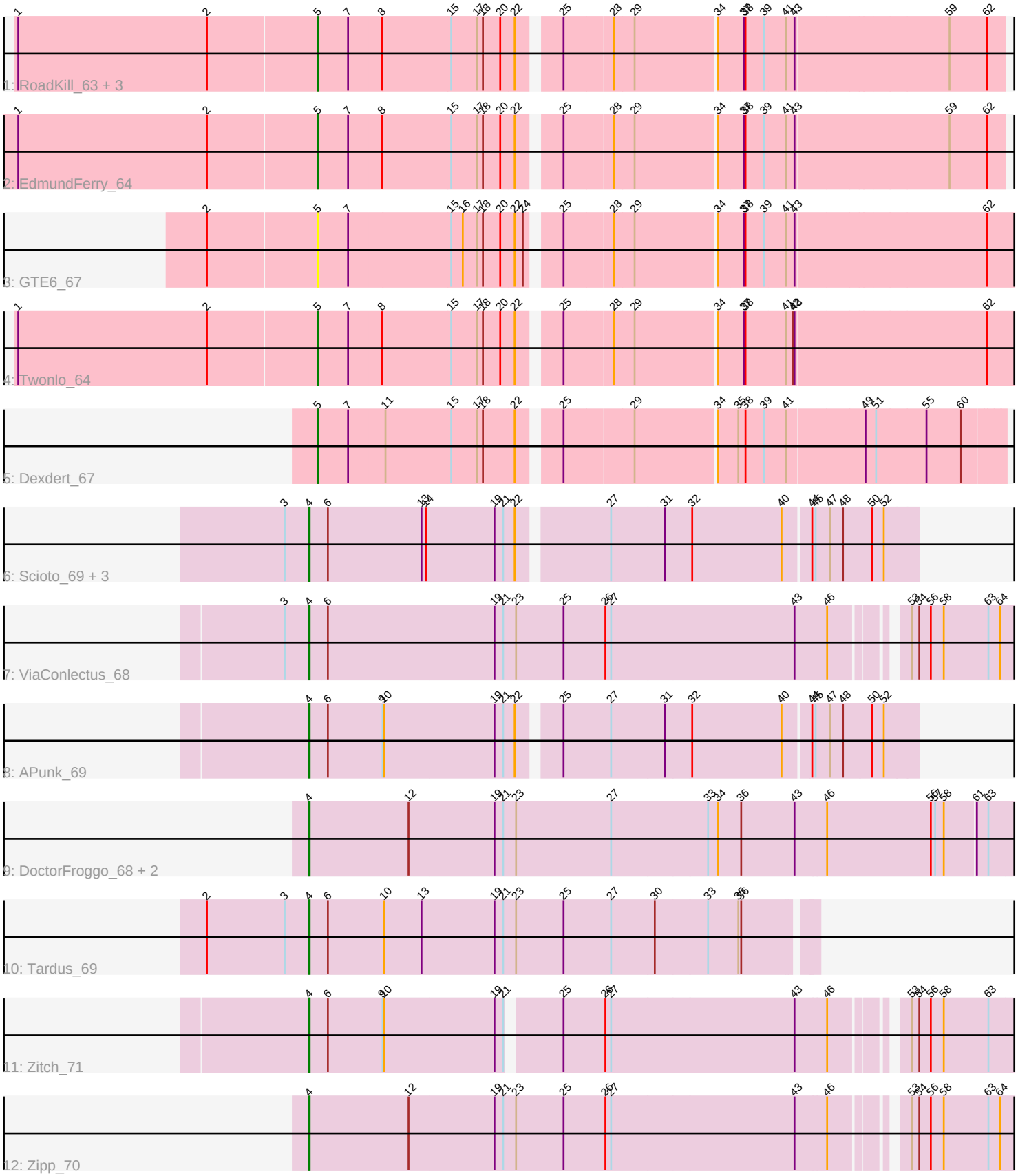
Pham 4502


1: RoadKill_63 + 3
2: EdmundFerry_64
3: GTE6_67
4: Twonlo_64
5: Dexdert_67
6: Scioto_69 + 3
7: ViaConlectus_68
8: APunk_69
9: DoctorFroggo_68 + 2
10: Tardus_69
11: Zitch_71
12: Zipp_70

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 4502 Report

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

Pham number 4502 has 20 members, 5 are drafts.

Phages represented in each track:
• Track 1 : RoadKill_63, Kwekel_66, Chickadee_66, Tiamoceli_65
• Track 2 : EdmundFerry_64
• Track 3 : GTE6_67
• Track 4 : Twonlo_64
• Track 5 : Dexdert_67
• Track 6 : Scioto_69, Abblin_69, Sampson_71, Natkenzie_69
• Track 7 : ViaConlectus_68
• Track 8 : APunk_69
• Track 9 : DoctorFroggo_68, Verity_68, Delrey21_68
• Track 10 : Tardus_69
• Track 11 : Zitch_71
• Track 12 : Zipp_70

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 9 of the 15 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• APunk_69, Abblin_69, Delrey21_68, DoctorFroggo_68, Natkenzie_69, Sampson_71, Scioto_69, Tardus_69, Verity_68, ViaConlectus_68, Zipp_70, Zitch_71,

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

Genes that do not have the "Most Annotated" start:
• Chickadee_66, Dexdert_67, EdmundFerry_64, GTE6_67, Kwekel_66, RoadKill_63, Tiamoceli_65, Twonlo_64,

Summary by start number:

Start 4:
• Found in 12 of 20 (60.0%) of genes in pham
• Manual Annotations of this start: 9 of 15

• Called 100.0% of time when present
• Phage (with cluster) where this start called: APunk_69 (DE4), Abblin_69 (DE4), Delrey21_68 (DE4), DoctorFroggo_68 (DE4), Natkenzie_69 (DE4), Sampson_71 (DE4), Scioto_69 (DE4), Tardus_69 (DE4), Verity_68 (DE4), ViaConlectus_68 (DE4), Zipp_70 (DE4), Zitch_71 (DE4),

Start 5:
• Found in 8 of 20 (40.0%) of genes in pham
• Manual Annotations of this start: 6 of 15
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Chickadee_66 (DE3), Dexdert_67 (DE3), EdmundFerry_64 (DE3), GTE6_67 (DE3), Kwekel_66 (DE3), RoadKill_63 (DE3), Tiamoceli_65 (DE3), Twonlo_64 (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 6 times for cluster DE3.

Info for manual annotations of cluster DE4:
•Start number 4 was manually annotated 9 times for cluster DE4.

Gene Information:

Gene: APunk_69 Start: 51316, Stop: 52536, Start Num: 4
Candidate Starts for APunk_69:
(Start: 4 @51316 has 9 MA's), (6, 51352), (9, 51466), (10, 51469), (19, 51697), (21, 51715), (22, 51739), (25, 51814), (27, 51913), (31, 52024), (32, 52078), (40, 52264), (44, 52318), (45, 52324), (47, 52354), (48, 52381), (50, 52441), (52, 52465),

Gene: Abblin_69 Start: 51474, Stop: 52694, Start Num: 4
Candidate Starts for Abblin_69:
(3, 51423), (Start: 4 @51474 has 9 MA's), (6, 51510), (13, 51705), (14, 51714), (19, 51855), (21, 51873), (22, 51897), (27, 52071), (31, 52182), (32, 52236), (40, 52422), (44, 52476), (45, 52482), (47, 52512), (48, 52539), (50, 52599), (52, 52623),

Gene: Chickadee_66 Start: 47552, Stop: 48973, Start Num: 5
Candidate Starts for Chickadee_66:
(1, 46937), (2, 47327), (Start: 5 @47552 has 6 MA's), (7, 47615), (8, 47681), (15, 47822), (17, 47876), (18, 47888), (20, 47924), (22, 47951), (25, 48023), (28, 48122), (29, 48164), (34, 48329), (37, 48380), (38, 48383), (39, 48422), (41, 48464), (43, 48482), (59, 48788), (62, 48866),

Gene: Delrey21_68 Start: 52563, Stop: 54032, Start Num: 4
Candidate Starts for Delrey21_68:
(Start: 4 @52563 has 9 MA's), (12, 52770), (19, 52947), (21, 52965), (23, 52992), (27, 53190), (33, 53388), (34, 53409), (36, 53457), (43, 53568), (46, 53634), (56, 53850), (57, 53859), (58, 53877), (61, 53940), (63, 53961),

Gene: Dexdert_67 Start: 47702, Stop: 49078, Start Num: 5

Candidate Starts for Dexdert_67:
(Start: 5 @47702 has 6 MA's), (7, 47765), (11, 47837), (15, 47972), (17, 48026), (18, 48038), (22, 48101), (25, 48173), (29, 48314), (34, 48479), (35, 48518), (38, 48533), (39, 48572), (41, 48614), (49, 48770), (51, 48791), (55, 48893), (60, 48965),

Gene: DoctorFroggo_68 Start: 52563, Stop: 54032, Start Num: 4
Candidate Starts for DoctorFroggo_68:
(Start: 4 @52563 has 9 MA's), (12, 52770), (19, 52947), (21, 52965), (23, 52992), (27, 53190), (33, 53388), (34, 53409), (36, 53457), (43, 53568), (46, 53634), (56, 53850), (57, 53859), (58, 53877), (61, 53940), (63, 53961),

Gene: EdmundFerry_64 Start: 47127, Stop: 48521, Start Num: 5
Candidate Starts for EdmundFerry_64:
(1, 46512), (2, 46902), (Start: 5 @47127 has 6 MA's), (7, 47190), (8, 47256), (15, 47397), (17, 47451), (18, 47463), (20, 47499), (22, 47526), (25, 47598), (28, 47697), (29, 47739), (34, 47904), (37, 47955), (38, 47958), (39, 47997), (41, 48039), (43, 48057), (59, 48363), (62, 48441),

Gene: GTE6_67 Start: 48354, Stop: 49775, Start Num: 5
Candidate Starts for GTE6_67:
(2, 48129), (Start: 5 @48354 has 6 MA's), (7, 48417), (15, 48624), (16, 48648), (17, 48678), (18, 48690), (20, 48726), (22, 48753), (24, 48768), (25, 48825), (28, 48924), (29, 48966), (34, 49131), (37, 49182), (38, 49185), (39, 49224), (41, 49266), (43, 49284), (62, 49668),

Gene: Kwekel_66 Start: 47465, Stop: 48886, Start Num: 5
Candidate Starts for Kwekel_66:
(1, 46850), (2, 47240), (Start: 5 @47465 has 6 MA's), (7, 47528), (8, 47594), (15, 47735), (17, 47789), (18, 47801), (20, 47837), (22, 47864), (25, 47936), (28, 48035), (29, 48077), (34, 48242), (37, 48293), (38, 48296), (39, 48335), (41, 48377), (43, 48395), (59, 48701), (62, 48779),

Gene: Natkenzie_69 Start: 51474, Stop: 52694, Start Num: 4
Candidate Starts for Natkenzie_69:
(3, 51423), (Start: 4 @51474 has 9 MA's), (6, 51510), (13, 51705), (14, 51714), (19, 51855), (21, 51873), (22, 51897), (27, 52071), (31, 52182), (32, 52236), (40, 52422), (44, 52476), (45, 52482), (47, 52512), (48, 52539), (50, 52599), (52, 52623),

Gene: RoadKill_63 Start: 46997, Stop: 48391, Start Num: 5
Candidate Starts for RoadKill_63:
(1, 46382), (2, 46772), (Start: 5 @46997 has 6 MA's), (7, 47060), (8, 47126), (15, 47267), (17, 47321), (18, 47333), (20, 47369), (22, 47396), (25, 47468), (28, 47567), (29, 47609), (34, 47774), (37, 47825), (38, 47828), (39, 47867), (41, 47909), (43, 47927), (59, 48233), (62, 48311),

Gene: Sampson_71 Start: 51625, Stop: 52845, Start Num: 4
Candidate Starts for Sampson_71:
(3, 51574), (Start: 4 @51625 has 9 MA's), (6, 51661), (13, 51856), (14, 51865), (19, 52006), (21, 52024), (22, 52048), (27, 52222), (31, 52333), (32, 52387), (40, 52573), (44, 52627), (45, 52633), (47, 52663), (48, 52690), (50, 52750), (52, 52774),

Gene: Scioto_69 Start: 51475, Stop: 52695, Start Num: 4
Candidate Starts for Scioto_69:
(3, 51424), (Start: 4 @51475 has 9 MA's), (6, 51511), (13, 51706), (14, 51715), (19, 51856), (21, 51874), (22, 51898), (27, 52072), (31, 52183), (32, 52237), (40, 52423), (44, 52477), (45, 52483), (47, 52513), (48, 52540), (50, 52600), (52, 52624),

Gene: Tardus_69 Start: 51719, Stop: 52750, Start Num: 4
Candidate Starts for Tardus_69:
(2, 51506), (3, 51668), (Start: 4 @51719 has 9 MA's), (6, 51755), (10, 51872), (13, 51950), (19, 52100), (21, 52118), (23, 52145), (25, 52244), (27, 52343), (30, 52433), (33, 52541), (35, 52604), (36, 52610),

Gene: Tiamoceli_65 Start: 48432, Stop: 49853, Start Num: 5
Candidate Starts for Tiamoceli_65:
(1, 47817), (2, 48207), (Start: 5 @48432 has 6 MA's), (7, 48495), (8, 48561), (15, 48702), (17, 48756), (18, 48768), (20, 48804), (22, 48831), (25, 48903), (28, 49002), (29, 49044), (34, 49209), (37, 49260), (38, 49263), (39, 49302), (41, 49344), (43, 49362), (59, 49668), (62, 49746),

Gene: Twonlo_64 Start: 47530, Stop: 48951, Start Num: 5
Candidate Starts for Twonlo_64:
(1, 46915), (2, 47305), (Start: 5 @47530 has 6 MA's), (7, 47593), (8, 47659), (15, 47800), (17, 47854), (18, 47866), (20, 47902), (22, 47929), (25, 48001), (28, 48100), (29, 48142), (34, 48307), (37, 48358), (38, 48361), (41, 48442), (42, 48457), (43, 48460), (62, 48844),

Gene: Verity_68 Start: 52563, Stop: 54032, Start Num: 4
Candidate Starts for Verity_68:
(Start: 4 @52563 has 9 MA's), (12, 52770), (19, 52947), (21, 52965), (23, 52992), (27, 53190), (33, 53388), (34, 53409), (36, 53457), (43, 53568), (46, 53634), (56, 53850), (57, 53859), (58, 53877), (61, 53940), (63, 53961),

Gene: ViaConlectus_68 Start: 50207, Stop: 51649, Start Num: 4
Candidate Starts for ViaConlectus_68:
(3, 50156), (Start: 4 @50207 has 9 MA's), (6, 50243), (19, 50588), (21, 50606), (23, 50633), (25, 50732), (26, 50819), (27, 50831), (43, 51209), (46, 51275), (53, 51398), (54, 51413), (56, 51437), (58, 51464), (63, 51557), (64, 51581),

Gene: Zipp_70 Start: 52628, Stop: 54073, Start Num: 4
Candidate Starts for Zipp_70:
(Start: 4 @52628 has 9 MA's), (12, 52835), (19, 53012), (21, 53030), (23, 53057), (25, 53156), (26, 53243), (27, 53255), (43, 53633), (46, 53699), (53, 53822), (54, 53837), (56, 53861), (58, 53888), (63, 53981), (64, 54005),

Gene: Zitch_71 Start: 50940, Stop: 52355, Start Num: 4
Candidate Starts for Zitch_71:
(Start: 4 @50940 has 9 MA's), (6, 50976), (9, 51090), (10, 51093), (19, 51321), (21, 51339), (25, 51438), (26, 51525), (27, 51537), (43, 51915), (46, 51981), (53, 52104), (54, 52119), (56, 52143), (58, 52170), (63, 52263),