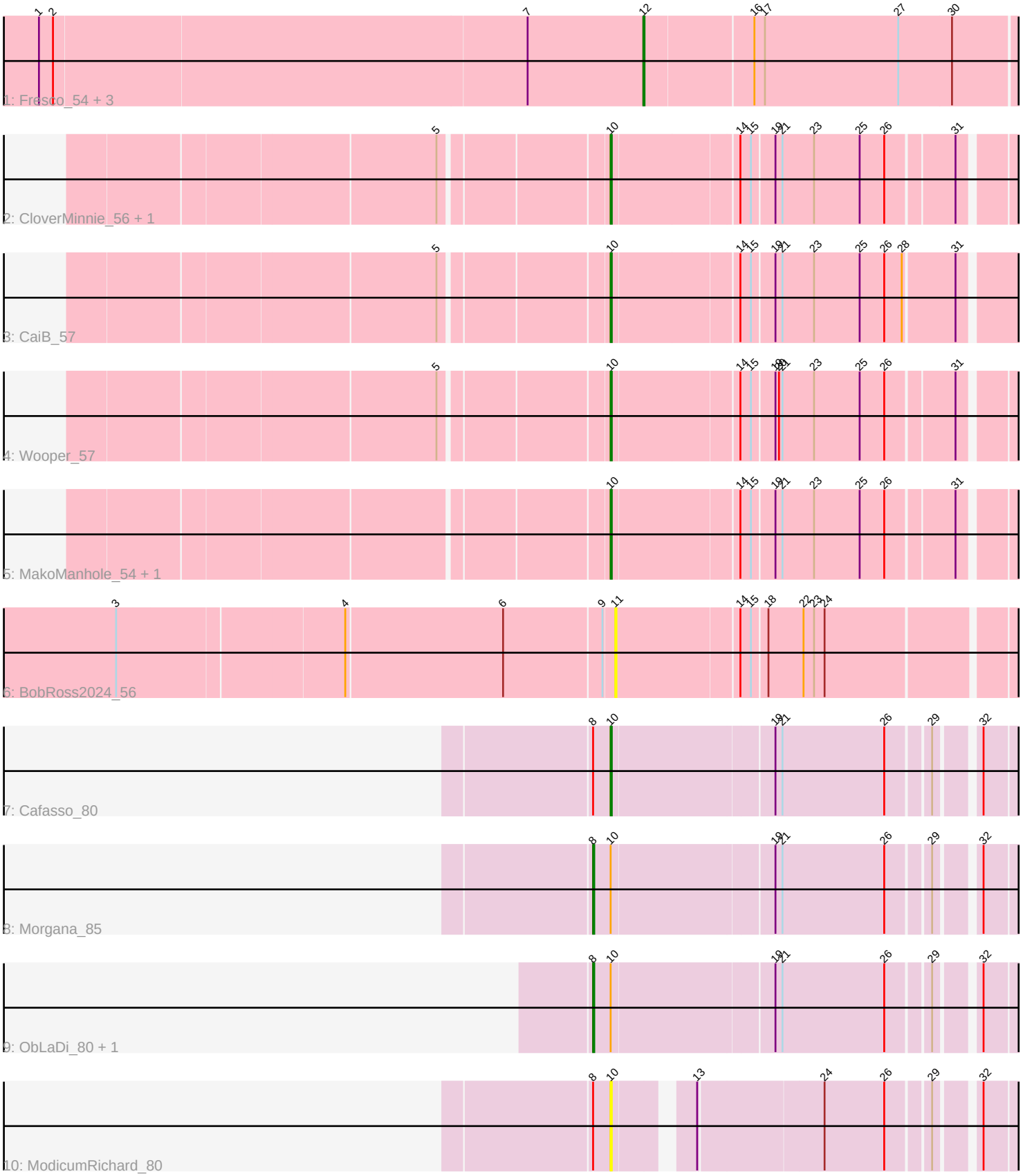
Pham 173286


1: Fresco_54 + 3
2: CloverMinnie_56 + 1
3: CaiB_57
4: Wooper_57
5: MakoManhole_54 + 1
6: BobRoss2024_56
7: Cafasso_80
8: Morgana_85
9: ObLaDi_80 + 1
10: ModicumRichard_80

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 173286 Report

This analysis was run 11/02/24 on database version 579.

Pham number 173286 has 16 members, 2 are drafts.

Phages represented in each track:
• Track 1 : Fresco_54, Shatter_54, Ligma_54, Axumite_54
• Track 2 : CloverMinnie_56, AnarQue_57
• Track 3 : CaiB_57
• Track 4 : Wooper_57
• Track 5 : MakoManhole_54, MossRose_56
• Track 6 : BobRoss2024_56
• Track 7 : Cafasso_80
• Track 8 : Morgana_85
• Track 9 : ObLaDi_80, Aleemily_79
• Track 10 : ModicumRichard_80

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

The start number called the most often in the published annotations is 10, it was called in 7 of the 14 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• AnarQue_57, Cafasso_80, CaiB_57, CloverMinnie_56, MakoManhole_54, ModicumRichard_80, MossRose_56, Wooper_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:
• Axumite_54, BobRoss2024_56, Fresco_54, Ligma_54, Shatter_54,

Summary by start number:

Start 8:
• Found in 5 of 16 (31.2%) of genes in pham
• Manual Annotations of this start: 3 of 14
• Called 60.0% of time when present
• Phage (with cluster) where this start called: Aleemily_79 (DZ), Morgana_85 (DZ), ObLaDi_80 (DZ),

Start 10:
• Found in 11 of 16 (68.8%) of genes in pham
• Manual Annotations of this start: 7 of 14
• Called 72.7% of time when present
• Phage (with cluster) where this start called: AnarQue_57 (DR), Cafasso_80 (DZ), CaiB_57 (DR), CloverMinnie_56 (DR), MakoManhole_54 (DR), ModicumRichard_80 (DZ), MossRose_56 (DR), Wooper_57 (DR),

Start 11:
• Found in 1 of 16 (6.2%) 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 12:
• Found in 4 of 16 (25.0%) of genes in pham
• Manual Annotations of this start: 4 of 14
• 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 10 was manually annotated 6 times for cluster DR.
•Start number 12 was manually annotated 4 times for cluster DR.

Info for manual annotations of cluster DZ:
•Start number 8 was manually annotated 3 times for cluster DZ.
•Start number 10 was manually annotated 1 time for cluster DZ.

Gene Information:

Gene: Aleemily_79 Start: 49912, Stop: 50247, Start Num: 8
Candidate Starts for Aleemily_79:
(Start: 8 @49912 has 3 MA's), (Start: 10 @49927 has 7 MA's), (19, 50059), (21, 50065), (26, 50152), (29, 50185), (32, 50215),

Gene: AnarQue_57 Start: 49295, Stop: 48963, Start Num: 10
Candidate Starts for AnarQue_57:
(5, 49427), (Start: 10 @49295 has 7 MA's), (14, 49193), (15, 49184), (19, 49166), (21, 49160), (23, 49133), (25, 49094), (26, 49073), (31, 49019),

Gene: Axumite_54 Start: 47034, Stop: 46714, Start Num: 12
Candidate Starts for Axumite_54:
(1, 47544), (2, 47532), (7, 47133), (Start: 12 @47034 has 4 MA's), (16, 46944), (17, 46935), (27, 46821), (30, 46776),

Gene: BobRoss2024_56 Start: 47853, Stop: 47530, Start Num: 11
Candidate Starts for BobRoss2024_56:
(3, 48261), (4, 48075), (6, 47943), (9, 47862), (11, 47853), (14, 47754), (15, 47745), (18, 47733), (22, 47703), (23, 47694), (24, 47685),

Gene: Cafasso_80 Start: 50031, Stop: 50351, Start Num: 10
Candidate Starts for Cafasso_80:
(Start: 8 @50016 has 3 MA's), (Start: 10 @50031 has 7 MA's), (19, 50163), (21, 50169), (26, 50256), (29, 50289), (32, 50319),

Gene: CaiB_57 Start: 49849, Stop: 49514, Start Num: 10
Candidate Starts for CaiB_57:
(5, 49981), (Start: 10 @49849 has 7 MA's), (14, 49747), (15, 49738), (19, 49720), (21, 49714), (23, 49687), (25, 49648), (26, 49627), (28, 49612), (31, 49570),

Gene: CloverMinnie_56 Start: 48881, Stop: 48549, Start Num: 10
Candidate Starts for CloverMinnie_56:
(5, 49013), (Start: 10 @48881 has 7 MA's), (14, 48779), (15, 48770), (19, 48752), (21, 48746), (23, 48719), (25, 48680), (26, 48659), (31, 48605),

Gene: Fresco_54 Start: 47034, Stop: 46714, Start Num: 12
Candidate Starts for Fresco_54:
(1, 47544), (2, 47532), (7, 47133), (Start: 12 @47034 has 4 MA's), (16, 46944), (17, 46935), (27, 46821), (30, 46776),

Gene: Ligma_54 Start: 47034, Stop: 46714, Start Num: 12
Candidate Starts for Ligma_54:
(1, 47544), (2, 47532), (7, 47133), (Start: 12 @47034 has 4 MA's), (16, 46944), (17, 46935), (27, 46821), (30, 46776),

Gene: MakoManhole_54 Start: 48373, Stop: 48041, Start Num: 10
Candidate Starts for MakoManhole_54:
(Start: 10 @48373 has 7 MA's), (14, 48271), (15, 48262), (19, 48244), (21, 48238), (23, 48211), (25, 48172), (26, 48151), (31, 48097),

Gene: ModicumRichard_80 Start: 50165, Stop: 50467, Start Num: 10
Candidate Starts for ModicumRichard_80:
(Start: 8 @50150 has 3 MA's), (Start: 10 @50165 has 7 MA's), (13, 50219), (24, 50321), (26, 50372), (29, 50405), (32, 50435),

Gene: Morgana_85 Start: 51884, Stop: 52219, Start Num: 8
Candidate Starts for Morgana_85:
(Start: 8 @51884 has 3 MA's), (Start: 10 @51899 has 7 MA's), (19, 52031), (21, 52037), (26, 52124), (29, 52157), (32, 52187),

Gene: MossRose_56 Start: 48926, Stop: 48594, Start Num: 10
Candidate Starts for MossRose_56:
(Start: 10 @48926 has 7 MA's), (14, 48824), (15, 48815), (19, 48797), (21, 48791), (23, 48764), (25, 48725), (26, 48704), (31, 48650),

Gene: ObLaDi_80 Start: 50158, Stop: 50493, Start Num: 8
Candidate Starts for ObLaDi_80:

(Start: 8 @50158 has 3 MA's), (Start: 10 @50173 has 7 MA's), (19, 50305), (21, 50311), (26, 50398), (29, 50431), (32, 50461),

Gene: Shatter_54 Start: 47034, Stop: 46714, Start Num: 12
Candidate Starts for Shatter_54:
(1, 47544), (2, 47532), (7, 47133), (Start: 12 @47034 has 4 MA's), (16, 46944), (17, 46935), (27, 46821), (30, 46776),

Gene: Wooper_57 Start: 49267, Stop: 48935, Start Num: 10
Candidate Starts for Wooper_57:
(5, 49399), (Start: 10 @49267 has 7 MA's), (14, 49165), (15, 49156), (19, 49138), (20, 49135), (21, 49132), (23, 49105), (25, 49066), (26, 49045), (31, 48991),