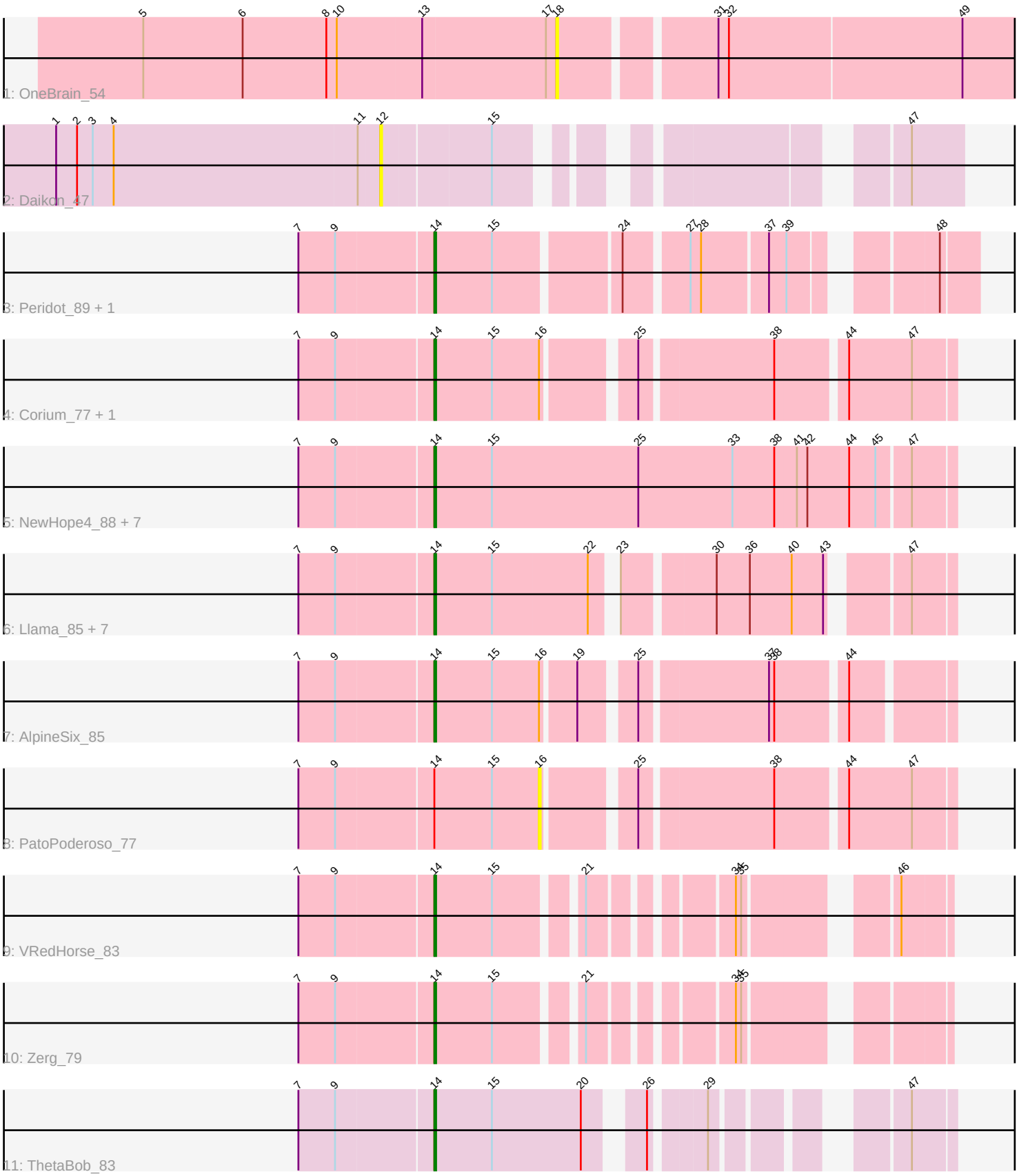
Pham 347950


1: OneBrain_54
2: Daikon_47
3: Peridot_89 + 1
4: Corium_77 + 1
5: NewHope4_88 + 7
6: Llama_85 + 7
7: AlpineSix_85
8: PatoPoderoso_77
9: VRedHorse_83
10: Zerg_79
11: ThetaBob_83

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 347950 Report

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

Pham number 347950 has 27 members, 7 are drafts.

Phages represented in each track:
• Track 1 : OneBrain_54
• Track 2 : Daikon_47
• Track 3 : Peridot_89, Starcevich_84
• Track 4 : Corium_77, KingJulian_83
• Track 5 : NewHope4_88, LunaBlu_88, Dante_82, SeaLumen_91, MulchSalad_86, Enzomatic_95, Latretium_86, Polo2Bam_94
• Track 6 : Llama_85, OfUltron_86, Nichirin_80, Ochi17_84, MadMen_82, Seabastian_86, Jinglebell_85, Modragons_83
• Track 7 : AlpineSix_85
• Track 8 : PatoPoderoso_77
• Track 9 : VRedHorse_83
• Track 10 : Zerg_79
• Track 11 : ThetaBob_83

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 20 of the 20 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• AlpineSix_85, Corium_77, Dante_82, Enzomatic_95, Jinglebell_85, KingJulian_83, Latretium_86, Llama_85, LunaBlu_88, MadMen_82, Modragons_83, MulchSalad_86, NewHope4_88, Nichirin_80, Ochi17_84, OfUltron_86, Peridot_89, Polo2Bam_94, SeaLumen_91, Seabastian_86, Starcevich_84, ThetaBob_83, VRedHorse_83, Zerg_79,

Genes that have the "Most Annotated" start but do not call it:
• PatoPoderoso_77,

Genes that do not have the "Most Annotated" start:
• Daikon_47, OneBrain_54,

Summary by start number:

Start 12:
• Found in 1 of 27 (3.7%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Daikon_47 (E),

Start 14:
• Found in 25 of 27 (92.6%) of genes in pham
• Manual Annotations of this start: 20 of 20
• Called 96.0% of time when present
• Phage (with cluster) where this start called: AlpineSix_85 (F1), Corium_77 (F1), Dante_82 (F1), Enzomatic_95 (F1), Jinglebell_85 (F1), KingJulian_83 (F1), Latretium_86 (F1), Llama_85 (F1), LunaBlu_88 (F1), MadMen_82 (F1), Modragons_83 (F1), MulchSalad_86 (F7), NewHope4_88 (F1), Nichirin_80 (F1), Ochi17_84 (F1), OfUltron_86 (F1), Peridot_89 (F1), Polo2Bam_94 (F1), SeaLumen_91 (F1), Seabastian_86 (F1), Starcevich_84 (F1), ThetaBob_83 (F4), VRedHorse_83 (F1), Zerg_79 (F1),

Start 16:
• Found in 4 of 27 (14.8%) of genes in pham
• No Manual Annotations of this start.
• Called 25.0% of time when present
• Phage (with cluster) where this start called: PatoPoderoso_77 (F1),

Start 18:
• Found in 1 of 27 (3.7%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: OneBrain_54 (B1),

Summary by clusters:

There are 5 clusters represented in this pham: F1, F4, B1, E, F7,

Info for manual annotations of cluster F1:
•Start number 14 was manually annotated 18 times for cluster F1.

Info for manual annotations of cluster F4:
•Start number 14 was manually annotated 1 time for cluster F4.

Info for manual annotations of cluster F7:
•Start number 14 was manually annotated 1 time for cluster F7.

Gene Information:

Gene: AlpineSix_85 Start: 49223, Stop: 49489, Start Num: 14
Candidate Starts for AlpineSix_85:
(7, 49148), (9, 49169), (Start: 14 @49223 has 20 MA's), (15, 49256), (16, 49283), (19, 49301), (25, 49328), (37, 49397), (38, 49400), (44, 49436),

Gene: Corium_77 Start: 49716, Stop: 49988, Start Num: 14
Candidate Starts for Corium_77:
(7, 49641), (9, 49662), (Start: 14 @49716 has 20 MA's), (15, 49749), (16, 49776), (25, 49821), (38, 49893), (44, 49929), (47, 49965),

Gene: Daikon_47 Start: 36344, Stop: 36078, Start Num: 12
Candidate Starts for Daikon_47:
(1, 36527), (2, 36515), (3, 36506), (4, 36494), (11, 36356), (12, 36344), (15, 36284), (47, 36107),

Gene: Dante_82 Start: 51218, Stop: 51511, Start Num: 14
Candidate Starts for Dante_82:
(7, 51143), (9, 51164), (Start: 14 @51218 has 20 MA's), (15, 51251), (25, 51335), (33, 51389), (38, 51413), (41, 51425), (42, 51431), (44, 51455), (45, 51470), (47, 51488),

Gene: Enzomatic_95 Start: 48600, Stop: 48893, Start Num: 14
Candidate Starts for Enzomatic_95:
(7, 48525), (9, 48546), (Start: 14 @48600 has 20 MA's), (15, 48633), (25, 48717), (33, 48771), (38, 48795), (41, 48807), (42, 48813), (44, 48837), (45, 48852), (47, 48870),

Gene: Jinglebell_85 Start: 49222, Stop: 49485, Start Num: 14
Candidate Starts for Jinglebell_85:
(7, 49147), (9, 49168), (Start: 14 @49222 has 20 MA's), (15, 49255), (22, 49309), (23, 49318), (30, 49366), (36, 49384), (40, 49408), (43, 49426), (47, 49462),

Gene: KingJulian_83 Start: 49716, Stop: 49988, Start Num: 14
Candidate Starts for KingJulian_83:
(7, 49641), (9, 49662), (Start: 14 @49716 has 20 MA's), (15, 49749), (16, 49776), (25, 49821), (38, 49893), (44, 49929), (47, 49965),

Gene: Latretium_86 Start: 49509, Stop: 49802, Start Num: 14
Candidate Starts for Latretium_86:
(7, 49434), (9, 49455), (Start: 14 @49509 has 20 MA's), (15, 49542), (25, 49626), (33, 49680), (38, 49704), (41, 49716), (42, 49722), (44, 49746), (45, 49761), (47, 49779),

Gene: Llama_85 Start: 49078, Stop: 49341, Start Num: 14
Candidate Starts for Llama_85:
(7, 49003), (9, 49024), (Start: 14 @49078 has 20 MA's), (15, 49111), (22, 49165), (23, 49174), (30, 49222), (36, 49240), (40, 49264), (43, 49282), (47, 49318),

Gene: LunaBlu_88 Start: 50651, Stop: 50944, Start Num: 14
Candidate Starts for LunaBlu_88:
(7, 50576), (9, 50597), (Start: 14 @50651 has 20 MA's), (15, 50684), (25, 50768), (33, 50822), (38, 50846), (41, 50858), (42, 50864), (44, 50888), (45, 50903), (47, 50921),

Gene: MadMen_82 Start: 48403, Stop: 48666, Start Num: 14
Candidate Starts for MadMen_82:
(7, 48328), (9, 48349), (Start: 14 @48403 has 20 MA's), (15, 48436), (22, 48490), (23, 48499), (30, 48547), (36, 48565), (40, 48589), (43, 48607), (47, 48643),

Gene: Modragons_83 Start: 49066, Stop: 49329, Start Num: 14
Candidate Starts for Modragons_83:

(7, 48991), (9, 49012), (Start: 14 @49066 has 20 MA's), (15, 49099), (22, 49153), (23, 49162), (30, 49210), (36, 49228), (40, 49252), (43, 49270), (47, 49306),

Gene: MulchSalad_86 Start: 51307, Stop: 51600, Start Num: 14
Candidate Starts for MulchSalad_86:
(7, 51232), (9, 51253), (Start: 14 @51307 has 20 MA's), (15, 51340), (25, 51424), (33, 51478), (38, 51502), (41, 51514), (42, 51520), (44, 51544), (45, 51559), (47, 51577),

Gene: NewHope4_88 Start: 48746, Stop: 49039, Start Num: 14
Candidate Starts for NewHope4_88:
(7, 48671), (9, 48692), (Start: 14 @48746 has 20 MA's), (15, 48779), (25, 48863), (33, 48917), (38, 48941), (41, 48953), (42, 48959), (44, 48983), (45, 48998), (47, 49016),

Gene: Nichirin_80 Start: 48440, Stop: 48703, Start Num: 14
Candidate Starts for Nichirin_80:
(7, 48365), (9, 48386), (Start: 14 @48440 has 20 MA's), (15, 48473), (22, 48527), (23, 48536), (30, 48584), (36, 48602), (40, 48626), (43, 48644), (47, 48680),

Gene: Ochi17_84 Start: 48673, Stop: 48936, Start Num: 14
Candidate Starts for Ochi17_84:
(7, 48598), (9, 48619), (Start: 14 @48673 has 20 MA's), (15, 48706), (22, 48760), (23, 48769), (30, 48817), (36, 48835), (40, 48859), (43, 48877), (47, 48913),

Gene: OfUltron_86 Start: 49222, Stop: 49485, Start Num: 14
Candidate Starts for OfUltron_86:
(7, 49147), (9, 49168), (Start: 14 @49222 has 20 MA's), (15, 49255), (22, 49309), (23, 49318), (30, 49366), (36, 49384), (40, 49408), (43, 49426), (47, 49462),

Gene: OneBrain_54 Start: 47041, Stop: 46790, Start Num: 18
Candidate Starts for OneBrain_54:
(5, 47275), (6, 47218), (8, 47170), (10, 47164), (13, 47116), (17, 47047), (18, 47041), (31, 46960), (32, 46954), (49, 46822),

Gene: PatoPoderoso_77 Start: 49776, Stop: 49988, Start Num: 16
Candidate Starts for PatoPoderoso_77:
(7, 49641), (9, 49662), (Start: 14 @49716 has 20 MA's), (15, 49749), (16, 49776), (25, 49821), (38, 49893), (44, 49929), (47, 49965),

Gene: Peridot_89 Start: 50421, Stop: 50690, Start Num: 14
Candidate Starts for Peridot_89:
(7, 50346), (9, 50367), (Start: 14 @50421 has 20 MA's), (15, 50454), (24, 50520), (27, 50553), (28, 50559), (37, 50595), (39, 50604), (48, 50670),

Gene: Polo2Bam_94 Start: 48600, Stop: 48893, Start Num: 14
Candidate Starts for Polo2Bam_94:
(7, 48525), (9, 48546), (Start: 14 @48600 has 20 MA's), (15, 48633), (25, 48717), (33, 48771), (38, 48795), (41, 48807), (42, 48813), (44, 48837), (45, 48852), (47, 48870),

Gene: SeaLumen_91 Start: 48600, Stop: 48893, Start Num: 14
Candidate Starts for SeaLumen_91:
(7, 48525), (9, 48546), (Start: 14 @48600 has 20 MA's), (15, 48633), (25, 48717), (33, 48771), (38, 48795), (41, 48807), (42, 48813), (44, 48837), (45, 48852), (47, 48870),

Gene: Seabastian_86 Start: 49223, Stop: 49486, Start Num: 14
Candidate Starts for Seabastian_86:
(7, 49148), (9, 49169), (Start: 14 @49223 has 20 MA's), (15, 49256), (22, 49310), (23, 49319), (30, 49367), (36, 49385), (40, 49409), (43, 49427), (47, 49463),

Gene: Starcevich_84 Start: 50987, Stop: 51256, Start Num: 14
Candidate Starts for Starcevich_84:
(7, 50912), (9, 50933), (Start: 14 @50987 has 20 MA's), (15, 51020), (24, 51086), (27, 51119), (28, 51125), (37, 51161), (39, 51170), (48, 51236),

Gene: ThetaBob_83 Start: 48523, Stop: 48762, Start Num: 14
Candidate Starts for ThetaBob_83:
(7, 48448), (9, 48469), (Start: 14 @48523 has 20 MA's), (15, 48556), (20, 48607), (26, 48631), (29, 48658), (47, 48739),

Gene: VRedHorse_83 Start: 47290, Stop: 47529, Start Num: 14
Candidate Starts for VRedHorse_83:
(7, 47215), (9, 47236), (Start: 14 @47290 has 20 MA's), (15, 47323), (21, 47365), (34, 47431), (35, 47434), (46, 47503),

Gene: Zerg_79 Start: 48632, Stop: 48871, Start Num: 14
Candidate Starts for Zerg_79:
(7, 48557), (9, 48578), (Start: 14 @48632 has 20 MA's), (15, 48665), (21, 48707), (34, 48773), (35, 48776),