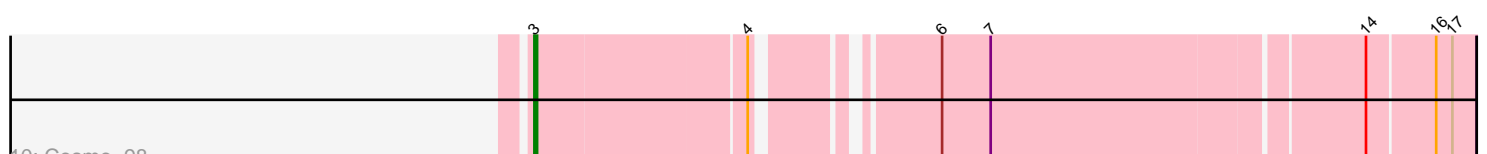
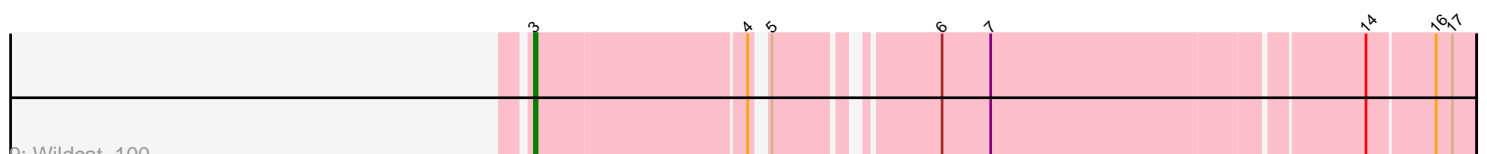
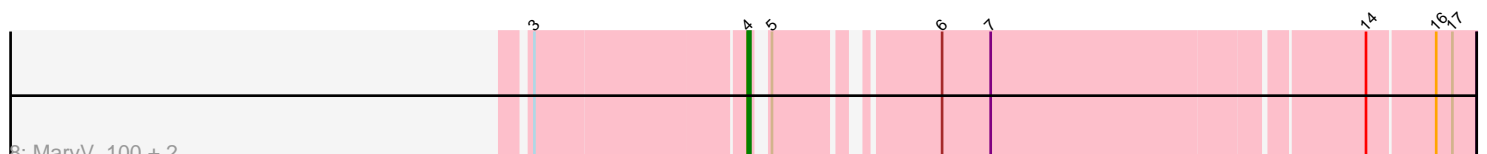
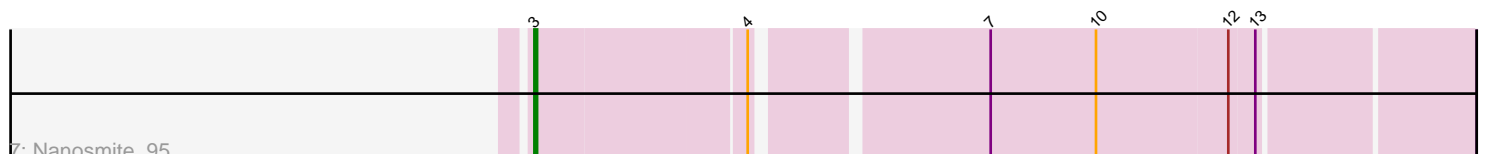
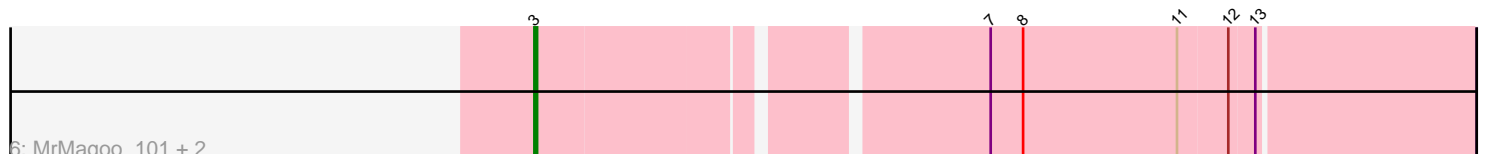


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 216459 Report

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

Pham number 216459 has 28 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Bavidard\_1
- Track 2 : SlimJimmy\_89, PegLeg\_88, Glaske16\_91, Izel\_88, LilhomieP\_89, Diminimus\_91, IPhane7\_88, Bongo\_89, FreakyGoo\_89, TyDawg\_89, Bricole\_88, Skinny\_93, Auspice\_90, Dulcita\_91
- Track 3 : Reindeer\_90
- Track 4 : GenevaB15\_102, Aziz\_100
- Track 5 : Rey\_101
- Track 6 : MrMagoo\_101, Estes\_100, GardenSalsa\_100
- Track 7 : Nanosmite\_95
- Track 8 : MaryV\_100, EniyanLRS\_95, Azrael100\_97
- Track 9 : Wildcat\_100
- Track 10 : Cosmo\_98

### ***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 22 of the 25 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Auspice\_90, Aziz\_100, Bongo\_89, Bricole\_88, Cosmo\_98, Diminimus\_91, Dulcita\_91, Estes\_100, FreakyGoo\_89, GardenSalsa\_100, GenevaB15\_102, Glaske16\_91, IPhane7\_88, Izel\_88, LilhomieP\_89, MrMagoo\_101, Nanosmite\_95, PegLeg\_88, Reindeer\_90, Rey\_101, Skinny\_93, SlimJimmy\_89, TyDawg\_89, Wildcat\_100,

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

- Azrael100\_97, EniyanLRS\_95, MaryV\_100,

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

- Bavidard\_1,

### **Summary by start number:**

Start 3:

- Found in 27 of 28 ( 96.4% ) of genes in pham
- Manual Annotations of this start: 22 of 25
- Called 88.9% of time when present
- Phage (with cluster) where this start called: Auspice\_90 (M1), Aziz\_100 (M2), Bongo\_89 (M1), Bricole\_88 (M1), Cosmo\_98 (V), Diminimus\_91 (M1), Dulcita\_91 (M1), Estes\_100 (M2), FreakyGoo\_89 (M1), GardenSalsa\_100 (M2), GenevaB15\_102 (M2), Glaske16\_91 (M1), IPhone7\_88 (M1), Izel\_88 (M1), LilhomieP\_89 (M1), MrMagoo\_101 (M2), Nanosmite\_95 (M3), PegLeg\_88 (M1), Reindeer\_90 (M1), Rey\_101 (M2), Skinny\_93 (M1), SlimJimmy\_89 (M1), TyDawg\_89 (M1), Wildcat\_100 (V),

Start 4:

- Found in 6 of 28 ( 21.4% ) of genes in pham
- Manual Annotations of this start: 3 of 25
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Azrael100\_97 (V), EniyanLRS\_95 (V), MaryV\_100 (V),

Start 5:

- Found in 5 of 28 ( 17.9% ) of genes in pham
- No Manual Annotations of this start.
- Called 20.0% of time when present
- Phage (with cluster) where this start called: Bavidard\_1 (CT),

### **Summary by clusters:**

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

Info for manual annotations of 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.

Info for manual annotations of cluster V:

- Start number 3 was manually annotated 2 times for cluster V.
- Start number 4 was manually annotated 3 times for cluster V.

### **Gene Information:**

Gene: Auspice\_90 Start: 53928, Stop: 54254, Start Num: 3

Candidate Starts for Auspice\_90:

(Start: 3 @53928 has 22 MA's), (7, 54081), (8, 54093), (10, 54120), (11, 54150), (12, 54168), (13, 54177),

Gene: Aziz\_100 Start: 55956, Stop: 56279, Start Num: 3

Candidate Starts for Aziz\_100:

(Start: 3 @55956 has 22 MA's), (8, 56121), (12, 56196),

Gene: Azrael100\_97 Start: 57788, Stop: 58030, Start Num: 4

Candidate Starts for Azrael100\_97:

(Start: 3 @57713 has 22 MA's), (Start: 4 @57788 has 3 MA's), (5, 57791), (6, 57842), (7, 57860), (14, 57992), (16, 58016), (17, 58022),

Gene: Bavilard\_1 Start: 285, Stop: 542, Start Num: 5

Candidate Starts for Bavilard\_1:

(1, 3), (2, 39), (5, 285), (8, 378), (9, 396),

Gene: Bongo\_89 Start: 53932, Stop: 54258, Start Num: 3

Candidate Starts for Bongo\_89:

(Start: 3 @53932 has 22 MA's), (7, 54085), (8, 54097), (10, 54124), (11, 54154), (12, 54172), (13, 54181),

Gene: Bricole\_88 Start: 53696, Stop: 54022, Start Num: 3

Candidate Starts for Bricole\_88:

(Start: 3 @53696 has 22 MA's), (7, 53849), (8, 53861), (10, 53888), (11, 53918), (12, 53936), (13, 53945),

Gene: Cosmo\_98 Start: 57711, Stop: 58028, Start Num: 3

Candidate Starts for Cosmo\_98:

(Start: 3 @57711 has 22 MA's), (Start: 4 @57786 has 3 MA's), (6, 57840), (7, 57858), (14, 57990), (16, 58014), (17, 58020),

Gene: Diminimus\_91 Start: 53927, Stop: 54253, Start Num: 3

Candidate Starts for Diminimus\_91:

(Start: 3 @53927 has 22 MA's), (7, 54080), (8, 54092), (10, 54119), (11, 54149), (12, 54167), (13, 54176),

Gene: Dulcita\_91 Start: 53928, Stop: 54254, Start Num: 3

Candidate Starts for Dulcita\_91:

(Start: 3 @53928 has 22 MA's), (7, 54081), (8, 54093), (10, 54120), (11, 54150), (12, 54168), (13, 54177),

Gene: EniyanLRS\_95 Start: 57783, Stop: 58025, Start Num: 4

Candidate Starts for EniyanLRS\_95:

(Start: 3 @57708 has 22 MA's), (Start: 4 @57783 has 3 MA's), (5, 57786), (6, 57837), (7, 57855), (14, 57987), (16, 58011), (17, 58017),

Gene: Estes\_100 Start: 55935, Stop: 56261, Start Num: 3

Candidate Starts for Estes\_100:

(Start: 3 @55935 has 22 MA's), (7, 56088), (8, 56100), (11, 56157), (12, 56175), (13, 56184),

Gene: FreakyGoo\_89 Start: 54407, Stop: 54733, Start Num: 3

Candidate Starts for FreakyGoo\_89:

(Start: 3 @54407 has 22 MA's), (7, 54560), (8, 54572), (10, 54599), (11, 54629), (12, 54647), (13, 54656),

Gene: GardenSalsa\_100 Start: 56014, Stop: 56340, Start Num: 3

Candidate Starts for GardenSalsa\_100:

(Start: 3 @56014 has 22 MA's), (7, 56167), (8, 56179), (11, 56236), (12, 56254), (13, 56263),

Gene: GenevaB15\_102 Start: 55956, Stop: 56279, Start Num: 3

Candidate Starts for GenevaB15\_102:

(Start: 3 @55956 has 22 MA's), (8, 56121), (12, 56196),

Gene: Glaske16\_91 Start: 54100, Stop: 54426, Start Num: 3

Candidate Starts for Glaske16\_91:

(Start: 3 @54100 has 22 MA's), (7, 54253), (8, 54265), (10, 54292), (11, 54322), (12, 54340), (13, 54349),

Gene: IPhone7\_88 Start: 53932, Stop: 54258, Start Num: 3

Candidate Starts for IPhone7\_88:

(Start: 3 @53932 has 22 MA's), (7, 54085), (8, 54097), (10, 54124), (11, 54154), (12, 54172), (13, 54181),

Gene: Izel\_88 Start: 53927, Stop: 54253, Start Num: 3

Candidate Starts for Izel\_88:

(Start: 3 @53927 has 22 MA's), (7, 54080), (8, 54092), (10, 54119), (11, 54149), (12, 54167), (13, 54176),

Gene: LilhomieP\_89 Start: 54411, Stop: 54737, Start Num: 3

Candidate Starts for LilhomieP\_89:

(Start: 3 @54411 has 22 MA's), (7, 54564), (8, 54576), (10, 54603), (11, 54633), (12, 54651), (13, 54660),

Gene: MaryV\_100 Start: 58194, Stop: 58436, Start Num: 4

Candidate Starts for MaryV\_100:

(Start: 3 @58119 has 22 MA's), (Start: 4 @58194 has 3 MA's), (5, 58197), (6, 58248), (7, 58266), (14, 58398), (16, 58422), (17, 58428),

Gene: MrMagoo\_101 Start: 56014, Stop: 56340, Start Num: 3

Candidate Starts for MrMagoo\_101:

(Start: 3 @56014 has 22 MA's), (7, 56167), (8, 56179), (11, 56236), (12, 56254), (13, 56263),

Gene: Nanosmite\_95 Start: 55538, Stop: 55861, Start Num: 3

Candidate Starts for Nanosmite\_95:

(Start: 3 @55538 has 22 MA's), (Start: 4 @55613 has 3 MA's), (7, 55691), (10, 55730), (12, 55778), (13, 55787),

Gene: PegLeg\_88 Start: 53672, Stop: 53998, Start Num: 3

Candidate Starts for PegLeg\_88:

(Start: 3 @53672 has 22 MA's), (7, 53825), (8, 53837), (10, 53864), (11, 53894), (12, 53912), (13, 53921),

Gene: Reindeer\_90 Start: 55191, Stop: 55517, Start Num: 3

Candidate Starts for Reindeer\_90:

(Start: 3 @55191 has 22 MA's), (7, 55344), (8, 55356), (10, 55383), (11, 55413), (12, 55431), (13, 55440),

Gene: Rey\_101 Start: 55933, Stop: 56259, Start Num: 3

Candidate Starts for Rey\_101:

(Start: 3 @55933 has 22 MA's), (7, 56086), (11, 56155), (12, 56173), (13, 56182), (15, 56233),

Gene: Skinny\_93 Start: 54840, Stop: 55166, Start Num: 3

Candidate Starts for Skinny\_93:

(Start: 3 @54840 has 22 MA's), (7, 54993), (8, 55005), (10, 55032), (11, 55062), (12, 55080), (13, 55089),

Gene: SlimJimmy\_89 Start: 54828, Stop: 55154, Start Num: 3

Candidate Starts for SlimJimmy\_89:

(Start: 3 @54828 has 22 MA's), (7, 54981), (8, 54993), (10, 55020), (11, 55050), (12, 55068), (13, 55077),

Gene: TyDawg\_89 Start: 53935, Stop: 54261, Start Num: 3

Candidate Starts for TyDawg\_89:

(Start: 3 @53935 has 22 MA's), (7, 54088), (8, 54100), (10, 54127), (11, 54157), (12, 54175), (13, 54184),

Gene: Wildcat\_100 Start: 58129, Stop: 58446, Start Num: 3

Candidate Starts for Wildcat\_100:

(Start: 3 @58129 has 22 MA's), (Start: 4 @58204 has 3 MA's), (5, 58207), (6, 58258), (7, 58276), (14, 58408), (16, 58432), (17, 58438),