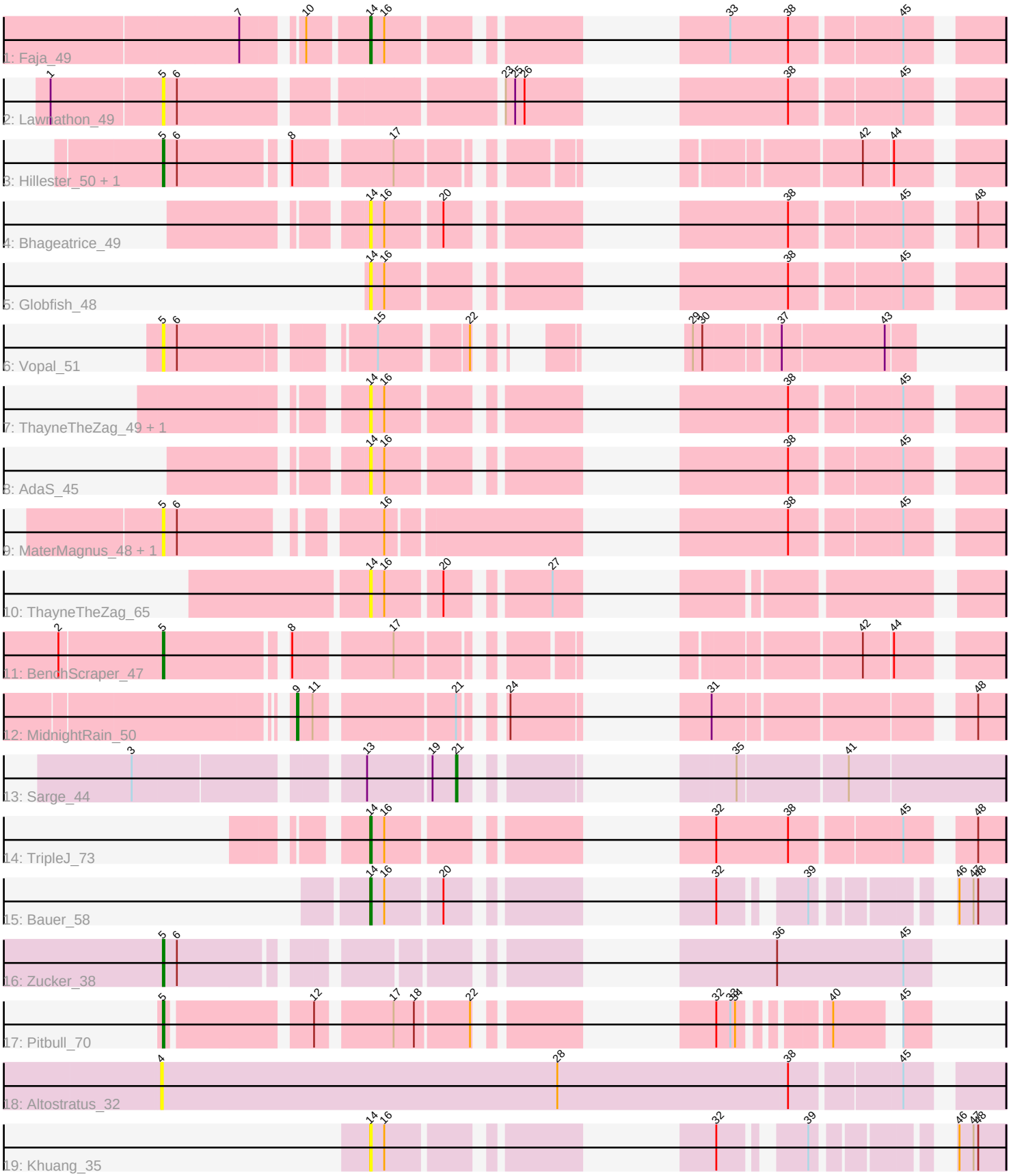
Pham 216550


1: Faja_49
2: Lawnathon_49
3: Hillester_50 + 1
4: Bhageatrice_49
5: Globfish_48
6: Vopal_51
7: ThayneTheZag_49 + 1
8: AdaS_45
9: MaterMagnus_48 + 1
10: ThayneTheZag_65
11: BenchScraper_47
12: MidnightRain_50
13: Sarge_44
14: TripleJ_73
15: Bauer_58
16: Zucker_38
17: Pitbull_70
18: Altostratus_32
19: Khuang_35

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 216550 Report

This analysis was run 02/22/25 on database version 588.

Pham number 216550 has 22 members, 13 are drafts.

Phages represented in each track:
• Track 1 : Faja_49
• Track 2 : Lawnathon_49
• Track 3 : Hillester_50, RadFad_50
• Track 4 : Bhageatrice_49
• Track 5 : Globfish_48
• Track 6 : Vopal_51
• Track 7 : ThayneTheZag_49, SpicyFrank_51
• Track 8 : AdaS_45
• Track 9 : MaterMagnus_48, Aikyam_46
• Track 10 : ThayneTheZag_65
• Track 11 : BenchScraper_47
• Track 12 : MidnightRain_50
• Track 13 : Sarge_44
• Track 14 : TripleJ_73
• Track 15 : Bauer_58
• Track 16 : Zucker_38
• Track 17 : Pitbull_70
• Track 18 : Altostratus_32
• Track 19 : Khuang_35

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

The start number called the most often in the published annotations is 5, it was called in 4 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Aikyam_46, BenchScraper_47, Hillester_50, Lawnathon_49, MaterMagnus_48, Pitbull_70, RadFad_50, Vopal_51, Zucker_38,

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

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

• AdaS_45, Altostratus_32, Bauer_58, Bhageatrice_49, Faja_49, Globfish_48, Khuang_35, MidnightRain_50, Sarge_44, SpicyFrank_51, ThayneTheZag_49, ThayneTheZag_65, TripleJ_73,

Summary by start number:

Start 4:
• Found in 1 of 22 (4.5%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Altostratus_32 (FS),

Start 5:
• Found in 9 of 22 (40.9%) of genes in pham
• Manual Annotations of this start: 4 of 9
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Aikyam_46 (AY), BenchScraper_47 (AY), Hillester_50 (AY), Lawnathon_49 (AY), MaterMagnus_48 (AY), Pitbull_70 (FQ), RadFad_50 (AY), Vopal_51 (AY), Zucker_38 (FN),

Start 9:
• Found in 1 of 22 (4.5%) of genes in pham
• Manual Annotations of this start: 1 of 9
• Called 100.0% of time when present
• Phage (with cluster) where this start called: MidnightRain_50 (AY),

Start 14:
• Found in 10 of 22 (45.5%) of genes in pham
• Manual Annotations of this start: 3 of 9
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AdaS_45 (AY), Bauer_58 (FN), Bhageatrice_49 (AY), Faja_49 (AY), Globfish_48 (AY), Khuang_35 (FS), SpicyFrank_51 (AY), ThayneTheZag_49 (AY), ThayneTheZag_65 (AY), TripleJ_73 (FJ),

Start 21:
• Found in 2 of 22 (9.1%) of genes in pham
• Manual Annotations of this start: 1 of 9
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Sarge_44 (FB),

Summary by clusters:

There are 6 clusters represented in this pham: FQ, FS, FB, AY, FJ, FN,

Info for manual annotations of cluster AY:
•Start number 5 was manually annotated 2 times for cluster AY.
•Start number 9 was manually annotated 1 time for cluster AY.
•Start number 14 was manually annotated 1 time for cluster AY.

Info for manual annotations of cluster FB:
•Start number 21 was manually annotated 1 time for cluster FB.

Info for manual annotations of cluster FJ:
•Start number 14 was manually annotated 1 time for cluster FJ.

Info for manual annotations of cluster FN:
•Start number 5 was manually annotated 1 time for cluster FN.
•Start number 14 was manually annotated 1 time for cluster FN.

Info for manual annotations of cluster FQ:
•Start number 5 was manually annotated 1 time for cluster FQ.

Gene Information:

Gene: AdaS_45 Start: 28504, Stop: 28803, Start Num: 14
Candidate Starts for AdaS_45:
(Start: 14 @28504 has 3 MA's), (16, 28513), (38, 28687), (45, 28753),

Gene: Aikyam_46 Start: 27868, Stop: 28284, Start Num: 5
Candidate Starts for Aikyam_46:
(Start: 5 @27868 has 4 MA's), (6, 27877), (16, 27982), (38, 28168), (45, 28234),

Gene: Altostratus_32 Start: 24188, Stop: 23673, Start Num: 4
Candidate Starts for Altostratus_32:
(4, 24188), (28, 23936), (38, 23789), (45, 23723),

Gene: Bauer_58 Start: 32955, Stop: 33227, Start Num: 14
Candidate Starts for Bauer_58:
(Start: 14 @32955 has 3 MA's), (16, 32964), (20, 32997), (32, 33093), (39, 33135), (46, 33198), (47, 33207), (48, 33210),

Gene: BenchScraper_47 Start: 29609, Stop: 30001, Start Num: 5
Candidate Starts for BenchScraper_47:
(2, 29546), (Start: 5 @29609 has 4 MA's), (8, 29678), (17, 29732), (42, 29927), (44, 29945),

Gene: Bhageatrice_49 Start: 31728, Stop: 32027, Start Num: 14
Candidate Starts for Bhageatrice_49:
(Start: 14 @31728 has 3 MA's), (16, 31737), (20, 31770), (38, 31911), (45, 31977), (48, 32010),

Gene: Faja_49 Start: 31772, Stop: 32071, Start Num: 14
Candidate Starts for Faja_49:
(7, 31706), (10, 31736), (Start: 14 @31772 has 3 MA's), (16, 31781), (33, 31919), (38, 31955), (45, 32021),

Gene: Globfish_48 Start: 30153, Stop: 30452, Start Num: 14
Candidate Starts for Globfish_48:
(Start: 14 @30153 has 3 MA's), (16, 30162), (38, 30336), (45, 30402),

Gene: Hillester_50 Start: 30882, Stop: 31274, Start Num: 5
Candidate Starts for Hillester_50:
(Start: 5 @30882 has 4 MA's), (6, 30891), (8, 30951), (17, 31005), (42, 31200), (44, 31218),

Gene: Khuang_35 Start: 24689, Stop: 24417, Start Num: 14
Candidate Starts for Khuang_35:
(Start: 14 @24689 has 3 MA's), (16, 24680), (32, 24551), (39, 24509), (46, 24446), (47, 24437), (48, 24434),

Gene: Lawnathon_49 Start: 30170, Stop: 30592, Start Num: 5
Candidate Starts for Lawnathon_49:
(1, 30101), (Start: 5 @30170 has 4 MA's), (6, 30179), (23, 30359), (25, 30365), (26, 30371), (38, 30476), (45, 30542),

Gene: MaterMagnus_48 Start: 30040, Stop: 30456, Start Num: 5
Candidate Starts for MaterMagnus_48:
(Start: 5 @30040 has 4 MA's), (6, 30049), (16, 30154), (38, 30340), (45, 30406),

Gene: MidnightRain_50 Start: 31295, Stop: 31621, Start Num: 9
Candidate Starts for MidnightRain_50:
(Start: 9 @31295 has 1 MA's), (11, 31304), (Start: 21 @31382 has 1 MA's), (24, 31397), (31, 31460), (48, 31604),

Gene: Pitbull_70 Start: 37588, Stop: 37938, Start Num: 5
Candidate Starts for Pitbull_70:
(Start: 5 @37588 has 4 MA's), (12, 37669), (17, 37711), (18, 37723), (22, 37756), (32, 37834), (33, 37843), (34, 37846), (40, 37888), (45, 37921),

Gene: RadFad_50 Start: 30882, Stop: 31274, Start Num: 5
Candidate Starts for RadFad_50:
(Start: 5 @30882 has 4 MA's), (6, 30891), (8, 30951), (17, 31005), (42, 31200), (44, 31218),

Gene: Sarge_44 Start: 27015, Stop: 27275, Start Num: 21
Candidate Starts for Sarge_44:
(3, 26832), (13, 26961), (19, 27000), (Start: 21 @27015 has 1 MA's), (35, 27111), (41, 27177),

Gene: SpicyFrank_51 Start: 30836, Stop: 31135, Start Num: 14
Candidate Starts for SpicyFrank_51:
(Start: 14 @30836 has 3 MA's), (16, 30845), (38, 31019), (45, 31085),

Gene: ThayneTheZag_49 Start: 30180, Stop: 30479, Start Num: 14
Candidate Starts for ThayneTheZag_49:
(Start: 14 @30180 has 3 MA's), (16, 30189), (38, 30363), (45, 30429),

Gene: ThayneTheZag_65 Start: 34279, Stop: 34572, Start Num: 14
Candidate Starts for ThayneTheZag_65:
(Start: 14 @34279 has 3 MA's), (16, 34288), (20, 34321), (27, 34375),

Gene: TripleJ_73 Start: 41236, Stop: 41535, Start Num: 14
Candidate Starts for TripleJ_73:
(Start: 14 @41236 has 3 MA's), (16, 41245), (32, 41374), (38, 41419), (45, 41485), (48, 41518),

Gene: Vopal_51 Start: 33363, Stop: 33689, Start Num: 5
Candidate Starts for Vopal_51:
(Start: 5 @33363 has 4 MA's), (6, 33372), (15, 33474), (22, 33525), (29, 33558), (30, 33564), (37, 33609), (43, 33672),

Gene: Zucker_38 Start: 28357, Stop: 28737, Start Num: 5
Candidate Starts for Zucker_38:
(Start: 5 @28357 has 4 MA's), (6, 28366), (36, 28639), (45, 28720),