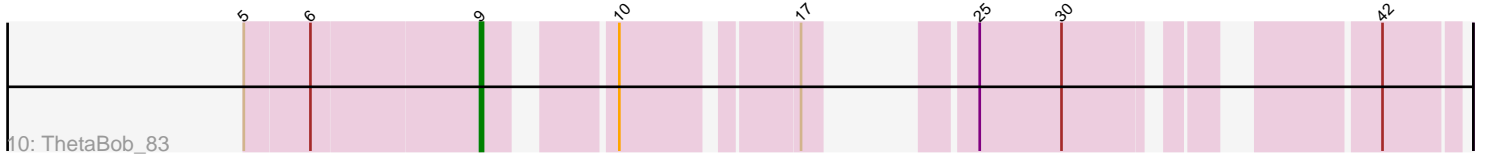
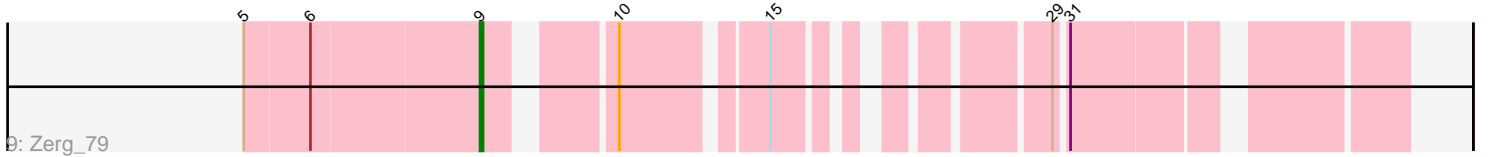
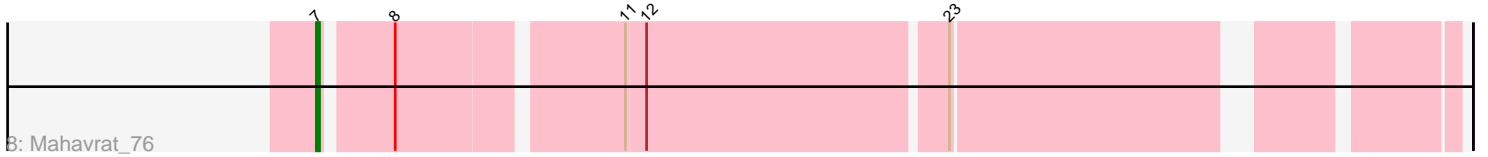
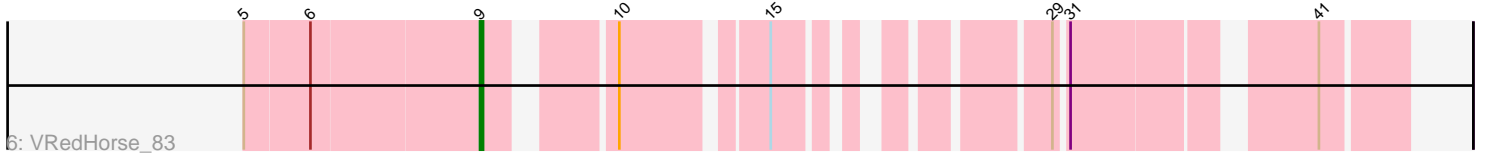
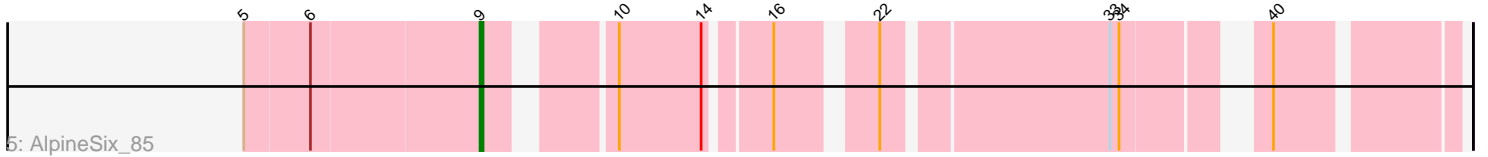
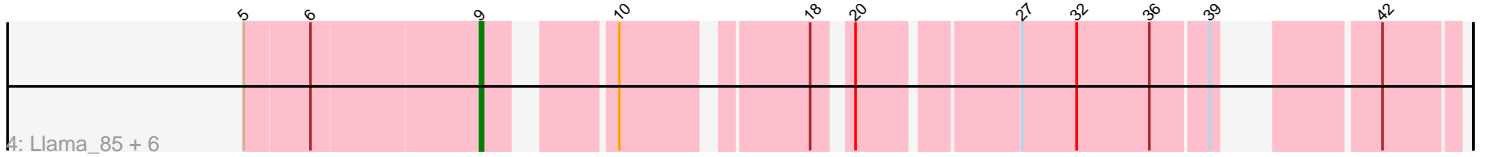
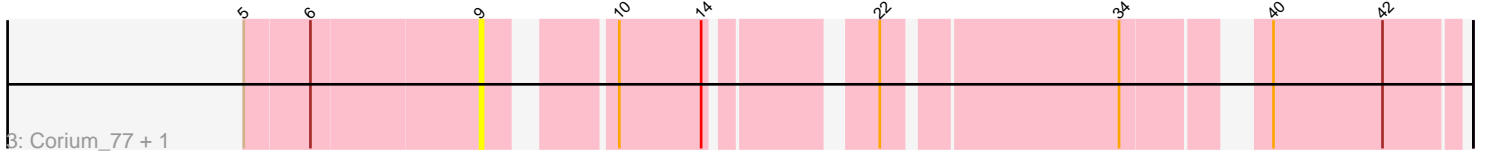
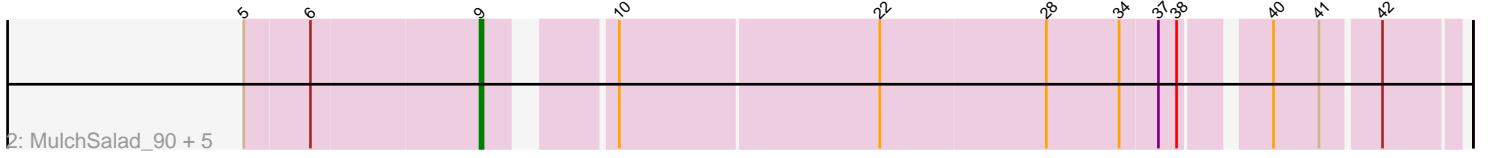
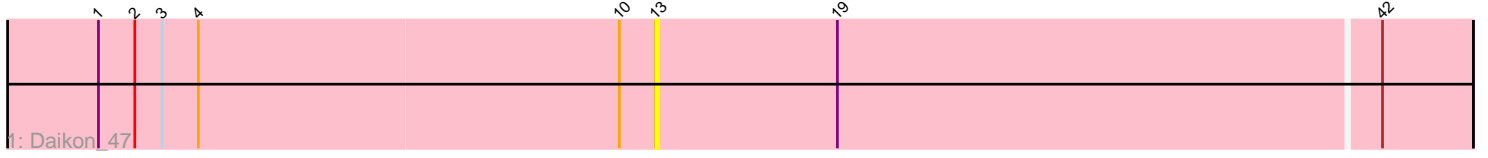


Pham 216544



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 216544 Report

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

Pham number 216544 has 22 members, 6 are drafts.

Phages represented in each track:

- Track 1 : Daikon_47
- Track 2 : MulchSalad_90, NewHope4_87, LunaBlu_88, Dante_82, Latretium_86, Polo2Bam_94
- Track 3 : Corium_77, KingJulian_77
- Track 4 : Llama_85, OfUltron_86, Ochi17_84, MadMen_82, Seabastian_86, Jinglebell_85, Modragons_83
- Track 5 : AlpineSix_85
- Track 6 : VRedHorse_83
- Track 7 : Starcevich_84
- Track 8 : Mahavrat_76
- Track 9 : Zerg_79
- Track 10 : 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 9, it was called in 15 of the 16 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AlpineSix_85, Corium_77, Dante_82, Jinglebell_85, KingJulian_77, Latretium_86, Llama_85, LunaBlu_88, MadMen_82, Modragons_83, MulchSalad_90, NewHope4_87, Ochi17_84, OfUltron_86, Polo2Bam_94, Seabastian_86, Starcevich_84, ThetaBob_83, VRedHorse_83, Zerg_79,

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

-

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

- Daikon_47, Mahavrat_76,

Summary by start number:

Start 7:

- Found in 1 of 22 (4.5%) of genes in pham

- Manual Annotations of this start: 1 of 16
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Mahavrat_76 (F1),

Start 9:

- Found in 20 of 22 (90.9%) of genes in pham
- Manual Annotations of this start: 15 of 16
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AlpineSix_85 (F1), Corium_77 (F1), Dante_82 (F1), Jinglebell_85 (F1), KingJulian_77 (F1), Latretium_86 (F1), Llama_85 (F1), LunaBlu_88 (F1), MadMen_82 (F1), Modragons_83 (F1), MulchSalad_90 (F), NewHope4_87 (F1), Ochi17_84 (F1), OfUltron_86 (F1), Polo2Bam_94 (F1), Seabastian_86 (F1), Starcevich_84 (F1), ThetaBob_83 (F4), VRedHorse_83 (F1), Zerg_79 (F1),

Start 13:

- 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: Daikon_47 (E),

Summary by clusters:

There are 4 clusters represented in this pham: F1, F4, E, F,

Info for manual annotations of cluster F1:

- Start number 7 was manually annotated 1 time for cluster F1.
- Start number 9 was manually annotated 14 times for cluster F1.

Info for manual annotations of cluster F4:

- Start number 9 was manually annotated 1 time for cluster F4.

Gene Information:

Gene: AlpineSix_85 Start: 49223, Stop: 49489, Start Num: 9

Candidate Starts for AlpineSix_85:

(5, 49148), (6, 49169), (Start: 9 @49223 has 15 MA's), (10, 49256), (14, 49283), (16, 49301), (22, 49328), (33, 49397), (34, 49400), (40, 49436),

Gene: Corium_77 Start: 49716, Stop: 49988, Start Num: 9

Candidate Starts for Corium_77:

(5, 49641), (6, 49662), (Start: 9 @49716 has 15 MA's), (10, 49749), (14, 49776), (22, 49821), (34, 49893), (40, 49929), (42, 49965),

Gene: Daikon_47 Start: 36344, Stop: 36078, Start Num: 13

Candidate Starts for Daikon_47:

(1, 36527), (2, 36515), (3, 36506), (4, 36494), (10, 36356), (13, 36344), (19, 36284), (42, 36107),

Gene: Dante_82 Start: 51218, Stop: 51511, Start Num: 9

Candidate Starts for Dante_82:

(5, 51143), (6, 51164), (Start: 9 @51218 has 15 MA's), (10, 51251), (22, 51335), (28, 51389), (34, 51413), (37, 51425), (38, 51431), (40, 51455), (41, 51470), (42, 51488),

Gene: Jinglebell_85 Start: 49222, Stop: 49485, Start Num: 9

Candidate Starts for Jinglebell_85:

(5, 49147), (6, 49168), (Start: 9 @49222 has 15 MA's), (10, 49255), (18, 49309), (20, 49318), (27, 49366), (32, 49384), (36, 49408), (39, 49426), (42, 49462),

Gene: KingJulian_77 Start: 49716, Stop: 49988, Start Num: 9

Candidate Starts for KingJulian_77:

(5, 49641), (6, 49662), (Start: 9 @49716 has 15 MA's), (10, 49749), (14, 49776), (22, 49821), (34, 49893), (40, 49929), (42, 49965),

Gene: Latretium_86 Start: 49509, Stop: 49802, Start Num: 9

Candidate Starts for Latretium_86:

(5, 49434), (6, 49455), (Start: 9 @49509 has 15 MA's), (10, 49542), (22, 49626), (28, 49680), (34, 49704), (37, 49716), (38, 49722), (40, 49746), (41, 49761), (42, 49779),

Gene: Llama_85 Start: 49078, Stop: 49341, Start Num: 9

Candidate Starts for Llama_85:

(5, 49003), (6, 49024), (Start: 9 @49078 has 15 MA's), (10, 49111), (18, 49165), (20, 49174), (27, 49222), (32, 49240), (36, 49264), (39, 49282), (42, 49318),

Gene: LunaBlu_88 Start: 50651, Stop: 50944, Start Num: 9

Candidate Starts for LunaBlu_88:

(5, 50576), (6, 50597), (Start: 9 @50651 has 15 MA's), (10, 50684), (22, 50768), (28, 50822), (34, 50846), (37, 50858), (38, 50864), (40, 50888), (41, 50903), (42, 50921),

Gene: MadMen_82 Start: 48403, Stop: 48666, Start Num: 9

Candidate Starts for MadMen_82:

(5, 48328), (6, 48349), (Start: 9 @48403 has 15 MA's), (10, 48436), (18, 48490), (20, 48499), (27, 48547), (32, 48565), (36, 48589), (39, 48607), (42, 48643),

Gene: Mahavrat_76 Start: 46252, Stop: 46590, Start Num: 7

Candidate Starts for Mahavrat_76:

(Start: 7 @46252 has 1 MA's), (8, 46273), (11, 46342), (12, 46348), (23, 46444),

Gene: Modragons_83 Start: 49066, Stop: 49329, Start Num: 9

Candidate Starts for Modragons_83:

(5, 48991), (6, 49012), (Start: 9 @49066 has 15 MA's), (10, 49099), (18, 49153), (20, 49162), (27, 49210), (32, 49228), (36, 49252), (39, 49270), (42, 49306),

Gene: MulchSalad_90 Start: 51307, Stop: 51600, Start Num: 9

Candidate Starts for MulchSalad_90:

(5, 51232), (6, 51253), (Start: 9 @51307 has 15 MA's), (10, 51340), (22, 51424), (28, 51478), (34, 51502), (37, 51514), (38, 51520), (40, 51544), (41, 51559), (42, 51577),

Gene: NewHope4_87 Start: 48746, Stop: 49039, Start Num: 9

Candidate Starts for NewHope4_87:

(5, 48671), (6, 48692), (Start: 9 @48746 has 15 MA's), (10, 48779), (22, 48863), (28, 48917), (34, 48941), (37, 48953), (38, 48959), (40, 48983), (41, 48998), (42, 49016),

Gene: Ochi17_84 Start: 48673, Stop: 48936, Start Num: 9

Candidate Starts for Ochi17_84:

(5, 48598), (6, 48619), (Start: 9 @48673 has 15 MA's), (10, 48706), (18, 48760), (20, 48769), (27, 48817), (32, 48835), (36, 48859), (39, 48877), (42, 48913),

Gene: OfUltron_86 Start: 49222, Stop: 49485, Start Num: 9

Candidate Starts for OfUltron_86:

(5, 49147), (6, 49168), (Start: 9 @49222 has 15 MA's), (10, 49255), (18, 49309), (20, 49318), (27, 49366), (32, 49384), (36, 49408), (39, 49426), (42, 49462),

Gene: Polo2Bam_94 Start: 48600, Stop: 48893, Start Num: 9

Candidate Starts for Polo2Bam_94:

(5, 48525), (6, 48546), (Start: 9 @48600 has 15 MA's), (10, 48633), (22, 48717), (28, 48771), (34, 48795), (37, 48807), (38, 48813), (40, 48837), (41, 48852), (42, 48870),

Gene: Seabastian_86 Start: 49223, Stop: 49486, Start Num: 9

Candidate Starts for Seabastian_86:

(5, 49148), (6, 49169), (Start: 9 @49223 has 15 MA's), (10, 49256), (18, 49310), (20, 49319), (27, 49367), (32, 49385), (36, 49409), (39, 49427), (42, 49463),

Gene: Starcevich_84 Start: 50987, Stop: 51256, Start Num: 9

Candidate Starts for Starcevich_84:

(5, 50912), (6, 50933), (Start: 9 @50987 has 15 MA's), (10, 51020), (21, 51086), (24, 51119), (26, 51125), (33, 51161), (35, 51170), (43, 51236),

Gene: ThetaBob_83 Start: 48523, Stop: 48762, Start Num: 9

Candidate Starts for ThetaBob_83:

(5, 48448), (6, 48469), (Start: 9 @48523 has 15 MA's), (10, 48556), (17, 48607), (25, 48631), (30, 48658), (42, 48739),

Gene: VRedHorse_83 Start: 47290, Stop: 47529, Start Num: 9

Candidate Starts for VRedHorse_83:

(5, 47215), (6, 47236), (Start: 9 @47290 has 15 MA's), (10, 47323), (15, 47365), (29, 47431), (31, 47434), (41, 47503),

Gene: Zerg_79 Start: 48632, Stop: 48871, Start Num: 9

Candidate Starts for Zerg_79:

(5, 48557), (6, 48578), (Start: 9 @48632 has 15 MA's), (10, 48665), (15, 48707), (29, 48773), (31, 48776),