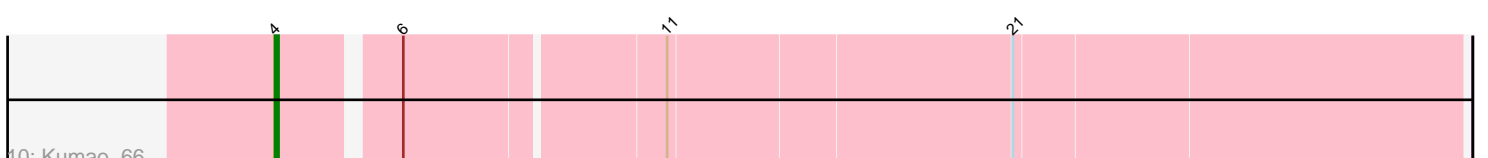
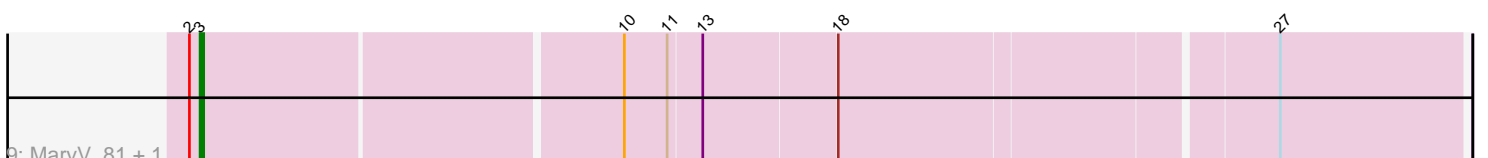
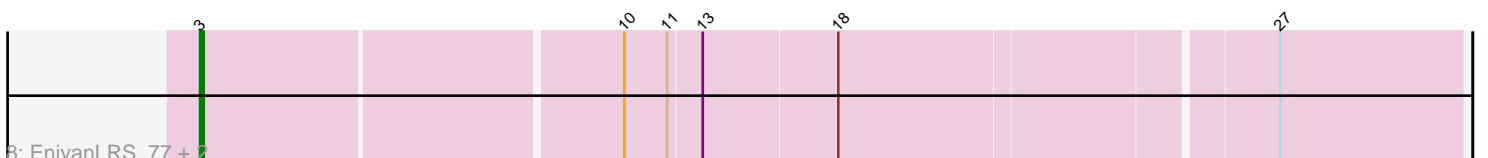
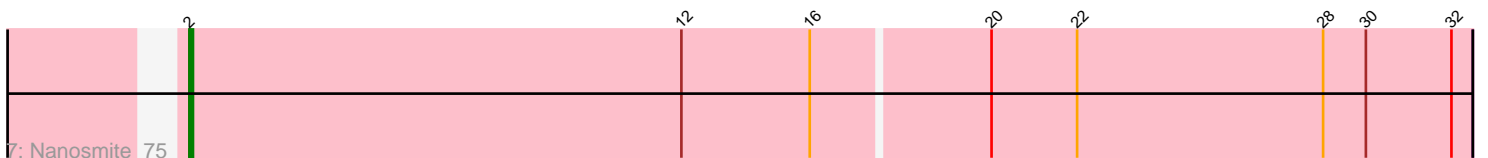
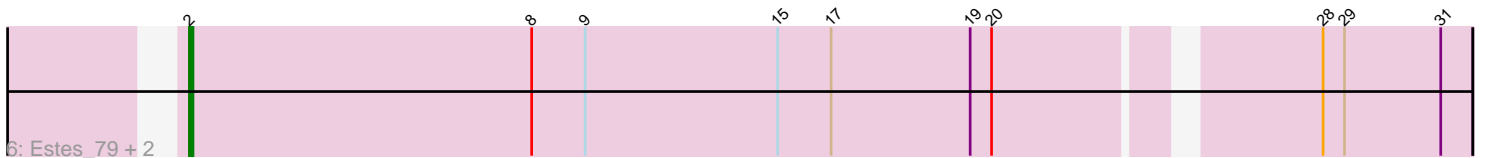
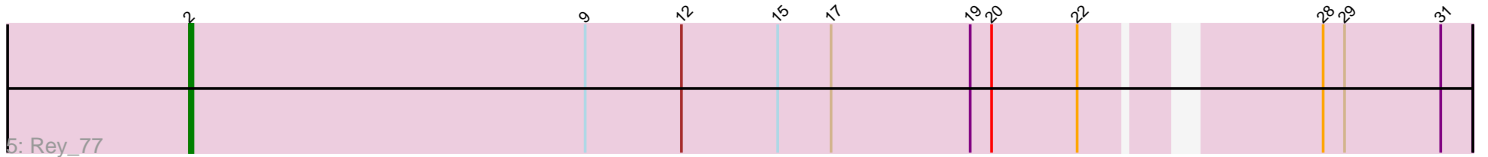
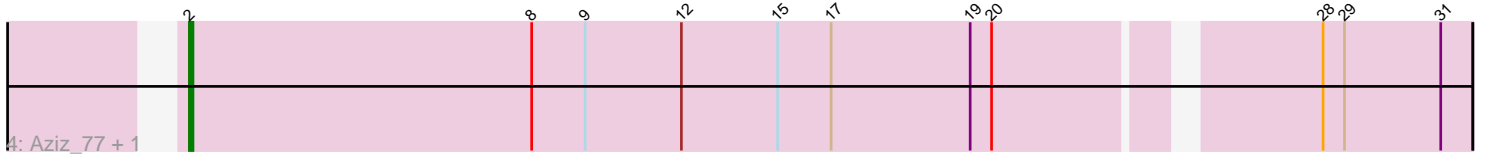
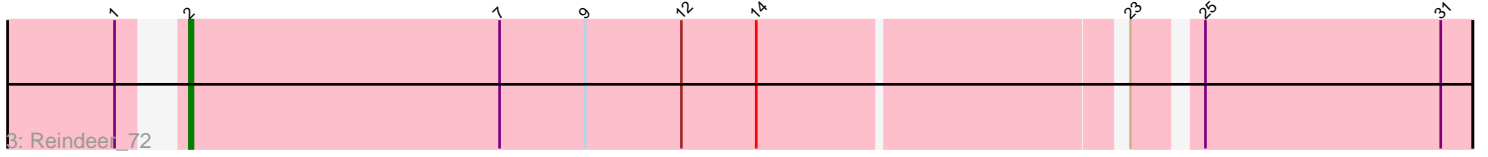
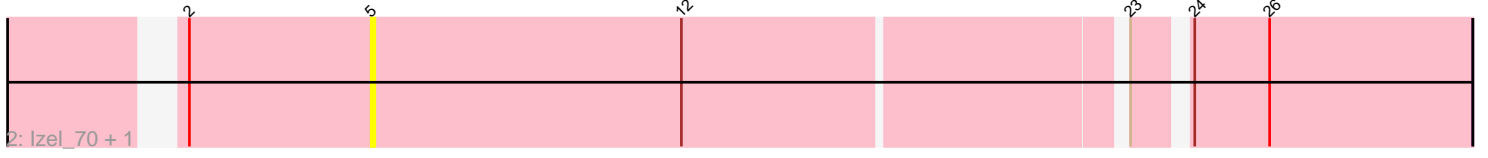
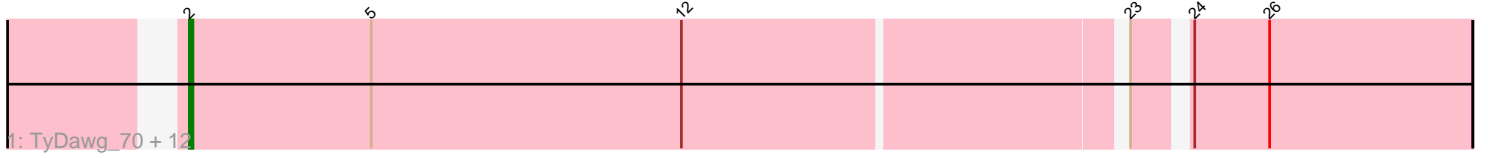


Pham 216442



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 216442 Report

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

Pham number 216442 has 29 members, 3 are drafts.

Phages represented in each track:

- Track 1 : TyDawg_70, Glaske16_72, Dulcita_71, PegLeg_69, Skinny_73, LilhomieP_70, Bongo_70, IPhane7_70, Diminimus_71, Auspice_70, SlimJimmy_70, Bricole_69, KleverKiS_69
- Track 2 : Izel_70, FreakyGoo_71
- Track 3 : Reindeer_72
- Track 4 : Aziz_77, GenevaB15_78
- Track 5 : Rey_77
- Track 6 : Estes_79, GardenSalsa_79, MrMagoo_80
- Track 7 : Nanosmite_75
- Track 8 : EniyanLRS_77, Azrael100_80, Cosmo_81
- Track 9 : MaryV_81, Wildcat_81
- Track 10 : Kumao_66

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_70, Aziz_77, Bongo_70, Bricole_69, Diminimus_71, Dulcita_71, Estes_79, GardenSalsa_79, GenevaB15_78, Glaske16_72, IPhane7_70, KleverKiS_69, LilhomieP_70, MrMagoo_80, Nanosmite_75, PegLeg_69, Reindeer_72, Rey_77, Skinny_73, SlimJimmy_70, TyDawg_70,

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

- FreakyGoo_71, Izel_70, MaryV_81, Wildcat_81,

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

- Azrael100_80, Cosmo_81, EniyanLRS_77, Kumao_66,

Summary by start number:

Start 2:

- Found in 25 of 29 (86.2%) of genes in pham

- Manual Annotations of this start: 20 of 26
- Called 84.0% of time when present
- Phage (with cluster) where this start called: Auspice_70 (M1), Aziz_77 (M2), Bongo_70 (M1), Bricole_69 (M1), Diminimus_71 (M1), Dulcita_71 (M1), Estes_79 (M2), GardenSalsa_79 (M2), GenevaB15_78 (M2), Glaske16_72 (M1), IPhone7_70 (M1), KleverKiS_69 (M1), LilhomieP_70 (M1), MrMagoo_80 (M2), Nanosmite_75 (M3), PegLeg_69 (M1), Reindeer_72 (M1), Rey_77 (M2), Skinny_73 (M1), SlimJimmy_70 (M1), TyDawg_70 (M1),

Start 3:

- 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_80 (V), Cosmo_81 (V), EniyanLRS_77 (V), MaryV_81 (V), Wildcat_81 (V),

Start 4:

- 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_66 (singleton),

Start 5:

- Found in 15 of 29 (51.7%) of genes in pham
- No Manual Annotations of this start.
- Called 13.3% of time when present
- Phage (with cluster) where this start called: FreakyGoo_71 (M1), Izel_70 (M1),

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 3 was manually annotated 5 times for cluster V.

Gene Information:

Gene: Auspice_70 Start: 46137, Stop: 46481, Start Num: 2

Candidate Starts for Auspice_70:

(Start: 2 @46137 has 20 MA's), (5, 46188), (12, 46275), (23, 46392), (24, 46404), (26, 46425),

Gene: Aziz_77 Start: 48177, Stop: 48524, Start Num: 2

Candidate Starts for Aziz_77:

(Start: 2 @48177 has 20 MA's), (8, 48273), (9, 48288), (12, 48315), (15, 48342), (17, 48357), (19, 48396), (20, 48402), (28, 48483), (29, 48489), (31, 48516),

Gene: Azrael100_80 Start: 51318, Stop: 51656, Start Num: 3

Candidate Starts for Azrael100_80:

(Start: 3 @51318 has 5 MA's), (10, 51432), (11, 51444), (13, 51453), (18, 51489), (27, 51606),

Gene: Bongo_70 Start: 46141, Stop: 46485, Start Num: 2

Candidate Starts for Bongo_70:

(Start: 2 @46141 has 20 MA's), (5, 46192), (12, 46279), (23, 46396), (24, 46408), (26, 46429),

Gene: Bricole_69 Start: 45863, Stop: 46207, Start Num: 2

Candidate Starts for Bricole_69:

(Start: 2 @45863 has 20 MA's), (5, 45914), (12, 46001), (23, 46118), (24, 46130), (26, 46151),

Gene: Cosmo_81 Start: 51319, Stop: 51657, Start Num: 3

Candidate Starts for Cosmo_81:

(Start: 3 @51319 has 5 MA's), (10, 51433), (11, 51445), (13, 51454), (18, 51490), (27, 51607),

Gene: Diminimus_71 Start: 46136, Stop: 46480, Start Num: 2

Candidate Starts for Diminimus_71:

(Start: 2 @46136 has 20 MA's), (5, 46187), (12, 46274), (23, 46391), (24, 46403), (26, 46424),

Gene: Dulcita_71 Start: 46137, Stop: 46481, Start Num: 2

Candidate Starts for Dulcita_71:

(Start: 2 @46137 has 20 MA's), (5, 46188), (12, 46275), (23, 46392), (24, 46404), (26, 46425),

Gene: EniyanLRS_77 Start: 51058, Stop: 51396, Start Num: 3

Candidate Starts for EniyanLRS_77:

(Start: 3 @51058 has 5 MA's), (10, 51172), (11, 51184), (13, 51193), (18, 51229), (27, 51346),

Gene: Estes_79 Start: 48524, Stop: 48871, Start Num: 2

Candidate Starts for Estes_79:

(Start: 2 @48524 has 20 MA's), (8, 48620), (9, 48635), (15, 48689), (17, 48704), (19, 48743), (20, 48749), (28, 48830), (29, 48836), (31, 48863),

Gene: FreakyGoo_71 Start: 46667, Stop: 46960, Start Num: 5

Candidate Starts for FreakyGoo_71:

(Start: 2 @46616 has 20 MA's), (5, 46667), (12, 46754), (23, 46871), (24, 46883), (26, 46904),

Gene: GardenSalsa_79 Start: 48728, Stop: 49075, Start Num: 2

Candidate Starts for GardenSalsa_79:

(Start: 2 @48728 has 20 MA's), (8, 48824), (9, 48839), (15, 48893), (17, 48908), (19, 48947), (20, 48953), (28, 49034), (29, 49040), (31, 49067),

Gene: GenevaB15_78 Start: 48177, Stop: 48524, Start Num: 2

Candidate Starts for GenevaB15_78:

(Start: 2 @48177 has 20 MA's), (8, 48273), (9, 48288), (12, 48315), (15, 48342), (17, 48357), (19, 48396), (20, 48402), (28, 48483), (29, 48489), (31, 48516),

Gene: Glaske16_72 Start: 46615, Stop: 46959, Start Num: 2

Candidate Starts for Glaske16_72:

(Start: 2 @46615 has 20 MA's), (5, 46666), (12, 46753), (23, 46870), (24, 46882), (26, 46903),

Gene: IPhane7_70 Start: 46141, Stop: 46485, Start Num: 2

Candidate Starts for IPhane7_70:

(Start: 2 @46141 has 20 MA's), (5, 46192), (12, 46279), (23, 46396), (24, 46408), (26, 46429),

Gene: Izel_70 Start: 46187, Stop: 46480, Start Num: 5

Candidate Starts for Izel_70:

(Start: 2 @46136 has 20 MA's), (5, 46187), (12, 46274), (23, 46391), (24, 46403), (26, 46424),

Gene: KleverKiS_69 Start: 45857, Stop: 46201, Start Num: 2

Candidate Starts for KleverKiS_69:

(Start: 2 @45857 has 20 MA's), (5, 45908), (12, 45995), (23, 46112), (24, 46124), (26, 46145),

Gene: Kumao_66 Start: 46834, Stop: 47148, Start Num: 4

Candidate Starts for Kumao_66:

(Start: 4 @46834 has 1 MA's), (6, 46864), (11, 46933), (21, 47026),

Gene: LilhomieP_70 Start: 46620, Stop: 46964, Start Num: 2

Candidate Starts for LilhomieP_70:

(Start: 2 @46620 has 20 MA's), (5, 46671), (12, 46758), (23, 46875), (24, 46887), (26, 46908),

Gene: MaryV_81 Start: 51140, Stop: 51478, Start Num: 3

Candidate Starts for MaryV_81:

(Start: 2 @51137 has 20 MA's), (Start: 3 @51140 has 5 MA's), (10, 51254), (11, 51266), (13, 51275), (18, 51311), (27, 51428),

Gene: MrMagoo_80 Start: 48728, Stop: 49075, Start Num: 2

Candidate Starts for MrMagoo_80:

(Start: 2 @48728 has 20 MA's), (8, 48824), (9, 48839), (15, 48893), (17, 48908), (19, 48947), (20, 48953), (28, 49034), (29, 49040), (31, 49067),

Gene: Nanosmite_75 Start: 47763, Stop: 48119, Start Num: 2

Candidate Starts for Nanosmite_75:

(Start: 2 @47763 has 20 MA's), (12, 47901), (16, 47937), (20, 47985), (22, 48009), (28, 48078), (30, 48090), (32, 48114),

Gene: PegLeg_69 Start: 45880, Stop: 46224, Start Num: 2

Candidate Starts for PegLeg_69:

(Start: 2 @45880 has 20 MA's), (5, 45931), (12, 46018), (23, 46135), (24, 46147), (26, 46168),

Gene: Reindeer_72 Start: 47274, Stop: 47618, Start Num: 2

Candidate Starts for Reindeer_72:

(1, 47265), (Start: 2 @47274 has 20 MA's), (7, 47361), (9, 47385), (12, 47412), (14, 47433), (23, 47529), (25, 47544), (31, 47610),

Gene: Rey_77 Start: 48401, Stop: 48748, Start Num: 2

Candidate Starts for Rey_77:

(Start: 2 @48401 has 20 MA's), (9, 48512), (12, 48539), (15, 48566), (17, 48581), (19, 48620), (20, 48626), (22, 48650), (28, 48707), (29, 48713), (31, 48740),

Gene: Skinny_73 Start: 47049, Stop: 47393, Start Num: 2

Candidate Starts for Skinny_73:

(Start: 2 @47049 has 20 MA's), (5, 47100), (12, 47187), (23, 47304), (24, 47316), (26, 47337),

Gene: SlimJimmy_70 Start: 46604, Stop: 46948, Start Num: 2

Candidate Starts for SlimJimmy_70:

(Start: 2 @46604 has 20 MA's), (5, 46655), (12, 46742), (23, 46859), (24, 46871), (26, 46892),

Gene: TyDawg_70 Start: 46141, Stop: 46485, Start Num: 2

Candidate Starts for TyDawg_70:

(Start: 2 @46141 has 20 MA's), (5, 46192), (12, 46279), (23, 46396), (24, 46408), (26, 46429),

Gene: Wildcat_81 Start: 51150, Stop: 51488, Start Num: 3

Candidate Starts for Wildcat_81:

(Start: 2 @51147 has 20 MA's), (Start: 3 @51150 has 5 MA's), (10, 51264), (11, 51276), (13, 51285),
(18, 51321), (27, 51438),