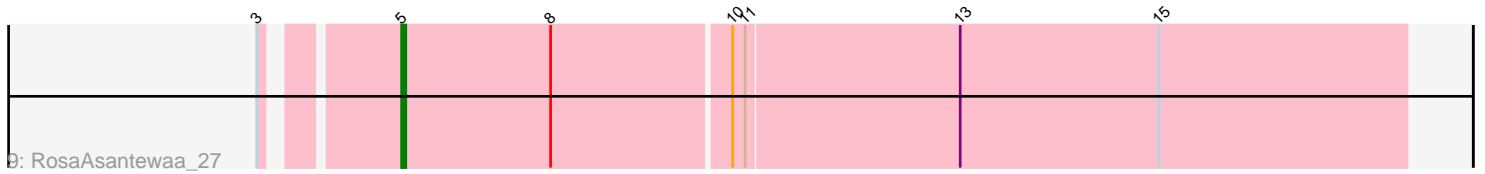
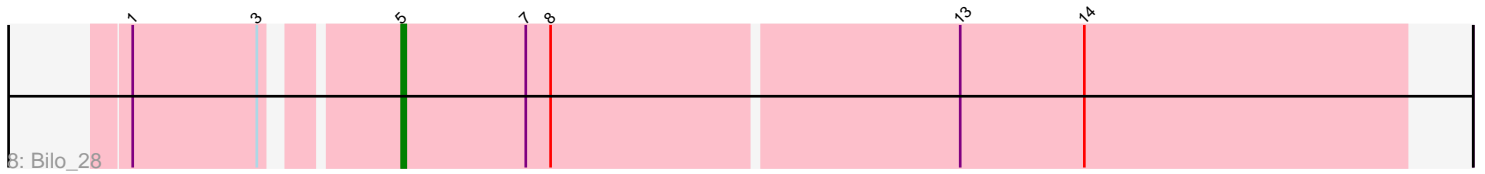
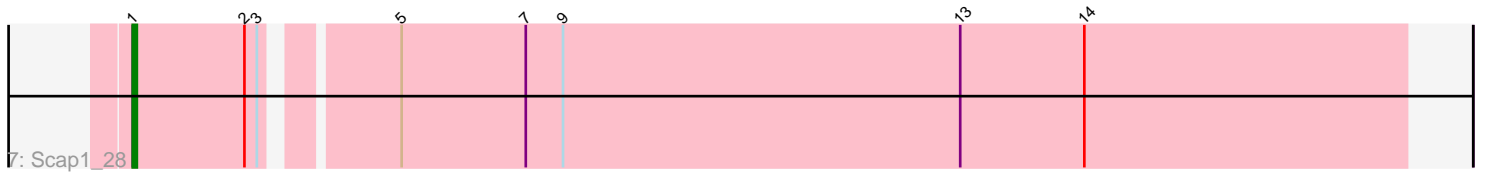
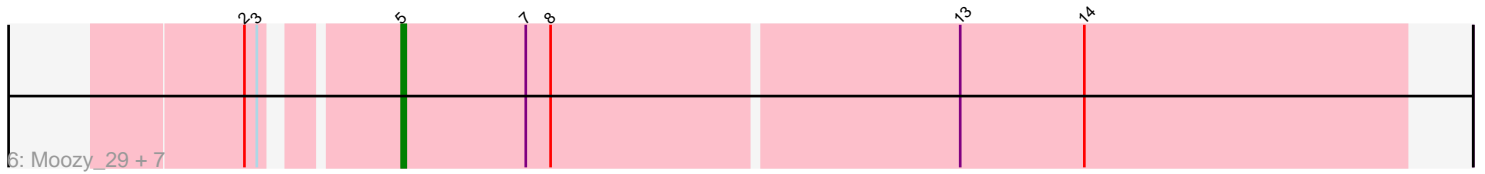
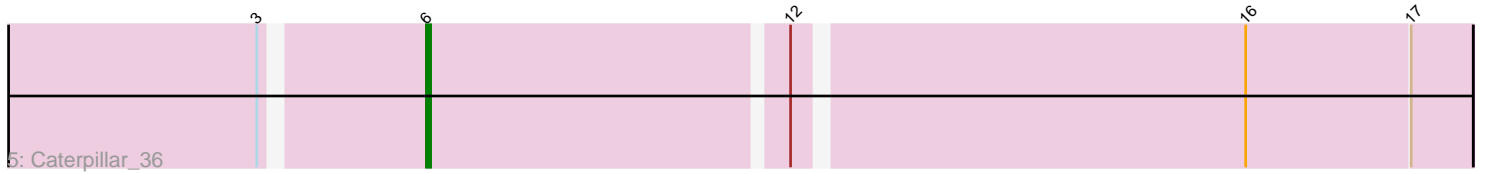
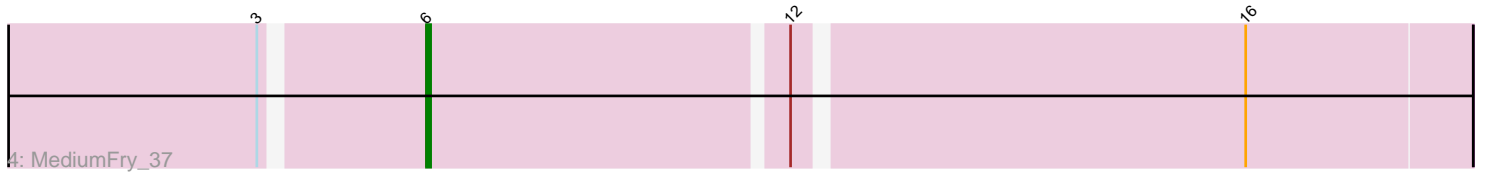


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 194388 Report

This analysis was run 11/02/24 on database version 579.

Pham number 194388 has 18 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Tokki\_39, Giantsbane\_40, Phaby\_40
- Track 2 : Shepard\_41
- Track 3 : LilHuddy\_40
- Track 4 : MediumFry\_37
- Track 5 : Caterpillar\_36
- Track 6 : Moozy\_29, Doxi13\_29, Annihilus\_29, PherryCruz\_28, HotFries\_27, SheRa\_28, RavenPuff\_28, GoblinVoyage\_29
- Track 7 : Scap1\_28
- Track 8 : Bilo\_28
- Track 9 : RosaAsantewaa\_27

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

The start number called the most often in the published annotations is 5, it was called in 10 of the 18 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Annihilus\_29, Bilo\_28, Doxi13\_29, GoblinVoyage\_29, HotFries\_27, Moozy\_29, PherryCruz\_28, RavenPuff\_28, RosaAsantewaa\_27, SheRa\_28,

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

- Scap1\_28,

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

- Caterpillar\_36, Giantsbane\_40, LilHuddy\_40, MediumFry\_37, Phaby\_40, Shepard\_41, Tokki\_39,

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

Start 1:

- Found in 2 of 18 ( 11.1% ) of genes in pham
- Manual Annotations of this start: 1 of 18
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Scap1\_28 (B12),

Start 5:

- Found in 11 of 18 ( 61.1% ) of genes in pham
- Manual Annotations of this start: 10 of 18
- Called 90.9% of time when present
- Phage (with cluster) where this start called: Annihilus\_29 (BI2), Bilo\_28 (BI2), Doxi13\_29 (BI2), GoblinVoyage\_29 (BI2), HotFries\_27 (BI2), Moozy\_29 (BI2), PherryCruz\_28 (BI2), RavenPuff\_28 (BI2), RosaAsantewaa\_27 (BI2), SheRa\_28 (BI2),

Start 6:

- Found in 7 of 18 ( 38.9% ) of genes in pham
- Manual Annotations of this start: 7 of 18
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Caterpillar\_36 (AU4), Giantsbane\_40 (AU2), LilHuddy\_40 (AU2), MediumFry\_37 (AU4), Phaby\_40 (AU2), Shepard\_41 (AU2), Tokki\_39 (AU2),

**Summary by clusters:**

There are 3 clusters represented in this pham: AU2, BI2, AU4,

Info for manual annotations of cluster AU2:

- Start number 6 was manually annotated 5 times for cluster AU2.

Info for manual annotations of cluster AU4:

- Start number 6 was manually annotated 2 times for cluster AU4.

Info for manual annotations of cluster BI2:

- Start number 1 was manually annotated 1 time for cluster BI2.
- Start number 5 was manually annotated 10 times for cluster BI2.

**Gene Information:**

Gene: Annihilus\_29 Start: 23803, Stop: 24042, Start Num: 5

Candidate Starts for Annihilus\_29:

(2, 23773), (3, 23776), (Start: 5 @23803 has 10 MA's), (7, 23833), (8, 23839), (13, 23935), (14, 23965),

Gene: Bilo\_28 Start: 24017, Stop: 24256, Start Num: 5

Candidate Starts for Bilo\_28:

(Start: 1 @23960 has 1 MA's), (3, 23990), (Start: 5 @24017 has 10 MA's), (7, 24047), (8, 24053), (13, 24149), (14, 24179),

Gene: Caterpillar\_36 Start: 29603, Stop: 29845, Start Num: 6

Candidate Starts for Caterpillar\_36:

(3, 29567), (Start: 6 @29603 has 7 MA's), (12, 29687), (16, 29792), (17, 29831),

Gene: Doxi13\_29 Start: 23766, Stop: 24005, Start Num: 5

Candidate Starts for Doxi13\_29:

(2, 23736), (3, 23739), (Start: 5 @23766 has 10 MA's), (7, 23796), (8, 23802), (13, 23898), (14, 23928),

Gene: Giantsbane\_40 Start: 29463, Stop: 29699, Start Num: 6  
Candidate Starts for Giantsbane\_40:  
(4, 29445), (Start: 6 @29463 has 7 MA's), (14, 29613), (16, 29652),

Gene: GoblinVoyage\_29 Start: 23766, Stop: 24005, Start Num: 5  
Candidate Starts for GoblinVoyage\_29:  
(2, 23736), (3, 23739), (Start: 5 @23766 has 10 MA's), (7, 23796), (8, 23802), (13, 23898), (14, 23928),

Gene: HotFries\_27 Start: 23496, Stop: 23735, Start Num: 5  
Candidate Starts for HotFries\_27:  
(2, 23466), (3, 23469), (Start: 5 @23496 has 10 MA's), (7, 23526), (8, 23532), (13, 23628), (14, 23658),

Gene: LilHuddy\_40 Start: 30610, Stop: 30846, Start Num: 6  
Candidate Starts for LilHuddy\_40:  
(4, 30592), (Start: 6 @30610 has 7 MA's), (14, 30760), (16, 30799),

Gene: MediumFry\_37 Start: 29916, Stop: 30158, Start Num: 6  
Candidate Starts for MediumFry\_37:  
(3, 29880), (Start: 6 @29916 has 7 MA's), (12, 30000), (16, 30105),

Gene: Moozy\_29 Start: 23790, Stop: 24029, Start Num: 5  
Candidate Starts for Moozy\_29:  
(2, 23760), (3, 23763), (Start: 5 @23790 has 10 MA's), (7, 23820), (8, 23826), (13, 23922), (14, 23952),

Gene: Phaby\_40 Start: 30565, Stop: 30801, Start Num: 6  
Candidate Starts for Phaby\_40:  
(4, 30547), (Start: 6 @30565 has 7 MA's), (14, 30715), (16, 30754),

Gene: PherryCruz\_28 Start: 23765, Stop: 24004, Start Num: 5  
Candidate Starts for PherryCruz\_28:  
(2, 23735), (3, 23738), (Start: 5 @23765 has 10 MA's), (7, 23795), (8, 23801), (13, 23897), (14, 23927),

Gene: RavenPuff\_28 Start: 23765, Stop: 24004, Start Num: 5  
Candidate Starts for RavenPuff\_28:  
(2, 23735), (3, 23738), (Start: 5 @23765 has 10 MA's), (7, 23795), (8, 23801), (13, 23897), (14, 23927),

Gene: RosaAsantewaa\_27 Start: 23272, Stop: 23511, Start Num: 5  
Candidate Starts for RosaAsantewaa\_27:  
(3, 23245), (Start: 5 @23272 has 10 MA's), (8, 23308), (10, 23350), (11, 23353), (13, 23404), (15, 23452),

Gene: Scap1\_28 Start: 23389, Stop: 23688, Start Num: 1  
Candidate Starts for Scap1\_28:  
(Start: 1 @23389 has 1 MA's), (2, 23416), (3, 23419), (Start: 5 @23446 has 10 MA's), (7, 23476), (9, 23485), (13, 23581), (14, 23611),

Gene: SheRa\_28 Start: 23497, Stop: 23736, Start Num: 5

Candidate Starts for SheRa\_28:

(2, 23467), (3, 23470), (Start: 5 @23497 has 10 MA's), (7, 23527), (8, 23533), (13, 23629), (14, 23659),

Gene: Shepard\_41 Start: 30896, Stop: 31132, Start Num: 6

Candidate Starts for Shepard\_41:

(4, 30878), (Start: 6 @30896 has 7 MA's), (14, 31046), (16, 31085),

Gene: Tokki\_39 Start: 30282, Stop: 30518, Start Num: 6

Candidate Starts for Tokki\_39:

(4, 30264), (Start: 6 @30282 has 7 MA's), (14, 30432), (16, 30471),