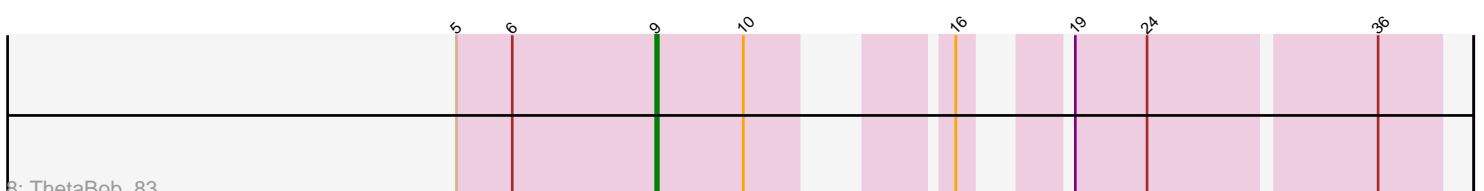
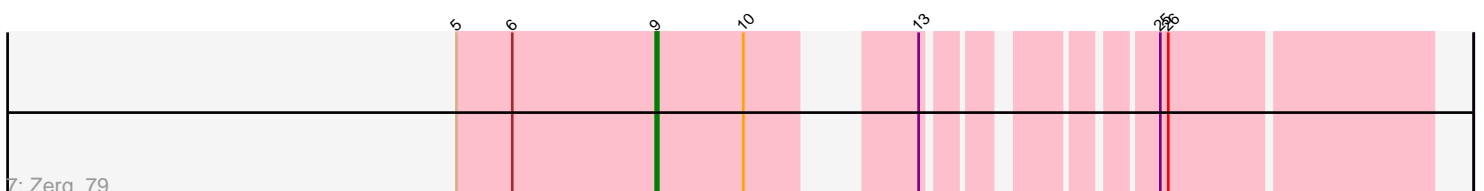
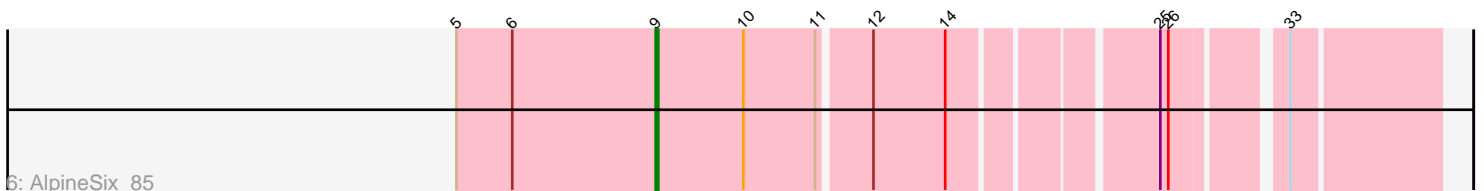
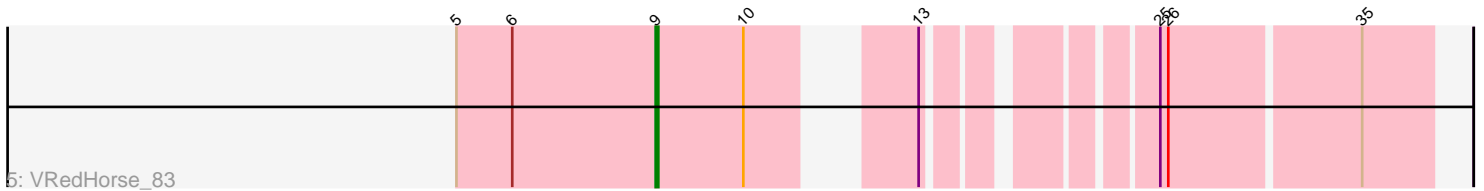
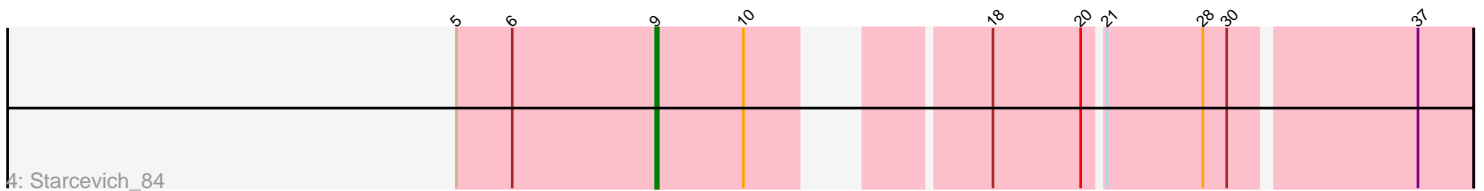
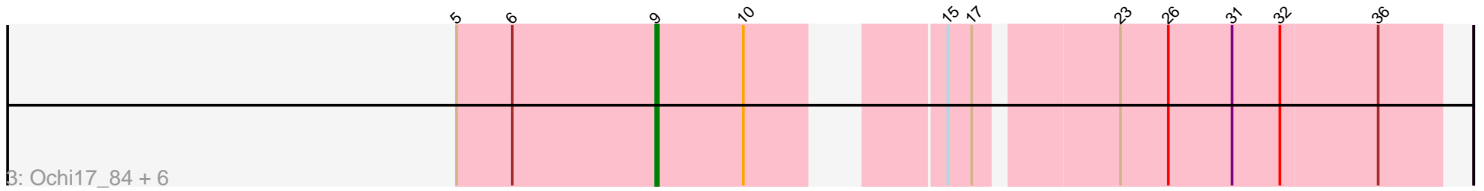
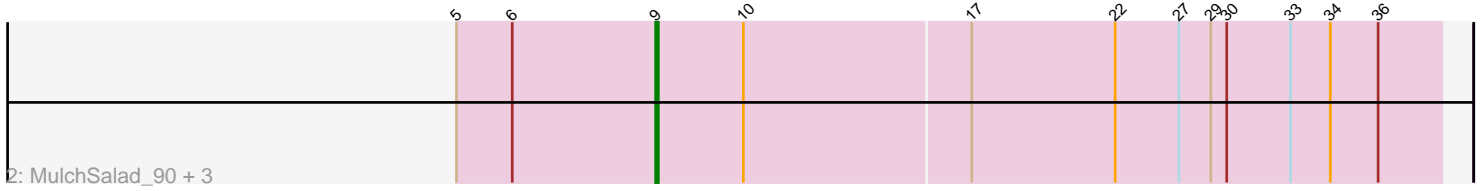
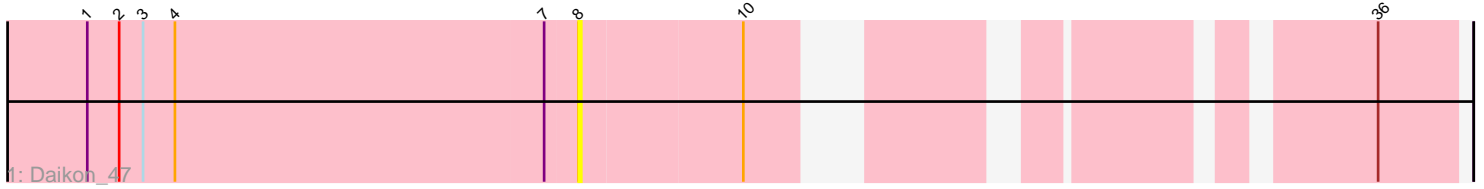


# Pham 194400



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 194400 Report

This analysis was run 11/02/24 on database version 579.

Pham number 194400 has 17 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Daikon\_47
- Track 2 : MulchSalad\_90, Latretium\_86, LunaBlu\_88, Dante\_82
- Track 3 : Ochi17\_84, MadMen\_82, Seabastian\_86, Llama\_85, OfUltron\_86, Jinglebell\_85, Modragons\_83
- Track 4 : Starcevich\_84
- Track 5 : VRedHorse\_83
- Track 6 : AlpineSix\_85
- Track 7 : Zerg\_79
- Track 8 : 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 15 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AlpineSix\_85, Dante\_82, Jinglebell\_85, Latretium\_86, Llama\_85, LunaBlu\_88, MadMen\_82, Modragons\_83, MulchSalad\_90, Ochi17\_84, OfUltron\_86, 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,

### **Summary by start number:**

Start 8:

- Found in 1 of 17 ( 5.9% ) 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 9:

- Found in 16 of 17 ( 94.1% ) of genes in pham
- Manual Annotations of this start: 15 of 15
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AlpineSix\_85 (F1), Dante\_82 (F1), Jinglebell\_85 (F1), Latretium\_86 (F1), Llama\_85 (F1), LunaBlu\_88 (F1), MadMen\_82 (F1), Modragons\_83 (F1), MulchSalad\_90 (F), Ochi17\_84 (F1), OfUltron\_86 (F1), Seabastian\_86 (F1), Starcevich\_84 (F1), ThetaBob\_83 (F4), VRedHorse\_83 (F1), Zerg\_79 (F1),

### **Summary by clusters:**

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

Info for manual annotations of 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), (11, 49283), (12, 49301), (14, 49328), (25, 49397), (26, 49400), (33, 49436),

Gene: Daikon\_47 Start: 36344, Stop: 36078, Start Num: 8

Candidate Starts for Daikon\_47:

(1, 36527), (2, 36515), (3, 36506), (4, 36494), (7, 36356), (8, 36344), (10, 36284), (36, 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), (17, 51335), (22, 51389), (27, 51413), (29, 51425), (30, 51431), (33, 51455), (34, 51470), (36, 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), (15, 49309), (17, 49318), (23, 49366), (26, 49384), (31, 49408), (32, 49426), (36, 49462),

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), (17, 49626), (22, 49680), (27, 49704), (29, 49716), (30, 49722), (33, 49746), (34, 49761), (36, 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), (15, 49165), (17, 49174), (23, 49222), (26, 49240), (31, 49264), (32, 49282), (36, 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), (17, 50768), (22, 50822), (27, 50846), (29, 50858), (30, 50864), (33, 50888), (34, 50903), (36, 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), (15, 48490), (17, 48499), (23, 48547), (26, 48565), (31, 48589), (32, 48607), (36, 48643),

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), (15, 49153), (17, 49162), (23, 49210), (26, 49228), (31, 49252), (32, 49270), (36, 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), (17, 51424), (22, 51478), (27, 51502), (29, 51514), (30, 51520), (33, 51544), (34, 51559), (36, 51577),

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), (15, 48760), (17, 48769), (23, 48817), (26, 48835), (31, 48859), (32, 48877), (36, 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), (15, 49309), (17, 49318), (23, 49366), (26, 49384), (31, 49408), (32, 49426), (36, 49462),

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), (15, 49310), (17, 49319), (23, 49367), (26, 49385), (31, 49409), (32, 49427), (36, 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), (18, 51086), (20, 51119), (21, 51125), (28, 51161), (30, 51170), (37, 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), (16, 48607), (19, 48631), (24, 48658), (36, 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), (13, 47365), (25, 47431), (26, 47434), (35, 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), (13, 48707), (25, 48773), (26, 48776),