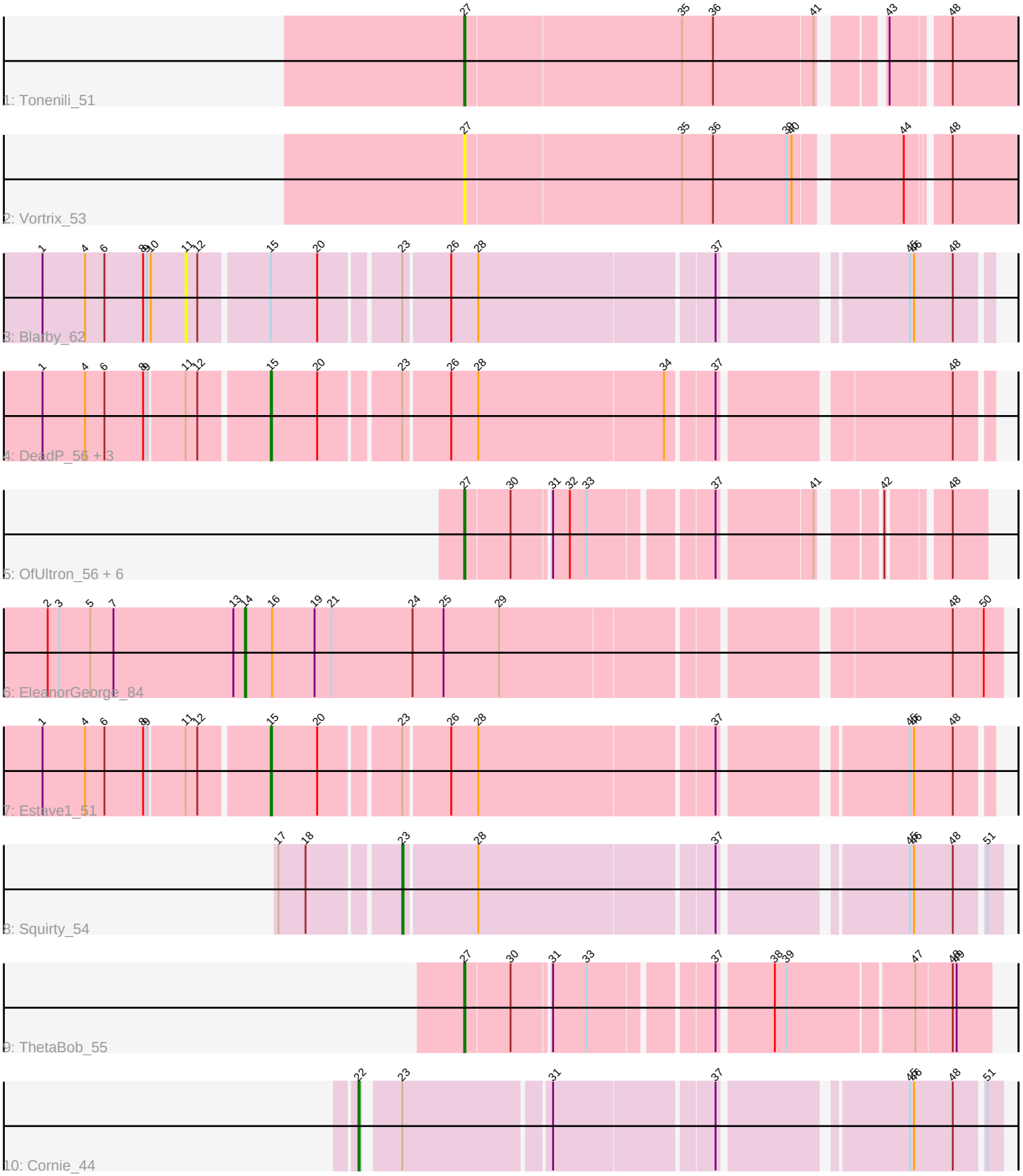
Pham 312059


1: Tonenili_51
2: Vortrix_53
3: Blarby_62
4: DeadP_56 + 3
5: OfUltron_56 + 6
6: EleanorGeorge_84
7: Estave1_51
8: Squirty_54
9: ThetaBob_55
10: Cornie_44

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 312059 Report

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

Pham number 312059 has 19 members, 2 are drafts.

Phages represented in each track:
• Track 1 : Tonenili_51
• Track 2 : Vortrix_53
• Track 3 : Blarby_62
• Track 4 : DeadP_56, Taj_54, Renaud18_56, Wee_53
• Track 5 : OfUltron_56, Jinglebell_56, Modragons_55, Ochi17_54, AlpineSix_56, Seabastian_56, Llama_56
• Track 6 : EleanorGeorge_84
• Track 7 : Estave1_51
• Track 8 : Squirty_54
• Track 9 : ThetaBob_55
• Track 10 : Cornie_44

Summary of Final Annotations (See graph section above for start numbers):

The start number called the most often in the published annotations is 27, it was called in 9 of the 17 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• AlpineSix_56, Jinglebell_56, Llama_56, Modragons_55, Ochi17_54, OfUltron_56, Seabastian_56, ThetaBob_55, Tonenili_51, Vortrix_53,

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

Genes that do not have the "Most Annotated" start:
• Blarby_62, Cornie_44, DeadP_56, EleanorGeorge_84, Estave1_51, Renaud18_56, Squirty_54, Taj_54, Wee_53,

Summary by start number:

Start 11:
• Found in 6 of 19 (31.6%) of genes in pham
• No Manual Annotations of this start.
• Called 16.7% of time when present

• Phage (with cluster) where this start called: Blarby_62 (F),

Start 14:
• Found in 1 of 19 (5.3%) of genes in pham
• Manual Annotations of this start: 1 of 17
• Called 100.0% of time when present
• Phage (with cluster) where this start called: EleanorGeorge_84 (F1),

Start 15:
• Found in 6 of 19 (31.6%) of genes in pham
• Manual Annotations of this start: 5 of 17
• Called 83.3% of time when present
• Phage (with cluster) where this start called: DeadP_56 (F1), Estave1_51 (F1), Renaud18_56 (F4), Taj_54 (F1), Wee_53 (F1),

Start 22:
• Found in 1 of 19 (5.3%) of genes in pham
• Manual Annotations of this start: 1 of 17
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Cornie_44 (F5),

Start 23:
• Found in 8 of 19 (42.1%) of genes in pham
• Manual Annotations of this start: 1 of 17
• Called 12.5% of time when present
• Phage (with cluster) where this start called: Squirty_54 (F3),

Start 27:
• Found in 10 of 19 (52.6%) of genes in pham
• Manual Annotations of this start: 9 of 17
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AlpineSix_56 (F1), Jinglebell_56 (F1), Llama_56 (F1), Modragons_55 (F1), Ochi17_54 (F1), OfUltron_56 (F1), Seabastian_56 (F1), ThetaBob_55 (F4), Tonenili_51 (C1), Vortrix_53 (C1),

Summary by clusters:

There are 6 clusters represented in this pham: F1, F3, F4, F5, F, C1,

Info for manual annotations of cluster C1:
•Start number 27 was manually annotated 1 time for cluster C1.

Info for manual annotations of cluster F1:
•Start number 14 was manually annotated 1 time for cluster F1.
•Start number 15 was manually annotated 4 times for cluster F1.
•Start number 27 was manually annotated 7 times for cluster F1.

Info for manual annotations of cluster F3:
•Start number 23 was manually annotated 1 time for cluster F3.

Info for manual annotations of cluster F4:
•Start number 15 was manually annotated 1 time for cluster F4.

•Start number 27 was manually annotated 1 time for cluster F4.

Info for manual annotations of cluster F5:
•Start number 22 was manually annotated 1 time for cluster F5.

Gene Information:

Gene: AlpineSix_56 Start: 38900, Stop: 39235, Start Num: 27
Candidate Starts for AlpineSix_56:
(Start: 27 @38900 has 9 MA's), (30, 38933), (31, 38960), (32, 38972), (33, 38984), (37, 39068), (41, 39134), (42, 39170), (48, 39209),

Gene: Blarby_62 Start: 37522, Stop: 38091, Start Num: 11
Candidate Starts for Blarby_62:
(1, 37411), (4, 37444), (6, 37459), (8, 37489), (9, 37492), (10, 37495), (11, 37522), (12, 37531), (Start: 15 @37582 has 5 MA's), (20, 37618), (Start: 23 @37675 has 1 MA's), (26, 37708), (28, 37729), (37, 37903), (45, 38032), (46, 38035), (48, 38065),

Gene: Cornie_44 Start: 34732, Stop: 35169, Start Num: 22
Candidate Starts for Cornie_44:
(Start: 22 @34732 has 1 MA's), (Start: 23 @34756 has 1 MA's), (31, 34858), (37, 34975), (45, 35104), (46, 35107), (48, 35137), (51, 35158),

Gene: DeadP_56 Start: 38235, Stop: 38747, Start Num: 15
Candidate Starts for DeadP_56:
(1, 38067), (4, 38100), (6, 38115), (8, 38145), (9, 38148), (11, 38175), (12, 38184), (Start: 15 @38235 has 5 MA's), (20, 38271), (Start: 23 @38328 has 1 MA's), (26, 38361), (28, 38382), (34, 38523), (37, 38556), (48, 38721),

Gene: EleanorGeorge_84 Start: 49979, Stop: 50533, Start Num: 14
Candidate Starts for EleanorGeorge_84:
(2, 49826), (3, 49835), (5, 49859), (7, 49877), (13, 49970), (Start: 14 @49979 has 1 MA's), (16, 50000), (19, 50033), (21, 50045), (24, 50108), (25, 50132), (29, 50174), (48, 50495), (50, 50519),

Gene: Estave1_51 Start: 36423, Stop: 36932, Start Num: 15
Candidate Starts for Estave1_51:
(1, 36255), (4, 36288), (6, 36303), (8, 36333), (9, 36336), (11, 36363), (12, 36372), (Start: 15 @36423 has 5 MA's), (20, 36459), (Start: 23 @36516 has 1 MA's), (26, 36549), (28, 36570), (37, 36744), (45, 36873), (46, 36876), (48, 36906),

Gene: Jinglebell_56 Start: 38899, Stop: 39234, Start Num: 27
Candidate Starts for Jinglebell_56:
(Start: 27 @38899 has 9 MA's), (30, 38932), (31, 38959), (32, 38971), (33, 38983), (37, 39067), (41, 39133), (42, 39169), (48, 39208),

Gene: Llama_56 Start: 38897, Stop: 39232, Start Num: 27
Candidate Starts for Llama_56:
(Start: 27 @38897 has 9 MA's), (30, 38930), (31, 38957), (32, 38969), (33, 38981), (37, 39065), (41, 39131), (42, 39167), (48, 39206),

Gene: Modragons_55 Start: 38743, Stop: 39078, Start Num: 27

Candidate Starts for Modragons_55:
(Start: 27 @38743 has 9 MA's), (30, 38776), (31, 38803), (32, 38815), (33, 38827), (37, 38911), (41, 38977), (42, 39013), (48, 39052),

Gene: Ochi17_54 Start: 38350, Stop: 38685, Start Num: 27
Candidate Starts for Ochi17_54:
(Start: 27 @38350 has 9 MA's), (30, 38383), (31, 38410), (32, 38422), (33, 38434), (37, 38518), (41, 38584), (42, 38620), (48, 38659),

Gene: OfUltron_56 Start: 38899, Stop: 39234, Start Num: 27
Candidate Starts for OfUltron_56:
(Start: 27 @38899 has 9 MA's), (30, 38932), (31, 38959), (32, 38971), (33, 38983), (37, 39067), (41, 39133), (42, 39169), (48, 39208),

Gene: Renaud18_56 Start: 37524, Stop: 38036, Start Num: 15
Candidate Starts for Renaud18_56:
(1, 37356), (4, 37389), (6, 37404), (8, 37434), (9, 37437), (11, 37464), (12, 37473), (Start: 15 @37524 has 5 MA's), (20, 37560), (Start: 23 @37617 has 1 MA's), (26, 37650), (28, 37671), (34, 37812), (37, 37845), (48, 38010),

Gene: Seabastian_56 Start: 38900, Stop: 39235, Start Num: 27
Candidate Starts for Seabastian_56:
(Start: 27 @38900 has 9 MA's), (30, 38933), (31, 38960), (32, 38972), (33, 38984), (37, 39068), (41, 39134), (42, 39170), (48, 39209),

Gene: Squirty_54 Start: 37873, Stop: 38295, Start Num: 23
Candidate Starts for Squirty_54:
(17, 37786), (18, 37807), (Start: 23 @37873 has 1 MA's), (28, 37927), (37, 38101), (45, 38230), (46, 38233), (48, 38263), (51, 38284),

Gene: Taj_54 Start: 37445, Stop: 37957, Start Num: 15
Candidate Starts for Taj_54:
(1, 37277), (4, 37310), (6, 37325), (8, 37355), (9, 37358), (11, 37385), (12, 37394), (Start: 15 @37445 has 5 MA's), (20, 37481), (Start: 23 @37538 has 1 MA's), (26, 37571), (28, 37592), (34, 37733), (37, 37766), (48, 37931),

Gene: ThetaBob_55 Start: 37062, Stop: 37427, Start Num: 27
Candidate Starts for ThetaBob_55:
(Start: 27 @37062 has 9 MA's), (30, 37095), (31, 37122), (33, 37146), (37, 37230), (38, 37269), (39, 37278), (47, 37371), (48, 37398), (49, 37401),

Gene: Tonenili_51 Start: 16033, Stop: 16419, Start Num: 27
Candidate Starts for Tonenili_51:
(Start: 27 @16033 has 9 MA's), (35, 16195), (36, 16219), (41, 16294), (43, 16330), (48, 16369),

Gene: Vortrix_53 Start: 16317, Stop: 16712, Start Num: 27
Candidate Starts for Vortrix_53:
(Start: 27 @16317 has 9 MA's), (35, 16479), (36, 16503), (39, 16560), (40, 16563), (44, 16635), (48, 16662),

Gene: Wee_53 Start: 37717, Stop: 38229, Start Num: 15
Candidate Starts for Wee_53:

(1, 37549), (4, 37582), (6, 37597), (8, 37627), (9, 37630), (11, 37657), (12, 37666), (Start: 15 @37717 has 5 MA's), (20, 37753), (Start: 23 @37810 has 1 MA's), (26, 37843), (28, 37864), (34, 38005), (37, 38038), (48, 38203),