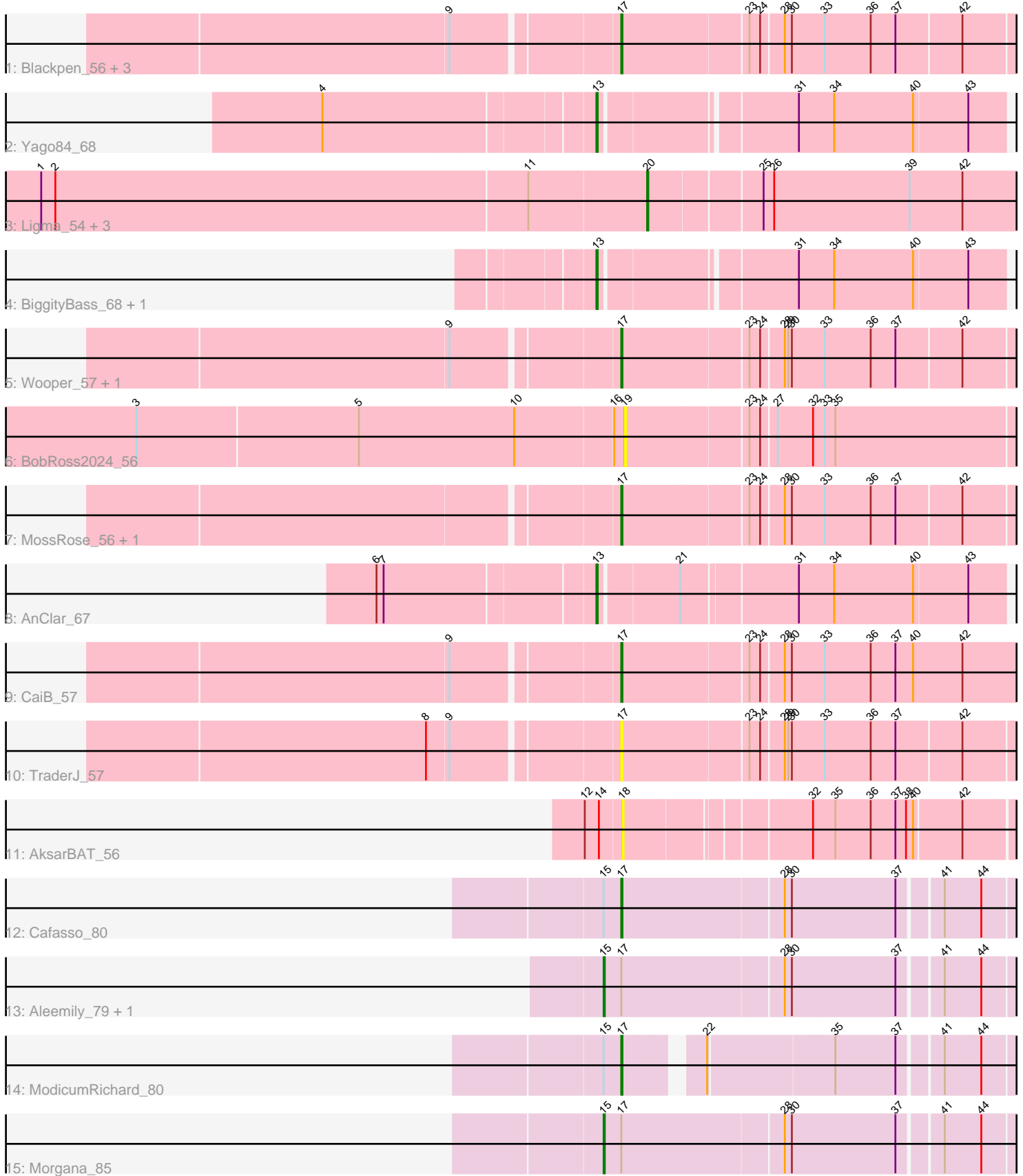


Pham 309143



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 309143 Report

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

Pham number 309143 has 25 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Blackpen_56, CloverMinnie_56, FelixTres_56, AnarQue_57
- Track 2 : Yago84_68
- Track 3 : Ligma_54, Shatter_54, Fresco_54, Axumite_54
- Track 4 : BiggityBass_68, Sisko_68
- Track 5 : Wooper_57, Yeshua_57
- Track 6 : BobRoss2024_56
- Track 7 : MossRose_56, MakoManhole_54
- Track 8 : AnClar_67
- Track 9 : CaiB_57
- Track 10 : TraderJ_57
- Track 11 : AksarBAT_56
- Track 12 : Cafasso_80
- Track 13 : Aleemily_79, ObLaDi_80
- Track 14 : ModicumRichard_80
- Track 15 : Morgana_85

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

The start number called the most often in the published annotations is 17, it was called in 10 of the 21 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AnarQue_57, Blackpen_56, Cafasso_80, CaiB_57, CloverMinnie_56, FelixTres_56, MakoManhole_54, ModicumRichard_80, MossRose_56, TraderJ_57, Wooper_57, Yeshua_57,

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

- Aleemily_79, Morgana_85, ObLaDi_80,

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

- AksarBAT_56, AnClar_67, Axumite_54, BiggityBass_68, BobRoss2024_56, Fresco_54, Ligma_54, Shatter_54, Sisko_68, Yago84_68,

Summary by start number:

Start 13:

- Found in 4 of 25 (16.0%) of genes in pham
- Manual Annotations of this start: 4 of 21
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AnClar_67 (DR), BiggityBass_68 (DR), Sisko_68 (DR), Yago84_68 (DR),

Start 15:

- Found in 5 of 25 (20.0%) of genes in pham
- Manual Annotations of this start: 3 of 21
- Called 60.0% of time when present
- Phage (with cluster) where this start called: Aleemily_79 (DZ), Morgana_85 (DZ), ObLaDi_80 (DZ),

Start 17:

- Found in 15 of 25 (60.0%) of genes in pham
- Manual Annotations of this start: 10 of 21
- Called 80.0% of time when present
- Phage (with cluster) where this start called: AnarQue_57 (DR), Blackpen_56 (DR), Cafasso_80 (DZ), CaiB_57 (DR), CloverMinnie_56 (DR), FelixTres_56 (DR), MakoManhole_54 (DR), ModicumRichard_80 (DZ), MossRose_56 (DR), TraderJ_57 (DR), Wooper_57 (DR), Yeshua_57 (DR),

Start 18:

- Found in 1 of 25 (4.0%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AksarBAT_56 (DR),

Start 19:

- Found in 1 of 25 (4.0%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BobRoss2024_56 (DR),

Start 20:

- Found in 4 of 25 (16.0%) of genes in pham
- Manual Annotations of this start: 4 of 21
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Axumite_54 (DR), Fresco_54 (DR), Ligma_54 (DR), Shatter_54 (DR),

Summary by clusters:

There are 2 clusters represented in this pham: DZ, DR,

Info for manual annotations of cluster DR:

- Start number 13 was manually annotated 4 times for cluster DR.
- Start number 17 was manually annotated 8 times for cluster DR.
- Start number 20 was manually annotated 4 times for cluster DR.

Info for manual annotations of cluster DZ:

- Start number 15 was manually annotated 3 times for cluster DZ.
- Start number 17 was manually annotated 2 times for cluster DZ.

Gene Information:

Gene: AksarBAT_56 Start: 48454, Stop: 48128, Start Num: 18

Candidate Starts for AksarBAT_56:

(12, 48484), (14, 48472), (18, 48454), (32, 48310), (35, 48292), (36, 48262), (37, 48241), (38, 48232), (40, 48226), (42, 48187),

Gene: Aleemily_79 Start: 49912, Stop: 50247, Start Num: 15

Candidate Starts for Aleemily_79:

(Start: 15 @49912 has 3 MA's), (Start: 17 @49927 has 10 MA's), (28, 50059), (30, 50065), (37, 50152), (41, 50185), (44, 50215),

Gene: AnClar_67 Start: 55575, Stop: 55249, Start Num: 13

Candidate Starts for AnClar_67:

(6, 55746), (7, 55740), (Start: 13 @55575 has 4 MA's), (21, 55512), (31, 55419), (34, 55389), (40, 55323), (43, 55278),

Gene: AnarQue_57 Start: 49295, Stop: 48963, Start Num: 17

Candidate Starts for AnarQue_57:

(9, 49427), (Start: 17 @49295 has 10 MA's), (23, 49193), (24, 49184), (28, 49166), (30, 49160), (33, 49133), (36, 49094), (37, 49073), (42, 49019),

Gene: Axumite_54 Start: 47034, Stop: 46714, Start Num: 20

Candidate Starts for Axumite_54:

(1, 47544), (2, 47532), (11, 47133), (Start: 20 @47034 has 4 MA's), (25, 46944), (26, 46935), (39, 46821), (42, 46776),

Gene: BiggityBass_68 Start: 55554, Stop: 55234, Start Num: 13

Candidate Starts for BiggityBass_68:

(Start: 13 @55554 has 4 MA's), (31, 55404), (34, 55374), (40, 55308), (43, 55263),

Gene: Blackpen_56 Start: 48373, Stop: 48041, Start Num: 17

Candidate Starts for Blackpen_56:

(9, 48505), (Start: 17 @48373 has 10 MA's), (23, 48271), (24, 48262), (28, 48244), (30, 48238), (33, 48211), (36, 48172), (37, 48151), (42, 48097),

Gene: BobRoss2024_56 Start: 47853, Stop: 47530, Start Num: 19

Candidate Starts for BobRoss2024_56:

(3, 48261), (5, 48075), (10, 47943), (16, 47862), (19, 47853), (23, 47754), (24, 47745), (27, 47733), (32, 47703), (33, 47694), (35, 47685),

Gene: Cafasso_80 Start: 50031, Stop: 50351, Start Num: 17

Candidate Starts for Cafasso_80:

(Start: 15 @50016 has 3 MA's), (Start: 17 @50031 has 10 MA's), (28, 50163), (30, 50169), (37, 50256), (41, 50289), (44, 50319),

Gene: CaiB_57 Start: 49849, Stop: 49514, Start Num: 17

Candidate Starts for CaiB_57:

(9, 49981), (Start: 17 @49849 has 10 MA's), (23, 49747), (24, 49738), (28, 49720), (30, 49714), (33, 49687), (36, 49648), (37, 49627), (40, 49612), (42, 49570),

Gene: CloverMinnie_56 Start: 48881, Stop: 48549, Start Num: 17

Candidate Starts for CloverMinnie_56:

(9, 49013), (Start: 17 @48881 has 10 MA's), (23, 48779), (24, 48770), (28, 48752), (30, 48746), (33, 48719), (36, 48680), (37, 48659), (42, 48605),

Gene: FelixTres_56 Start: 48916, Stop: 48584, Start Num: 17

Candidate Starts for FelixTres_56:

(9, 49048), (Start: 17 @48916 has 10 MA's), (23, 48814), (24, 48805), (28, 48787), (30, 48781), (33, 48754), (36, 48715), (37, 48694), (42, 48640),

Gene: Fresco_54 Start: 47034, Stop: 46714, Start Num: 20

Candidate Starts for Fresco_54:

(1, 47544), (2, 47532), (11, 47133), (Start: 20 @47034 has 4 MA's), (25, 46944), (26, 46935), (39, 46821), (42, 46776),

Gene: Ligma_54 Start: 47034, Stop: 46714, Start Num: 20

Candidate Starts for Ligma_54:

(1, 47544), (2, 47532), (11, 47133), (Start: 20 @47034 has 4 MA's), (25, 46944), (26, 46935), (39, 46821), (42, 46776),

Gene: MakoManhole_54 Start: 48373, Stop: 48041, Start Num: 17

Candidate Starts for MakoManhole_54:

(Start: 17 @48373 has 10 MA's), (23, 48271), (24, 48262), (28, 48244), (30, 48238), (33, 48211), (36, 48172), (37, 48151), (42, 48097),

Gene: ModicumRichard_80 Start: 50165, Stop: 50467, Start Num: 17

Candidate Starts for ModicumRichard_80:

(Start: 15 @50150 has 3 MA's), (Start: 17 @50165 has 10 MA's), (22, 50219), (35, 50321), (37, 50372), (41, 50405), (44, 50435),

Gene: Morgana_85 Start: 51884, Stop: 52219, Start Num: 15

Candidate Starts for Morgana_85:

(Start: 15 @51884 has 3 MA's), (Start: 17 @51899 has 10 MA's), (28, 52031), (30, 52037), (37, 52124), (41, 52157), (44, 52187),

Gene: MossRose_56 Start: 48926, Stop: 48594, Start Num: 17

Candidate Starts for MossRose_56:

(Start: 17 @48926 has 10 MA's), (23, 48824), (24, 48815), (28, 48797), (30, 48791), (33, 48764), (36, 48725), (37, 48704), (42, 48650),

Gene: ObLaDi_80 Start: 50158, Stop: 50493, Start Num: 15

Candidate Starts for ObLaDi_80:

(Start: 15 @50158 has 3 MA's), (Start: 17 @50173 has 10 MA's), (28, 50305), (30, 50311), (37, 50398), (41, 50431), (44, 50461),

Gene: Shatter_54 Start: 47034, Stop: 46714, Start Num: 20

Candidate Starts for Shatter_54:

(1, 47544), (2, 47532), (11, 47133), (Start: 20 @47034 has 4 MA's), (25, 46944), (26, 46935), (39, 46821), (42, 46776),

Gene: Sisko_68 Start: 54288, Stop: 53968, Start Num: 13

Candidate Starts for Sisko_68:

(Start: 13 @54288 has 4 MA's), (31, 54138), (34, 54108), (40, 54042), (43, 53997),

Gene: TraderJ_57 Start: 49258, Stop: 48926, Start Num: 17

Candidate Starts for TraderJ_57:

(8, 49408), (9, 49390), (Start: 17 @49258 has 10 MA's), (23, 49156), (24, 49147), (28, 49129), (29, 49126), (30, 49123), (33, 49096), (36, 49057), (37, 49036), (42, 48982),

Gene: Wooper_57 Start: 49267, Stop: 48935, Start Num: 17

Candidate Starts for Wooper_57:

(9, 49399), (Start: 17 @49267 has 10 MA's), (23, 49165), (24, 49156), (28, 49138), (29, 49135), (30, 49132), (33, 49105), (36, 49066), (37, 49045), (42, 48991),

Gene: Yago84_68 Start: 53867, Stop: 53547, Start Num: 13

Candidate Starts for Yago84_68:

(4, 54083), (Start: 13 @53867 has 4 MA's), (31, 53717), (34, 53687), (40, 53621), (43, 53576),

Gene: Yeshua_57 Start: 49244, Stop: 48912, Start Num: 17

Candidate Starts for Yeshua_57:

(9, 49376), (Start: 17 @49244 has 10 MA's), (23, 49142), (24, 49133), (28, 49115), (29, 49112), (30, 49109), (33, 49082), (36, 49043), (37, 49022), (42, 48968),