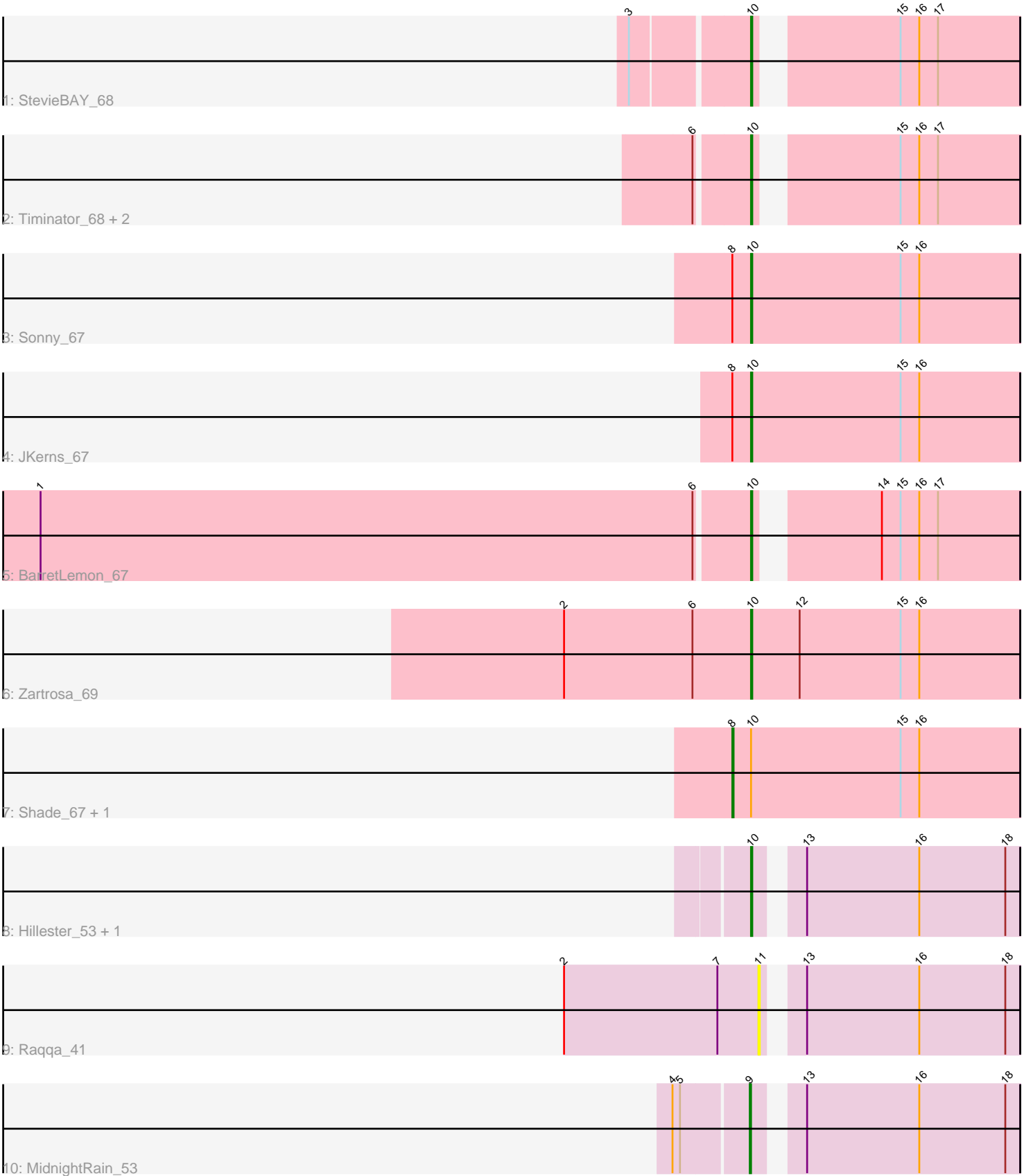Pham 87293

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 87293 Report

This analysis was run 04/28/24 on database version 559.

Pham number 87293 has 14 members, 3 are drafts.

Phages represented in each track:
• Track 1 : StevieBAY_68
• Track 2 : Timinator_68, LeeroyJ_68, GravityBall_67
• Track 3 : Sonny_67
• Track 4 : JKerns_67
• Track 5 : BarretLemon_67
• Track 6 : Zartrosa_69
• Track 7 : Shade_67, Jordan_68
• Track 8 : Hillester_53, RadFad_53
• Track 9 : Raqqa_41
• Track 10 : MidnightRain_53

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 8 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• BarretLemon_67, GravityBall_67, Hillester_53, JKerns_67, LeeroyJ_68, RadFad_53, Sonny_67, StevieBAY_68, Timinator_68, Zartrosa_69,

Genes that have the "Most Annotated" start but do not call it:
• Jordan_68, Shade_67,

Genes that do not have the "Most Annotated" start:
• MidnightRain_53, Raqqa_41,

Summary by start number:

Start 8:
• Found in 4 of 14 (28.6%) of genes in pham
• Manual Annotations of this start: 2 of 11
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Jordan_68 (AO2), Shade_67 (AO2),

Start 9:
• Found in 1 of 14 (7.1%) of genes in pham
• Manual Annotations of this start: 1 of 11
• Called 100.0% of time when present
• Phage (with cluster) where this start called: MidnightRain_53 (AY),

Start 10:
• Found in 12 of 14 (85.7%) of genes in pham
• Manual Annotations of this start: 8 of 11
• Called 83.3% of time when present
• Phage (with cluster) where this start called: BarretLemon_67 (AO2), GravityBall_67 (AO2), Hillester_53 (AY), JKerns_67 (AO2), LeeroyJ_68 (AO2), RadFad_53 (AY), Sonny_67 (AO2), StevieBAY_68 (AO2), Timinator_68 (AO2), Zartrosa_69 (AO2),

Start 11:
• Found in 1 of 14 (7.1%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Raqqa_41 (AY),

Summary by clusters:

There are 2 clusters represented in this pham: AY, AO2,

Info for manual annotations of cluster AO2:
•Start number 8 was manually annotated 2 times for cluster AO2.
•Start number 10 was manually annotated 7 times for cluster AO2.

Info for manual annotations of cluster AY:
•Start number 9 was manually annotated 1 time for cluster AY.
•Start number 10 was manually annotated 1 time for cluster AY.

Gene Information:

Gene: BarretLemon_67 Start: 43635, Stop: 43826, Start Num: 10
Candidate Starts for BarretLemon_67:
(1, 43074), (6, 43596), (Start: 10 @43635 has 8 MA's), (14, 43716), (15, 43731), (16, 43746), (17, 43761),

Gene: GravityBall_67 Start: 43935, Stop: 44126, Start Num: 10
Candidate Starts for GravityBall_67:
(6, 43896), (Start: 10 @43935 has 8 MA's), (15, 44031), (16, 44046), (17, 44061),

Gene: Hillester_53 Start: 31772, Stop: 31969, Start Num: 10
Candidate Starts for Hillester_53:
(Start: 10 @31772 has 8 MA's), (13, 31799), (16, 31889), (18, 31958),

Gene: JKerns_67 Start: 44127, Stop: 44342, Start Num: 10
Candidate Starts for JKerns_67:
(Start: 8 @44112 has 2 MA's), (Start: 10 @44127 has 8 MA's), (15, 44247), (16, 44262),

Gene: Jordan_68 Start: 44237, Stop: 44467, Start Num: 8
Candidate Starts for Jordan_68:
(Start: 8 @44237 has 2 MA's), (Start: 10 @44252 has 8 MA's), (15, 44372), (16, 44387),

Gene: LeeroyJ_68 Start: 43864, Stop: 44055, Start Num: 10
Candidate Starts for LeeroyJ_68:
(6, 43825), (Start: 10 @43864 has 8 MA's), (15, 43960), (16, 43975), (17, 43990),

Gene: MidnightRain_53 Start: 31954, Stop: 32151, Start Num: 9
Candidate Starts for MidnightRain_53:
(4, 31897), (5, 31903), (Start: 9 @31954 has 1 MA's), (13, 31981), (16, 32071), (18, 32140),

Gene: RadFad_53 Start: 31772, Stop: 31969, Start Num: 10
Candidate Starts for RadFad_53:
(Start: 10 @31772 has 8 MA's), (13, 31799), (16, 31889), (18, 31958),

Gene: Raqqa_41 Start: 27644, Stop: 27835, Start Num: 11
Candidate Starts for Raqqa_41:
(2, 27488), (7, 27611), (11, 27644), (13, 27665), (16, 27755), (18, 27824),

Gene: Shade_67 Start: 43875, Stop: 44105, Start Num: 8
Candidate Starts for Shade_67:
(Start: 8 @43875 has 2 MA's), (Start: 10 @43890 has 8 MA's), (15, 44010), (16, 44025),

Gene: Sonny_67 Start: 43813, Stop: 44028, Start Num: 10
Candidate Starts for Sonny_67:
(Start: 8 @43798 has 2 MA's), (Start: 10 @43813 has 8 MA's), (15, 43933), (16, 43948),

Gene: StevieBAY_68 Start: 44157, Stop: 44348, Start Num: 10
Candidate Starts for StevieBAY_68:
(3, 44070), (Start: 10 @44157 has 8 MA's), (15, 44253), (16, 44268), (17, 44283),

Gene: Timinator_68 Start: 43977, Stop: 44168, Start Num: 10
Candidate Starts for Timinator_68:
(6, 43938), (Start: 10 @43977 has 8 MA's), (15, 44073), (16, 44088), (17, 44103),

Gene: Zartrosa_69 Start: 44139, Stop: 44354, Start Num: 10
Candidate Starts for Zartrosa_69:
(2, 43992), (6, 44094), (Start: 10 @44139 has 8 MA's), (12, 44178), (15, 44259), (16, 44274),