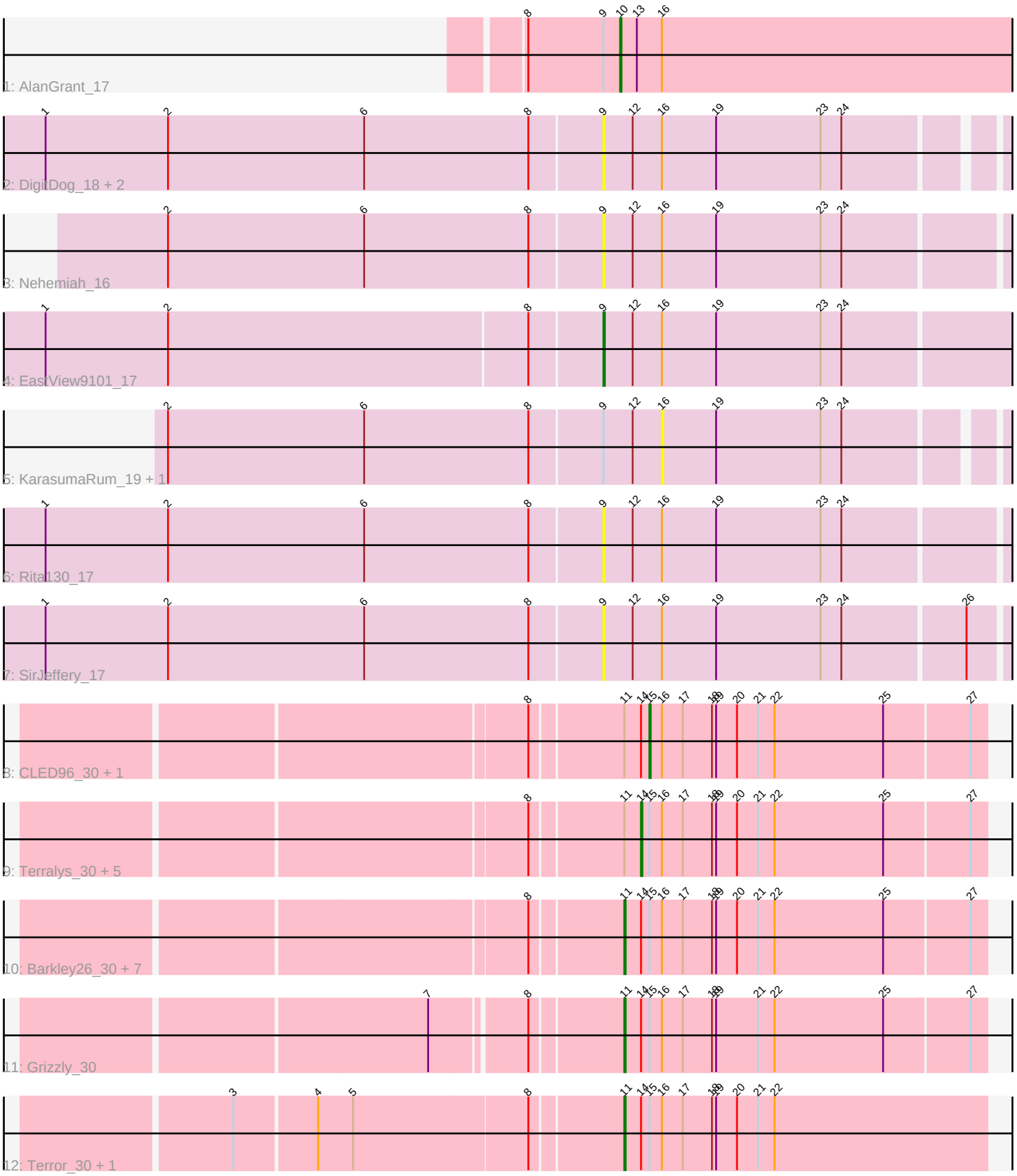
Pham 347922


1: AlanGrant_17
2: DigitDog_18 + 2
3: Nehemiah_16
4: EastView9101_17
5: KarasumaRum_19 + 1
6: Rita130_17
7: SirJeffery_17
8: CLED96_30 + 1
9: Terralys_30 + 5
10: Barkley26_30 + 7
11: Grizzly_30
12: Terror_30 + 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 347922 Report

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

Pham number 347922 has 29 members, 12 are drafts.

Phages represented in each track:
• Track 1 : AlanGrant_17
• Track 2 : DigitDog_18, Nangang_17, Shenyu_17
• Track 3 : Nehemiah_16
• Track 4 : EastView9101_17
• Track 5 : KarasumaRum_19, StinkyVeggy_19
• Track 6 : Rita130_17
• Track 7 : SirJeffery_17
• Track 8 : CLED96_30, AizenPogi_30
• Track 9 : Terralys_30, Primanti_30, ForeverHowLong_30, Phish_30, AzulaCat_30, Crespo_30
• Track 10 : Barkley26_30, Cedasite_30, Kasen3_30, DNAIII_0030, Sweets_30, Hotshotbaby7_30, Olga_30, Camri_30
• Track 11 : Grizzly_30
• Track 12 : Terror_30, Taheera_30

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

The start number called the most often in the published annotations is 11, it was called in 11 of the 17 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Barkley26_30, Camri_30, Cedasite_30, DNAIII_0030, Grizzly_30, Hotshotbaby7_30, Kasen3_30, Olga_30, Sweets_30, Taheera_30, Terror_30,

Genes that have the "Most Annotated" start but do not call it:
• AizenPogi_30, AzulaCat_30, CLED96_30, Crespo_30, ForeverHowLong_30, Phish_30, Primanti_30, Terralys_30,

Genes that do not have the "Most Annotated" start:
• AlanGrant_17, DigitDog_18, EastView9101_17, KarasumaRum_19, Nangang_17, Nehemiah_16, Rita130_17, Shenyu_17, SirJeffery_17, StinkyVeggy_19,

Summary by start number:

Start 9:
• Found in 10 of 29 (34.5%) of genes in pham
• Manual Annotations of this start: 1 of 17
• Called 70.0% of time when present
• Phage (with cluster) where this start called: DigitDog_18 (B5), EastView9101_17 (B5), Nangang_17 (B5), Nehemiah_16 (B5), Rita130_17 (B5), Shenyu_17 (B5), SirJeffery_17 (B5),

Start 10:
• Found in 1 of 29 (3.4%) of genes in pham
• Manual Annotations of this start: 1 of 17
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AlanGrant_17 (B4),

Start 11:
• Found in 19 of 29 (65.5%) of genes in pham
• Manual Annotations of this start: 11 of 17
• Called 57.9% of time when present
• Phage (with cluster) where this start called: Barkley26_30 (G1), Camri_30 (G1), Cedasite_30 (G1), DNAIII_0030 (G1), Grizzly_30 (G1), Hotshotbaby7_30 (G1), Kasen3_30 (G1), Olga_30 (G1), Sweets_30 (G1), Taheera_30 (G1), Terror_30 (G1),

Start 14:
• Found in 19 of 29 (65.5%) of genes in pham
• Manual Annotations of this start: 3 of 17
• Called 31.6% of time when present
• Phage (with cluster) where this start called: AzulaCat_30 (G1), Crespo_30 (G1), ForeverHowLong_30 (G1), Phish_30 (G1), Primanti_30 (G1), Terralys_30 (G1),

Start 15:
• Found in 19 of 29 (65.5%) of genes in pham
• Manual Annotations of this start: 1 of 17
• Called 10.5% of time when present
• Phage (with cluster) where this start called: AizenPogi_30 (G1), CLED96_30 (G1),

Start 16:
• Found in 29 of 29 (100.0%) of genes in pham
• No Manual Annotations of this start.
• Called 6.9% of time when present
• Phage (with cluster) where this start called: KarasumaRum_19 (B5), StinkyVeggy_19 (B5),

Summary by clusters:

There are 3 clusters represented in this pham: B4, B5, G1,

Info for manual annotations of cluster B4:
•Start number 10 was manually annotated 1 time for cluster B4.

Info for manual annotations of cluster B5:
•Start number 9 was manually annotated 1 time for cluster B5.

Info for manual annotations of cluster G1:

•Start number 11 was manually annotated 11 times for cluster G1.
•Start number 14 was manually annotated 3 times for cluster G1.
•Start number 15 was manually annotated 1 time for cluster G1.

Gene Information:

Gene: AizenPogi_30 Start: 26871, Stop: 27110, Start Num: 15
Candidate Starts for AizenPogi_30:
(8, 26790), (Start: 11 @26853 has 11 MA's), (Start: 14 @26865 has 3 MA's), (Start: 15 @26871 has 1 MA's), (16, 26880), (17, 26895), (18, 26916), (19, 26919), (20, 26934), (21, 26949), (22, 26961), (25, 27039), (27, 27099),

Gene: AlanGrant_17 Start: 16219, Stop: 16518, Start Num: 10
Candidate Starts for AlanGrant_17:
(8, 16153), (Start: 9 @16207 has 1 MA's), (Start: 10 @16219 has 1 MA's), (13, 16231), (16, 16249),

Gene: AzulaCat_30 Start: 26865, Stop: 27110, Start Num: 14
Candidate Starts for AzulaCat_30:
(8, 26790), (Start: 11 @26853 has 11 MA's), (Start: 14 @26865 has 3 MA's), (Start: 15 @26871 has 1 MA's), (16, 26880), (17, 26895), (18, 26916), (19, 26919), (20, 26934), (21, 26949), (22, 26961), (25, 27039), (27, 27099),

Gene: Barkley26_30 Start: 26875, Stop: 27132, Start Num: 11
Candidate Starts for Barkley26_30:
(8, 26812), (Start: 11 @26875 has 11 MA's), (Start: 14 @26887 has 3 MA's), (Start: 15 @26893 has 1 MA's), (16, 26902), (17, 26917), (18, 26938), (19, 26941), (20, 26956), (21, 26971), (22, 26983), (25, 27061), (27, 27121),

Gene: CLED96_30 Start: 26871, Stop: 27110, Start Num: 15
Candidate Starts for CLED96_30:
(8, 26790), (Start: 11 @26853 has 11 MA's), (Start: 14 @26865 has 3 MA's), (Start: 15 @26871 has 1 MA's), (16, 26880), (17, 26895), (18, 26916), (19, 26919), (20, 26934), (21, 26949), (22, 26961), (25, 27039), (27, 27099),

Gene: Camri_30 Start: 26853, Stop: 27110, Start Num: 11
Candidate Starts for Camri_30:
(8, 26790), (Start: 11 @26853 has 11 MA's), (Start: 14 @26865 has 3 MA's), (Start: 15 @26871 has 1 MA's), (16, 26880), (17, 26895), (18, 26916), (19, 26919), (20, 26934), (21, 26949), (22, 26961), (25, 27039), (27, 27099),

Gene: Cedasite_30 Start: 26853, Stop: 27110, Start Num: 11
Candidate Starts for Cedasite_30:
(8, 26790), (Start: 11 @26853 has 11 MA's), (Start: 14 @26865 has 3 MA's), (Start: 15 @26871 has 1 MA's), (16, 26880), (17, 26895), (18, 26916), (19, 26919), (20, 26934), (21, 26949), (22, 26961), (25, 27039), (27, 27099),

Gene: Crespo_30 Start: 26866, Stop: 27111, Start Num: 14
Candidate Starts for Crespo_30:
(8, 26791), (Start: 11 @26854 has 11 MA's), (Start: 14 @26866 has 3 MA's), (Start: 15 @26872 has 1 MA's), (16, 26881), (17, 26896), (18, 26917), (19, 26920), (20, 26935), (21, 26950), (22, 26962), (25, 27040), (27, 27100),

Gene: DNAIII_0030 Start: 26604, Stop: 26861, Start Num: 11
Candidate Starts for DNAIII_0030:
(8, 26541), (Start: 11 @26604 has 11 MA's), (Start: 14 @26616 has 3 MA's), (Start: 15 @26622 has 1 MA's), (16, 26631), (17, 26646), (18, 26667), (19, 26670), (20, 26685), (21, 26700), (22, 26712), (25, 26790), (27, 26850),

Gene: DigitDog_18 Start: 15284, Stop: 15568, Start Num: 9
Candidate Starts for DigitDog_18:
(1, 14888), (2, 14975), (6, 15116), (8, 15233), (Start: 9 @15284 has 1 MA's), (12, 15305), (16, 15326), (19, 15365), (23, 15440), (24, 15455),

Gene: EastView9101_17 Start: 15313, Stop: 15612, Start Num: 9
Candidate Starts for EastView9101_17:
(1, 14920), (2, 15007), (8, 15262), (Start: 9 @15313 has 1 MA's), (12, 15334), (16, 15355), (19, 15394), (23, 15469), (24, 15484),

Gene: ForeverHowLong_30 Start: 26860, Stop: 27105, Start Num: 14
Candidate Starts for ForeverHowLong_30:
(8, 26785), (Start: 11 @26848 has 11 MA's), (Start: 14 @26860 has 3 MA's), (Start: 15 @26866 has 1 MA's), (16, 26875), (17, 26890), (18, 26911), (19, 26914), (20, 26929), (21, 26944), (22, 26956), (25, 27034), (27, 27094),

Gene: Grizzly_30 Start: 26853, Stop: 27110, Start Num: 11
Candidate Starts for Grizzly_30:
(7, 26727), (8, 26790), (Start: 11 @26853 has 11 MA's), (Start: 14 @26865 has 3 MA's), (Start: 15 @26871 has 1 MA's), (16, 26880), (17, 26895), (18, 26916), (19, 26919), (21, 26949), (22, 26961), (25, 27039), (27, 27099),

Gene: Hotshotbaby7_30 Start: 26853, Stop: 27110, Start Num: 11
Candidate Starts for Hotshotbaby7_30:
(8, 26790), (Start: 11 @26853 has 11 MA's), (Start: 14 @26865 has 3 MA's), (Start: 15 @26871 has 1 MA's), (16, 26880), (17, 26895), (18, 26916), (19, 26919), (20, 26934), (21, 26949), (22, 26961), (25, 27039), (27, 27099),

Gene: KarasumaRum_19 Start: 15482, Stop: 15724, Start Num: 16
Candidate Starts for KarasumaRum_19:
(2, 15131), (6, 15272), (8, 15389), (Start: 9 @15440 has 1 MA's), (12, 15461), (16, 15482), (19, 15521), (23, 15596), (24, 15611),

Gene: Kasen3_30 Start: 26854, Stop: 27111, Start Num: 11
Candidate Starts for Kasen3_30:
(8, 26791), (Start: 11 @26854 has 11 MA's), (Start: 14 @26866 has 3 MA's), (Start: 15 @26872 has 1 MA's), (16, 26881), (17, 26896), (18, 26917), (19, 26920), (20, 26935), (21, 26950), (22, 26962), (25, 27040), (27, 27100),

Gene: Nangang_17 Start: 15284, Stop: 15568, Start Num: 9
Candidate Starts for Nangang_17:
(1, 14888), (2, 14975), (6, 15116), (8, 15233), (Start: 9 @15284 has 1 MA's), (12, 15305), (16, 15326), (19, 15365), (23, 15440), (24, 15455),

Gene: Nehemiah_16 Start: 15551, Stop: 15844, Start Num: 9
Candidate Starts for Nehemiah_16:

(2, 15242), (6, 15383), (8, 15500), (Start: 9 @15551 has 1 MA's), (12, 15572), (16, 15593), (19, 15632), (23, 15707), (24, 15722),

Gene: Olga_30 Start: 26853, Stop: 27110, Start Num: 11
Candidate Starts for Olga_30:
(8, 26790), (Start: 11 @26853 has 11 MA's), (Start: 14 @26865 has 3 MA's), (Start: 15 @26871 has 1 MA's), (16, 26880), (17, 26895), (18, 26916), (19, 26919), (20, 26934), (21, 26949), (22, 26961), (25, 27039), (27, 27099),

Gene: Phish_30 Start: 26865, Stop: 27110, Start Num: 14
Candidate Starts for Phish_30:
(8, 26790), (Start: 11 @26853 has 11 MA's), (Start: 14 @26865 has 3 MA's), (Start: 15 @26871 has 1 MA's), (16, 26880), (17, 26895), (18, 26916), (19, 26919), (20, 26934), (21, 26949), (22, 26961), (25, 27039), (27, 27099),

Gene: Primanti_30 Start: 26865, Stop: 27110, Start Num: 14
Candidate Starts for Primanti_30:
(8, 26790), (Start: 11 @26853 has 11 MA's), (Start: 14 @26865 has 3 MA's), (Start: 15 @26871 has 1 MA's), (16, 26880), (17, 26895), (18, 26916), (19, 26919), (20, 26934), (21, 26949), (22, 26961), (25, 27039), (27, 27099),

Gene: Rita130_17 Start: 15309, Stop: 15602, Start Num: 9
Candidate Starts for Rita130_17:
(1, 14913), (2, 15000), (6, 15141), (8, 15258), (Start: 9 @15309 has 1 MA's), (12, 15330), (16, 15351), (19, 15390), (23, 15465), (24, 15480),

Gene: Shenyu_17 Start: 15284, Stop: 15568, Start Num: 9
Candidate Starts for Shenyu_17:
(1, 14888), (2, 14975), (6, 15116), (8, 15233), (Start: 9 @15284 has 1 MA's), (12, 15305), (16, 15326), (19, 15365), (23, 15440), (24, 15455),

Gene: SirJeffery_17 Start: 15310, Stop: 15603, Start Num: 9
Candidate Starts for SirJeffery_17:
(1, 14914), (2, 15001), (6, 15142), (8, 15259), (Start: 9 @15310 has 1 MA's), (12, 15331), (16, 15352), (19, 15391), (23, 15466), (24, 15481), (26, 15565),

Gene: StinkyVeggy_19 Start: 15482, Stop: 15724, Start Num: 16
Candidate Starts for StinkyVeggy_19:
(2, 15131), (6, 15272), (8, 15389), (Start: 9 @15440 has 1 MA's), (12, 15461), (16, 15482), (19, 15521), (23, 15596), (24, 15611),

Gene: Sweets_30 Start: 26848, Stop: 27105, Start Num: 11
Candidate Starts for Sweets_30:
(8, 26785), (Start: 11 @26848 has 11 MA's), (Start: 14 @26860 has 3 MA's), (Start: 15 @26866 has 1 MA's), (16, 26875), (17, 26890), (18, 26911), (19, 26914), (20, 26929), (21, 26944), (22, 26956), (25, 27034), (27, 27094),

Gene: Taheera_30 Start: 26974, Stop: 27234, Start Num: 11
Candidate Starts for Taheera_30:
(3, 26707), (4, 26764), (5, 26788), (8, 26911), (Start: 11 @26974 has 11 MA's), (Start: 14 @26986 has 3 MA's), (Start: 15 @26992 has 1 MA's), (16, 27001), (17, 27016), (18, 27037), (19, 27040), (20, 27055), (21, 27070), (22, 27082),

Gene: Terralys_30 Start: 26865, Stop: 27110, Start Num: 14
Candidate Starts for Terralys_30:
(8, 26790), (Start: 11 @26853 has 11 MA's), (Start: 14 @26865 has 3 MA's), (Start: 15 @26871 has 1 MA's), (16, 26880), (17, 26895), (18, 26916), (19, 26919), (20, 26934), (21, 26949), (22, 26961), (25, 27039), (27, 27099),

Gene: Terror_30 Start: 26974, Stop: 27234, Start Num: 11
Candidate Starts for Terror_30:
(3, 26707), (4, 26764), (5, 26788), (8, 26911), (Start: 11 @26974 has 11 MA's), (Start: 14 @26986 has 3 MA's), (Start: 15 @26992 has 1 MA's), (16, 27001), (17, 27016), (18, 27037), (19, 27040), (20, 27055), (21, 27070), (22, 27082),