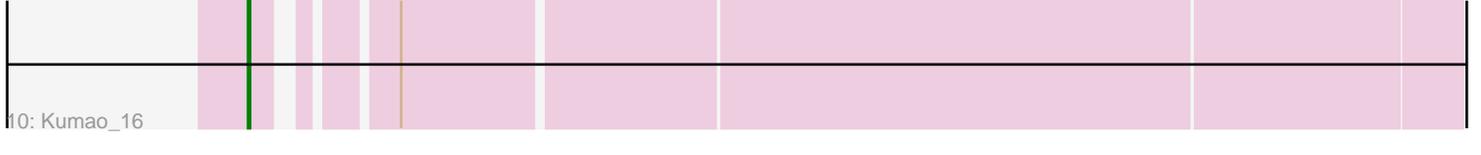
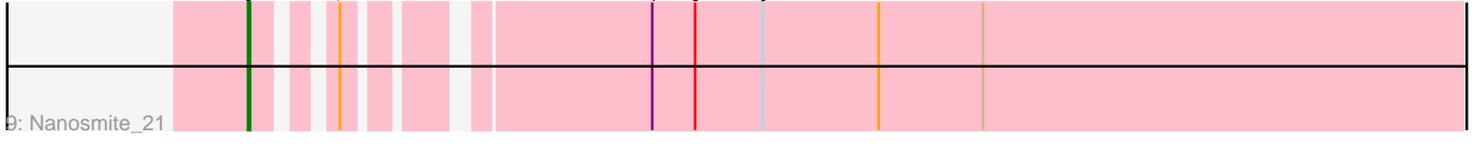
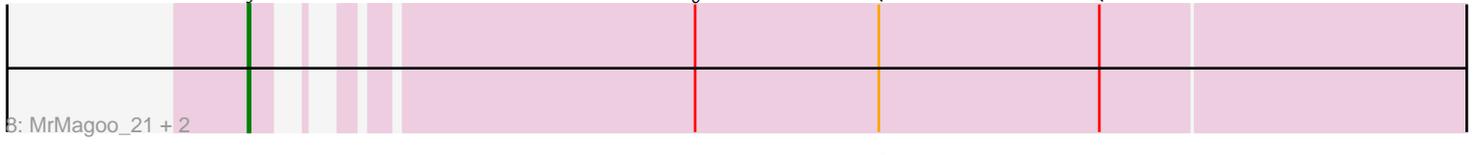
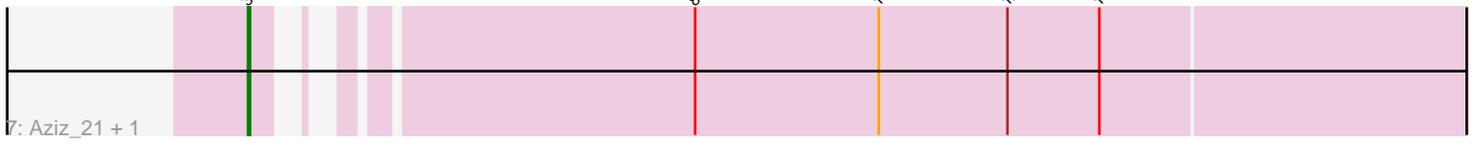
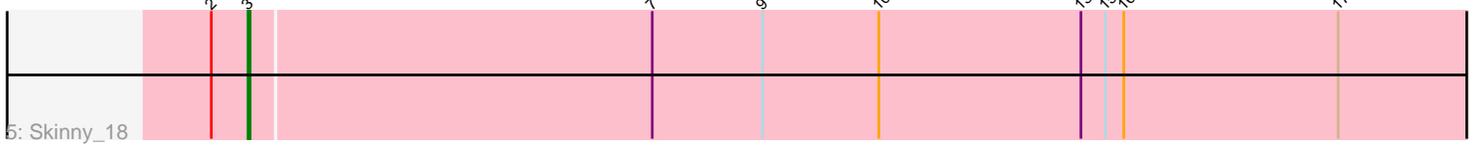
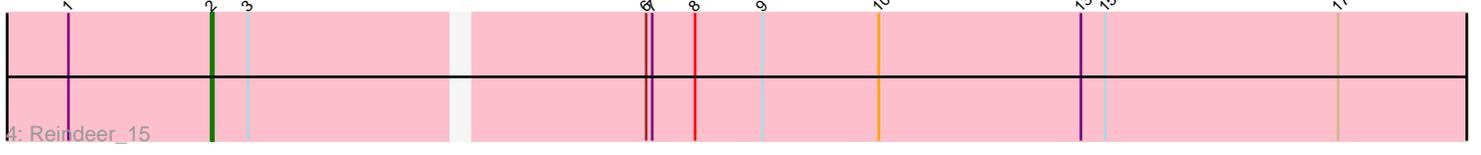
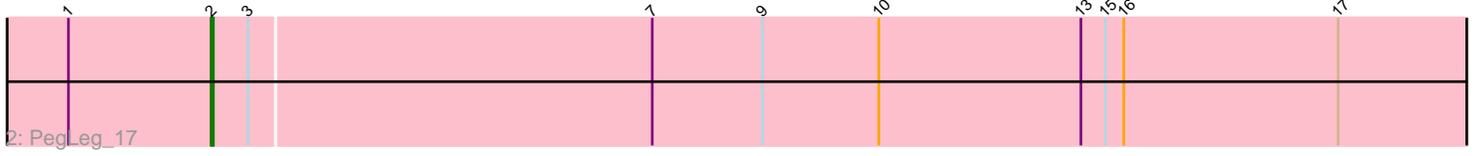
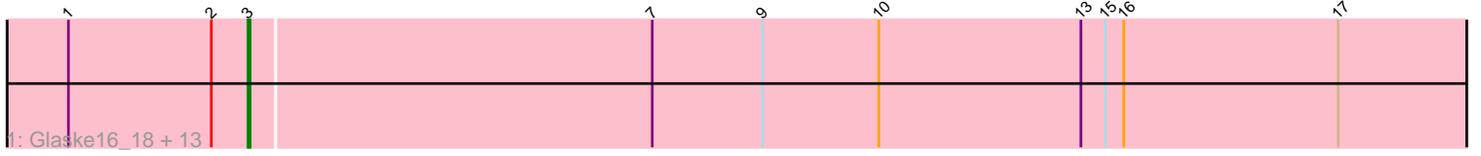


Pham 284110



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 284110 Report

This analysis was run 02/23/26 on database version 636.

Pham number 284110 has 26 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Glaske16_18, Bricole_17, TpudiCK_18, IPhane7_17, SlimJimmy_16, Bongo_17, FreakyGoo_18, Dulcita_18, Diminimus_18, KleverKiS_17, Izel_18, LilhomieP_16, TyDawg_17, Auspice_17
- Track 2 : PegLeg_17
- Track 3 : RoseMarie_17
- Track 4 : Reindeer_15
- Track 5 : Skinny_18
- Track 6 : Rey_21
- Track 7 : Aziz_21, GenevaB15_21
- Track 8 : MrMagoo_21, Estes_22, GardenSalsa_21
- Track 9 : Nanosmite_21
- Track 10 : Kumao_16

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

The start number called the most often in the published annotations is 3, it was called in 21 of the 23 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Auspice_17, Aziz_21, Bongo_17, Bricole_17, Diminimus_18, Dulcita_18, Estes_22, FreakyGoo_18, GardenSalsa_21, GenevaB15_21, Glaske16_18, IPhane7_17, Izel_18, KleverKiS_17, Kumao_16, LilhomieP_16, MrMagoo_21, Nanosmite_21, Rey_21, RoseMarie_17, Skinny_18, SlimJimmy_16, TpudiCK_18, TyDawg_17,

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

- PegLeg_17, Reindeer_15,

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

-

Summary by start number:

Start 2:

- Found in 18 of 26 (69.2%) of genes in pham

- Manual Annotations of this start: 2 of 23
- Called 11.1% of time when present
- Phage (with cluster) where this start called: PegLeg_17 (M1), Reindeer_15 (M1),

Start 3:

- Found in 26 of 26 (100.0%) of genes in pham
- Manual Annotations of this start: 21 of 23
- Called 92.3% of time when present
- Phage (with cluster) where this start called: Auspice_17 (M1), Aziz_21 (M2), Bongo_17 (M1), Bricole_17 (M1), Diminimus_18 (M1), Dulcita_18 (M1), Estes_22 (M2), FreakyGoo_18 (M1), GardenSalsa_21 (M2), GenevaB15_21 (M2), Glaske16_18 (M1), IPhane7_17 (M1), Izel_18 (M1), KleverKiS_17 (M1), Kumao_16 (singleton), LilhomieP_16 (M1), MrMagoo_21 (M2), Nanosmite_21 (M3), Rey_21 (M2), RoseMarie_17 (M1), Skinny_18 (M1), SlimJimmy_16 (M1), TpudiCK_18 (M1), TyDawg_17 (M1),

Summary by clusters:

There are 4 clusters represented in this pham: singleton, M1, M3, M2,

Info for manual annotations of cluster M1:

- Start number 2 was manually annotated 2 times for cluster M1.
- Start number 3 was manually annotated 13 times for cluster M1.

Info for manual annotations of cluster M2:

- Start number 3 was manually annotated 6 times for cluster M2.

Info for manual annotations of cluster M3:

- Start number 3 was manually annotated 1 time for cluster M3.

Gene Information:

Gene: Auspice_17 Start: 9093, Stop: 9809, Start Num: 3

Candidate Starts for Auspice_17:

(1, 9006), (Start: 2 @9075 has 2 MA's), (Start: 3 @9093 has 21 MA's), (7, 9288), (9, 9342), (10, 9399), (13, 9498), (15, 9510), (16, 9519), (17, 9624),

Gene: Aziz_21 Start: 9693, Stop: 10367, Start Num: 3

Candidate Starts for Aziz_21:

(Start: 3 @9693 has 21 MA's), (8, 9870), (10, 9960), (12, 10023), (14, 10068),

Gene: Bongo_17 Start: 9093, Stop: 9809, Start Num: 3

Candidate Starts for Bongo_17:

(1, 9006), (Start: 2 @9075 has 2 MA's), (Start: 3 @9093 has 21 MA's), (7, 9288), (9, 9342), (10, 9399), (13, 9498), (15, 9510), (16, 9519), (17, 9624),

Gene: Bricole_17 Start: 9092, Stop: 9808, Start Num: 3

Candidate Starts for Bricole_17:

(1, 9005), (Start: 2 @9074 has 2 MA's), (Start: 3 @9092 has 21 MA's), (7, 9287), (9, 9341), (10, 9398), (13, 9497), (15, 9509), (16, 9518), (17, 9623),

Gene: Diminimus_18 Start: 9092, Stop: 9808, Start Num: 3

Candidate Starts for Diminimus_18:

(1, 9005), (Start: 2 @9074 has 2 MA's), (Start: 3 @9092 has 21 MA's), (7, 9287), (9, 9341), (10, 9398), (13, 9497), (15, 9509), (16, 9518), (17, 9623),

Gene: Dulcita_18 Start: 9092, Stop: 9808, Start Num: 3

Candidate Starts for Dulcita_18:

(1, 9005), (Start: 2 @9074 has 2 MA's), (Start: 3 @9092 has 21 MA's), (7, 9287), (9, 9341), (10, 9398), (13, 9497), (15, 9509), (16, 9518), (17, 9623),

Gene: Estes_22 Start: 9832, Stop: 10506, Start Num: 3

Candidate Starts for Estes_22:

(Start: 3 @9832 has 21 MA's), (8, 10009), (10, 10099), (14, 10207),

Gene: FreakyGoo_18 Start: 9093, Stop: 9809, Start Num: 3

Candidate Starts for FreakyGoo_18:

(1, 9006), (Start: 2 @9075 has 2 MA's), (Start: 3 @9093 has 21 MA's), (7, 9288), (9, 9342), (10, 9399), (13, 9498), (15, 9510), (16, 9519), (17, 9624),

Gene: GardenSalsa_21 Start: 9666, Stop: 10340, Start Num: 3

Candidate Starts for GardenSalsa_21:

(Start: 3 @9666 has 21 MA's), (8, 9843), (10, 9933), (14, 10041),

Gene: GenevaB15_21 Start: 9693, Stop: 10367, Start Num: 3

Candidate Starts for GenevaB15_21:

(Start: 3 @9693 has 21 MA's), (8, 9870), (10, 9960), (12, 10023), (14, 10068),

Gene: Glaske16_18 Start: 9092, Stop: 9808, Start Num: 3

Candidate Starts for Glaske16_18:

(1, 9005), (Start: 2 @9074 has 2 MA's), (Start: 3 @9092 has 21 MA's), (7, 9287), (9, 9341), (10, 9398), (13, 9497), (15, 9509), (16, 9518), (17, 9623),

Gene: IPHane7_17 Start: 9093, Stop: 9809, Start Num: 3

Candidate Starts for IPHane7_17:

(1, 9006), (Start: 2 @9075 has 2 MA's), (Start: 3 @9093 has 21 MA's), (7, 9288), (9, 9342), (10, 9399), (13, 9498), (15, 9510), (16, 9519), (17, 9624),

Gene: Izel_18 Start: 9092, Stop: 9808, Start Num: 3

Candidate Starts for Izel_18:

(1, 9005), (Start: 2 @9074 has 2 MA's), (Start: 3 @9092 has 21 MA's), (7, 9287), (9, 9341), (10, 9398), (13, 9497), (15, 9509), (16, 9518), (17, 9623),

Gene: KleverKiS_17 Start: 9089, Stop: 9805, Start Num: 3

Candidate Starts for KleverKiS_17:

(1, 9002), (Start: 2 @9071 has 2 MA's), (Start: 3 @9089 has 21 MA's), (7, 9284), (9, 9338), (10, 9395), (13, 9494), (15, 9506), (16, 9515), (17, 9620),

Gene: Kumao_16 Start: 8489, Stop: 9151, Start Num: 3

Candidate Starts for Kumao_16:

(Start: 3 @8489 has 21 MA's), (5, 8540),

Gene: LilhomieP_16 Start: 9093, Stop: 9809, Start Num: 3

Candidate Starts for LilhomieP_16:

(1, 9006), (Start: 2 @9075 has 2 MA's), (Start: 3 @9093 has 21 MA's), (7, 9288), (9, 9342), (10, 9399), (13, 9498), (15, 9510), (16, 9519), (17, 9624),

Gene: MrMagoo_21 Start: 9666, Stop: 10340, Start Num: 3

Candidate Starts for MrMagoo_21:

(Start: 3 @9666 has 21 MA's), (8, 9843), (10, 9933), (14, 10041),

Gene: Nanosmite_21 Start: 9886, Stop: 10557, Start Num: 3

Candidate Starts for Nanosmite_21:

(Start: 3 @9886 has 21 MA's), (4, 9913), (7, 10039), (8, 10060), (9, 10093), (10, 10150), (11, 10201),

Gene: PegLeg_17 Start: 9074, Stop: 9808, Start Num: 2

Candidate Starts for PegLeg_17:

(1, 9005), (Start: 2 @9074 has 2 MA's), (Start: 3 @9092 has 21 MA's), (7, 9287), (9, 9341), (10, 9398), (13, 9497), (15, 9509), (16, 9518), (17, 9623),

Gene: Reindeer_15 Start: 8937, Stop: 9662, Start Num: 2

Candidate Starts for Reindeer_15:

(1, 8868), (Start: 2 @8937 has 2 MA's), (Start: 3 @8955 has 21 MA's), (6, 9138), (7, 9141), (8, 9162), (9, 9195), (10, 9252), (13, 9351), (15, 9363), (17, 9477),

Gene: Rey_21 Start: 9898, Stop: 10575, Start Num: 3

Candidate Starts for Rey_21:

(Start: 3 @9898 has 21 MA's), (10, 10165), (13, 10264),

Gene: RoseMarie_17 Start: 9337, Stop: 10053, Start Num: 3

Candidate Starts for RoseMarie_17:

(1, 9250), (Start: 2 @9319 has 2 MA's), (Start: 3 @9337 has 21 MA's), (6, 9529), (8, 9553), (9, 9586), (10, 9643), (13, 9742), (18, 9901),

Gene: Skinny_18 Start: 9093, Stop: 9809, Start Num: 3

Candidate Starts for Skinny_18:

(Start: 2 @9075 has 2 MA's), (Start: 3 @9093 has 21 MA's), (7, 9288), (9, 9342), (10, 9399), (13, 9498), (15, 9510), (16, 9519), (17, 9624),

Gene: SlimJimmy_16 Start: 9092, Stop: 9808, Start Num: 3

Candidate Starts for SlimJimmy_16:

(1, 9005), (Start: 2 @9074 has 2 MA's), (Start: 3 @9092 has 21 MA's), (7, 9287), (9, 9341), (10, 9398), (13, 9497), (15, 9509), (16, 9518), (17, 9623),

Gene: TpudiCK_18 Start: 9092, Stop: 9808, Start Num: 3

Candidate Starts for TpudiCK_18:

(1, 9005), (Start: 2 @9074 has 2 MA's), (Start: 3 @9092 has 21 MA's), (7, 9287), (9, 9341), (10, 9398), (13, 9497), (15, 9509), (16, 9518), (17, 9623),

Gene: TyDawg_17 Start: 9093, Stop: 9809, Start Num: 3

Candidate Starts for TyDawg_17:

(1, 9006), (Start: 2 @9075 has 2 MA's), (Start: 3 @9093 has 21 MA's), (7, 9288), (9, 9342), (10, 9399), (13, 9498), (15, 9510), (16, 9519), (17, 9624),