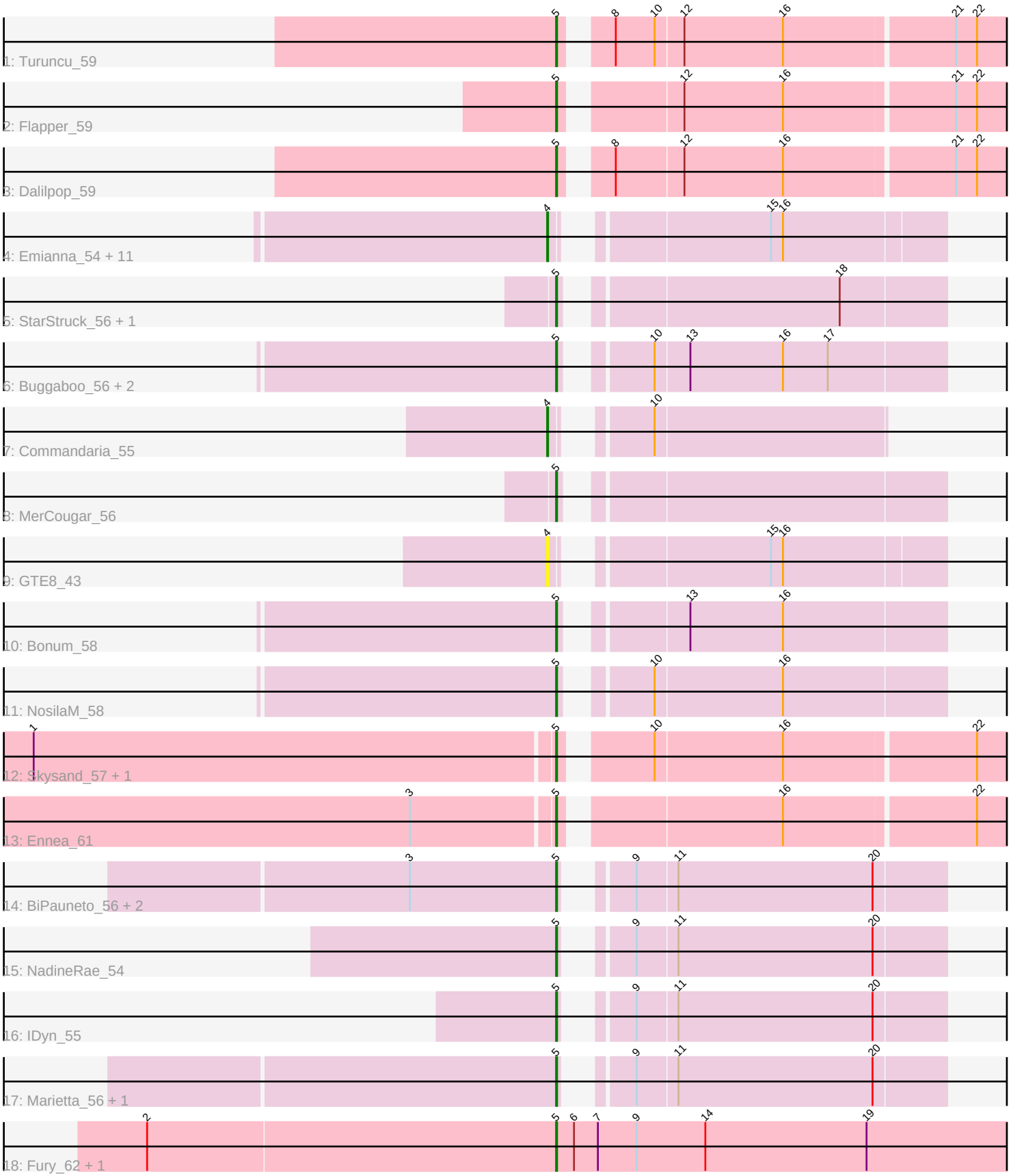
Pham 196678


1: Turuncu_59
2: Flapper_59
3: Dalilpop_59
4: Emianna_54 + 11
5: StarStruck_56 + 1
6: Buggaboo_56 + 2
7: Commandaria_55
8: MerCougar_56
9: GTE8_43
10: Bonum_58
11: NosilaM_58
12: Skysand_57 + 1
13: Ennea_61
14: BiPauneto_56 + 2
15: NadineRae_54
16: IDyn_55
17: Marietta_56 + 1
18: Fury_62 + 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 196678 Report

This analysis was run 12/09/24 on database version 580.

Pham number 196678 has 37 members, 2 are drafts.

Phages represented in each track:
• Track 1 : Turuncu_59
• Track 2 : Flapper_59
• Track 3 : Dalilpop_59
• Track 4 : Emianna_54, Kurt_54, NatB6_54, KidneyBean_54, GrootJr_56, Wheezy_54, NovumRegina_54, Jifall16_53, Tracker_54, Arti_54, Foxboro_55, Phomeo_53
• Track 5 : StarStruck_56, Outis_56
• Track 6 : Buggaboo_56, Kabluna_58, SuperSulley_56
• Track 7 : Commandaria_55
• Track 8 : MerCougar_56
• Track 9 : GTE8_43
• Track 10 : Bonum_58
• Track 11 : NosilaM_58
• Track 12 : Skysand_57, Patio_58
• Track 13 : Ennea_61
• Track 14 : BiPauneto_56, Sukkupi_55, Yndexa_55
• Track 15 : NadineRae_54
• Track 16 : IDyn_55
• Track 17 : Marietta_56, WhoseManz_55
• Track 18 : Fury_62, Pleakley_62

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 23 of the 35 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• BiPauneto_56, Bonum_58, Buggaboo_56, Dalilpop_59, Ennea_61, Flapper_59, Fury_62, IDyn_55, Kabluna_58, Marietta_56, MerCougar_56, NadineRae_54, NosilaM_58, Outis_56, Patio_58, Pleakley_62, Skysand_57, StarStruck_56, Sukkupi_55, SuperSulley_56, Turuncu_59, WhoseManz_55, Yndexa_55,

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

Genes that do not have the "Most Annotated" start:
• Arti_54, Commandaria_55, Emianna_54, Foxboro_55, GTE8_43, GrootJr_56, Jifall16_53, KidneyBean_54, Kurt_54, NatB6_54, NovumRegina_54, Phomeo_53, Tracker_54, Wheezy_54,

Summary by start number:

Start 4:
• Found in 14 of 37 (37.8%) of genes in pham
• Manual Annotations of this start: 12 of 35
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Arti_54 (CR2), Commandaria_55 (CR2), Emianna_54 (CR2), Foxboro_55 (CR2), GTE8_43 (CR2), GrootJr_56 (CR2), Jifall16_53 (CR2), KidneyBean_54 (CR2), Kurt_54 (CR2), NatB6_54 (CR2), NovumRegina_54 (CR2), Phomeo_53 (CR2), Tracker_54 (CR2), Wheezy_54 (CR2),

Start 5:
• Found in 23 of 37 (62.2%) of genes in pham
• Manual Annotations of this start: 23 of 35
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BiPauneto_56 (CR4), Bonum_58 (CR2), Buggaboo_56 (CR2), Dalilpop_59 (CR1), Ennea_61 (CR3), Flapper_59 (CR1), Fury_62 (CR5), IDyn_55 (CR4), Kabluna_58 (CR2), Marietta_56 (CR4), MerCougar_56 (CR2), NadineRae_54 (CR4), NosilaM_58 (CR2), Outis_56 (CR2), Patio_58 (CR3), Pleakley_62 (CR5), Skysand_57 (CR3), StarStruck_56 (CR2), Sukkupi_55 (CR4), SuperSulley_56 (CR2), Turuncu_59 (CR1), WhoseManz_55 (CR4), Yndexa_55 (CR4),

Summary by clusters:

There are 5 clusters represented in this pham: CR2, CR3, CR1, CR4, CR5,

Info for manual annotations of cluster CR1:
•Start number 5 was manually annotated 3 times for cluster CR1.

Info for manual annotations of cluster CR2:
•Start number 4 was manually annotated 12 times for cluster CR2.
•Start number 5 was manually annotated 8 times for cluster CR2.

Info for manual annotations of cluster CR3:
•Start number 5 was manually annotated 3 times for cluster CR3.

Info for manual annotations of cluster CR4:
•Start number 5 was manually annotated 7 times for cluster CR4.

Info for manual annotations of cluster CR5:
•Start number 5 was manually annotated 2 times for cluster CR5.

Gene Information:

Gene: Arti_54 Start: 42850, Stop: 42503, Start Num: 4
Candidate Starts for Arti_54:
(Start: 4 @42850 has 12 MA's), (15, 42673), (16, 42661),

Gene: BiPauneto_56 Start: 42359, Stop: 42015, Start Num: 5
Candidate Starts for BiPauneto_56:
(3, 42506), (Start: 5 @42359 has 23 MA's), (9, 42320), (11, 42281), (20, 42086),

Gene: Bonum_58 Start: 43499, Stop: 43149, Start Num: 5
Candidate Starts for Bonum_58:
(Start: 5 @43499 has 23 MA's), (13, 43403), (16, 43310),

Gene: Buggaboo_56 Start: 43978, Stop: 43628, Start Num: 5
Candidate Starts for Buggaboo_56:
(Start: 5 @43978 has 23 MA's), (10, 43915), (13, 43882), (16, 43789), (17, 43744),

Gene: Commandaria_55 Start: 43971, Stop: 43681, Start Num: 4
Candidate Starts for Commandaria_55:
(Start: 4 @43971 has 12 MA's), (10, 43908),

Gene: Dalilpop_59 Start: 45148, Stop: 44726, Start Num: 5
Candidate Starts for Dalilpop_59:
(Start: 5 @45148 has 23 MA's), (8, 45115), (12, 45049), (16, 44950), (21, 44785), (22, 44764),

Gene: Emianna_54 Start: 43842, Stop: 43495, Start Num: 4
Candidate Starts for Emianna_54:
(Start: 4 @43842 has 12 MA's), (15, 43665), (16, 43653),

Gene: Ennea_61 Start: 44864, Stop: 44445, Start Num: 5
Candidate Starts for Ennea_61:
(3, 45002), (Start: 5 @44864 has 23 MA's), (16, 44666), (22, 44480),

Gene: Flapper_59 Start: 44580, Stop: 44158, Start Num: 5
Candidate Starts for Flapper_59:
(Start: 5 @44580 has 23 MA's), (12, 44481), (16, 44382), (21, 44217), (22, 44196),

Gene: Foxboro_55 Start: 44348, Stop: 44001, Start Num: 4
Candidate Starts for Foxboro_55:
(Start: 4 @44348 has 12 MA's), (15, 44171), (16, 44159),

Gene: Fury_62 Start: 43029, Stop: 42574, Start Num: 5
Candidate Starts for Fury_62:
(2, 43437), (Start: 5 @43029 has 23 MA's), (6, 43011), (7, 42987), (9, 42948), (14, 42879), (19, 42717),

Gene: GTE8_43 Start: 37105, Stop: 36758, Start Num: 4
Candidate Starts for GTE8_43:
(Start: 4 @37105 has 12 MA's), (15, 36928), (16, 36916),

Gene: GrootJr_56 Start: 43224, Stop: 42877, Start Num: 4
Candidate Starts for GrootJr_56:
(Start: 4 @43224 has 12 MA's), (15, 43047), (16, 43035),

Gene: IDyn_55 Start: 40800, Stop: 40456, Start Num: 5
Candidate Starts for IDyn_55:
(Start: 5 @40800 has 23 MA's), (9, 40761), (11, 40722), (20, 40527),

Gene: Jifall16_53 Start: 43496, Stop: 43149, Start Num: 4
Candidate Starts for Jifall16_53:
(Start: 4 @43496 has 12 MA's), (15, 43319), (16, 43307),

Gene: Kabluna_58 Start: 42914, Stop: 42564, Start Num: 5
Candidate Starts for Kabluna_58:
(Start: 5 @42914 has 23 MA's), (10, 42851), (13, 42818), (16, 42725), (17, 42680),

Gene: KidneyBean_54 Start: 43620, Stop: 43273, Start Num: 4
Candidate Starts for KidneyBean_54:
(Start: 4 @43620 has 12 MA's), (15, 43443), (16, 43431),

Gene: Kurt_54 Start: 43857, Stop: 43510, Start Num: 4
Candidate Starts for Kurt_54:
(Start: 4 @43857 has 12 MA's), (15, 43680), (16, 43668),

Gene: Marietta_56 Start: 40694, Stop: 40350, Start Num: 5
Candidate Starts for Marietta_56:
(Start: 5 @40694 has 23 MA's), (9, 40655), (11, 40616), (20, 40421),

Gene: MerCougar_56 Start: 44115, Stop: 43765, Start Num: 5
Candidate Starts for MerCougar_56:
(Start: 5 @44115 has 23 MA's),

Gene: NadineRae_54 Start: 39938, Stop: 39594, Start Num: 5
Candidate Starts for NadineRae_54:
(Start: 5 @39938 has 23 MA's), (9, 39899), (11, 39860), (20, 39665),

Gene: NatB6_54 Start: 42914, Stop: 42567, Start Num: 4
Candidate Starts for NatB6_54:
(Start: 4 @42914 has 12 MA's), (15, 42737), (16, 42725),

Gene: NosilaM_58 Start: 43812, Stop: 43462, Start Num: 5
Candidate Starts for NosilaM_58:
(Start: 5 @43812 has 23 MA's), (10, 43749), (16, 43623),

Gene: NovumRegina_54 Start: 43223, Stop: 42876, Start Num: 4
Candidate Starts for NovumRegina_54:
(Start: 4 @43223 has 12 MA's), (15, 43046), (16, 43034),

Gene: Outis_56 Start: 43809, Stop: 43459, Start Num: 5
Candidate Starts for Outis_56:
(Start: 5 @43809 has 23 MA's), (18, 43563),

Gene: Patio_58 Start: 44088, Stop: 43669, Start Num: 5
Candidate Starts for Patio_58:
(1, 44604), (Start: 5 @44088 has 23 MA's), (10, 44016), (16, 43890), (22, 43704),

Gene: Phomeo_53 Start: 43492, Stop: 43145, Start Num: 4

Candidate Starts for Phomeo_53:
(Start: 4 @43492 has 12 MA's), (15, 43315), (16, 43303),

Gene: Pleakley_62 Start: 43030, Stop: 42575, Start Num: 5
Candidate Starts for Pleakley_62:
(2, 43438), (Start: 5 @43030 has 23 MA's), (6, 43012), (7, 42988), (9, 42949), (14, 42880), (19, 42718),

Gene: Skysand_57 Start: 44308, Stop: 43889, Start Num: 5
Candidate Starts for Skysand_57:
(1, 44824), (Start: 5 @44308 has 23 MA's), (10, 44236), (16, 44110), (22, 43924),

Gene: StarStruck_56 Start: 43809, Stop: 43459, Start Num: 5
Candidate Starts for StarStruck_56:
(Start: 5 @43809 has 23 MA's), (18, 43563),

Gene: Sukkupi_55 Start: 42250, Stop: 41906, Start Num: 5
Candidate Starts for Sukkupi_55:
(3, 42397), (Start: 5 @42250 has 23 MA's), (9, 42211), (11, 42172), (20, 41977),

Gene: SuperSulley_56 Start: 43978, Stop: 43628, Start Num: 5
Candidate Starts for SuperSulley_56:
(Start: 5 @43978 has 23 MA's), (10, 43915), (13, 43882), (16, 43789), (17, 43744),

Gene: Tracker_54 Start: 42638, Stop: 42291, Start Num: 4
Candidate Starts for Tracker_54:
(Start: 4 @42638 has 12 MA's), (15, 42461), (16, 42449),

Gene: Turuncu_59 Start: 44242, Stop: 43820, Start Num: 5
Candidate Starts for Turuncu_59:
(Start: 5 @44242 has 23 MA's), (8, 44209), (10, 44170), (12, 44143), (16, 44044), (21, 43879), (22, 43858),

Gene: Wheezy_54 Start: 42846, Stop: 42499, Start Num: 4
Candidate Starts for Wheezy_54:
(Start: 4 @42846 has 12 MA's), (15, 42669), (16, 42657),

Gene: WhoseManz_55 Start: 40307, Stop: 39963, Start Num: 5
Candidate Starts for WhoseManz_55:
(Start: 5 @40307 has 23 MA's), (9, 40268), (11, 40229), (20, 40034),

Gene: Yndexa_55 Start: 42250, Stop: 41906, Start Num: 5
Candidate Starts for Yndexa_55:
(3, 42397), (Start: 5 @42250 has 23 MA's), (9, 42211), (11, 42172), (20, 41977),