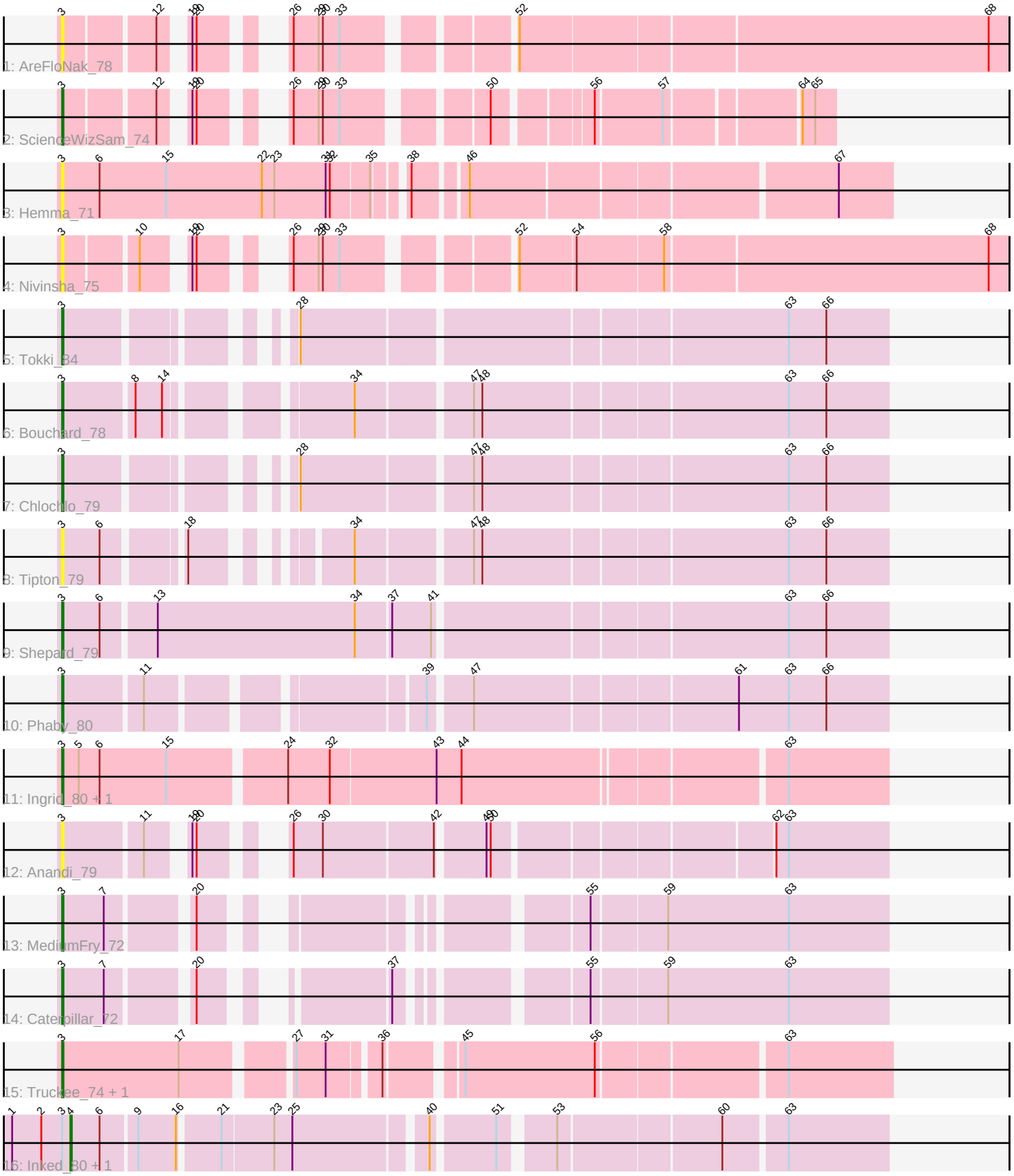
Pham 280915


1: AreFloNak_78
2: ScienceWizSam_74
3: Hemma_71
4: Nivinsha_75
5: Tokki_84
6: Bouchard_78
7: Chlochllo_79
8: Tipton_79
9: Shepard_79
10: Phaby_80
11: Ingrid_80 + 1
12: Anandi_79
13: MediumFry_72
14: Caterpillar_72
15: Truckee_74 + 1
16: Inked_80 + 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 280915 Report

This analysis was run 02/07/26 on database version 634.

Pham number 280915 has 19 members, 5 are drafts.

Phages represented in each track:
• Track 1 : AreFloNak_78
• Track 2 : ScienceWizSam_74
• Track 3 : Hemma_71
• Track 4 : Nivinsha_75
• Track 5 : Tokki_84
• Track 6 : Bouchard_78
• Track 7 : Chlochlo_79
• Track 8 : Tipton_79
• Track 9 : Shepard_79
• Track 10 : Phaby_80
• Track 11 : Ingrid_80, Loretta_76
• Track 12 : Anandi_79
• Track 13 : MediumFry_72
• Track 14 : Caterpillar_72
• Track 15 : Truckee_74, Makai_76
• Track 16 : Inked_80, Zippen_80

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

The start number called the most often in the published annotations is 3, it was called in 12 of the 14 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Anandi_79, AreFloNak_78, Bouchard_78, Caterpillar_72, Chlochlo_79, Hemma_71, Ingrid_80, Loretta_76, Makai_76, MediumFry_72, Nivinsha_75, Phaby_80, ScienceWizSam_74, Shepard_79, Tipton_79, Tokki_84, Truckee_74,

Genes that have the "Most Annotated" start but do not call it:
• Inked_80, Zippen_80,

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

Summary by start number:

Start 3:
• Found in 19 of 19 (100.0%) of genes in pham
• Manual Annotations of this start: 12 of 14
• Called 89.5% of time when present
• Phage (with cluster) where this start called: Anandi_79 (AU4), AreFloNak_78 (AU1), Bouchard_78 (AU2), Caterpillar_72 (AU4), Chlochlo_79 (AU2), Hemma_71 (AU1), Ingrid_80 (AU3), Loretta_76 (AU3), Makai_76 (AU5), MediumFry_72 (AU4), Nivinsha_75 (AU1), Phaby_80 (AU2), ScienceWizSam_74 (AU1), Shepard_79 (AU2), Tipton_79 (AU2), Tokki_84 (AU2), Truckee_74 (AU5),

Start 4:
• Found in 2 of 19 (10.5%) of genes in pham
• Manual Annotations of this start: 2 of 14
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Inked_80 (AU7), Zippen_80 (AU7),

Summary by clusters:

There are 6 clusters represented in this pham: AU1, AU3, AU2, AU5, AU4, AU7,

Info for manual annotations of cluster AU1:
•Start number 3 was manually annotated 1 time for cluster AU1.

Info for manual annotations of cluster AU2:
•Start number 3 was manually annotated 5 times for cluster AU2.

Info for manual annotations of cluster AU3:
•Start number 3 was manually annotated 2 times for cluster AU3.

Info for manual annotations of cluster AU4:
•Start number 3 was manually annotated 2 times for cluster AU4.

Info for manual annotations of cluster AU5:
•Start number 3 was manually annotated 2 times for cluster AU5.

Info for manual annotations of cluster AU7:
•Start number 4 was manually annotated 2 times for cluster AU7.

Gene Information:

Gene: Anandi_79 Start: 49877, Stop: 50383, Start Num: 3
Candidate Starts for Anandi_79:
(Start: 3 @49877 has 12 MA's), (11, 49931), (19, 49952), (20, 49955), (26, 49991), (30, 50012), (42, 50087), (49, 50117), (50, 50120), (62, 50303), (63, 50312),

Gene: AreFloNak_78 Start: 49169, Stop: 49750, Start Num: 3
Candidate Starts for AreFloNak_78:
(Start: 3 @49169 has 12 MA's), (12, 49229), (19, 49241), (20, 49244), (26, 49280), (29, 49298), (30, 49301), (33, 49313), (52, 49412), (68, 49736),

Gene: Bouchard_78 Start: 49712, Stop: 50248, Start Num: 3
Candidate Starts for Bouchard_78:
(Start: 3 @49712 has 12 MA's), (8, 49760), (14, 49778), (34, 49886), (47, 49961), (48, 49967), (63, 50177), (66, 50204),

Gene: Caterpillar_72 Start: 48414, Stop: 48908, Start Num: 3
Candidate Starts for Caterpillar_72:
(Start: 3 @48414 has 12 MA's), (7, 48444), (20, 48495), (37, 48591), (55, 48699), (59, 48750), (63, 48837),

Gene: Chlochlo_79 Start: 49260, Stop: 49781, Start Num: 3
Candidate Starts for Chlochlo_79:
(Start: 3 @49260 has 12 MA's), (28, 49380), (47, 49494), (48, 49500), (63, 49710), (66, 49737),

Gene: Hemma_71 Start: 46968, Stop: 47525, Start Num: 3
Candidate Starts for Hemma_71:
(Start: 3 @46968 has 12 MA's), (6, 46995), (15, 47043), (22, 47112), (23, 47121), (31, 47157), (32, 47160), (35, 47187), (38, 47205), (46, 47238), (67, 47487),

Gene: Ingrid_80 Start: 49504, Stop: 50070, Start Num: 3
Candidate Starts for Ingrid_80:
(Start: 3 @49504 has 12 MA's), (5, 49516), (6, 49531), (15, 49579), (24, 49657), (32, 49687), (43, 49762), (44, 49780), (63, 49999),

Gene: Inked_80 Start: 50253, Stop: 50783, Start Num: 4
Candidate Starts for Inked_80:
(1, 50211), (2, 50232), (Start: 3 @50247 has 12 MA's), (Start: 4 @50253 has 2 MA's), (6, 50274), (9, 50298), (16, 50325), (21, 50352), (23, 50388), (25, 50400), (40, 50487), (51, 50526), (53, 50559), (60, 50670), (63, 50712),

Gene: Loretta_76 Start: 49504, Stop: 50070, Start Num: 3
Candidate Starts for Loretta_76:
(Start: 3 @49504 has 12 MA's), (5, 49516), (6, 49531), (15, 49579), (24, 49657), (32, 49687), (43, 49762), (44, 49780), (63, 49999),

Gene: Makai_76 Start: 49694, Stop: 50239, Start Num: 3
Candidate Starts for Makai_76:
(Start: 3 @49694 has 12 MA's), (17, 49778), (27, 49847), (31, 49868), (36, 49901), (45, 49946), (56, 50039), (63, 50165),

Gene: MediumFry_72 Start: 48931, Stop: 49428, Start Num: 3
Candidate Starts for MediumFry_72:
(Start: 3 @48931 has 12 MA's), (7, 48961), (20, 49012), (55, 49219), (59, 49270), (63, 49357),

Gene: Nivinsha_75 Start: 49169, Stop: 49750, Start Num: 3
Candidate Starts for Nivinsha_75:
(Start: 3 @49169 has 12 MA's), (10, 49217), (19, 49241), (20, 49244), (26, 49280), (29, 49298), (30, 49301), (33, 49313), (52, 49412), (54, 49451), (58, 49511), (68, 49736),

Gene: Phaby_80 Start: 49914, Stop: 50453, Start Num: 3
Candidate Starts for Phaby_80:
(Start: 3 @49914 has 12 MA's), (11, 49968), (39, 50139), (47, 50166), (61, 50346), (63, 50382), (66, 50409),

Gene: ScienceWizSam_74 Start: 49305, Stop: 49745, Start Num: 3
Candidate Starts for ScienceWizSam_74:
(Start: 3 @49305 has 12 MA's), (12, 49365), (19, 49377), (20, 49380), (26, 49416), (29, 49434), (30, 49437), (33, 49449), (50, 49533), (56, 49593), (57, 49638), (64, 49722), (65, 49731),

Gene: Shepard_79 Start: 49287, Stop: 49853, Start Num: 3
Candidate Starts for Shepard_79:
(Start: 3 @49287 has 12 MA's), (6, 49314), (13, 49350), (34, 49491), (37, 49515), (41, 49542), (63, 49782), (66, 49809),

Gene: Tipton_79 Start: 49814, Stop: 50329, Start Num: 3
Candidate Starts for Tipton_79:
(Start: 3 @49814 has 12 MA's), (6, 49841), (18, 49889), (34, 49967), (47, 50042), (48, 50048), (63, 50258), (66, 50285),

Gene: Tokki_84 Start: 49757, Stop: 50278, Start Num: 3
Candidate Starts for Tokki_84:
(Start: 3 @49757 has 12 MA's), (28, 49877), (63, 50207), (66, 50234),

Gene: Truckee_74 Start: 49479, Stop: 50024, Start Num: 3
Candidate Starts for Truckee_74:
(Start: 3 @49479 has 12 MA's), (17, 49563), (27, 49632), (31, 49653), (36, 49686), (45, 49731), (56, 49824), (63, 49950),

Gene: Zippen_80 Start: 50127, Stop: 50657, Start Num: 4
Candidate Starts for Zippen_80:
(1, 50085), (2, 50106), (Start: 3 @50121 has 12 MA's), (Start: 4 @50127 has 2 MA's), (6, 50148), (9, 50172), (16, 50199), (21, 50226), (23, 50262), (25, 50274), (40, 50361), (51, 50400), (53, 50433), (60, 50544), (63, 50586),