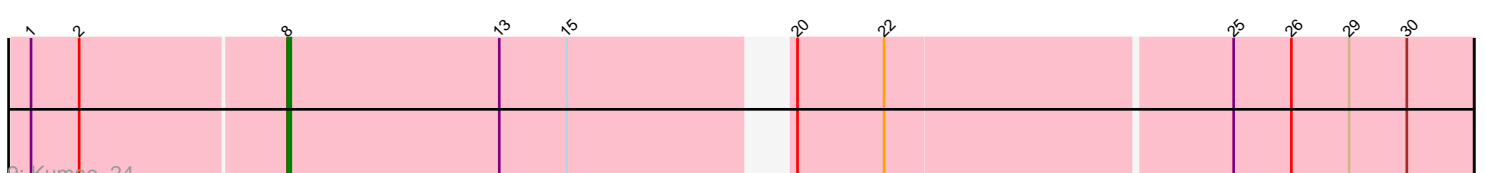
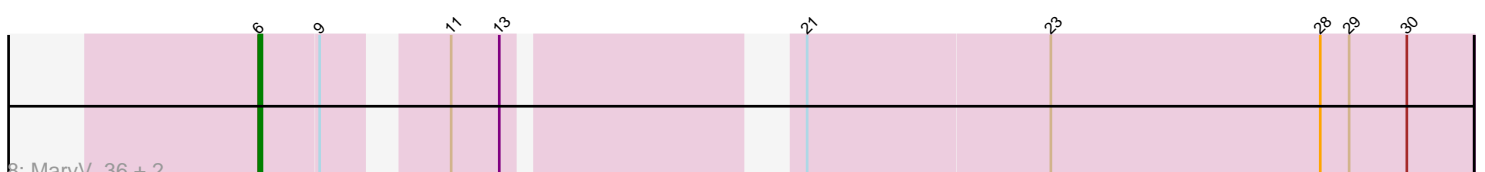
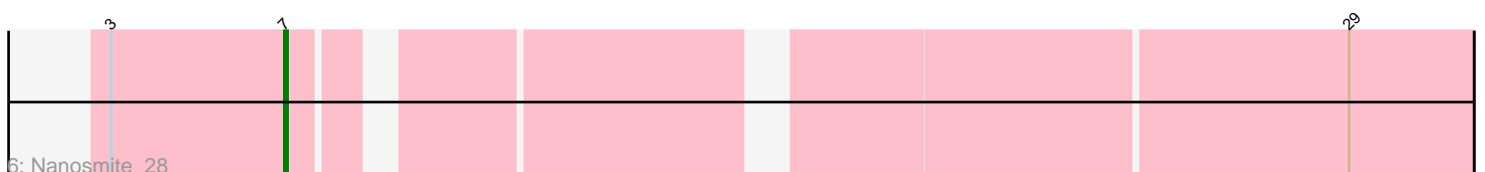
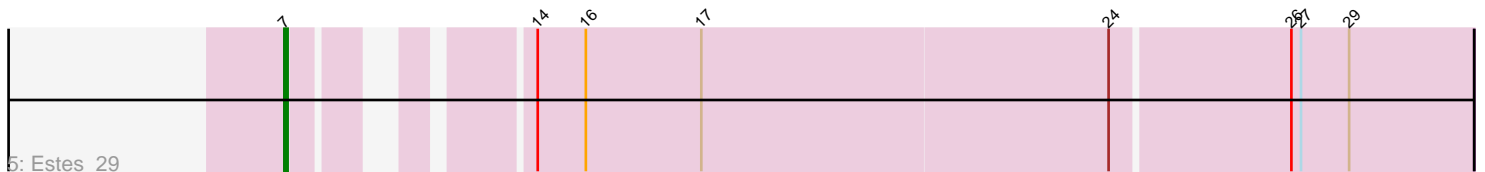
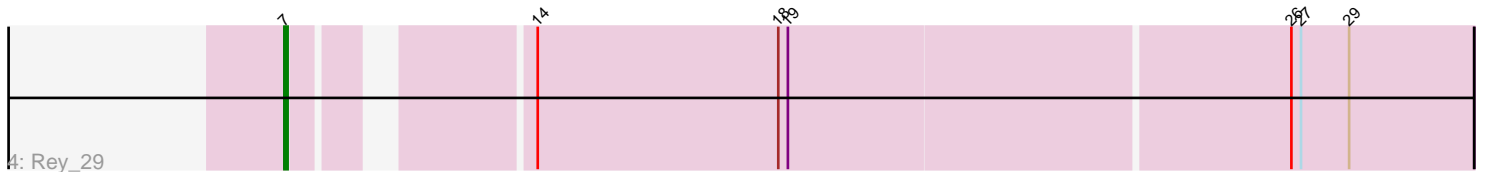
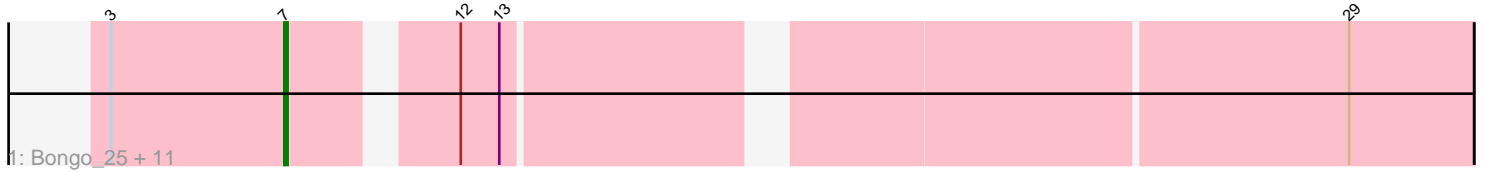


Pham 216440



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 216440 Report

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

Pham number 216440 has 29 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Bongo_25, LilhomieP_23, PegLeg_24, Izel_23, Auspice_24, TyDawg_24, Glaske16_25, IPhane7_24, Dulcita_25, Diminimus_25, FreakyGoo_24, Skinny_25
- Track 2 : SlimJimmy_23, KleverKiS_24, Reindeer_22, Bricole_24
- Track 3 : Aziz_28, GenevaB15_28, MrMagoo_28, GardenSalsa_28
- Track 4 : Rey_29
- Track 5 : Estes_29
- Track 6 : Nanosmite_28
- Track 7 : Cosmo_36, Azrael100_35
- Track 8 : MaryV_36, Wildcat_36, EniyanLRS_33
- Track 9 : Kumao_24

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

The start number called the most often in the published annotations is 7, it was called in 20 of the 26 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Auspice_24, Aziz_28, Bongo_25, Bricole_24, Diminimus_25, Dulcita_25, Estes_29, FreakyGoo_24, GardenSalsa_28, GenevaB15_28, Glaske16_25, IPhane7_24, Izel_23, KleverKiS_24, LilhomieP_23, MrMagoo_28, Nanosmite_28, PegLeg_24, Reindeer_22, Rey_29, Skinny_25, SlimJimmy_23, TyDawg_24,

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

-

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

- Azrael100_35, Cosmo_36, EniyanLRS_33, Kumao_24, MaryV_36, Wildcat_36,

Summary by start number:

Start 6:

- 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_35 (V), Cosmo_36 (V), EniyanLRS_33 (V), MaryV_36 (V), Wildcat_36 (V),

Start 7:

- 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_24 (M1), Aziz_28 (M2), Bongo_25 (M1), Bricole_24 (M1), Diminimus_25 (M1), Dulcita_25 (M1), Estes_29 (M2), FreakyGoo_24 (M1), GardenSalsa_28 (M2), GenevaB15_28 (M2), Glaske16_25 (M1), IPhane7_24 (M1), Izel_23 (M1), KleverKiS_24 (M1), LilhomieP_23 (M1), MrMagoo_28 (M2), Nanosmite_28 (M3), PegLeg_24 (M1), Reindeer_22 (M1), Rey_29 (M2), Skinny_25 (M1), SlimJimmy_23 (M1), TyDawg_24 (M1),

Start 8:

- 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_24 (singleton),

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 7 was manually annotated 13 times for cluster M1.

Info for manual annotations of cluster M2:

- Start number 7 was manually annotated 6 times for cluster M2.

Info for manual annotations of cluster M3:

- Start number 7 was manually annotated 1 time for cluster M3.

Info for manual annotations of cluster V:

- Start number 6 was manually annotated 5 times for cluster V.

Gene Information:

Gene: Auspice_24 Start: 13804, Stop: 14139, Start Num: 7

Candidate Starts for Auspice_24:

(3, 13750), (Start: 7 @13804 has 20 MA's), (12, 13846), (13, 13858), (29, 14101),

Gene: Aziz_28 Start: 14380, Stop: 14721, Start Num: 7

Candidate Starts for Aziz_28:

(Start: 7 @14380 has 20 MA's), (10, 14407), (14, 14434), (16, 14449), (17, 14485), (24, 14611), (26, 14665), (27, 14668), (29, 14683),

Gene: Azrael100_35 Start: 16947, Stop: 17291, Start Num: 6

Candidate Starts for Azrael100_35:

(4, 16911), (5, 16929), (Start: 6 @16947 has 5 MA's), (9, 16965), (11, 16995), (13, 17010), (21, 17085), (23, 17160), (28, 17244), (29, 17253), (30, 17271),

Gene: Bongo_25 Start: 13804, Stop: 14139, Start Num: 7

Candidate Starts for Bongo_25:

(3, 13750), (Start: 7 @13804 has 20 MA's), (12, 13846), (13, 13858), (29, 14101),

Gene: Bricole_24 Start: 13802, Stop: 14125, Start Num: 7

Candidate Starts for Bricole_24:

(Start: 7 @13802 has 20 MA's), (14, 13853), (29, 14087),

Gene: Cosmo_36 Start: 16954, Stop: 17298, Start Num: 6

Candidate Starts for Cosmo_36:

(4, 16918), (5, 16936), (Start: 6 @16954 has 5 MA's), (9, 16972), (11, 17002), (13, 17017), (21, 17092), (23, 17167), (28, 17251), (29, 17260), (30, 17278),

Gene: Diminimus_25 Start: 13803, Stop: 14138, Start Num: 7

Candidate Starts for Diminimus_25:

(3, 13749), (Start: 7 @13803 has 20 MA's), (12, 13845), (13, 13857), (29, 14100),

Gene: Dulcita_25 Start: 13803, Stop: 14138, Start Num: 7

Candidate Starts for Dulcita_25:

(3, 13749), (Start: 7 @13803 has 20 MA's), (12, 13845), (13, 13857), (29, 14100),

Gene: EniyanLRS_33 Start: 16652, Stop: 16996, Start Num: 6

Candidate Starts for EniyanLRS_33:

(Start: 6 @16652 has 5 MA's), (9, 16670), (11, 16700), (13, 16715), (21, 16790), (23, 16865), (28, 16949), (29, 16958), (30, 16976),

Gene: Estes_29 Start: 14517, Stop: 14858, Start Num: 7

Candidate Starts for Estes_29:

(Start: 7 @14517 has 20 MA's), (14, 14571), (16, 14586), (17, 14622), (24, 14748), (26, 14802), (27, 14805), (29, 14820),

Gene: FreakyGoo_24 Start: 13804, Stop: 14139, Start Num: 7

Candidate Starts for FreakyGoo_24:

(3, 13750), (Start: 7 @13804 has 20 MA's), (12, 13846), (13, 13858), (29, 14101),

Gene: GardenSalsa_28 Start: 14353, Stop: 14694, Start Num: 7

Candidate Starts for GardenSalsa_28:

(Start: 7 @14353 has 20 MA's), (10, 14380), (14, 14407), (16, 14422), (17, 14458), (24, 14584), (26, 14638), (27, 14641), (29, 14656),

Gene: GenevaB15_28 Start: 14380, Stop: 14721, Start Num: 7

Candidate Starts for GenevaB15_28:

(Start: 7 @14380 has 20 MA's), (10, 14407), (14, 14434), (16, 14449), (17, 14485), (24, 14611), (26, 14665), (27, 14668), (29, 14683),

Gene: Glaske16_25 Start: 13803, Stop: 14138, Start Num: 7

Candidate Starts for Glaske16_25:

(3, 13749), (Start: 7 @13803 has 20 MA's), (12, 13845), (13, 13857), (29, 14100),

Gene: IPhone7_24 Start: 13804, Stop: 14139, Start Num: 7

Candidate Starts for IPhone7_24:

(3, 13750), (Start: 7 @13804 has 20 MA's), (12, 13846), (13, 13858), (29, 14101),

Gene: Izel_23 Start: 13803, Stop: 14138, Start Num: 7

Candidate Starts for Izel_23:

(3, 13749), (Start: 7 @13803 has 20 MA's), (12, 13845), (13, 13857), (29, 14100),

Gene: KleverKiS_24 Start: 13799, Stop: 14122, Start Num: 7

Candidate Starts for KleverKiS_24:

(Start: 7 @13799 has 20 MA's), (14, 13850), (29, 14084),

Gene: Kumao_24 Start: 13644, Stop: 13994, Start Num: 8

Candidate Starts for Kumao_24:

(1, 13566), (2, 13581), (Start: 8 @13644 has 1 MA's), (13, 13710), (15, 13731), (20, 13788), (22, 13815), (25, 13920), (26, 13938), (29, 13956), (30, 13974),

Gene: LilhomieP_23 Start: 13804, Stop: 14139, Start Num: 7

Candidate Starts for LilhomieP_23:

(3, 13750), (Start: 7 @13804 has 20 MA's), (12, 13846), (13, 13858), (29, 14101),

Gene: MaryV_36 Start: 16924, Stop: 17268, Start Num: 6

Candidate Starts for MaryV_36:

(Start: 6 @16924 has 5 MA's), (9, 16942), (11, 16972), (13, 16987), (21, 17062), (23, 17137), (28, 17221), (29, 17230), (30, 17248),

Gene: MrMagoo_28 Start: 14353, Stop: 14694, Start Num: 7

Candidate Starts for MrMagoo_28:

(Start: 7 @14353 has 20 MA's), (10, 14380), (14, 14407), (16, 14422), (17, 14458), (24, 14584), (26, 14638), (27, 14641), (29, 14656),

Gene: Nanosmite_28 Start: 14576, Stop: 14908, Start Num: 7

Candidate Starts for Nanosmite_28:

(3, 14522), (Start: 7 @14576 has 20 MA's), (29, 14870),

Gene: PegLeg_24 Start: 13803, Stop: 14138, Start Num: 7

Candidate Starts for PegLeg_24:

(3, 13749), (Start: 7 @13803 has 20 MA's), (12, 13845), (13, 13857), (29, 14100),

Gene: Reindeer_22 Start: 13656, Stop: 13979, Start Num: 7

Candidate Starts for Reindeer_22:

(Start: 7 @13656 has 20 MA's), (14, 13707), (29, 13941),

Gene: Rey_29 Start: 14582, Stop: 14929, Start Num: 7

Candidate Starts for Rey_29:

(Start: 7 @14582 has 20 MA's), (14, 14642), (18, 14717), (19, 14720), (26, 14873), (27, 14876), (29, 14891),

Gene: Skinny_25 Start: 13804, Stop: 14139, Start Num: 7

Candidate Starts for Skinny_25:

(3, 13750), (Start: 7 @13804 has 20 MA's), (12, 13846), (13, 13858), (29, 14101),

Gene: SlimJimmy_23 Start: 13802, Stop: 14125, Start Num: 7

Candidate Starts for SlimJimmy_23:

(Start: 7 @13802 has 20 MA's), (14, 13853), (29, 14087),

Gene: TyDawg_24 Start: 13804, Stop: 14139, Start Num: 7

Candidate Starts for TyDawg_24:

(3, 13750), (Start: 7 @13804 has 20 MA's), (12, 13846), (13, 13858), (29, 14101),

Gene: Wildcat_36 Start: 16934, Stop: 17278, Start Num: 6

Candidate Starts for Wildcat_36:

(Start: 6 @16934 has 5 MA's), (9, 16952), (11, 16982), (13, 16997), (21, 17072), (23, 17147), (28, 17231), (29, 17240), (30, 17258),