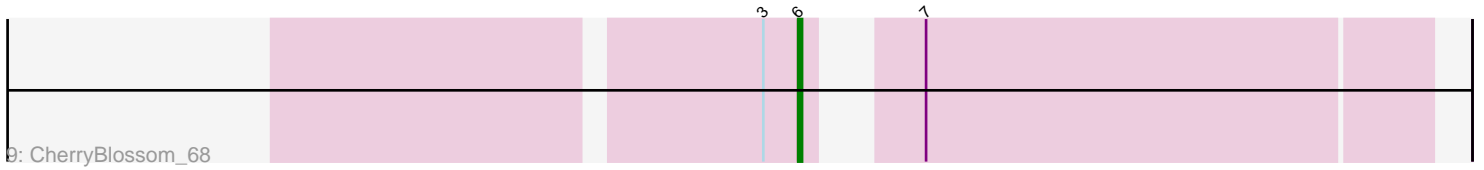
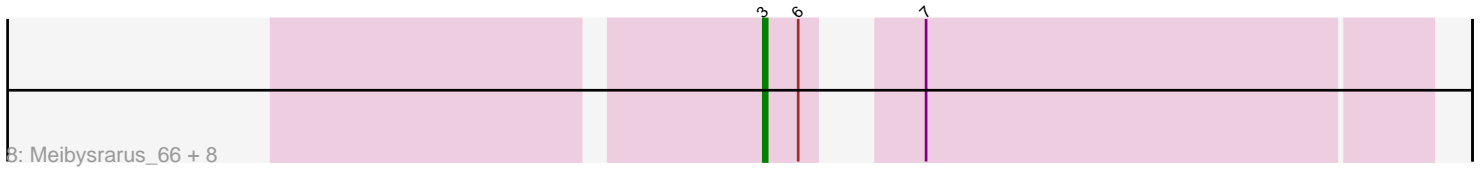
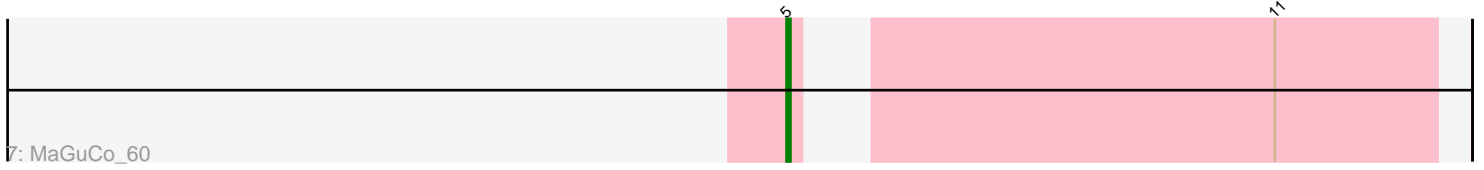
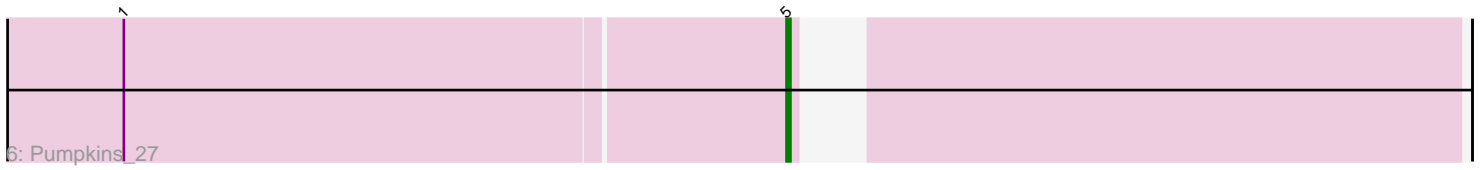
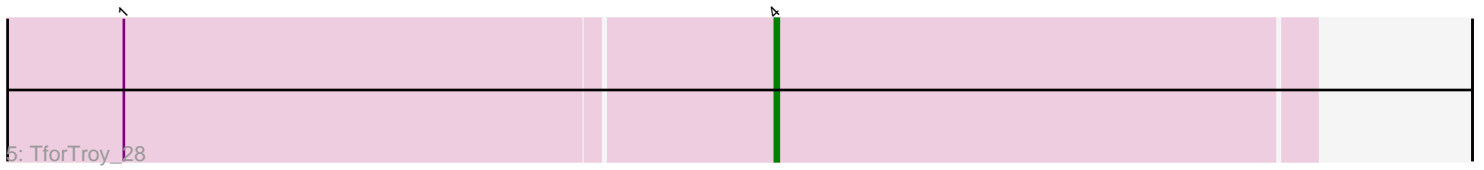
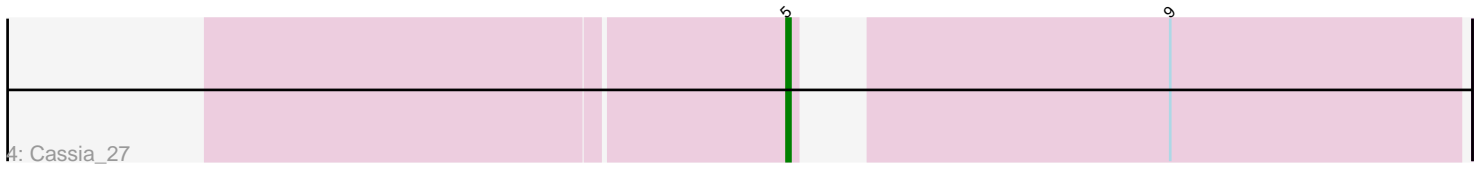
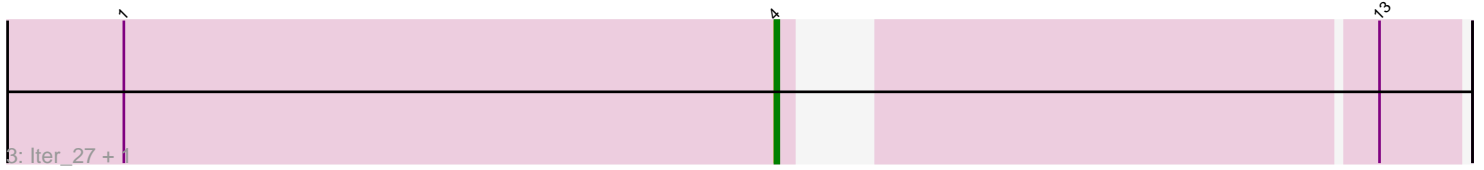
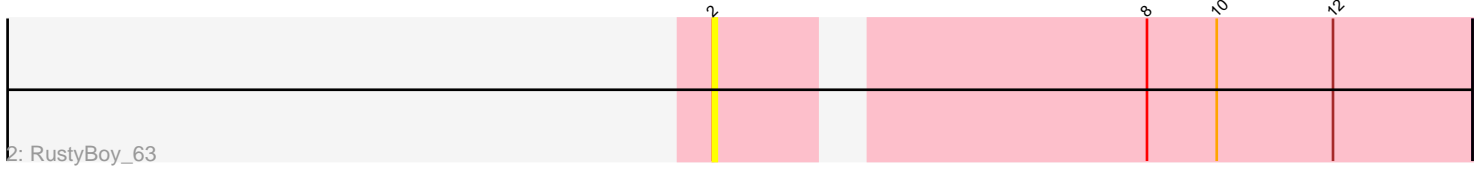
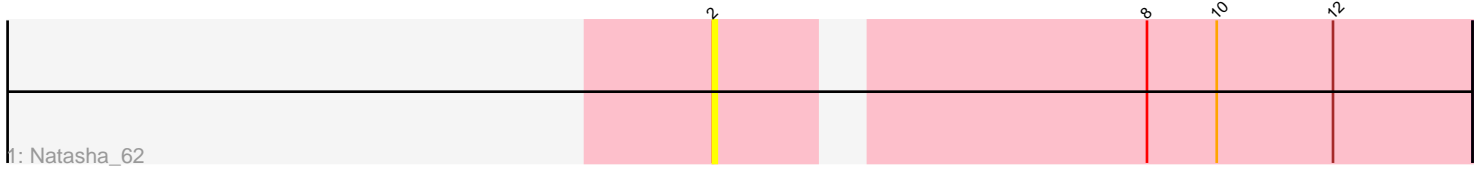


Pham 216610



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 216610 Report

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

Pham number 216610 has 18 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Natasha_62
- Track 2 : RustyBoy_63
- Track 3 : Iter_27, Ascela_27
- Track 4 : Cassia_27
- Track 5 : TforTroy_28
- Track 6 : Pumpkins_27
- Track 7 : MaGuCo_60
- Track 8 : Meibysrarus_66, Indigenous_70, IceWarrior_67, FidgetOrca_70, Namu_69, Hoshi_69, TonyStarch_67, Jaylociraptor_68, Maya_68
- Track 9 : CherryBlossom_68

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 9 of the 16 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- FidgetOrca_70, Hoshi_69, IceWarrior_67, Indigenous_70, Jaylociraptor_68, Maya_68, Meibysrarus_66, Namu_69, TonyStarch_67,

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

- CherryBlossom_68,

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

- Ascela_27, Cassia_27, Iter_27, MaGuCo_60, Natasha_62, Pumpkins_27, RustyBoy_63, TforTroy_28,

Summary by start number:

Start 2:

- Found in 2 of 18 (11.1%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Natasha_62 (AW), RustyBoy_63 (AW),

Start 3:

- Found in 10 of 18 (55.6%) of genes in pham
- Manual Annotations of this start: 9 of 16
- Called 90.0% of time when present
- Phage (with cluster) where this start called: FidgetOrca_70 (BI1), Hoshi_69 (BI1), IceWarrior_67 (BI1), Indigenous_70 (BI1), Jaylociraptor_68 (BI1), Maya_68 (BI1), Meibysrarus_66 (BI1), Namu_69 (BI1), TonyStarch_67 (BI1),

Start 4:

- Found in 3 of 18 (16.7%) of genes in pham
- Manual Annotations of this start: 3 of 16
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ascela_27 (AZ1), Iter_27 (AZ1), TforTroy_28 (AZ1),

Start 5:

- Found in 3 of 18 (16.7%) of genes in pham
- Manual Annotations of this start: 3 of 16
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cassia_27 (AZ1), MaGuCo_60 (AZ2), Pumpkins_27 (AZ1),

Start 6:

- Found in 10 of 18 (55.6%) of genes in pham
- Manual Annotations of this start: 1 of 16
- Called 10.0% of time when present
- Phage (with cluster) where this start called: CherryBlossom_68 (BI1),

Summary by clusters:

There are 4 clusters represented in this pham: AZ1, AZ2, AW, BI1,

Info for manual annotations of cluster AZ1:

- Start number 4 was manually annotated 3 times for cluster AZ1.
- Start number 5 was manually annotated 2 times for cluster AZ1.

Info for manual annotations of cluster AZ2:

- Start number 5 was manually annotated 1 time for cluster AZ2.

Info for manual annotations of cluster BI1:

- Start number 3 was manually annotated 9 times for cluster BI1.
- Start number 6 was manually annotated 1 time for cluster BI1.

Gene Information:

Gene: Ascela_27 Start: 22290, Stop: 22442, Start Num: 4

Candidate Starts for Ascela_27:

(1, 22122), (Start: 4 @22290 has 3 MA's), (13, 22422),

Gene: Cassia_27 Start: 22739, Stop: 22894, Start Num: 5

Candidate Starts for Cassia_27:

(Start: 5 @22739 has 3 MA's), (9, 22820),

Gene: CherryBlossom_68 Start: 43842, Stop: 43988, Start Num: 6

Candidate Starts for CherryBlossom_68:

(Start: 3 @43833 has 9 MA's), (Start: 6 @43842 has 1 MA's), (7, 43860),

Gene: FidgetOrca_70 Start: 44369, Stop: 44524, Start Num: 3

Candidate Starts for FidgetOrca_70:

(Start: 3 @44369 has 9 MA's), (Start: 6 @44378 has 1 MA's), (7, 44396),

Gene: Hoshi_69 Start: 43976, Stop: 44131, Start Num: 3

Candidate Starts for Hoshi_69:

(Start: 3 @43976 has 9 MA's), (Start: 6 @43985 has 1 MA's), (7, 44003),

Gene: IceWarrior_67 Start: 43652, Stop: 43807, Start Num: 3

Candidate Starts for IceWarrior_67:

(Start: 3 @43652 has 9 MA's), (Start: 6 @43661 has 1 MA's), (7, 43679),

Gene: Indigenous_70 Start: 44373, Stop: 44528, Start Num: 3

Candidate Starts for Indigenous_70:

(Start: 3 @44373 has 9 MA's), (Start: 6 @44382 has 1 MA's), (7, 44400),

Gene: Iter_27 Start: 22290, Stop: 22442, Start Num: 4

Candidate Starts for Iter_27:

(1, 22122), (Start: 4 @22290 has 3 MA's), (13, 22422),

Gene: Jaylociraptor_68 Start: 43969, Stop: 44124, Start Num: 3

Candidate Starts for Jaylociraptor_68:

(Start: 3 @43969 has 9 MA's), (Start: 6 @43978 has 1 MA's), (7, 43996),

Gene: MaGuCo_60 Start: 42542, Stop: 42691, Start Num: 5

Candidate Starts for MaGuCo_60:

(Start: 5 @42542 has 3 MA's), (11, 42650),

Gene: Maya_68 Start: 43983, Stop: 44138, Start Num: 3

Candidate Starts for Maya_68:

(Start: 3 @43983 has 9 MA's), (Start: 6 @43992 has 1 MA's), (7, 44010),

Gene: Meibysrarus_66 Start: 43346, Stop: 43501, Start Num: 3

Candidate Starts for Meibysrarus_66:

(Start: 3 @43346 has 9 MA's), (Start: 6 @43355 has 1 MA's), (7, 43373),

Gene: Namo_69 Start: 44320, Stop: 44475, Start Num: 3

Candidate Starts for Namo_69:

(Start: 3 @44320 has 9 MA's), (Start: 6 @44329 has 1 MA's), (7, 44347),

Gene: Natasha_62 Start: 41159, Stop: 41341, Start Num: 2

Candidate Starts for Natasha_62:

(2, 41159), (8, 41258), (10, 41276), (12, 41306),

Gene: Pumpkins_27 Start: 23159, Stop: 23314, Start Num: 5

Candidate Starts for Pumpkins_27:
(1, 22991), (Start: 5 @23159 has 3 MA's),

Gene: RustyBoy_63 Start: 41358, Stop: 41540, Start Num: 2
Candidate Starts for RustyBoy_63:
(2, 41358), (8, 41457), (10, 41475), (12, 41505),

Gene: TforTroy_28 Start: 23051, Stop: 23188, Start Num: 4
Candidate Starts for TforTroy_28:
(1, 22886), (Start: 4 @23051 has 3 MA's),

Gene: TonyStarch_67 Start: 43718, Stop: 43873, Start Num: 3
Candidate Starts for TonyStarch_67:
(Start: 3 @43718 has 9 MA's), (Start: 6 @43727 has 1 MA's), (7, 43745),