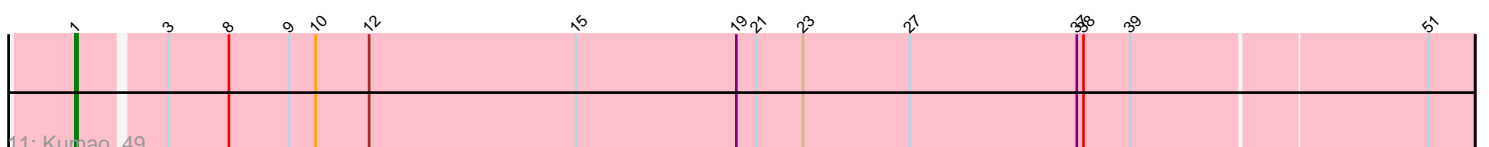
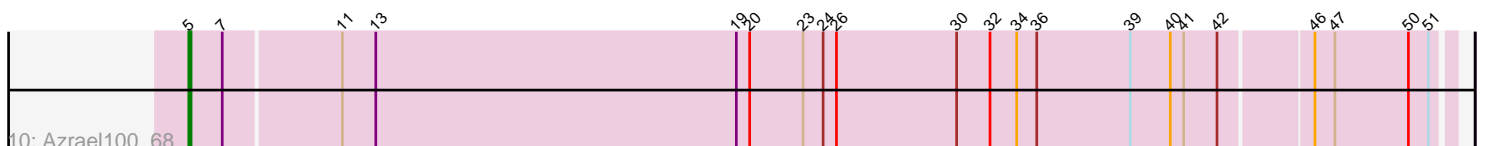
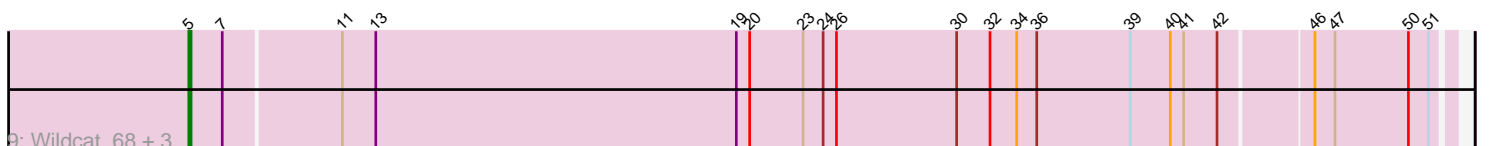
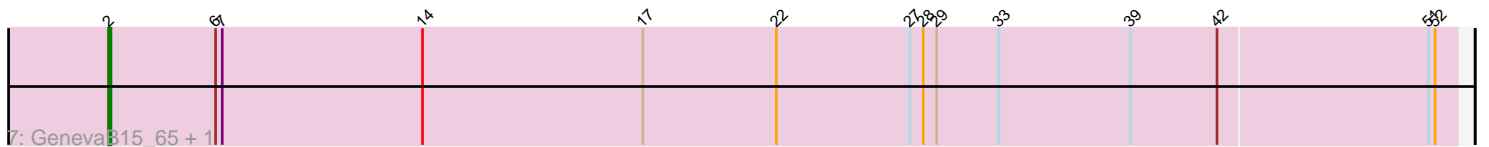
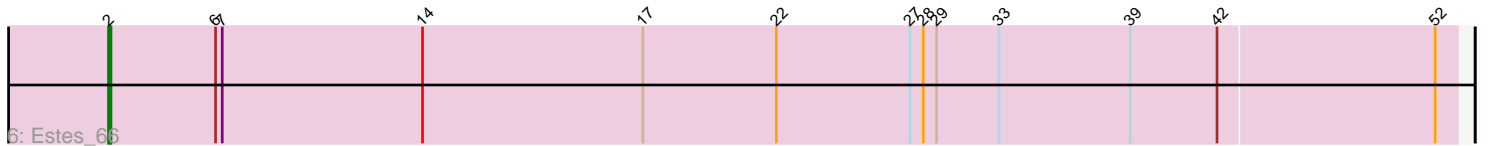
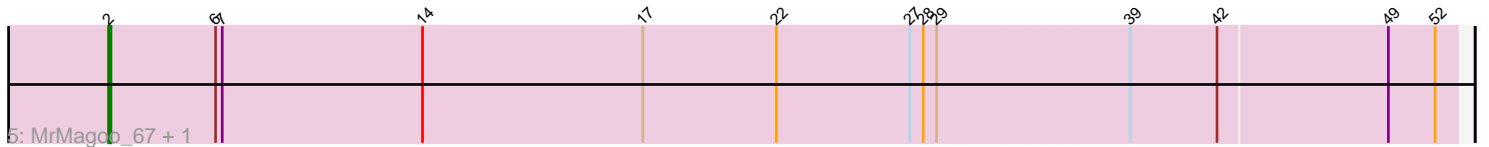
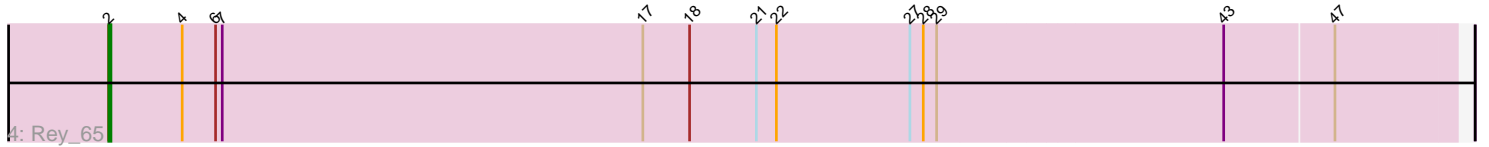
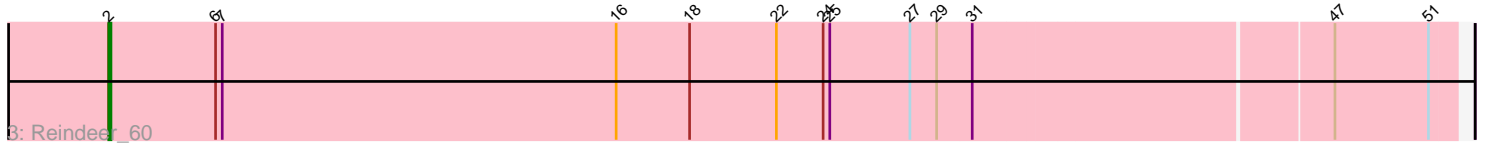
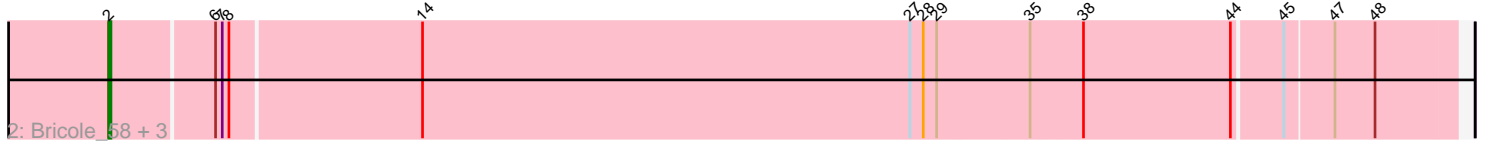
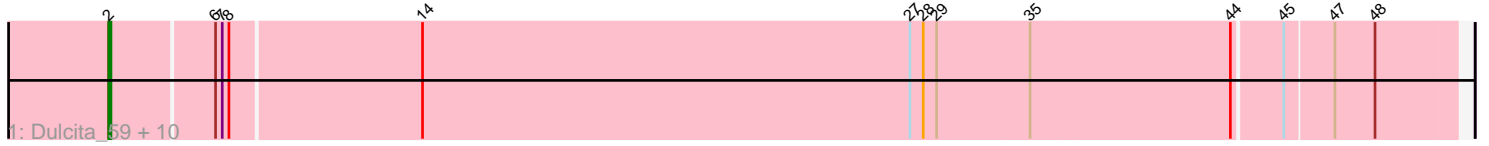


Pham 216435



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 216435 Report

This analysis was run 02/22/25 on database version 588.

Pham number 216435 has 29 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Dulcita_59, Bongo_58, LilhomieP_57, IPhane7_58, Diminimus_59, FreakyGoo_59, SlimJimmy_57, Skinny_60, Izel_58, TyDawg_58, Auspice_58
- Track 2 : Bricole_58, Glaske16_59, KleverKiS_59, PegLeg_58
- Track 3 : Reindeer_60
- Track 4 : Rey_65
- Track 5 : MrMagoo_67, GardenSalsa_66
- Track 6 : Estes_66
- Track 7 : GenevaB15_65, Aziz_64
- Track 8 : Nanosmite_63
- Track 9 : Wildcat_68, EniyanLRS_65, MaryV_68, Cosmo_69
- Track 10 : Azrael100_68
- Track 11 : Kumao_49

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

The start number called the most often in the published annotations is 2, it was called in 20 of the 26 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Auspice_58, Aziz_64, Bongo_58, Bricole_58, Diminimus_59, Dulcita_59, Estes_66, FreakyGoo_59, GardenSalsa_66, GenevaB15_65, Glaske16_59, IPhane7_58, Izel_58, KleverKiS_59, LilhomieP_57, MrMagoo_67, Nanosmite_63, PegLeg_58, Reindeer_60, Rey_65, Skinny_60, SlimJimmy_57, TyDawg_58,

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

-

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

- Azrael100_68, Cosmo_69, EniyanLRS_65, Kumao_49, MaryV_68, Wildcat_68,

Summary by start number:

Start 1:

- Found in 1 of 29 (3.4%) of genes in pham

- Manual Annotations of this start: 1 of 26
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kumao_49 (singleton),

Start 2:

- Found in 23 of 29 (79.3%) of genes in pham
- Manual Annotations of this start: 20 of 26
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Auspice_58 (M1), Aziz_64 (M2), Bongo_58 (M1), Bricole_58 (M1), Diminimus_59 (M1), Dulcita_59 (M1), Estes_66 (M2), FreakyGoo_59 (M1), GardenSalsa_66 (M2), GenevaB15_65 (M2), Glaske16_59 (M1), IPhane7_58 (M1), Izel_58 (M1), KleverKiS_59 (M1), LilhomieP_57 (M1), MrMagoo_67 (M2), Nanosmite_63 (M3), PegLeg_58 (M1), Reindeer_60 (M1), Rey_65 (M2), Skinny_60 (M1), SlimJimmy_57 (M1), TyDawg_58 (M1),

Start 5:

- Found in 5 of 29 (17.2%) of genes in pham
- Manual Annotations of this start: 5 of 26
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Azrael100_68 (V), Cosmo_69 (V), EniyanLRS_65 (V), MaryV_68 (V), Wildcat_68 (V),

Summary by clusters:

There are 5 clusters represented in this pham: singleton, M2, M1, M3, V,

Info for manual annotations of cluster M1:

- Start number 2 was manually annotated 13 times for cluster M1.

Info for manual annotations of cluster M2:

- Start number 2 was manually annotated 6 times for cluster M2.

Info for manual annotations of cluster M3:

- Start number 2 was manually annotated 1 time for cluster M3.

Info for manual annotations of cluster V:

- Start number 5 was manually annotated 5 times for cluster V.

Gene Information:

Gene: Auspice_58 Start: 40662, Stop: 41249, Start Num: 2

Candidate Starts for Auspice_58:

(Start: 2 @40662 has 20 MA's), (6, 40707), (7, 40710), (8, 40713), (14, 40797), (27, 41016), (28, 41022), (29, 41028), (35, 41067), (44, 41154), (45, 41175), (47, 41196), (48, 41214),

Gene: Aziz_64 Start: 42683, Stop: 43279, Start Num: 2

Candidate Starts for Aziz_64:

(Start: 2 @42683 has 20 MA's), (6, 42731), (7, 42734), (14, 42824), (17, 42923), (22, 42983), (27, 43043), (28, 43049), (29, 43055), (33, 43082), (39, 43136), (42, 43175), (51, 43268), (52, 43271),

Gene: Azrael100_68 Start: 45596, Stop: 46153, Start Num: 5

Candidate Starts for Azrael100_68:

(Start: 5 @45596 has 5 MA's), (7, 45611), (11, 45662), (13, 45677), (19, 45839), (20, 45845), (23, 45869), (24, 45878), (26, 45884), (30, 45938), (32, 45953), (34, 45965), (36, 45974), (39, 46016), (40, 46034), (41, 46040), (42, 46055), (46, 46094), (47, 46103), (50, 46136), (51, 46145),

Gene: Bongo_58 Start: 40666, Stop: 41253, Start Num: 2

Candidate Starts for Bongo_58:

(Start: 2 @40666 has 20 MA's), (6, 40711), (7, 40714), (8, 40717), (14, 40801), (27, 41020), (28, 41026), (29, 41032), (35, 41071), (44, 41158), (45, 41179), (47, 41200), (48, 41218),

Gene: Bricole_58 Start: 40648, Stop: 41235, Start Num: 2

Candidate Starts for Bricole_58:

(Start: 2 @40648 has 20 MA's), (6, 40693), (7, 40696), (8, 40699), (14, 40783), (27, 41002), (28, 41008), (29, 41014), (35, 41053), (38, 41074), (44, 41140), (45, 41161), (47, 41182), (48, 41200),

Gene: Cosmo_69 Start: 45597, Stop: 46154, Start Num: 5

Candidate Starts for Cosmo_69:

(Start: 5 @45597 has 5 MA's), (7, 45612), (11, 45663), (13, 45678), (19, 45840), (20, 45846), (23, 45870), (24, 45879), (26, 45885), (30, 45939), (32, 45954), (34, 45966), (36, 45975), (39, 46017), (40, 46035), (41, 46041), (42, 46056), (46, 46095), (47, 46104), (50, 46137), (51, 46146),

Gene: Diminimus_59 Start: 40661, Stop: 41248, Start Num: 2

Candidate Starts for Diminimus_59:

(Start: 2 @40661 has 20 MA's), (6, 40706), (7, 40709), (8, 40712), (14, 40796), (27, 41015), (28, 41021), (29, 41027), (35, 41066), (44, 41153), (45, 41174), (47, 41195), (48, 41213),

Gene: Dulcita_59 Start: 40662, Stop: 41249, Start Num: 2

Candidate Starts for Dulcita_59:

(Start: 2 @40662 has 20 MA's), (6, 40707), (7, 40710), (8, 40713), (14, 40797), (27, 41016), (28, 41022), (29, 41028), (35, 41067), (44, 41154), (45, 41175), (47, 41196), (48, 41214),

Gene: EniyanLRS_65 Start: 45336, Stop: 45893, Start Num: 5

Candidate Starts for EniyanLRS_65:

(Start: 5 @45336 has 5 MA's), (7, 45351), (11, 45402), (13, 45417), (19, 45579), (20, 45585), (23, 45609), (24, 45618), (26, 45624), (30, 45678), (32, 45693), (34, 45705), (36, 45714), (39, 45756), (40, 45774), (41, 45780), (42, 45795), (46, 45834), (47, 45843), (50, 45876), (51, 45885),

Gene: Estes_66 Start: 42955, Stop: 43551, Start Num: 2

Candidate Starts for Estes_66:

(Start: 2 @42955 has 20 MA's), (6, 43003), (7, 43006), (14, 43096), (17, 43195), (22, 43255), (27, 43315), (28, 43321), (29, 43327), (33, 43354), (39, 43408), (42, 43447), (52, 43543),

Gene: FreakyGoo_59 Start: 40662, Stop: 41249, Start Num: 2

Candidate Starts for FreakyGoo_59:

(Start: 2 @40662 has 20 MA's), (6, 40707), (7, 40710), (8, 40713), (14, 40797), (27, 41016), (28, 41022), (29, 41028), (35, 41067), (44, 41154), (45, 41175), (47, 41196), (48, 41214),

Gene: GardenSalsa_66 Start: 43117, Stop: 43713, Start Num: 2

Candidate Starts for GardenSalsa_66:

(Start: 2 @43117 has 20 MA's), (6, 43165), (7, 43168), (14, 43258), (17, 43357), (22, 43417), (27, 43477), (28, 43483), (29, 43489), (39, 43570), (42, 43609), (49, 43684), (52, 43705),

Gene: GenevaB15_65 Start: 42683, Stop: 43279, Start Num: 2

Candidate Starts for GenevaB15_65:

(Start: 2 @42683 has 20 MA's), (6, 42731), (7, 42734), (14, 42824), (17, 42923), (22, 42983), (27, 43043), (28, 43049), (29, 43055), (33, 43082), (39, 43136), (42, 43175), (51, 43268), (52, 43271),

Gene: Glaske16_59 Start: 40661, Stop: 41248, Start Num: 2

Candidate Starts for Glaske16_59:

(Start: 2 @40661 has 20 MA's), (6, 40706), (7, 40709), (8, 40712), (14, 40796), (27, 41015), (28, 41021), (29, 41027), (35, 41066), (38, 41087), (44, 41153), (45, 41174), (47, 41195), (48, 41213),

Gene: IPhone7_58 Start: 40666, Stop: 41253, Start Num: 2

Candidate Starts for IPhone7_58:

(Start: 2 @40666 has 20 MA's), (6, 40711), (7, 40714), (8, 40717), (14, 40801), (27, 41020), (28, 41026), (29, 41032), (35, 41071), (44, 41158), (45, 41179), (47, 41200), (48, 41218),

Gene: Izel_58 Start: 40661, Stop: 41248, Start Num: 2

Candidate Starts for Izel_58:

(Start: 2 @40661 has 20 MA's), (6, 40706), (7, 40709), (8, 40712), (14, 40796), (27, 41015), (28, 41021), (29, 41027), (35, 41066), (44, 41153), (45, 41174), (47, 41195), (48, 41213),

Gene: KleverKiS_59 Start: 40642, Stop: 41229, Start Num: 2

Candidate Starts for KleverKiS_59:

(Start: 2 @40642 has 20 MA's), (6, 40687), (7, 40690), (8, 40693), (14, 40777), (27, 40996), (28, 41002), (29, 41008), (35, 41047), (38, 41068), (44, 41134), (45, 41155), (47, 41176), (48, 41194),

Gene: Kumao_49 Start: 39571, Stop: 40182, Start Num: 1

Candidate Starts for Kumao_49:

(Start: 1 @39571 has 1 MA's), (3, 39607), (8, 39634), (9, 39661), (10, 39673), (12, 39697), (15, 39790), (19, 39862), (21, 39871), (23, 39892), (27, 39940), (37, 40009), (38, 40012), (39, 40033), (51, 40162),

Gene: LilhomieP_57 Start: 40666, Stop: 41253, Start Num: 2

Candidate Starts for LilhomieP_57:

(Start: 2 @40666 has 20 MA's), (6, 40711), (7, 40714), (8, 40717), (14, 40801), (27, 41020), (28, 41026), (29, 41032), (35, 41071), (44, 41158), (45, 41179), (47, 41200), (48, 41218),

Gene: MaryV_68 Start: 45418, Stop: 45975, Start Num: 5

Candidate Starts for MaryV_68:

(Start: 5 @45418 has 5 MA's), (7, 45433), (11, 45484), (13, 45499), (19, 45661), (20, 45667), (23, 45691), (24, 45700), (26, 45706), (30, 45760), (32, 45775), (34, 45787), (36, 45796), (39, 45838), (40, 45856), (41, 45862), (42, 45877), (46, 45916), (47, 45925), (50, 45958), (51, 45967),

Gene: MrMagoo_67 Start: 43117, Stop: 43713, Start Num: 2

Candidate Starts for MrMagoo_67:

(Start: 2 @43117 has 20 MA's), (6, 43165), (7, 43168), (14, 43258), (17, 43357), (22, 43417), (27, 43477), (28, 43483), (29, 43489), (39, 43570), (42, 43609), (49, 43684), (52, 43705),

Gene: Nanosmite_63 Start: 42310, Stop: 42903, Start Num: 2

Candidate Starts for Nanosmite_63:

(Start: 2 @42310 has 20 MA's), (6, 42358), (13, 42430), (16, 42538), (18, 42571), (27, 42670), (28, 42676), (29, 42682), (35, 42721), (41, 42787), (47, 42850), (51, 42892),

Gene: PegLeg_58 Start: 40665, Stop: 41252, Start Num: 2

Candidate Starts for PegLeg_58:

(Start: 2 @40665 has 20 MA's), (6, 40710), (7, 40713), (8, 40716), (14, 40800), (27, 41019), (28, 41025), (29, 41031), (35, 41070), (38, 41091), (44, 41157), (45, 41178), (47, 41199), (48, 41217),

Gene: Reindeer_60 Start: 41854, Stop: 42447, Start Num: 2

Candidate Starts for Reindeer_60:

(Start: 2 @41854 has 20 MA's), (6, 41902), (7, 41905), (16, 42082), (18, 42115), (22, 42154), (24, 42175), (25, 42178), (27, 42214), (29, 42226), (31, 42241), (47, 42394), (51, 42436),

Gene: Rey_65 Start: 42924, Stop: 43520, Start Num: 2

Candidate Starts for Rey_65:

(Start: 2 @42924 has 20 MA's), (4, 42957), (6, 42972), (7, 42975), (17, 43164), (18, 43185), (21, 43215), (22, 43224), (27, 43284), (28, 43290), (29, 43296), (43, 43419), (47, 43467),

Gene: Skinny_60 Start: 41095, Stop: 41682, Start Num: 2

Candidate Starts for Skinny_60:

(Start: 2 @41095 has 20 MA's), (6, 41140), (7, 41143), (8, 41146), (14, 41230), (27, 41449), (28, 41455), (29, 41461), (35, 41500), (44, 41587), (45, 41608), (47, 41629), (48, 41647),

Gene: SlimJimmy_57 Start: 40650, Stop: 41237, Start Num: 2

Candidate Starts for SlimJimmy_57:

(Start: 2 @40650 has 20 MA's), (6, 40695), (7, 40698), (8, 40701), (14, 40785), (27, 41004), (28, 41010), (29, 41016), (35, 41055), (44, 41142), (45, 41163), (47, 41184), (48, 41202),

Gene: TyDawg_58 Start: 40666, Stop: 41253, Start Num: 2

Candidate Starts for TyDawg_58:

(Start: 2 @40666 has 20 MA's), (6, 40711), (7, 40714), (8, 40717), (14, 40801), (27, 41020), (28, 41026), (29, 41032), (35, 41071), (44, 41158), (45, 41179), (47, 41200), (48, 41218),

Gene: Wildcat_68 Start: 45428, Stop: 45985, Start Num: 5

Candidate Starts for Wildcat_68:

(Start: 5 @45428 has 5 MA's), (7, 45443), (11, 45494), (13, 45509), (19, 45671), (20, 45677), (23, 45701), (24, 45710), (26, 45716), (30, 45770), (32, 45785), (34, 45797), (36, 45806), (39, 45848), (40, 45866), (41, 45872), (42, 45887), (46, 45926), (47, 45935), (50, 45968), (51, 45977),