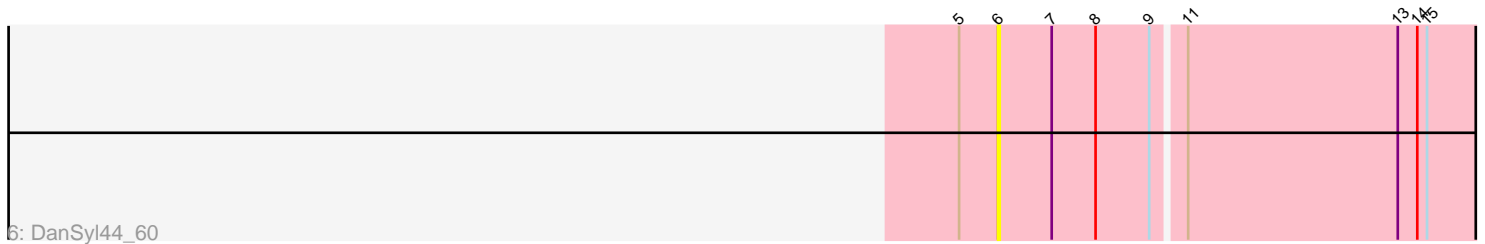
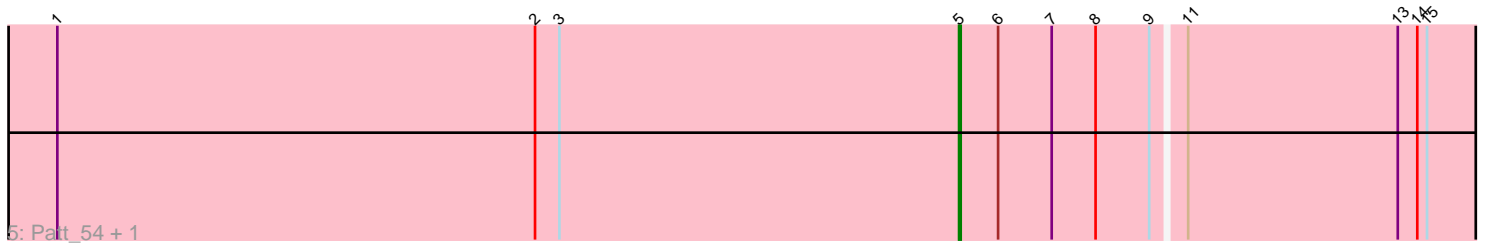
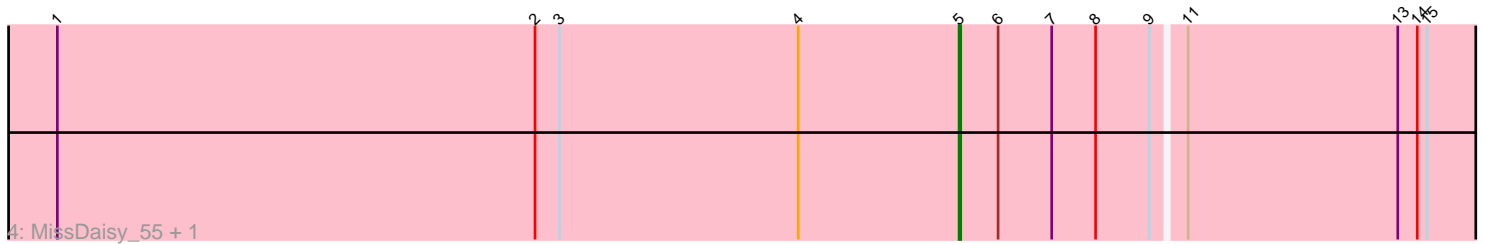
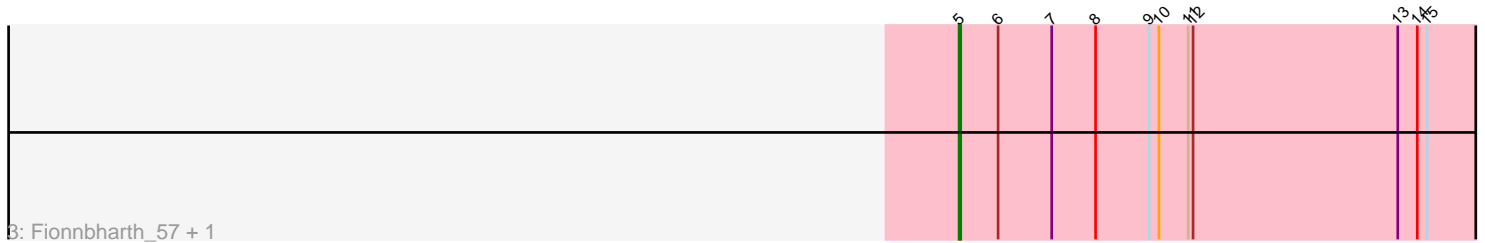
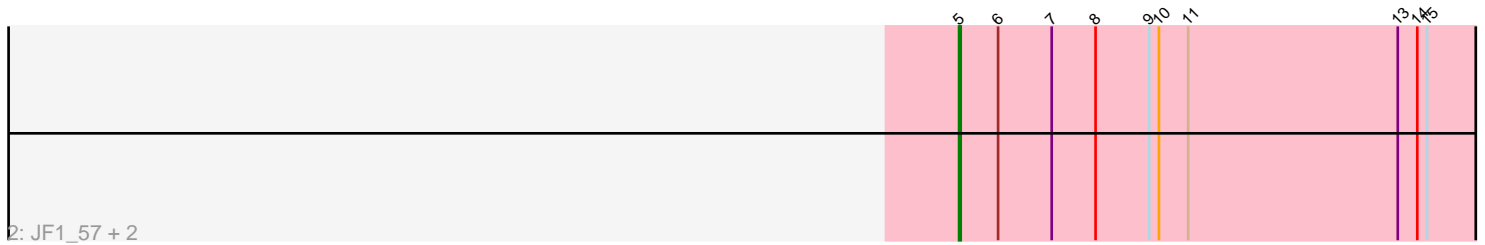
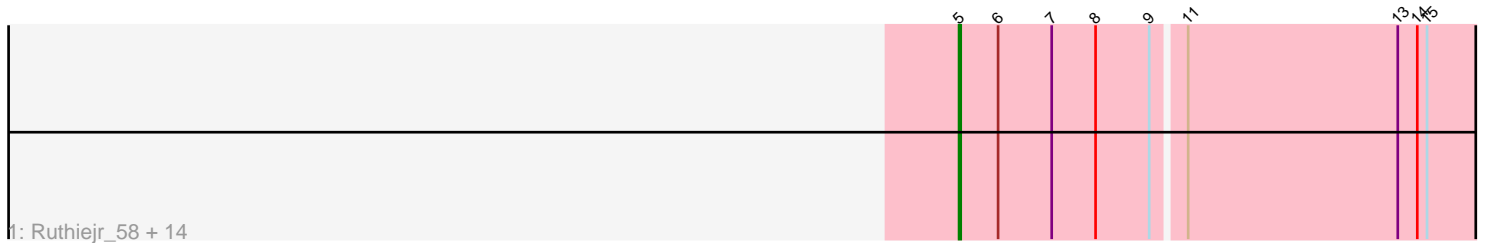


Pham 311951



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 311951 Report

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

Pham number 311951 has 25 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Ruthiejr\_58, Malthus\_58, Taquito\_57, Lebo14\_56, Slarp\_57, Qhanda\_59, Mitti\_57, Wintermute\_57, Juliette\_59, YasnayaPolyana\_57, Kraw\_57, Cheetobro\_57, Chancellor\_57, OmniCritical\_56, SamScheppers\_55
- Track 2 : JF1\_57, Y2\_56, Y10\_56
- Track 3 : Fionnbharth\_57, Eponine\_59
- Track 4 : MissDaisy\_55, Bobquesha\_59
- Track 5 : Patt\_54, Reptar3000\_55
- Track 6 : DanSyl44\_60

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

Genes that call this "Most Annotated" start:

- Bobquesha\_59, Chancellor\_57, Cheetobro\_57, Eponine\_59, Fionnbharth\_57, JF1\_57, Juliette\_59, Kraw\_57, Lebo14\_56, Malthus\_58, MissDaisy\_55, Mitti\_57, OmniCritical\_56, Patt\_54, Qhanda\_59, Reptar3000\_55, Ruthiejr\_58, SamScheppers\_55, Slarp\_57, Taquito\_57, Wintermute\_57, Y10\_56, Y2\_56, YasnayaPolyana\_57,

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

- DanSyl44\_60,

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

- 

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

Start 5:

- Found in 25 of 25 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 22 of 22
- Called 96.0% of time when present

- Phage (with cluster) where this start called: Bobquesha\_59 (K4), Chancellor\_57 (K4), Cheetobro\_57 (K4), Eponine\_59 (K4), Fionnbharth\_57 (K4), JF1\_57 (K4), Juliette\_59 (K4), Kraw\_57 (K4), Lebo14\_56 (K4), Malthus\_58 (K4), MissDaisy\_55 (K4), Mitti\_57 (K4), OmniCritical\_56 (K4), Patt\_54 (K4), Qhanda\_59 (K4), Reptar3000\_55 (K4), Ruthiejr\_58 (K4), SamScheppers\_55 (K4), Slarp\_57 (K4), Taquito\_57 (K4), Wintermute\_57 (K4), Y10\_56 (K4), Y2\_56 (K4), YasnayaPolyana\_57 (K4),

Start 6:

- Found in 25 of 25 ( 100.0% ) of genes in pham
- No Manual Annotations of this start.
- Called 4.0% of time when present
- Phage (with cluster) where this start called: DanSyl44\_60 (K4),

### Summary by clusters:

There is one cluster represented in this pham: K4

Info for manual annotations of cluster K4:

- Start number 5 was manually annotated 22 times for cluster K4.

### Gene Information:

Gene: Bobquesha\_59 Start: 38410, Stop: 38799, Start Num: 5

Candidate Starts for Bobquesha\_59:

(1, 37855), (2, 38149), (3, 38164), (4, 38311), (Start: 5 @38410 has 22 MA's), (6, 38434), (7, 38467), (8, 38494), (9, 38527), (11, 38545), (13, 38674), (14, 38686), (15, 38692),

Gene: Chancellor\_57 Start: 38900, Stop: 39289, Start Num: 5

Candidate Starts for Chancellor\_57:

(Start: 5 @38900 has 22 MA's), (6, 38924), (7, 38957), (8, 38984), (9, 39017), (11, 39035), (13, 39164), (14, 39176), (15, 39182),

Gene: Cheetobro\_57 Start: 38897, Stop: 39286, Start Num: 5

Candidate Starts for Cheetobro\_57:

(Start: 5 @38897 has 22 MA's), (6, 38921), (7, 38954), (8, 38981), (9, 39014), (11, 39032), (13, 39161), (14, 39173), (15, 39179),

Gene: DanSyl44\_60 Start: 40049, Stop: 40414, Start Num: 6

Candidate Starts for DanSyl44\_60:

(Start: 5 @40025 has 22 MA's), (6, 40049), (7, 40082), (8, 40109), (9, 40142), (11, 40160), (13, 40289), (14, 40301), (15, 40307),

Gene: Eponine\_59 Start: 39737, Stop: 40132, Start Num: 5

Candidate Starts for Eponine\_59:

(Start: 5 @39737 has 22 MA's), (6, 39761), (7, 39794), (8, 39821), (9, 39854), (10, 39860), (11, 39878), (12, 39881), (13, 40007), (14, 40019), (15, 40025),

Gene: Fionnbharth\_57 Start: 39135, Stop: 39530, Start Num: 5

Candidate Starts for Fionnbharth\_57:

(Start: 5 @39135 has 22 MA's), (6, 39159), (7, 39192), (8, 39219), (9, 39252), (10, 39258), (11, 39276), (12, 39279), (13, 39405), (14, 39417), (15, 39423),

Gene: JF1\_57 Start: 39052, Stop: 39447, Start Num: 5

Candidate Starts for JF1\_57:

(Start: 5 @39052 has 22 MA's), (6, 39076), (7, 39109), (8, 39136), (9, 39169), (10, 39175), (11, 39193), (13, 39322), (14, 39334), (15, 39340),

Gene: Juliette\_59 Start: 39205, Stop: 39594, Start Num: 5

Candidate Starts for Juliette\_59:

(Start: 5 @39205 has 22 MA's), (6, 39229), (7, 39262), (8, 39289), (9, 39322), (11, 39340), (13, 39469), (14, 39481), (15, 39487),

Gene: Kraw\_57 Start: 38893, Stop: 39282, Start Num: 5

Candidate Starts for Kraw\_57:

(Start: 5 @38893 has 22 MA's), (6, 38917), (7, 38950), (8, 38977), (9, 39010), (11, 39028), (13, 39157), (14, 39169), (15, 39175),

Gene: Lebo14\_56 Start: 39160, Stop: 39549, Start Num: 5

Candidate Starts for Lebo14\_56:

(Start: 5 @39160 has 22 MA's), (6, 39184), (7, 39217), (8, 39244), (9, 39277), (11, 39295), (13, 39424), (14, 39436), (15, 39442),

Gene: Malthus\_58 Start: 38893, Stop: 39282, Start Num: 5

Candidate Starts for Malthus\_58:

(Start: 5 @38893 has 22 MA's), (6, 38917), (7, 38950), (8, 38977), (9, 39010), (11, 39028), (13, 39157), (14, 39169), (15, 39175),

Gene: MissDaisy\_55 Start: 38425, Stop: 38814, Start Num: 5

Candidate Starts for MissDaisy\_55:

(1, 37870), (2, 38164), (3, 38179), (4, 38326), (Start: 5 @38425 has 22 MA's), (6, 38449), (7, 38482), (8, 38509), (9, 38542), (11, 38560), (13, 38689), (14, 38701), (15, 38707),

Gene: Mitti\_57 Start: 39072, Stop: 39461, Start Num: 5

Candidate Starts for Mitti\_57:

(Start: 5 @39072 has 22 MA's), (6, 39096), (7, 39129), (8, 39156), (9, 39189), (11, 39207), (13, 39336), (14, 39348), (15, 39354),

Gene: OmniCritical\_56 Start: 38881, Stop: 39270, Start Num: 5

Candidate Starts for OmniCritical\_56:

(Start: 5 @38881 has 22 MA's), (6, 38905), (7, 38938), (8, 38965), (9, 38998), (11, 39016), (13, 39145), (14, 39157), (15, 39163),

Gene: Patt\_54 Start: 38149, Stop: 38538, Start Num: 5

Candidate Starts for Patt\_54:

(1, 37594), (2, 37888), (3, 37903), (Start: 5 @38149 has 22 MA's), (6, 38173), (7, 38206), (8, 38233), (9, 38266), (11, 38284), (13, 38413), (14, 38425), (15, 38431),

Gene: Qhanda\_59 Start: 38909, Stop: 39298, Start Num: 5

Candidate Starts for Qhanda\_59:

(Start: 5 @38909 has 22 MA's), (6, 38933), (7, 38966), (8, 38993), (9, 39026), (11, 39044), (13, 39173), (14, 39185), (15, 39191),

Gene: Reptar3000\_55 Start: 38137, Stop: 38526, Start Num: 5

Candidate Starts for Reptar3000\_55:

(1, 37582), (2, 37876), (3, 37891), (Start: 5 @38137 has 22 MA's), (6, 38161), (7, 38194), (8, 38221), (9, 38254), (11, 38272), (13, 38401), (14, 38413), (15, 38419),

Gene: Ruthiejr\_58 Start: 38943, Stop: 39332, Start Num: 5

Candidate Starts for Ruthiejr\_58:

(Start: 5 @38943 has 22 MA's), (6, 38967), (7, 39000), (8, 39027), (9, 39060), (11, 39078), (13, 39207), (14, 39219), (15, 39225),

Gene: SamScheppers\_55 Start: 39372, Stop: 39761, Start Num: 5

Candidate Starts for SamScheppers\_55:

(Start: 5 @39372 has 22 MA's), (6, 39396), (7, 39429), (8, 39456), (9, 39489), (11, 39507), (13, 39636), (14, 39648), (15, 39654),

Gene: Slarp\_57 Start: 38900, Stop: 39289, Start Num: 5

Candidate Starts for Slarp\_57:

(Start: 5 @38900 has 22 MA's), (6, 38924), (7, 38957), (8, 38984), (9, 39017), (11, 39035), (13, 39164), (14, 39176), (15, 39182),

Gene: Taquito\_57 Start: 39228, Stop: 39647, Start Num: 5

Candidate Starts for Taquito\_57:

(Start: 5 @39228 has 22 MA's), (6, 39252), (7, 39285), (8, 39312), (9, 39345), (11, 39363), (13, 39492), (14, 39504), (15, 39510),

Gene: Wintermute\_57 Start: 39130, Stop: 39519, Start Num: 5

Candidate Starts for Wintermute\_57:

(Start: 5 @39130 has 22 MA's), (6, 39154), (7, 39187), (8, 39214), (9, 39247), (11, 39265), (13, 39394), (14, 39406), (15, 39412),

Gene: Y10\_56 Start: 39052, Stop: 39447, Start Num: 5

Candidate Starts for Y10\_56:

(Start: 5 @39052 has 22 MA's), (6, 39076), (7, 39109), (8, 39136), (9, 39169), (10, 39175), (11, 39193), (13, 39322), (14, 39334), (15, 39340),

Gene: Y2\_56 Start: 39052, Stop: 39447, Start Num: 5

Candidate Starts for Y2\_56:

(Start: 5 @39052 has 22 MA's), (6, 39076), (7, 39109), (8, 39136), (9, 39169), (10, 39175), (11, 39193), (13, 39322), (14, 39334), (15, 39340),

Gene: YasnayaPolyana\_57 Start: 38983, Stop: 39372, Start Num: 5

Candidate Starts for YasnayaPolyana\_57:

(Start: 5 @38983 has 22 MA's), (6, 39007), (7, 39040), (8, 39067), (9, 39100), (11, 39118), (13, 39247), (14, 39259), (15, 39265),