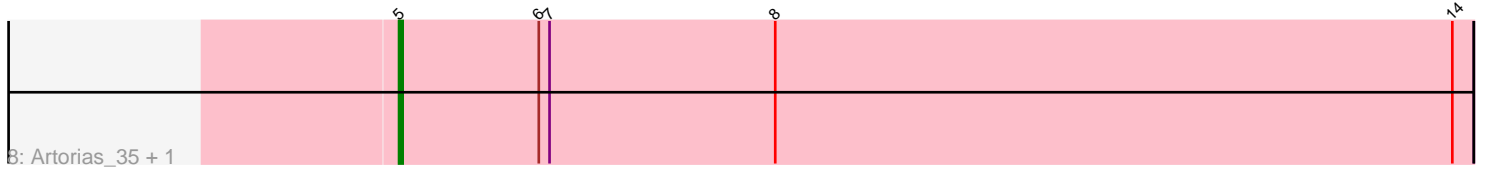
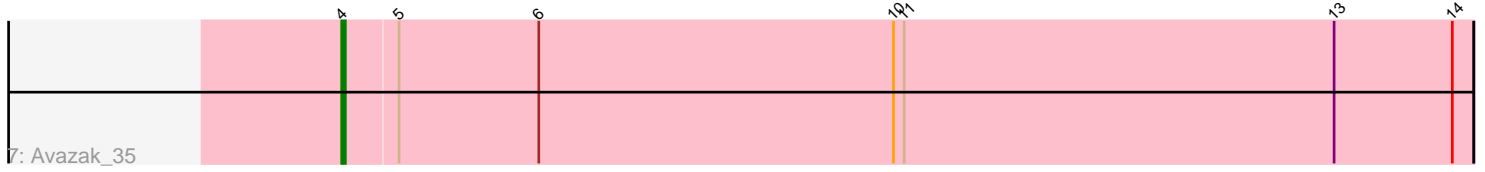
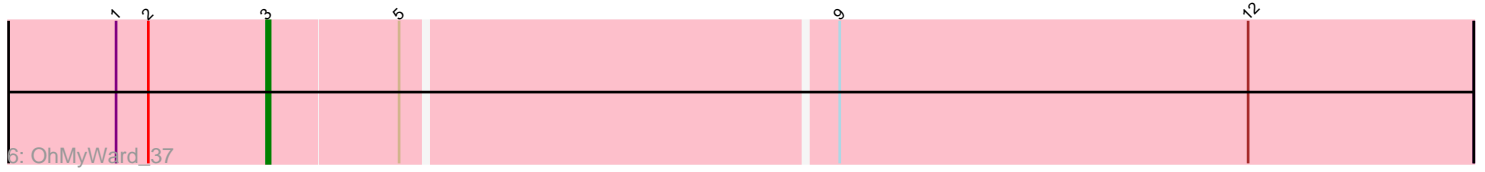
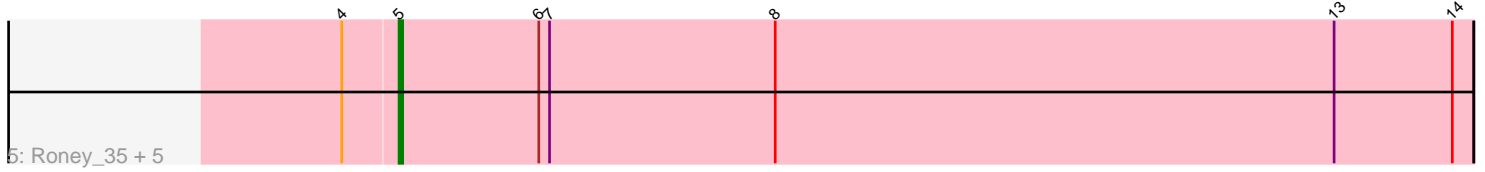
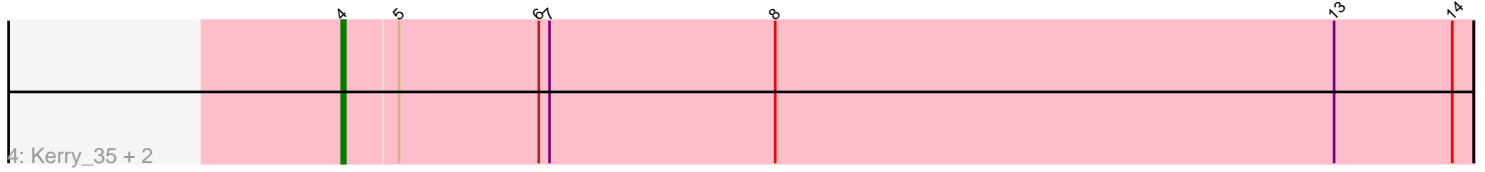
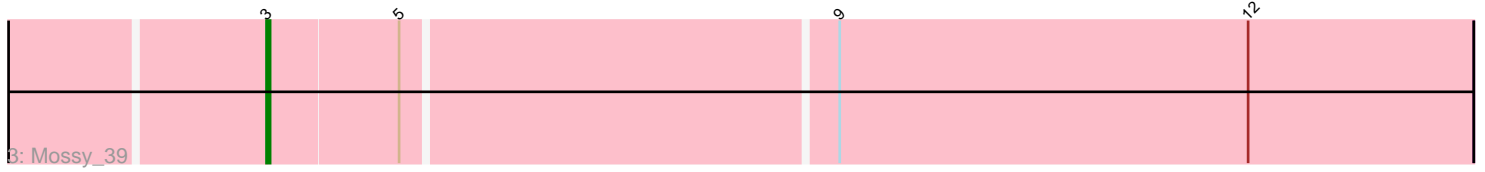
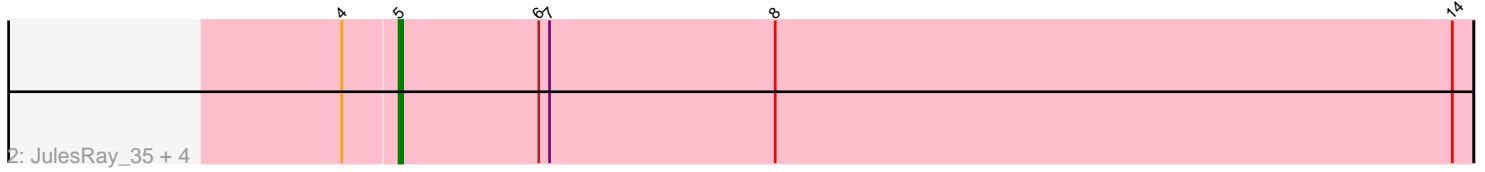
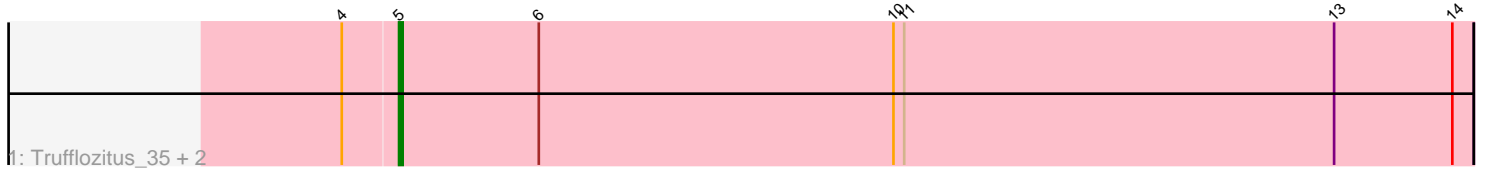


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 303661 Report

This analysis was run 06/08/26 on database version 649.

Pham number 303661 has 23 members, 5 are drafts.

Phages represented in each track:

- Track 1 : Trufflozitus\_35, ChickyNuggy\_36, Tairn4Wing\_37
- Track 2 : JulesRay\_35, Dancer\_35, Bugg\_36, Captrips\_35, Football\_36
- Track 3 : Mossy\_39
- Track 4 : Kerry\_35, Gravy\_35, Odesza\_35
- Track 5 : Roney\_35, Tanis\_35, Copybara\_35, Gill\_35, NoPickles\_35, Magel\_36
- Track 6 : OhMyWard\_37
- Track 7 : Avazak\_35
- Track 8 : Artorias\_35, FortCran\_35
- Track 9 : Blanky\_38

### ***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 12 of the 18 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Artorias\_35, Blanky\_38, Bugg\_36, Captrips\_35, Copybara\_35, ChickyNuggy\_36, Dancer\_35, Football\_36, FortCran\_35, Gill\_35, JulesRay\_35, Magel\_36, NoPickles\_35, Roney\_35, Tairn4Wing\_37, Tanis\_35, Trufflozitus\_35,

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

- Avazak\_35, Gravy\_35, Kerry\_35, Mossy\_39, Odesza\_35, OhMyWard\_37,

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

- 

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

Start 3:

- Found in 3 of 23 ( 13.0% ) of genes in pham
- Manual Annotations of this start: 2 of 18
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Mossy\_39 (DJ), OhMyWard\_37 (DJ),

#### Start 4:

- Found in 18 of 23 ( 78.3% ) of genes in pham
- Manual Annotations of this start: 4 of 18
- Called 22.2% of time when present
- Phage (with cluster) where this start called: Avazak\_35 (DJ), Gravy\_35 (DJ), Kerry\_35 (DJ), Odesza\_35 (DJ),

#### Start 5:

- Found in 23 of 23 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 12 of 18
- Called 73.9% of time when present
- Phage (with cluster) where this start called: Artorias\_35 (DJ), Blanky\_38 (DJ), Bugg\_36 (DJ), Captrips\_35 (DJ), Copybara\_35 (DJ), ChickyNuggy\_36 (DJ), Dancer\_35 (DJ), Football\_36 (DJ), FortCran\_35 (DJ), Gill\_35 (DJ), JulesRay\_35 (DJ), Magel\_36 (DJ), NoPickles\_35 (DJ), Roney\_35 (DJ), Tairn4Wing\_37 (DJ), Tanis\_35 (DJ), Trufflozitus\_35 (DJ),

### Summary by clusters:

There is one cluster represented in this pham: DJ

Info for manual annotations of cluster DJ:

- Start number 3 was manually annotated 2 times for cluster DJ.
- Start number 4 was manually annotated 4 times for cluster DJ.
- Start number 5 was manually annotated 12 times for cluster DJ.

### **Gene Information:**

Gene: Artorias\_35 Start: 29163, Stop: 29462, Start Num: 5

Candidate Starts for Artorias\_35:

(Start: 5 @29163 has 12 MA's), (6, 29202), (7, 29205), (8, 29268), (14, 29457),

Gene: Avazak\_35 Start: 29155, Stop: 29469, Start Num: 4

Candidate Starts for Avazak\_35:

(Start: 4 @29155 has 4 MA's), (Start: 5 @29170 has 12 MA's), (6, 29209), (10, 29308), (11, 29311), (13, 29431), (14, 29464),

Gene: Blanky\_38 Start: 33184, Stop: 33477, Start Num: 5

Candidate Starts for Blanky\_38:

(Start: 3 @33148 has 2 MA's), (Start: 5 @33184 has 12 MA's), (9, 33301), (12, 33415),

Gene: Bugg\_36 Start: 29206, Stop: 29505, Start Num: 5

Candidate Starts for Bugg\_36:

(Start: 4 @29191 has 4 MA's), (Start: 5 @29206 has 12 MA's), (6, 29245), (7, 29248), (8, 29311), (14, 29500),

Gene: Captrips\_35 Start: 29199, Stop: 29498, Start Num: 5

Candidate Starts for Captrips\_35:

(Start: 4 @29184 has 4 MA's), (Start: 5 @29199 has 12 MA's), (6, 29238), (7, 29241), (8, 29304), (14, 29493),

Gene: Capybara\_35 Start: 29274, Stop: 29573, Start Num: 5

Candidate Starts for Capybara\_35:

(Start: 4 @29259 has 4 MA's), (Start: 5 @29274 has 12 MA's), (6, 29313), (7, 29316), (8, 29379), (13, 29535), (14, 29568),

Gene: ChickyNuggy\_36 Start: 28911, Stop: 29210, Start Num: 5

Candidate Starts for ChickyNuggy\_36:

(Start: 4 @28896 has 4 MA's), (Start: 5 @28911 has 12 MA's), (6, 28950), (10, 29049), (11, 29052), (13, 29172), (14, 29205),

Gene: Dancer\_35 Start: 28899, Stop: 29198, Start Num: 5

Candidate Starts for Dancer\_35:

(Start: 4 @28884 has 4 MA's), (Start: 5 @28899 has 12 MA's), (6, 28938), (7, 28941), (8, 29004), (14, 29193),

Gene: Football\_36 Start: 28911, Stop: 29210, Start Num: 5

Candidate Starts for Football\_36:

(Start: 4 @28896 has 4 MA's), (Start: 5 @28911 has 12 MA's), (6, 28950), (7, 28953), (8, 29016), (14, 29205),

Gene: FortCran\_35 Start: 29163, Stop: 29462, Start Num: 5

Candidate Starts for FortCran\_35:

(Start: 5 @29163 has 12 MA's), (6, 29202), (7, 29205), (8, 29268), (14, 29457),

Gene: Gill\_35 Start: 29286, Stop: 29585, Start Num: 5

Candidate Starts for Gill\_35:

(Start: 4 @29271 has 4 MA's), (Start: 5 @29286 has 12 MA's), (6, 29325), (7, 29328), (8, 29391), (13, 29547), (14, 29580),

Gene: Gravy\_35 Start: 29271, Stop: 29585, Start Num: 4

Candidate Starts for Gravy\_35:

(Start: 4 @29271 has 4 MA's), (Start: 5 @29286 has 12 MA's), (6, 29325), (7, 29328), (8, 29391), (13, 29547), (14, 29580),

Gene: JulesRay\_35 Start: 29193, Stop: 29492, Start Num: 5

Candidate Starts for JulesRay\_35:

(Start: 4 @29178 has 4 MA's), (Start: 5 @29193 has 12 MA's), (6, 29232), (7, 29235), (8, 29298), (14, 29487),

Gene: Kerry\_35 Start: 29271, Stop: 29585, Start Num: 4

Candidate Starts for Kerry\_35:

(Start: 4 @29271 has 4 MA's), (Start: 5 @29286 has 12 MA's), (6, 29325), (7, 29328), (8, 29391), (13, 29547), (14, 29580),

Gene: Magel\_36 Start: 29194, Stop: 29493, Start Num: 5

Candidate Starts for Magel\_36:

(Start: 4 @29179 has 4 MA's), (Start: 5 @29194 has 12 MA's), (6, 29233), (7, 29236), (8, 29299), (13, 29455), (14, 29488),

Gene: Mossy\_39 Start: 33363, Stop: 33692, Start Num: 3

Candidate Starts for Mossy\_39:

(Start: 3 @33363 has 2 MA's), (Start: 5 @33399 has 12 MA's), (9, 33516), (12, 33630),

Gene: NoPickles\_35 Start: 28918, Stop: 29217, Start Num: 5

Candidate Starts for NoPickles\_35:

(Start: 4 @28903 has 4 MA's), (Start: 5 @28918 has 12 MA's), (6, 28957), (7, 28960), (8, 29023), (13, 29179), (14, 29212),

Gene: Odesza\_35 Start: 29271, Stop: 29585, Start Num: 4

Candidate Starts for Odesza\_35:

(Start: 4 @29271 has 4 MA's), (Start: 5 @29286 has 12 MA's), (6, 29325), (7, 29328), (8, 29391), (13, 29547), (14, 29580),

Gene: OhMyWard\_37 Start: 32706, Stop: 33035, Start Num: 3

Candidate Starts for OhMyWard\_37:

(1, 32664), (2, 32673), (Start: 3 @32706 has 2 MA's), (Start: 5 @32742 has 12 MA's), (9, 32859), (12, 32973),

Gene: Roney\_35 Start: 29286, Stop: 29585, Start Num: 5

Candidate Starts for Roney\_35:

(Start: 4 @29271 has 4 MA's), (Start: 5 @29286 has 12 MA's), (6, 29325), (7, 29328), (8, 29391), (13, 29547), (14, 29580),

Gene: Tairn4Wing\_37 Start: 29191, Stop: 29490, Start Num: 5

Candidate Starts for Tairn4Wing\_37:

(Start: 4 @29176 has 4 MA's), (Start: 5 @29191 has 12 MA's), (6, 29230), (10, 29329), (11, 29332), (13, 29452), (14, 29485),

Gene: Tanis\_35 Start: 29136, Stop: 29435, Start Num: 5

Candidate Starts for Tanis\_35:

(Start: 4 @29121 has 4 MA's), (Start: 5 @29136 has 12 MA's), (6, 29175), (7, 29178), (8, 29241), (13, 29397), (14, 29430),

Gene: Trufflozitus\_35 Start: 29192, Stop: 29491, Start Num: 5

Candidate Starts for Trufflozitus\_35:

(Start: 4 @29177 has 4 MA's), (Start: 5 @29192 has 12 MA's), (6, 29231), (10, 29330), (11, 29333), (13, 29453), (14, 29486),