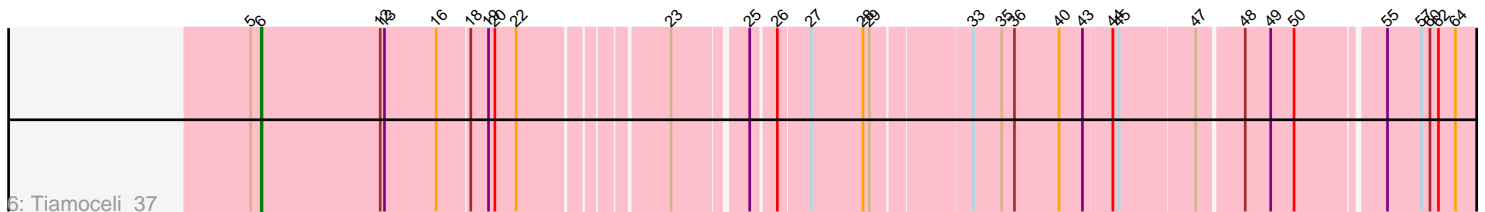
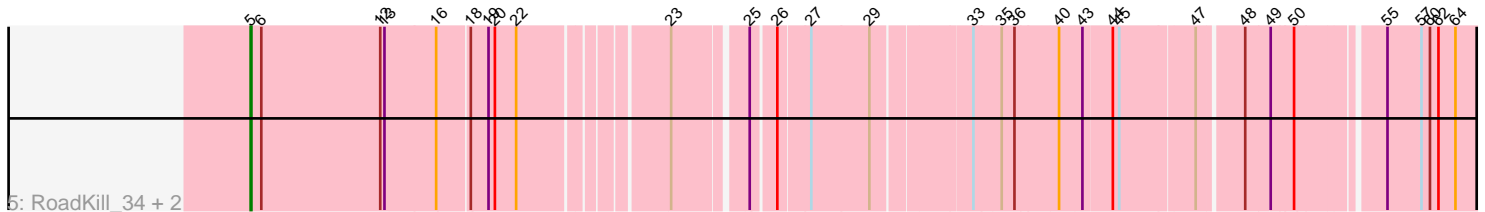
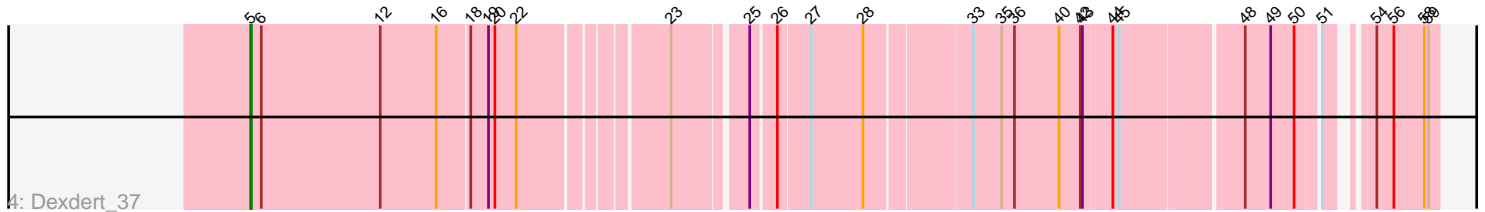
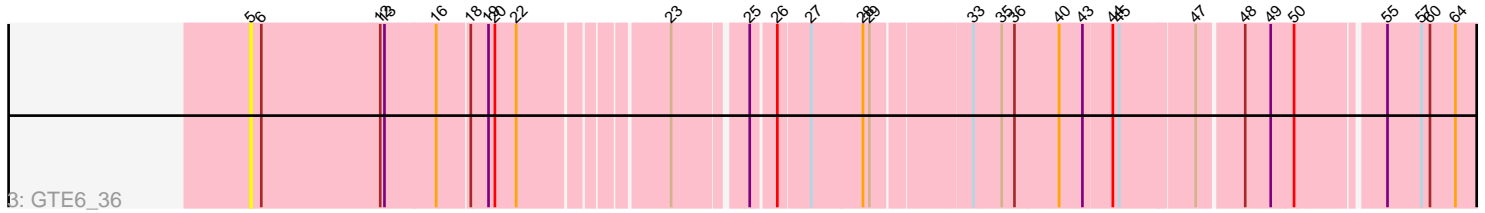
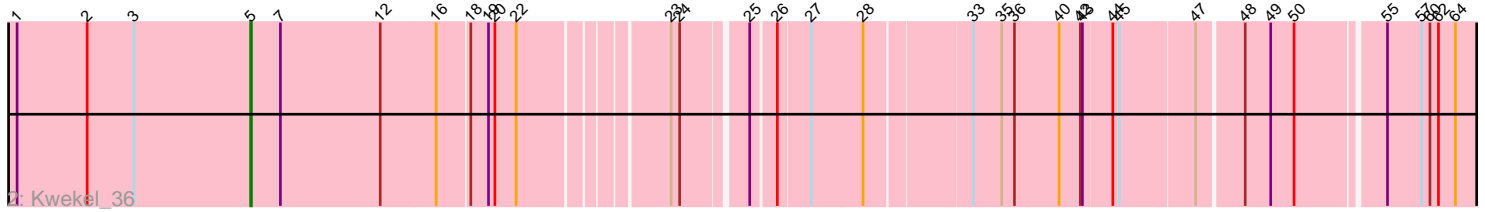
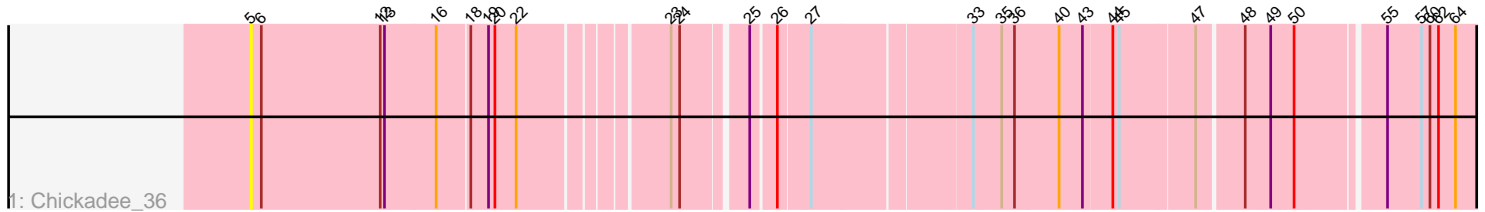


Pham 164122



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 164122 Report

This analysis was run 04/28/24 on database version 559.

Pham number 164122 has 9 members, 3 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
- Track 7 : Scioto_40

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

The start number called the most often in the published annotations is 5, 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, Scioto_40, 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 5:

- Found in 9 of 9 (100.0%) of genes in pham
- Manual Annotations of this start: 5 of 6
- Called 88.9% 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), Scioto_40 (DE4), Twonlo_34 (DE3),

Start 6:

- Found in 7 of 9 (77.8%) 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 are 2 clusters represented in this pham: DE3, DE4,

Info for manual annotations of cluster DE3:

- Start number 5 was manually annotated 5 times for cluster DE3.
- Start number 6 was manually annotated 1 time for cluster DE3.

Gene Information:

Gene: Chickadee_36 Start: 31511, Stop: 33088, Start Num: 5

Candidate Starts for Chickadee_36:

(Start: 5 @31511 has 5 MA's), (Start: 6 @31526 has 1 MA's), (12, 31694), (13, 31700), (16, 31769), (18, 31811), (19, 31835), (20, 31844), (22, 31874), (23, 32051), (24, 32063), (25, 32141), (26, 32171), (27, 32213), (33, 32420), (35, 32456), (36, 32474), (40, 32531), (43, 32561), (44, 32600), (45, 32609), (47, 32708), (48, 32765), (49, 32795), (50, 32825), (55, 32930), (57, 32978), (60, 32990), (62, 33002), (64, 33026),

Gene: Dextert_37 Start: 31954, Stop: 33417, Start Num: 5

Candidate Starts for Dextert_37:

(Start: 5 @31954 has 5 MA's), (Start: 6 @31969 has 1 MA's), (12, 32137), (16, 32212), (18, 32254), (19, 32278), (20, 32287), (22, 32317), (23, 32494), (25, 32584), (26, 32614), (27, 32656), (28, 32728), (33, 32863), (35, 32899), (36, 32917), (40, 32974), (42, 33004), (43, 33007), (44, 33046), (45, 33055), (48, 33211), (49, 33241), (50, 33271), (51, 33298), (54, 33331), (56, 33355), (58, 33397), (59, 33403),

Gene: EdmundFerry_35 Start: 31540, Stop: 33117, Start Num: 5

Candidate Starts for EdmundFerry_35:

(Start: 5 @31540 has 5 MA's), (Start: 6 @31555 has 1 MA's), (12, 31723), (13, 31729), (16, 31798), (18, 31840), (19, 31864), (20, 31873), (22, 31903), (23, 32080), (25, 32170), (26, 32200), (27, 32242), (29, 32323), (33, 32449), (35, 32485), (36, 32503), (40, 32560), (43, 32590), (44, 32629), (45, 32638), (47, 32737), (48, 32794), (49, 32824), (50, 32854), (55, 32959), (57, 33007), (60, 33019), (62, 33031), (64, 33055),

Gene: GTE6_36 Start: 32032, Stop: 33609, Start Num: 5

Candidate Starts for GTE6_36:

(Start: 5 @32032 has 5 MA's), (Start: 6 @32047 has 1 MA's), (12, 32215), (13, 32221), (16, 32290), (18, 32332), (19, 32356), (20, 32365), (22, 32395), (23, 32572), (25, 32662), (26, 32692), (27, 32734), (28, 32806), (29, 32815), (33, 32941), (35, 32977), (36, 32995), (40, 33052), (43, 33082), (44, 33121), (45, 33130), (47, 33229), (48, 33286), (49, 33316), (50, 33346), (55, 33451), (57, 33499), (60, 33511), (64, 33547),

Gene: Kwekel_36 Start: 31469, Stop: 33049, Start Num: 5

Candidate Starts for Kwekel_36:

(1, 31139), (2, 31238), (3, 31304), (Start: 5 @31469 has 5 MA's), (7, 31511), (12, 31652), (16, 31727), (18, 31769), (19, 31793), (20, 31802), (22, 31832), (23, 32009), (24, 32021), (25, 32099), (26, 32129),

(27, 32171), (28, 32243), (33, 32378), (35, 32414), (36, 32432), (40, 32489), (42, 32519), (43, 32522), (44, 32561), (45, 32570), (47, 32669), (48, 32726), (49, 32756), (50, 32786), (55, 32891), (57, 32939), (60, 32951), (62, 32963), (64, 32987),

Gene: RoadKill_34 Start: 31035, Stop: 32612, Start Num: 5

Candidate Starts for RoadKill_34:

(Start: 5 @31035 has 5 MA's), (Start: 6 @31050 has 1 MA's), (12, 31218), (13, 31224), (16, 31293), (18, 31335), (19, 31359), (20, 31368), (22, 31398), (23, 31575), (25, 31665), (26, 31695), (27, 31737), (29, 31818), (33, 31944), (35, 31980), (36, 31998), (40, 32055), (43, 32085), (44, 32124), (45, 32133), (47, 32232), (48, 32289), (49, 32319), (50, 32349), (55, 32454), (57, 32502), (60, 32514), (62, 32526), (64, 32550),

Gene: Scioto_40 Start: 34761, Stop: 36584, Start Num: 5

Candidate Starts for Scioto_40:

(3, 34596), (4, 34755), (Start: 5 @34761 has 5 MA's), (8, 34806), (9, 34839), (10, 34845), (11, 34848), (13, 34950), (14, 34953), (15, 34968), (17, 35025), (20, 35103), (21, 35127), (22, 35133), (30, 35706), (31, 35715), (32, 35760), (34, 35793), (37, 35838), (38, 35853), (39, 35874), (41, 35907), (44, 35973), (46, 36006), (52, 36294), (53, 36312), (61, 36429), (63, 36447),

Gene: Tiamoceli_37 Start: 32383, Stop: 33945, Start Num: 6

Candidate Starts for Tiamoceli_37:

(Start: 5 @32368 has 5 MA's), (Start: 6 @32383 has 1 MA's), (12, 32551), (13, 32557), (16, 32626), (18, 32668), (19, 32692), (20, 32701), (22, 32731), (23, 32908), (25, 32998), (26, 33028), (27, 33070), (28, 33142), (29, 33151), (33, 33277), (35, 33313), (36, 33331), (40, 33388), (43, 33418), (44, 33457), (45, 33466), (47, 33565), (48, 33622), (49, 33652), (50, 33682), (55, 33787), (57, 33835), (60, 33847), (62, 33859), (64, 33883),

Gene: Twonlo_34 Start: 30986, Stop: 32563, Start Num: 5

Candidate Starts for Twonlo_34:

(Start: 5 @30986 has 5 MA's), (Start: 6 @31001 has 1 MA's), (12, 31169), (13, 31175), (16, 31244), (18, 31286), (19, 31310), (20, 31319), (22, 31349), (23, 31526), (25, 31616), (26, 31646), (27, 31688), (29, 31769), (33, 31895), (35, 31931), (36, 31949), (40, 32006), (43, 32036), (44, 32075), (45, 32084), (47, 32183), (48, 32240), (49, 32270), (50, 32300), (55, 32405), (57, 32453), (60, 32465), (62, 32477), (64, 32501),