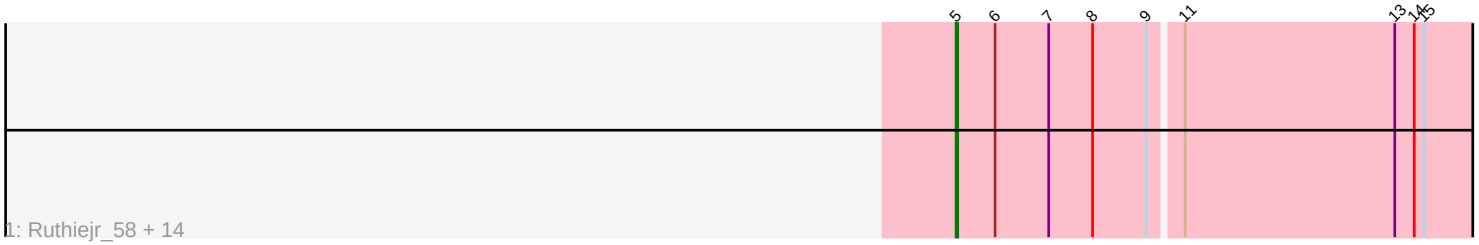
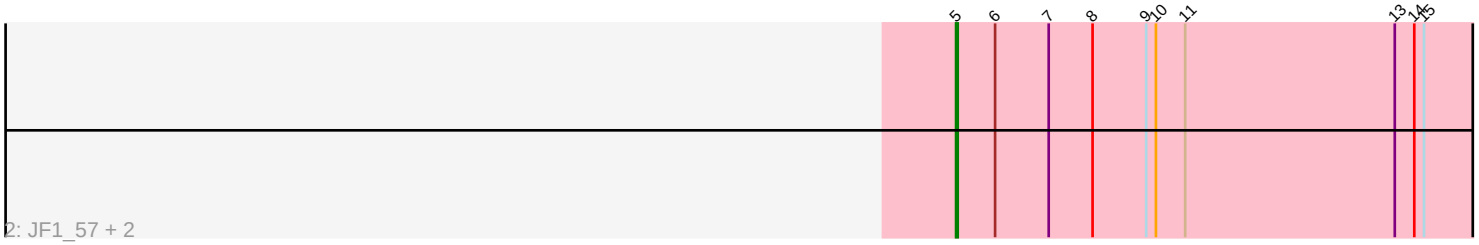
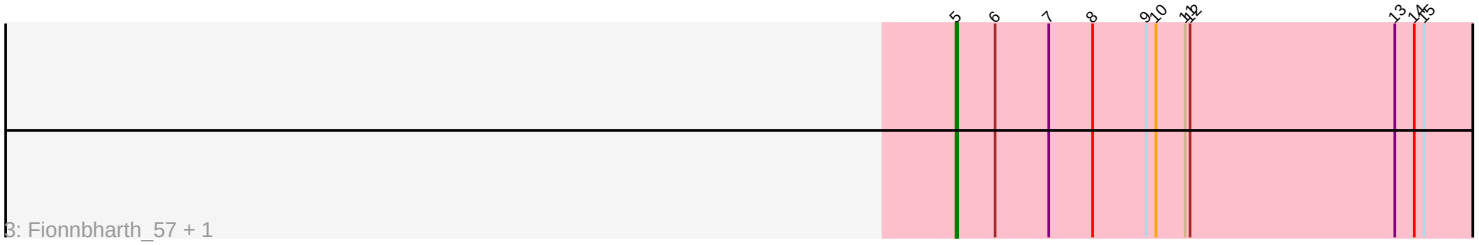
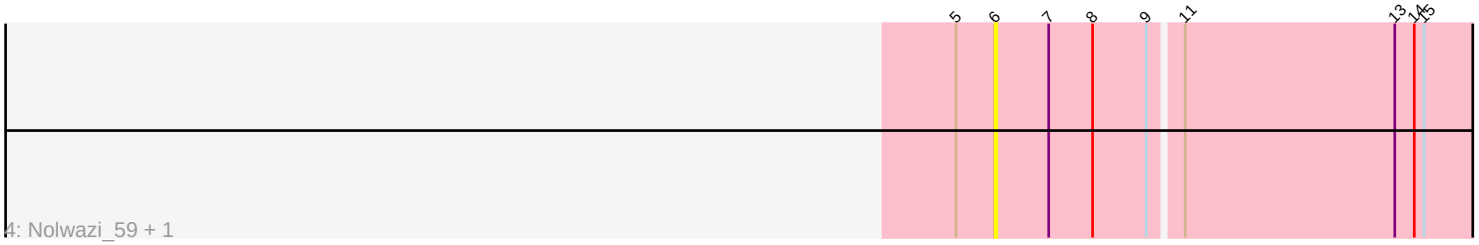
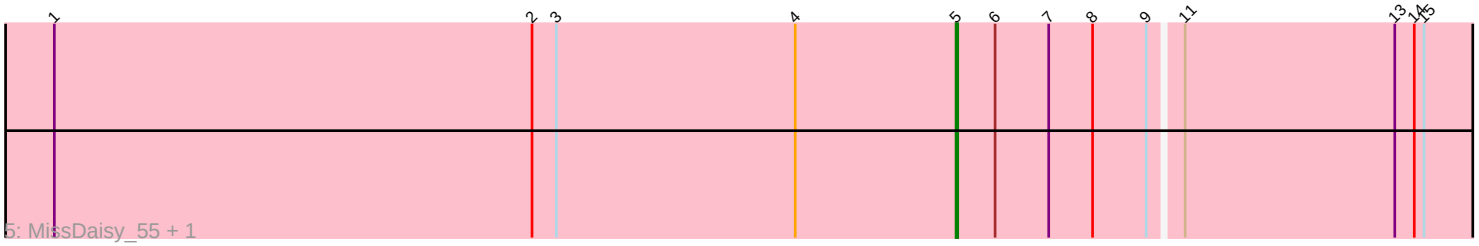
Pham 346083

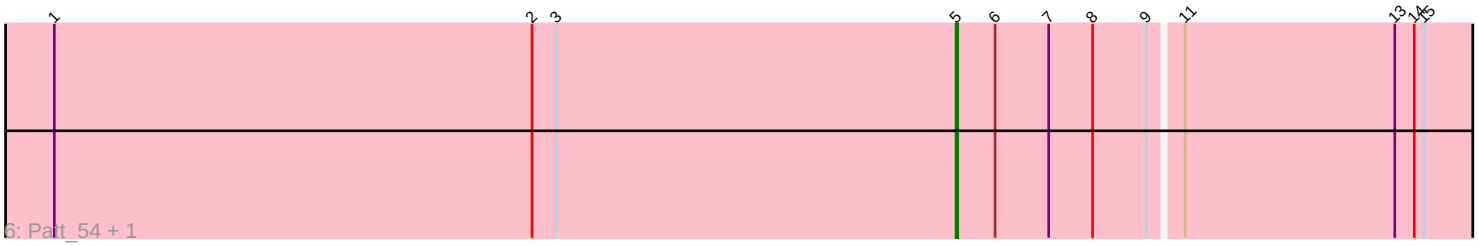

5
6
7
8
9
11
13
14
15
1: Ruthiejr_58 + 14


5
6
7
8
9
10
11
13
14
15
2: JF1_57 + 2


5
6
7
8
9
10
12
13
14
15
3: Fionnbharth_57 + 1


5
6
7
8
9
11
13
14
15
4: Nolwazi_59 + 1


1
2
3
4
5
6
7
8
9
11
13
14
15
5: MissDaisy_55 + 1


1
2
3
5
6
7
8
9
11
13
14
15
6: Patt_54 + 1

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 346083 Report

This analysis was run 11/14/26 on database version 672.

Pham number 346083 has 26 members, 4 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 : Nolwazi_59, DanSyl44_60
• Track 5 : MissDaisy_55, Bobquesha_59
• Track 6 : Patt_54, Reptar3000_55

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, Nolwazi_59,

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

Summary by start number:

Start 5:
• Found in 26 of 26 (100.0%) of genes in pham
• Manual Annotations of this start: 22 of 22
• Called 92.3% 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 26 of 26 (100.0%) of genes in pham
• No Manual Annotations of this start.
• Called 7.7% of time when present
• Phage (with cluster) where this start called: DanSyl44_60 (K4), Nolwazi_59 (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: Nolwazi_59 Start: 38997, Stop: 39362, Start Num: 6
Candidate Starts for Nolwazi_59:
(Start: 5 @38973 has 22 MA's), (6, 38997), (7, 39030), (8, 39057), (9, 39090), (11, 39108), (13, 39237), (14, 39249), (15, 39255),

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),