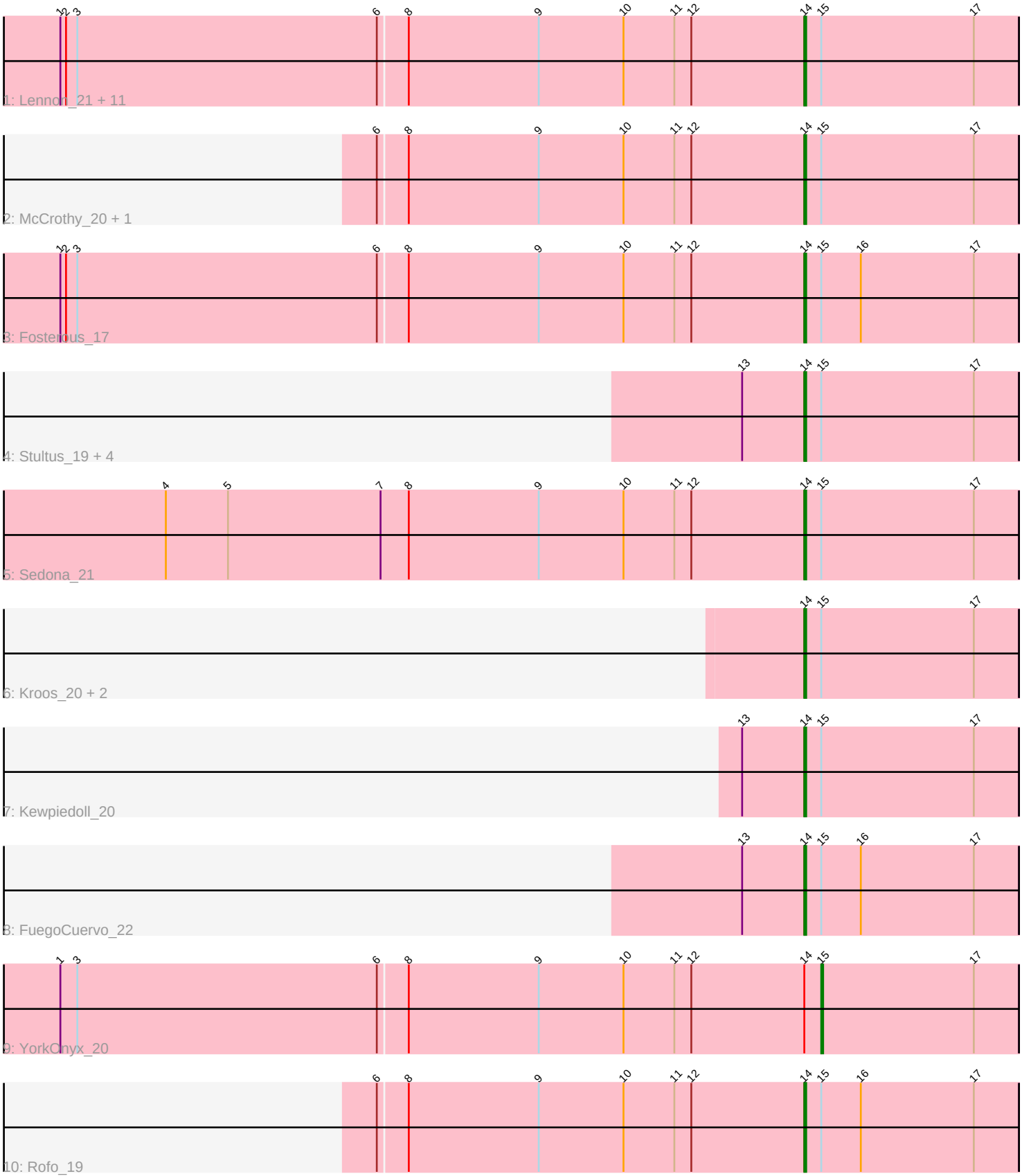
Pham 344288


1: Lennon_21 + 11
2: McCrothy_20 + 1
3: Fosterous_17
4: Stultus_19 + 4
5: Sedona_21
6: Kroos_20 + 2
7: Kewpiedoll_20
8: FuegoCuervo_22
9: YorkOnyx_20
10: Rofo_19

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 344288 Report

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

Pham number 344288 has 28 members, 2 are drafts.

Phages represented in each track:
• Track 1 : Lennon_21, Paries_20, Bibwit_20, Love_21, Vivi2_19, Barsten_20, Sitar_21, Nordenberg_14, Tangent_17, Keitabear_21, Charming_17, BobBob_17
• Track 2 : McCrothy_20, Galadriel_21
• Track 3 : Fosterous_17
• Track 4 : Stultus_19, Brawn1_17, Geodirt_18, Sanjuju_17, Jabberwocky_17
• Track 5 : Sedona_21
• Track 6 : Kroos_20, Kwobi_21, Ribeye_20
• Track 7 : Kewpiedoll_20
• Track 8 : FuegoCuervo_22
• Track 9 : YorkOnyx_20
• Track 10 : Rofo_19

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 25 of the 26 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Barsten_20, Bibwit_20, BobBob_17, Brawn1_17, Charming_17, Fosterous_17, FuegoCuervo_22, Galadriel_21, Geodirt_18, Jabberwocky_17, Keitabear_21, Kewpiedoll_20, Kroos_20, Kwobi_21, Lennon_21, Love_21, McCrothy_20, Nordenberg_14, Paries_20, Ribeye_20, Rofo_19, Sanjuju_17, Sedona_21, Sitar_21, Stultus_19, Tangent_17, Vivi2_19,

Genes that have the "Most Annotated" start but do not call it:
• YorkOnyx_20,

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

Summary by start number:

Start 14:
• Found in 28 of 28 (100.0%) of genes in pham

• Manual Annotations of this start: 25 of 26
• Called 96.4% of time when present
• Phage (with cluster) where this start called: Barsten_20 (DE1), Bibwit_20 (DE1), BobBob_17 (DE1), Brawn1_17 (DE1), Charming_17 (DE1), Fosterous_17 (DE1), FuegoCuervo_22 (DE1), Galadriel_21 (DE1), Geodirt_18 (DE1), Jabberwocky_17 (DE1), Keitabear_21 (DE1), Kewpiedoll_20 (DE1), Kroos_20 (DE1), Kwobi_21 (DE1), Lennon_21 (DE1), Love_21 (DE1), McCrothy_20 (DE1), Nordenberg_14 (DE1), Paries_20 (DE1), Ribeye_20 (DE1), Rofo_19 (DE1), Sanjuju_17 (DE1), Sedona_21 (DE1), Sitar_21 (DE1), Stultus_19 (DE1), Tangent_17 (DE1), Vivi2_19 (DE1),

Start 15:
• Found in 28 of 28 (100.0%) of genes in pham
• Manual Annotations of this start: 1 of 26
• Called 3.6% of time when present
• Phage (with cluster) where this start called: YorkOnyx_20 (DE1),

Summary by clusters:

There is one cluster represented in this pham: DE1

Info for manual annotations of cluster DE1:
•Start number 14 was manually annotated 25 times for cluster DE1.
•Start number 15 was manually annotated 1 time for cluster DE1.

Gene Information:

Gene: Barsten_20 Start: 15061, Stop: 15174, Start Num: 14
Candidate Starts for Barsten_20:
(1, 14668), (2, 14671), (3, 14677), (6, 14836), (8, 14851), (9, 14920), (10, 14965), (11, 14992), (12, 15001), (Start: 14 @15061 has 25 MA's), (Start: 15 @15070 has 1 MA's), (17, 15151),

Gene: Bibwit_20 Start: 15305, Stop: 15418, Start Num: 14
Candidate Starts for Bibwit_20:
(1, 14912), (2, 14915), (3, 14921), (6, 15080), (8, 15095), (9, 15164), (10, 15209), (11, 15236), (12, 15245), (Start: 14 @15305 has 25 MA's), (Start: 15 @15314 has 1 MA's), (17, 15395),

Gene: BobBob_17 Start: 13915, Stop: 14028, Start Num: 14
Candidate Starts for BobBob_17:
(1, 13522), (2, 13525), (3, 13531), (6, 13690), (8, 13705), (9, 13774), (10, 13819), (11, 13846), (12, 13855), (Start: 14 @13915 has 25 MA's), (Start: 15 @13924 has 1 MA's), (17, 14005),

Gene: Brawn1_17 Start: 14290, Stop: 14403, Start Num: 14
Candidate Starts for Brawn1_17:
(13, 14257), (Start: 14 @14290 has 25 MA's), (Start: 15 @14299 has 1 MA's), (17, 14380),

Gene: Charming_17 Start: 13917, Stop: 14030, Start Num: 14
Candidate Starts for Charming_17:
(1, 13524), (2, 13527), (3, 13533), (6, 13692), (8, 13707), (9, 13776), (10, 13821), (11, 13848), (12, 13857), (Start: 14 @13917 has 25 MA's), (Start: 15 @13926 has 1 MA's), (17, 14007),

Gene: Fosterous_17 Start: 14806, Stop: 14919, Start Num: 14

Candidate Starts for Fosterous_17:
(1, 14413), (2, 14416), (3, 14422), (6, 14581), (8, 14596), (9, 14665), (10, 14710), (11, 14737), (12, 14746), (Start: 14 @14806 has 25 MA's), (Start: 15 @14815 has 1 MA's), (16, 14836), (17, 14896),

Gene: FuegoCuervo_22 Start: 14095, Stop: 14208, Start Num: 14
Candidate Starts for FuegoCuervo_22:
(13, 14062), (Start: 14 @14095 has 25 MA's), (Start: 15 @14104 has 1 MA's), (16, 14125), (17, 14185),

Gene: Galadriel_21 Start: 14665, Stop: 14778, Start Num: 14
Candidate Starts for Galadriel_21:
(6, 14440), (8, 14455), (9, 14524), (10, 14569), (11, 14596), (12, 14605), (Start: 14 @14665 has 25 MA's), (Start: 15 @14674 has 1 MA's), (17, 14755),

Gene: Geodirt_18 Start: 14870, Stop: 14983, Start Num: 14
Candidate Starts for Geodirt_18:
(13, 14837), (Start: 14 @14870 has 25 MA's), (Start: 15 @14879 has 1 MA's), (17, 14960),

Gene: Jabberwocky_17 Start: 14777, Stop: 14890, Start Num: 14
Candidate Starts for Jabberwocky_17:
(13, 14744), (Start: 14 @14777 has 25 MA's), (Start: 15 @14786 has 1 MA's), (17, 14867),

Gene: Keitabear_21 Start: 17009, Stop: 17122, Start Num: 14
Candidate Starts for Keitabear_21:
(1, 16616), (2, 16619), (3, 16625), (6, 16784), (8, 16799), (9, 16868), (10, 16913), (11, 16940), (12, 16949), (Start: 14 @17009 has 25 MA's), (Start: 15 @17018 has 1 MA's), (17, 17099),

Gene: Kewpiedoll_20 Start: 14846, Stop: 14959, Start Num: 14
Candidate Starts for Kewpiedoll_20:
(13, 14813), (Start: 14 @14846 has 25 MA's), (Start: 15 @14855 has 1 MA's), (17, 14936),

Gene: Kroos_20 Start: 15090, Stop: 15203, Start Num: 14
Candidate Starts for Kroos_20:
(Start: 14 @15090 has 25 MA's), (Start: 15 @15099 has 1 MA's), (17, 15180),

Gene: Kwobi_21 Start: 15066, Stop: 15179, Start Num: 14
Candidate Starts for Kwobi_21:
(Start: 14 @15066 has 25 MA's), (Start: 15 @15075 has 1 MA's), (17, 15156),

Gene: Lennon_21 Start: 16113, Stop: 16226, Start Num: 14
Candidate Starts for Lennon_21:
(1, 15720), (2, 15723), (3, 15729), (6, 15888), (8, 15903), (9, 15972), (10, 16017), (11, 16044), (12, 16053), (Start: 14 @16113 has 25 MA's), (Start: 15 @16122 has 1 MA's), (17, 16203),

Gene: Love_21 Start: 14976, Stop: 15089, Start Num: 14
Candidate Starts for Love_21:
(1, 14583), (2, 14586), (3, 14592), (6, 14751), (8, 14766), (9, 14835), (10, 14880), (11, 14907), (12, 14916), (Start: 14 @14976 has 25 MA's), (Start: 15 @14985 has 1 MA's), (17, 15066),

Gene: McCrothy_20 Start: 14842, Stop: 14955, Start Num: 14
Candidate Starts for McCrothy_20:
(6, 14617), (8, 14632), (9, 14701), (10, 14746), (11, 14773), (12, 14782), (Start: 14 @14842 has 25 MA's), (Start: 15 @14851 has 1 MA's), (17, 14932),

Gene: Nordenberg_14 Start: 13296, Stop: 13409, Start Num: 14
Candidate Starts for Nordenberg_14:
(1, 12903), (2, 12906), (3, 12912), (6, 13071), (8, 13086), (9, 13155), (10, 13200), (11, 13227), (12, 13236), (Start: 14 @13296 has 25 MA's), (Start: 15 @13305 has 1 MA's), (17, 13386),

Gene: Paries_20 Start: 14664, Stop: 14777, Start Num: 14
Candidate Starts for Paries_20:
(1, 14271), (2, 14274), (3, 14280), (6, 14439), (8, 14454), (9, 14523), (10, 14568), (11, 14595), (12, 14604), (Start: 14 @14664 has 25 MA's), (Start: 15 @14673 has 1 MA's), (17, 14754),

Gene: Ribeye_20 Start: 15544, Stop: 15657, Start Num: 14
Candidate Starts for Ribeye_20:
(Start: 14 @15544 has 25 MA's), (Start: 15 @15553 has 1 MA's), (17, 15634),

Gene: Rofo_19 Start: 14916, Stop: 15029, Start Num: 14
Candidate Starts for Rofo_19:
(6, 14691), (8, 14706), (9, 14775), (10, 14820), (11, 14847), (12, 14856), (Start: 14 @14916 has 25 MA's), (Start: 15 @14925 has 1 MA's), (16, 14946), (17, 15006),

Gene: Sanjuju_17 Start: 14428, Stop: 14541, Start Num: 14
Candidate Starts for Sanjuju_17:
(13, 14395), (Start: 14 @14428 has 25 MA's), (Start: 15 @14437 has 1 MA's), (17, 14518),

Gene: Sedona_21 Start: 16744, Stop: 16857, Start Num: 14
Candidate Starts for Sedona_21:
(4, 16405), (5, 16438), (7, 16519), (8, 16534), (9, 16603), (10, 16648), (11, 16675), (12, 16684), (Start: 14 @16744 has 25 MA's), (Start: 15 @16753 has 1 MA's), (17, 16834),

Gene: Sitar_21 Start: 16113, Stop: 16226, Start Num: 14
Candidate Starts for Sitar_21:
(1, 15720), (2, 15723), (3, 15729), (6, 15888), (8, 15903), (9, 15972), (10, 16017), (11, 16044), (12, 16053), (Start: 14 @16113 has 25 MA's), (Start: 15 @16122 has 1 MA's), (17, 16203),

Gene: Stultus_19 Start: 14723, Stop: 14836, Start Num: 14
Candidate Starts for Stultus_19:
(13, 14690), (Start: 14 @14723 has 25 MA's), (Start: 15 @14732 has 1 MA's), (17, 14813),

Gene: Tangent_17 Start: 13917, Stop: 14030, Start Num: 14
Candidate Starts for Tangent_17:
(1, 13524), (2, 13527), (3, 13533), (6, 13692), (8, 13707), (9, 13776), (10, 13821), (11, 13848), (12, 13857), (Start: 14 @13917 has 25 MA's), (Start: 15 @13926 has 1 MA's), (17, 14007),

Gene: Vivi2_19 Start: 15088, Stop: 15201, Start Num: 14
Candidate Starts for Vivi2_19:
(1, 14695), (2, 14698), (3, 14704), (6, 14863), (8, 14878), (9, 14947), (10, 14992), (11, 15019), (12, 15028), (Start: 14 @15088 has 25 MA's), (Start: 15 @15097 has 1 MA's), (17, 15178),

Gene: YorkOnyx_20 Start: 14619, Stop: 14723, Start Num: 15
Candidate Starts for YorkOnyx_20:
(1, 14217), (3, 14226), (6, 14385), (8, 14400), (9, 14469), (10, 14514), (11, 14541), (12, 14550), (Start: 14 @14610 has 25 MA's), (Start: 15 @14619 has 1 MA's), (17, 14700),