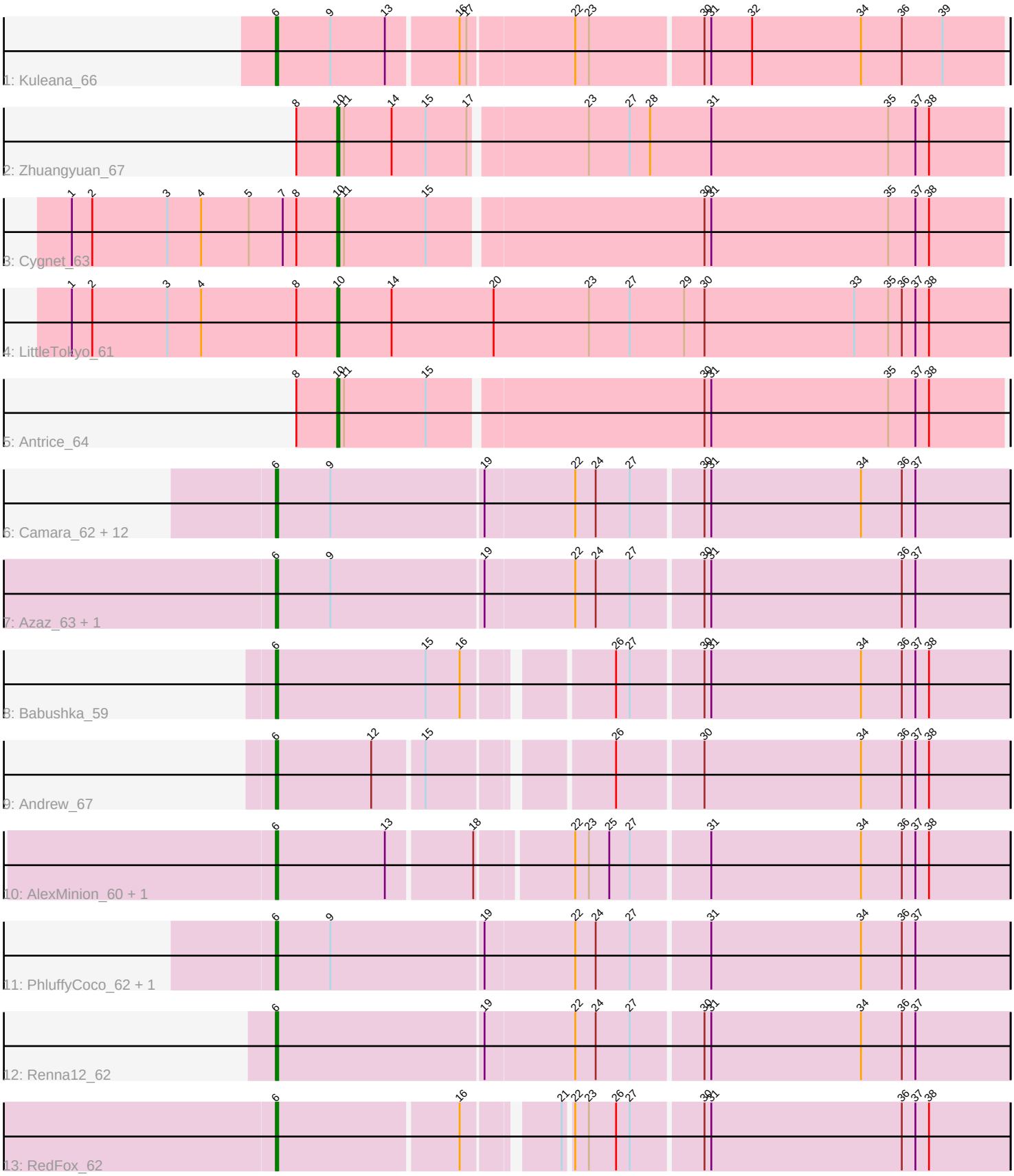
Pham 338468


1: Kuleana_66
2: Zhuangyuan_67
3: Cygnet_63
4: LittleTokyo_61
5: Antrice_64
6: Camara_62 + 12
7: Azaz_63 + 1
8: Babushka_59
9: Andrew_67
10: AlexMinion_60 + 1
11: PhluffyCoco_62 + 1
12: Renna12_62
13: RedFox_62

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 338468 Report

This analysis was run 11/14/26 on database version 672.

Pham number 338468 has 28 members, 4 are drafts.

Phages represented in each track:
• Track 1 : Kuleana_66
• Track 2 : Zhuangyuan_67
• Track 3 : Cygnet_63
• Track 4 : LittleTokyo_61
• Track 5 : Antrice_64
• Track 6 : Camara_62, Laphuphu24k_60, Rattail_62, Oppalora_61, DanHam62_62, HamCheese_62, Amphitrite_62, Fingolfin_63, AmiCi24_61, Juno112_61, KHumphrey_63, Atlantica_63, Glotell_64
• Track 7 : Azaz_63, Leona_60
• Track 8 : Babushka_59
• Track 9 : Andrew_67
• Track 10 : AlexMinion_60, StuartMinion_52
• Track 11 : PhluffyCoco_62, AdoptaAdorbs_61
• Track 12 : Renna12_62
• Track 13 : RedFox_62

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

The start number called the most often in the published annotations is 6, it was called in 20 of the 24 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• AdoptaAdorbs_61, AlexMinion_60, AmiCi24_61, Amphitrite_62, Andrew_67, Atlantica_63, Azaz_63, Babushka_59, Camara_62, DanHam62_62, Fingolfin_63, Glotell_64, HamCheese_62, Juno112_61, KHumphrey_63, Kuleana_66, Laphuphu24k_60, Leona_60, Oppalora_61, PhluffyCoco_62, Rattail_62, RedFox_62, Renna12_62, StuartMinion_52,

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

Genes that do not have the "Most Annotated" start:
• Antrice_64, Cygnet_63, LittleTokyo_61, Zhuangyuan_67,

Summary by start number:

Start 6:
• Found in 24 of 28 (85.7%) of genes in pham
• Manual Annotations of this start: 20 of 24
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AdoptaAdorbs_61 (AS3), AlexMinion_60 (AS3), AmiCi24_61 (AS3), Amphitrite_62 (AS3), Andrew_67 (AS3), Atlantica_63 (AS3), Azaz_63 (AS3), Babushka_59 (AS3), Camara_62 (AS3), DanHam62_62 (AS3), Fingolfin_63 (AS3), Glotell_64 (AS3), HamCheese_62 (AS3), Juno112_61 (AS3), KHumphrey_63 (AS3), Kuleana_66 (AS2), Laphuphu24k_60 (AS3), Leona_60 (AS3), Oppalora_61 (AS3), PhluffyCoco_62 (AS3), Rattail_62 (AS3), RedFox_62 (AS3), Renna12_62 (AS3), StuartMinion_52 (AS3),

Start 10:
• Found in 4 of 28 (14.3%) of genes in pham
• Manual Annotations of this start: 4 of 24
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Antrice_64 (AS2), Cygnet_63 (AS2), LittleTokyo_61 (AS2), Zhuangyuan_67 (AS2),

Summary by clusters:

There are 2 clusters represented in this pham: AS3, AS2,

Info for manual annotations of cluster AS2:
•Start number 6 was manually annotated 1 time for cluster AS2.
•Start number 10 was manually annotated 4 times for cluster AS2.

Info for manual annotations of cluster AS3:
•Start number 6 was manually annotated 19 times for cluster AS3.

Gene Information:

Gene: AdoptaAdorbs_61 Start: 36167, Stop: 36484, Start Num: 6
Candidate Starts for AdoptaAdorbs_61:
(Start: 6 @36167 has 20 MA's), (9, 36191), (19, 36257), (22, 36296), (24, 36305), (27, 36320), (31, 36353), (34, 36419), (36, 36437), (37, 36443),

Gene: AlexMinion_60 Start: 35848, Stop: 36159, Start Num: 6
Candidate Starts for AlexMinion_60:
(Start: 6 @35848 has 20 MA's), (13, 35896), (18, 35932), (22, 35971), (23, 35977), (25, 35986), (27, 35995), (31, 36028), (34, 36094), (36, 36112), (37, 36118), (38, 36124),

Gene: AmiCi24_61 Start: 36276, Stop: 36593, Start Num: 6
Candidate Starts for AmiCi24_61:
(Start: 6 @36276 has 20 MA's), (9, 36300), (19, 36366), (22, 36405), (24, 36414), (27, 36429), (30, 36459), (31, 36462), (34, 36528), (36, 36546), (37, 36552),

Gene: Amphitrite_62 Start: 36166, Stop: 36483, Start Num: 6
Candidate Starts for Amphitrite_62:

(Start: 6 @36166 has 20 MA's), (9, 36190), (19, 36256), (22, 36295), (24, 36304), (27, 36319), (30, 36349), (31, 36352), (34, 36418), (36, 36436), (37, 36442),

Gene: Andrew_67 Start: 36831, Stop: 37136, Start Num: 6
Candidate Starts for Andrew_67:
(Start: 6 @36831 has 20 MA's), (12, 36873), (15, 36894), (26, 36966), (30, 37002), (34, 37071), (36, 37089), (37, 37095), (38, 37101),

Gene: Antrice_64 Start: 36358, Stop: 36645, Start Num: 10
Candidate Starts for Antrice_64:
(8, 36340), (Start: 10 @36358 has 4 MA's), (11, 36361), (15, 36397), (30, 36514), (31, 36517), (35, 36595), (37, 36607), (38, 36613),

Gene: Atlantica_63 Start: 36278, Stop: 36595, Start Num: 6
Candidate Starts for Atlantica_63:
(Start: 6 @36278 has 20 MA's), (9, 36302), (19, 36368), (22, 36407), (24, 36416), (27, 36431), (30, 36461), (31, 36464), (34, 36530), (36, 36548), (37, 36554),

Gene: Azaz_63 Start: 36368, Stop: 36685, Start Num: 6
Candidate Starts for Azaz_63:
(Start: 6 @36368 has 20 MA's), (9, 36392), (19, 36458), (22, 36497), (24, 36506), (27, 36521), (30, 36551), (31, 36554), (36, 36638), (37, 36644),

Gene: Babushka_59 Start: 36074, Stop: 36382, Start Num: 6
Candidate Starts for Babushka_59:
(Start: 6 @36074 has 20 MA's), (15, 36140), (16, 36155), (26, 36212), (27, 36218), (30, 36248), (31, 36251), (34, 36317), (36, 36335), (37, 36341), (38, 36347),

Gene: Camara_62 Start: 36169, Stop: 36486, Start Num: 6
Candidate Starts for Camara_62:
(Start: 6 @36169 has 20 MA's), (9, 36193), (19, 36259), (22, 36298), (24, 36307), (27, 36322), (30, 36352), (31, 36355), (34, 36421), (36, 36439), (37, 36445),

Gene: Cygnet_63 Start: 36845, Stop: 37132, Start Num: 10
Candidate Starts for Cygnet_63:
(1, 36728), (2, 36737), (3, 36770), (4, 36785), (5, 36806), (7, 36821), (8, 36827), (Start: 10 @36845 has 4 MA's), (11, 36848), (15, 36884), (30, 37001), (31, 37004), (35, 37082), (37, 37094), (38, 37100),

Gene: DanHam62_62 Start: 36277, Stop: 36594, Start Num: 6
Candidate Starts for DanHam62_62:
(Start: 6 @36277 has 20 MA's), (9, 36301), (19, 36367), (22, 36406), (24, 36415), (27, 36430), (30, 36460), (31, 36463), (34, 36529), (36, 36547), (37, 36553),

Gene: Fingolfin_63 Start: 36280, Stop: 36597, Start Num: 6
Candidate Starts for Fingolfin_63:
(Start: 6 @36280 has 20 MA's), (9, 36304), (19, 36370), (22, 36409), (24, 36418), (27, 36433), (30, 36463), (31, 36466), (34, 36532), (36, 36550), (37, 36556),

Gene: Glotell_64 Start: 36324, Stop: 36641, Start Num: 6
Candidate Starts for Glotell_64:
(Start: 6 @36324 has 20 MA's), (9, 36348), (19, 36414), (22, 36453), (24, 36462), (27, 36477), (30, 36507), (31, 36510), (34, 36576), (36, 36594), (37, 36600),

Gene: HamCheese_62 Start: 36264, Stop: 36581, Start Num: 6
Candidate Starts for HamCheese_62:
(Start: 6 @36264 has 20 MA's), (9, 36288), (19, 36354), (22, 36393), (24, 36402), (27, 36417), (30, 36447), (31, 36450), (34, 36516), (36, 36534), (37, 36540),

Gene: Juno112_61 Start: 36280, Stop: 36597, Start Num: 6
Candidate Starts for Juno112_61:
(Start: 6 @36280 has 20 MA's), (9, 36304), (19, 36370), (22, 36409), (24, 36418), (27, 36433), (30, 36463), (31, 36466), (34, 36532), (36, 36550), (37, 36556),

Gene: KHumphrey_63 Start: 36168, Stop: 36485, Start Num: 6
Candidate Starts for KHumphrey_63:
(Start: 6 @36168 has 20 MA's), (9, 36192), (19, 36258), (22, 36297), (24, 36306), (27, 36321), (30, 36351), (31, 36354), (34, 36420), (36, 36438), (37, 36444),

Gene: Kuleana_66 Start: 36521, Stop: 36832, Start Num: 6
Candidate Starts for Kuleana_66:
(Start: 6 @36521 has 20 MA's), (9, 36545), (13, 36569), (16, 36599), (17, 36602), (22, 36647), (23, 36653), (30, 36701), (31, 36704), (32, 36722), (34, 36770), (36, 36788), (39, 36806),

Gene: Laphuphu24k_60 Start: 36264, Stop: 36581, Start Num: 6
Candidate Starts for Laphuphu24k_60:
(Start: 6 @36264 has 20 MA's), (9, 36288), (19, 36354), (22, 36393), (24, 36402), (27, 36417), (30, 36447), (31, 36450), (34, 36516), (36, 36534), (37, 36540),

Gene: Leona_60 Start: 36369, Stop: 36686, Start Num: 6
Candidate Starts for Leona_60:
(Start: 6 @36369 has 20 MA's), (9, 36393), (19, 36459), (22, 36498), (24, 36507), (27, 36522), (30, 36552), (31, 36555), (36, 36639), (37, 36645),

Gene: LittleTokyo_61 Start: 34858, Stop: 35154, Start Num: 10
Candidate Starts for LittleTokyo_61:
(1, 34741), (2, 34750), (3, 34783), (4, 34798), (8, 34840), (Start: 10 @34858 has 4 MA's), (14, 34882), (20, 34927), (23, 34969), (27, 34987), (29, 35011), (30, 35020), (33, 35086), (35, 35101), (36, 35107), (37, 35113), (38, 35119),

Gene: Oppalora_61 Start: 36278, Stop: 36595, Start Num: 6
Candidate Starts for Oppalora_61:
(Start: 6 @36278 has 20 MA's), (9, 36302), (19, 36368), (22, 36407), (24, 36416), (27, 36431), (30, 36461), (31, 36464), (34, 36530), (36, 36548), (37, 36554),

Gene: PhluffyCoco_62 Start: 36379, Stop: 36696, Start Num: 6
Candidate Starts for PhluffyCoco_62:
(Start: 6 @36379 has 20 MA's), (9, 36403), (19, 36469), (22, 36508), (24, 36517), (27, 36532), (31, 36565), (34, 36631), (36, 36649), (37, 36655),

Gene: Rattail_62 Start: 36464, Stop: 36781, Start Num: 6
Candidate Starts for Rattail_62:
(Start: 6 @36464 has 20 MA's), (9, 36488), (19, 36554), (22, 36593), (24, 36602), (27, 36617), (30, 36647), (31, 36650), (34, 36716), (36, 36734), (37, 36740),

Gene: RedFox_62 Start: 36377, Stop: 36682, Start Num: 6
Candidate Starts for RedFox_62:

(Start: 6 @36377 has 20 MA's), (16, 36455), (21, 36491), (22, 36494), (23, 36500), (26, 36512), (27, 36518), (30, 36548), (31, 36551), (36, 36635), (37, 36641), (38, 36647),

Gene: Renna12_62 Start: 36496, Stop: 36813, Start Num: 6
Candidate Starts for Renna12_62:
(Start: 6 @36496 has 20 MA's), (19, 36586), (22, 36625), (24, 36634), (27, 36649), (30, 36679), (31, 36682), (34, 36748), (36, 36766), (37, 36772),

Gene: StuartMinion_52 Start: 32747, Stop: 33058, Start Num: 6
Candidate Starts for StuartMinion_52:
(Start: 6 @32747 has 20 MA's), (13, 32795), (18, 32831), (22, 32870), (23, 32876), (25, 32885), (27, 32894), (31, 32927), (34, 32993), (36, 33011), (37, 33017), (38, 33023),

Gene: Zhuangyuan_67 Start: 37033, Stop: 37320, Start Num: 10
Candidate Starts for Zhuangyuan_67:
(8, 37015), (Start: 10 @37033 has 4 MA's), (11, 37036), (14, 37057), (15, 37072), (17, 37090), (23, 37138), (27, 37156), (28, 37165), (31, 37192), (35, 37270), (37, 37282), (38, 37288),