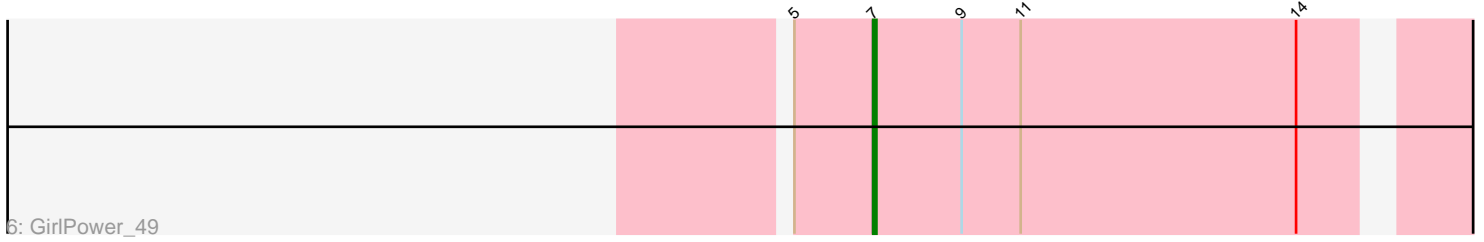
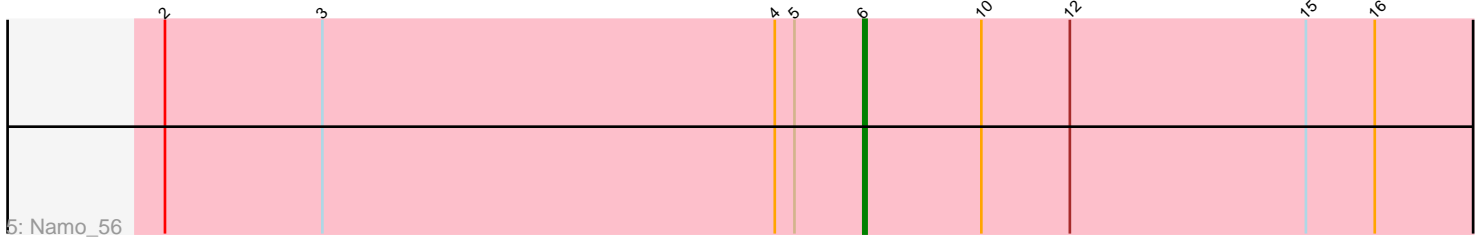
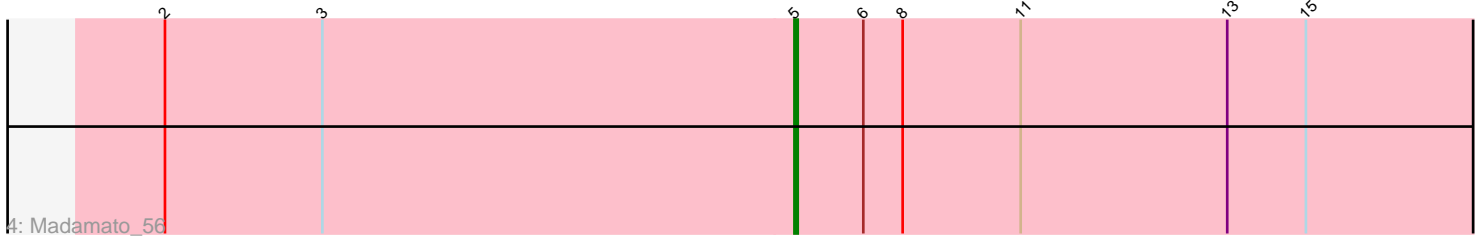
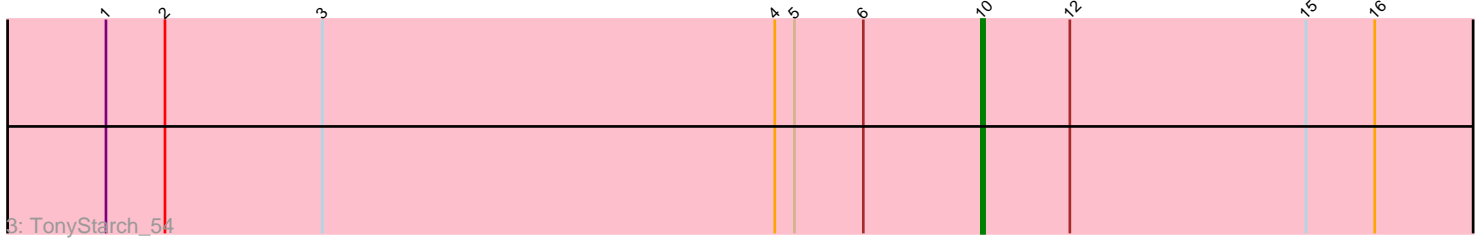
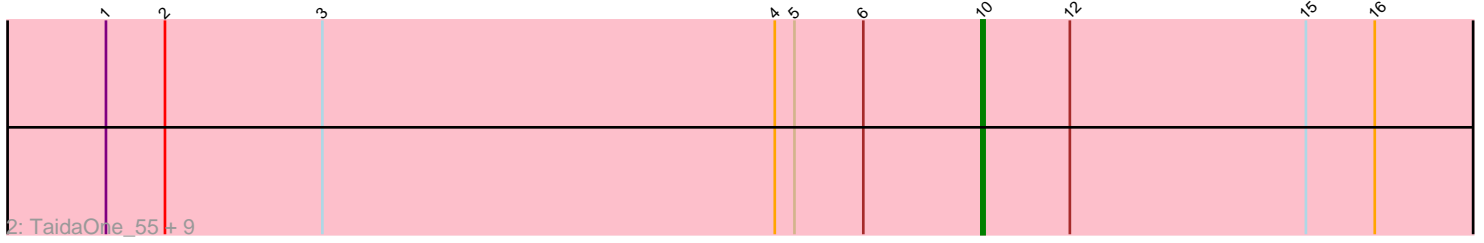
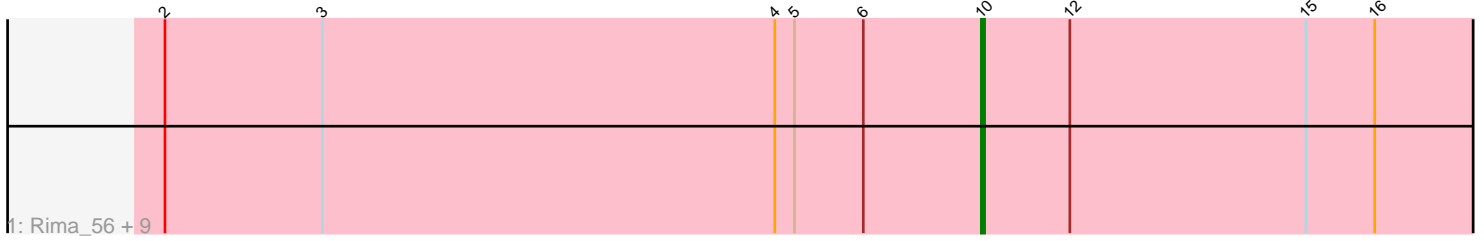


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 309186 Report

This analysis was run 06/27/26 on database version 652.

Pham number 309186 has 24 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Rima\_56, Meibysrarus\_53, Esketit\_55, Jaylociraptor\_55, Maya\_55, Hoshi\_54, Spectropatronm\_55, OlympicHelado\_55, Indigenous\_55, IceWarrior\_54
- Track 2 : TaidaOne\_55, HazuAndZazu\_54, FidgetOrca\_55, FrodoSwaggins\_55, Soshi\_54, DrGrey\_54, Espio\_55, TieDye\_54, Popy\_55, CherryBlossom\_55
- Track 3 : TonyStarch\_54
- Track 4 : Madamato\_56
- Track 5 : Namu\_56
- Track 6 : GirlPower\_49

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

The start number called the most often in the published annotations is 10, it was called in 21 of the 24 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- CherryBlossom\_55, DrGrey\_54, Esketit\_55, Espio\_55, FidgetOrca\_55, FrodoSwaggins\_55, HazuAndZazu\_54, Hoshi\_54, IceWarrior\_54, Indigenous\_55, Jaylociraptor\_55, Maya\_55, Meibysrarus\_53, OlympicHelado\_55, Popy\_55, Rima\_56, Soshi\_54, Spectropatronm\_55, TaidaOne\_55, TieDye\_54, TonyStarch\_54,

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

- Namu\_56,

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

- GirlPower\_49, Madamato\_56,

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

Start 5:

- Found in 24 of 24 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 1 of 24
- Called 4.2% of time when present
- Phage (with cluster) where this start called: Madamato\_56 (BI1),

Start 6:

- Found in 23 of 24 ( 95.8% ) of genes in pham
- Manual Annotations of this start: 1 of 24
- Called 4.3% of time when present
- Phage (with cluster) where this start called: Namo\_56 (BI1),

Start 7:

- Found in 1 of 24 ( 4.2% ) of genes in pham
- Manual Annotations of this start: 1 of 24
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GirlPower\_49 (BI1),

Start 10:

- Found in 22 of 24 ( 91.7% ) of genes in pham
- Manual Annotations of this start: 21 of 24
- Called 95.5% of time when present
- Phage (with cluster) where this start called: CherryBlossom\_55 (BI1), DrGrey\_54 (BI1), Esketit\_55 (BI1), Espio\_55 (BI1), FidgetOrca\_55 (BI1), FrodoSwaggins\_55 (BI1), HazuAndZazu\_54 (BI1), Hoshi\_54 (BI1), IceWarrior\_54 (BI1), Indigenous\_55 (BI1), Jaylociraptor\_55 (BI1), Maya\_55 (BI1), Meibysrarus\_53 (BI1), OlympicHelado\_55 (BI1), Popy\_55 (BI1), Rima\_56 (BI1), Soshi\_54 (BI1), Spectropatronm\_55 (BI1), TaidaOne\_55 (BI1), TieDye\_54 (BI1), TonyStarch\_54 (BI1),

**Summary by clusters:**

There is one cluster represented in this pham: BI1

Info for manual annotations of cluster BI1:

- Start number 5 was manually annotated 1 time for cluster BI1.
- Start number 6 was manually annotated 1 time for cluster BI1.
- Start number 7 was manually annotated 1 time for cluster BI1.
- Start number 10 was manually annotated 21 times for cluster BI1.

**Gene Information:**

Gene: CherryBlossom\_55 Start: 35188, Stop: 35373, Start Num: 10

Candidate Starts for CherryBlossom\_55:

(1, 34921), (2, 34939), (3, 34987), (4, 35125), (Start: 5 @35131 has 1 MA's), (Start: 6 @35152 has 1 MA's), (Start: 10 @35188 has 21 MA's), (12, 35215), (15, 35287), (16, 35308),

Gene: DrGrey\_54 Start: 35553, Stop: 35738, Start Num: 10

Candidate Starts for DrGrey\_54:

(1, 35286), (2, 35304), (3, 35352), (4, 35490), (Start: 5 @35496 has 1 MA's), (Start: 6 @35517 has 1 MA's), (Start: 10 @35553 has 21 MA's), (12, 35580), (15, 35652), (16, 35673),

Gene: Esketit\_55 Start: 35298, Stop: 35483, Start Num: 10

Candidate Starts for Esketit\_55:

(2, 35049), (3, 35097), (4, 35235), (Start: 5 @35241 has 1 MA's), (Start: 6 @35262 has 1 MA's), (Start: 10 @35298 has 21 MA's), (12, 35325), (15, 35397), (16, 35418),

Gene: Espio\_55 Start: 35948, Stop: 36133, Start Num: 10

Candidate Starts for Espio\_55:

(1, 35681), (2, 35699), (3, 35747), (4, 35885), (Start: 5 @35891 has 1 MA's), (Start: 6 @35912 has 1 MA's), (Start: 10 @35948 has 21 MA's), (12, 35975), (15, 36047), (16, 36068),

Gene: FidgetOrca\_55 Start: 35291, Stop: 35473, Start Num: 10

Candidate Starts for FidgetOrca\_55:

(1, 35024), (2, 35042), (3, 35090), (4, 35228), (Start: 5 @35234 has 1 MA's), (Start: 6 @35255 has 1 MA's), (Start: 10 @35291 has 21 MA's), (12, 35318), (15, 35390), (16, 35411),

Gene: FrodoSwaggins\_55 Start: 35947, Stop: 36132, Start Num: 10

Candidate Starts for FrodoSwaggins\_55:

(1, 35680), (2, 35698), (3, 35746), (4, 35884), (Start: 5 @35890 has 1 MA's), (Start: 6 @35911 has 1 MA's), (Start: 10 @35947 has 21 MA's), (12, 35974), (15, 36046), (16, 36067),

Gene: GirlPower\_49 Start: 35513, Stop: 35719, Start Num: 7

Candidate Starts for GirlPower\_49:

(Start: 5 @35489 has 1 MA's), (Start: 7 @35513 has 1 MA's), (9, 35540), (11, 35558), (14, 35642),

Gene: HazuAndZazu\_54 Start: 35548, Stop: 35733, Start Num: 10

Candidate Starts for HazuAndZazu\_54:

(1, 35281), (2, 35299), (3, 35347), (4, 35485), (Start: 5 @35491 has 1 MA's), (Start: 6 @35512 has 1 MA's), (Start: 10 @35548 has 21 MA's), (12, 35575), (15, 35647), (16, 35668),

Gene: Hoshi\_54 Start: 34895, Stop: 35080, Start Num: 10

Candidate Starts for Hoshi\_54:

(2, 34646), (3, 34694), (4, 34832), (Start: 5 @34838 has 1 MA's), (Start: 6 @34859 has 1 MA's), (Start: 10 @34895 has 21 MA's), (12, 34922), (15, 34994), (16, 35015),

Gene: IceWarrior\_54 Start: 34977, Stop: 35159, Start Num: 10

Candidate Starts for IceWarrior\_54:

(2, 34728), (3, 34776), (4, 34914), (Start: 5 @34920 has 1 MA's), (Start: 6 @34941 has 1 MA's), (Start: 10 @34977 has 21 MA's), (12, 35004), (15, 35076), (16, 35097),

Gene: Indigenous\_55 Start: 35292, Stop: 35477, Start Num: 10

Candidate Starts for Indigenous\_55:

(2, 35043), (3, 35091), (4, 35229), (Start: 5 @35235 has 1 MA's), (Start: 6 @35256 has 1 MA's), (Start: 10 @35292 has 21 MA's), (12, 35319), (15, 35391), (16, 35412),

Gene: Jaylociraptor\_55 Start: 35291, Stop: 35476, Start Num: 10

Candidate Starts for Jaylociraptor\_55:

(2, 35042), (3, 35090), (4, 35228), (Start: 5 @35234 has 1 MA's), (Start: 6 @35255 has 1 MA's), (Start: 10 @35291 has 21 MA's), (12, 35318), (15, 35390), (16, 35411),

Gene: Madamoto\_56 Start: 35275, Stop: 35517, Start Num: 5

Candidate Starts for Madamoto\_56:

(2, 35089), (3, 35137), (Start: 5 @35275 has 1 MA's), (Start: 6 @35296 has 1 MA's), (8, 35308), (11, 35344), (13, 35407), (15, 35431),

Gene: Maya\_55 Start: 35305, Stop: 35490, Start Num: 10

Candidate Starts for Maya\_55:

(2, 35056), (3, 35104), (4, 35242), (Start: 5 @35248 has 1 MA's), (Start: 6 @35269 has 1 MA's), (Start: 10 @35305 has 21 MA's), (12, 35332), (15, 35404), (16, 35425),

Gene: Meibysrarus\_53 Start: 34668, Stop: 34853, Start Num: 10

Candidate Starts for Meibysrarus\_53:

(2, 34419), (3, 34467), (4, 34605), (Start: 5 @34611 has 1 MA's), (Start: 6 @34632 has 1 MA's), (Start: 10 @34668 has 21 MA's), (12, 34695), (15, 34767), (16, 34788),

Gene: Namo\_56 Start: 35600, Stop: 35821, Start Num: 6

Candidate Starts for Namo\_56:

(2, 35387), (3, 35435), (4, 35573), (Start: 5 @35579 has 1 MA's), (Start: 6 @35600 has 1 MA's), (Start: 10 @35636 has 21 MA's), (12, 35663), (15, 35735), (16, 35756),

Gene: OlympicHelado\_55 Start: 35319, Stop: 35504, Start Num: 10

Candidate Starts for OlympicHelado\_55:

(2, 35070), (3, 35118), (4, 35256), (Start: 5 @35262 has 1 MA's), (Start: 6 @35283 has 1 MA's), (Start: 10 @35319 has 21 MA's), (12, 35346), (15, 35418), (16, 35439),

Gene: Popy\_55 Start: 35947, Stop: 36132, Start Num: 10

Candidate Starts for Popy\_55:

(1, 35680), (2, 35698), (3, 35746), (4, 35884), (Start: 5 @35890 has 1 MA's), (Start: 6 @35911 has 1 MA's), (Start: 10 @35947 has 21 MA's), (12, 35974), (15, 36046), (16, 36067),

Gene: Rima\_56 Start: 35636, Stop: 35821, Start Num: 10

Candidate Starts for Rima\_56:

(2, 35387), (3, 35435), (4, 35573), (Start: 5 @35579 has 1 MA's), (Start: 6 @35600 has 1 MA's), (Start: 10 @35636 has 21 MA's), (12, 35663), (15, 35735), (16, 35756),

Gene: Soshi\_54 Start: 35566, Stop: 35751, Start Num: 10

Candidate Starts for Soshi\_54:

(1, 35299), (2, 35317), (3, 35365), (4, 35503), (Start: 5 @35509 has 1 MA's), (Start: 6 @35530 has 1 MA's), (Start: 10 @35566 has 21 MA's), (12, 35593), (15, 35665), (16, 35686),

Gene: Spectropatronm\_55 Start: 35298, Stop: 35483, Start Num: 10

Candidate Starts for Spectropatronm\_55:

(2, 35049), (3, 35097), (4, 35235), (Start: 5 @35241 has 1 MA's), (Start: 6 @35262 has 1 MA's), (Start: 10 @35298 has 21 MA's), (12, 35325), (15, 35397), (16, 35418),

Gene: TaidaOne\_55 Start: 35804, Stop: 35986, Start Num: 10

Candidate Starts for TaidaOne\_55:

(1, 35537), (2, 35555), (3, 35603), (4, 35741), (Start: 5 @35747 has 1 MA's), (Start: 6 @35768 has 1 MA's), (Start: 10 @35804 has 21 MA's), (12, 35831), (15, 35903), (16, 35924),

Gene: TieDye\_54 Start: 34892, Stop: 35074, Start Num: 10

Candidate Starts for TieDye\_54:

(1, 34625), (2, 34643), (3, 34691), (4, 34829), (Start: 5 @34835 has 1 MA's), (Start: 6 @34856 has 1 MA's), (Start: 10 @34892 has 21 MA's), (12, 34919), (15, 34991), (16, 35012),

Gene: TonyStarch\_54 Start: 35040, Stop: 35225, Start Num: 10

Candidate Starts for TonyStarch\_54:

(1, 34773), (2, 34791), (3, 34839), (4, 34977), (Start: 5 @34983 has 1 MA's), (Start: 6 @35004 has 1 MA's), (Start: 10 @35040 has 21 MA's), (12, 35067), (15, 35139), (16, 35160),