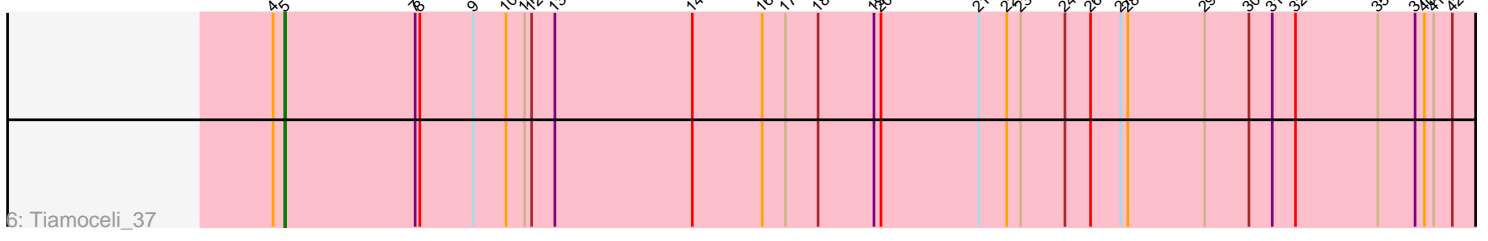
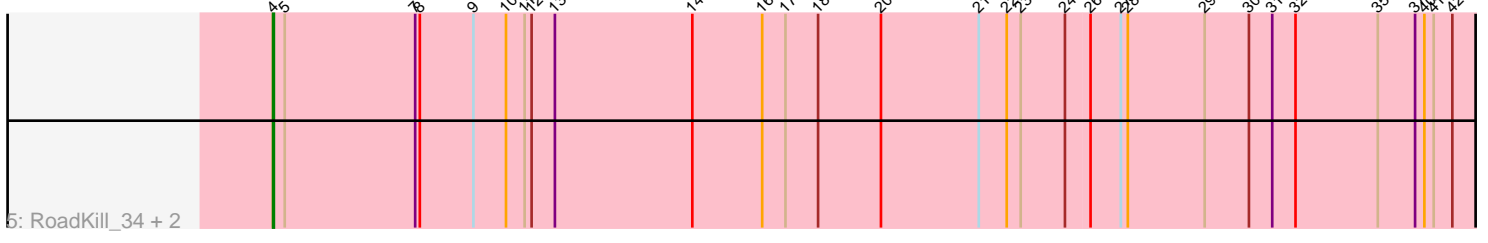
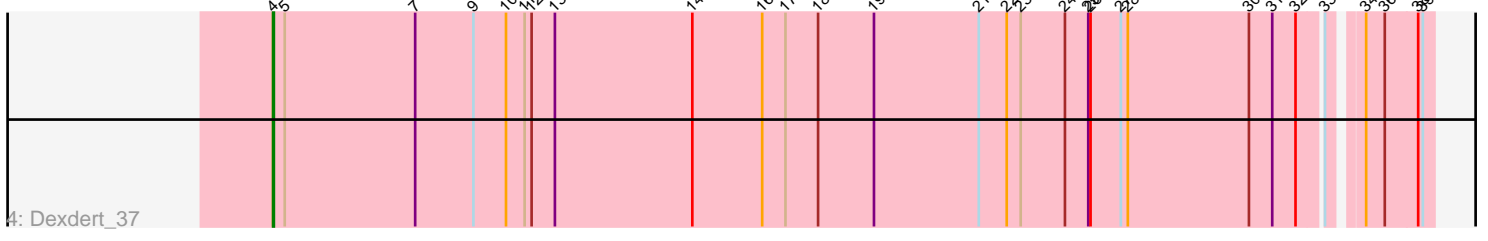
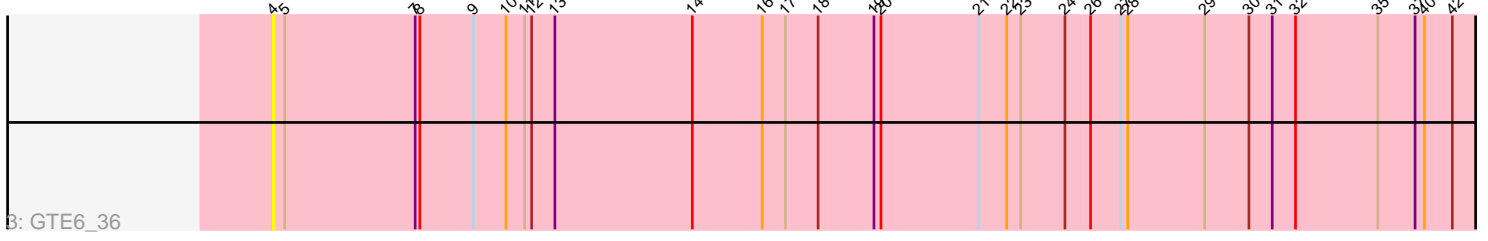
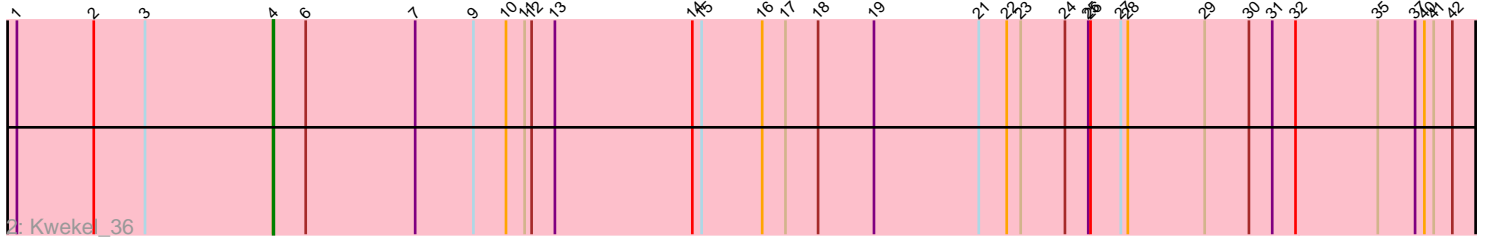
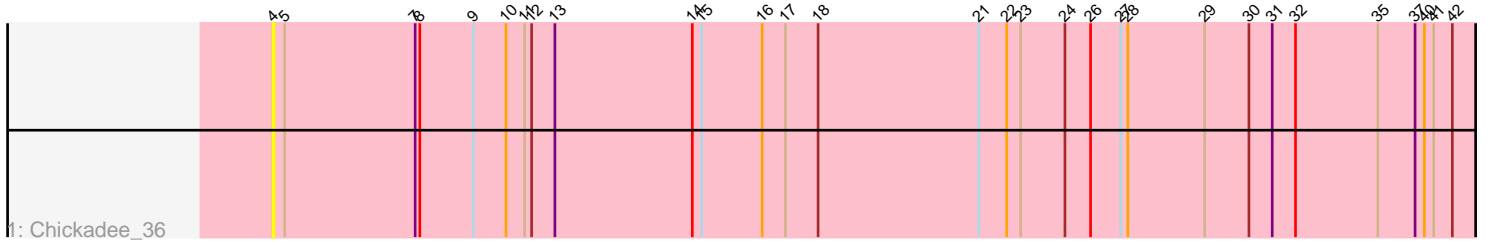


# Pham 158409



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 158409 Report

This analysis was run 04/13/24 on database version 558.

Pham number 158409 has 8 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Chickadee\_36
- Track 2 : Kwekel\_36
- Track 3 : GTE6\_36
- Track 4 : Dexdert\_37
- Track 5 : RoadKill\_34, EdmundFerry\_35, Twonlo\_34
- Track 6 : Tiamoceli\_37

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

The start number called the most often in the published annotations is 4, it was called in 5 of the 6 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Chickadee\_36, Dexdert\_37, EdmundFerry\_35, GTE6\_36, Kwekel\_36, RoadKill\_34, Twonlo\_34,

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

- Tiamoceli\_37,

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

- 

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

Start 4:

- Found in 8 of 8 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 5 of 6
- Called 87.5% of time when present
- Phage (with cluster) where this start called: Chickadee\_36 (DE3), Dexdert\_37 (DE3), EdmundFerry\_35 (DE3), GTE6\_36 (DE3), Kwekel\_36 (DE3), RoadKill\_34 (DE3), Twonlo\_34 (DE3),

Start 5:

- Found in 7 of 8 ( 87.5% ) of genes in pham

- Manual Annotations of this start: 1 of 6
- Called 14.3% of time when present
- Phage (with cluster) where this start called: Tiamoceli\_37 (DE3),

### Summary by clusters:

There is one cluster represented in this pham: DE3

Info for manual annotations of cluster DE3:

- Start number 4 was manually annotated 5 times for cluster DE3.
- Start number 5 was manually annotated 1 time for cluster DE3.

### Gene Information:

Gene: Chickadee\_36 Start: 31511, Stop: 33088, Start Num: 4

Candidate Starts for Chickadee\_36:

(Start: 4 @31511 has 5 MA's), (Start: 5 @31526 has 1 MA's), (7, 31694), (8, 31700), (9, 31769), (10, 31811), (11, 31835), (12, 31844), (13, 31874), (14, 32051), (15, 32063), (16, 32141), (17, 32171), (18, 32213), (21, 32420), (22, 32456), (23, 32474), (24, 32531), (26, 32561), (27, 32600), (28, 32609), (29, 32708), (30, 32765), (31, 32795), (32, 32825), (35, 32930), (37, 32978), (40, 32990), (41, 33002), (42, 33026),

Gene: Dextert\_37 Start: 31954, Stop: 33417, Start Num: 4

Candidate Starts for Dextert\_37:

(Start: 4 @31954 has 5 MA's), (Start: 5 @31969 has 1 MA's), (7, 32137), (9, 32212), (10, 32254), (11, 32278), (12, 32287), (13, 32317), (14, 32494), (16, 32584), (17, 32614), (18, 32656), (19, 32728), (21, 32863), (22, 32899), (23, 32917), (24, 32974), (25, 33004), (26, 33007), (27, 33046), (28, 33055), (30, 33211), (31, 33241), (32, 33271), (33, 33298), (34, 33331), (36, 33355), (38, 33397), (39, 33403),

Gene: EdmundFerry\_35 Start: 31540, Stop: 33117, Start Num: 4

Candidate Starts for EdmundFerry\_35:

(Start: 4 @31540 has 5 MA's), (Start: 5 @31555 has 1 MA's), (7, 31723), (8, 31729), (9, 31798), (10, 31840), (11, 31864), (12, 31873), (13, 31903), (14, 32080), (16, 32170), (17, 32200), (18, 32242), (20, 32323), (21, 32449), (22, 32485), (23, 32503), (24, 32560), (26, 32590), (27, 32629), (28, 32638), (29, 32737), (30, 32794), (31, 32824), (32, 32854), (35, 32959), (37, 33007), (40, 33019), (41, 33031), (42, 33055),

Gene: GTE6\_36 Start: 32032, Stop: 33609, Start Num: 4

Candidate Starts for GTE6\_36:

(Start: 4 @32032 has 5 MA's), (Start: 5 @32047 has 1 MA's), (7, 32215), (8, 32221), (9, 32290), (10, 32332), (11, 32356), (12, 32365), (13, 32395), (14, 32572), (16, 32662), (17, 32692), (18, 32734), (19, 32806), (20, 32815), (21, 32941), (22, 32977), (23, 32995), (24, 33052), (26, 33082), (27, 33121), (28, 33130), (29, 33229), (30, 33286), (31, 33316), (32, 33346), (35, 33451), (37, 33499), (40, 33511), (42, 33547),

Gene: Kwekel\_36 Start: 31469, Stop: 33049, Start Num: 4

Candidate Starts for Kwekel\_36:

(1, 31139), (2, 31238), (3, 31304), (Start: 4 @31469 has 5 MA's), (6, 31511), (7, 31652), (9, 31727), (10, 31769), (11, 31793), (12, 31802), (13, 31832), (14, 32009), (15, 32021), (16, 32099), (17, 32129), (18, 32171), (19, 32243), (21, 32378), (22, 32414), (23, 32432), (24, 32489), (25, 32519), (26, 32522), (27, 32561), (28, 32570), (29, 32669), (30, 32726), (31, 32756), (32, 32786), (35, 32891), (37, 32939),

(40, 32951), (41, 32963), (42, 32987),

Gene: RoadKill\_34 Start: 31035, Stop: 32612, Start Num: 4

Candidate Starts for RoadKill\_34:

(Start: 4 @31035 has 5 MA's), (Start: 5 @31050 has 1 MA's), (7, 31218), (8, 31224), (9, 31293), (10, 31335), (11, 31359), (12, 31368), (13, 31398), (14, 31575), (16, 31665), (17, 31695), (18, 31737), (20, 31818), (21, 31944), (22, 31980), (23, 31998), (24, 32055), (26, 32085), (27, 32124), (28, 32133), (29, 32232), (30, 32289), (31, 32319), (32, 32349), (35, 32454), (37, 32502), (40, 32514), (41, 32526), (42, 32550),

Gene: Tiamoceli\_37 Start: 32383, Stop: 33945, Start Num: 5

Candidate Starts for Tiamoceli\_37:

(Start: 4 @32368 has 5 MA's), (Start: 5 @32383 has 1 MA's), (7, 32551), (8, 32557), (9, 32626), (10, 32668), (11, 32692), (12, 32701), (13, 32731), (14, 32908), (16, 32998), (17, 33028), (18, 33070), (19, 33142), (20, 33151), (21, 33277), (22, 33313), (23, 33331), (24, 33388), (26, 33418), (27, 33457), (28, 33466), (29, 33565), (30, 33622), (31, 33652), (32, 33682), (35, 33787), (37, 33835), (40, 33847), (41, 33859), (42, 33883),

Gene: Twonlo\_34 Start: 30986, Stop: 32563, Start Num: 4

Candidate Starts for Twonlo\_34:

(Start: 4 @30986 has 5 MA's), (Start: 5 @31001 has 1 MA's), (7, 31169), (8, 31175), (9, 31244), (10, 31286), (11, 31310), (12, 31319), (13, 31349), (14, 31526), (16, 31616), (17, 31646), (18, 31688), (20, 31769), (21, 31895), (22, 31931), (23, 31949), (24, 32006), (26, 32036), (27, 32075), (28, 32084), (29, 32183), (30, 32240), (31, 32270), (32, 32300), (35, 32405), (37, 32453), (40, 32465), (41, 32477), (42, 32501),