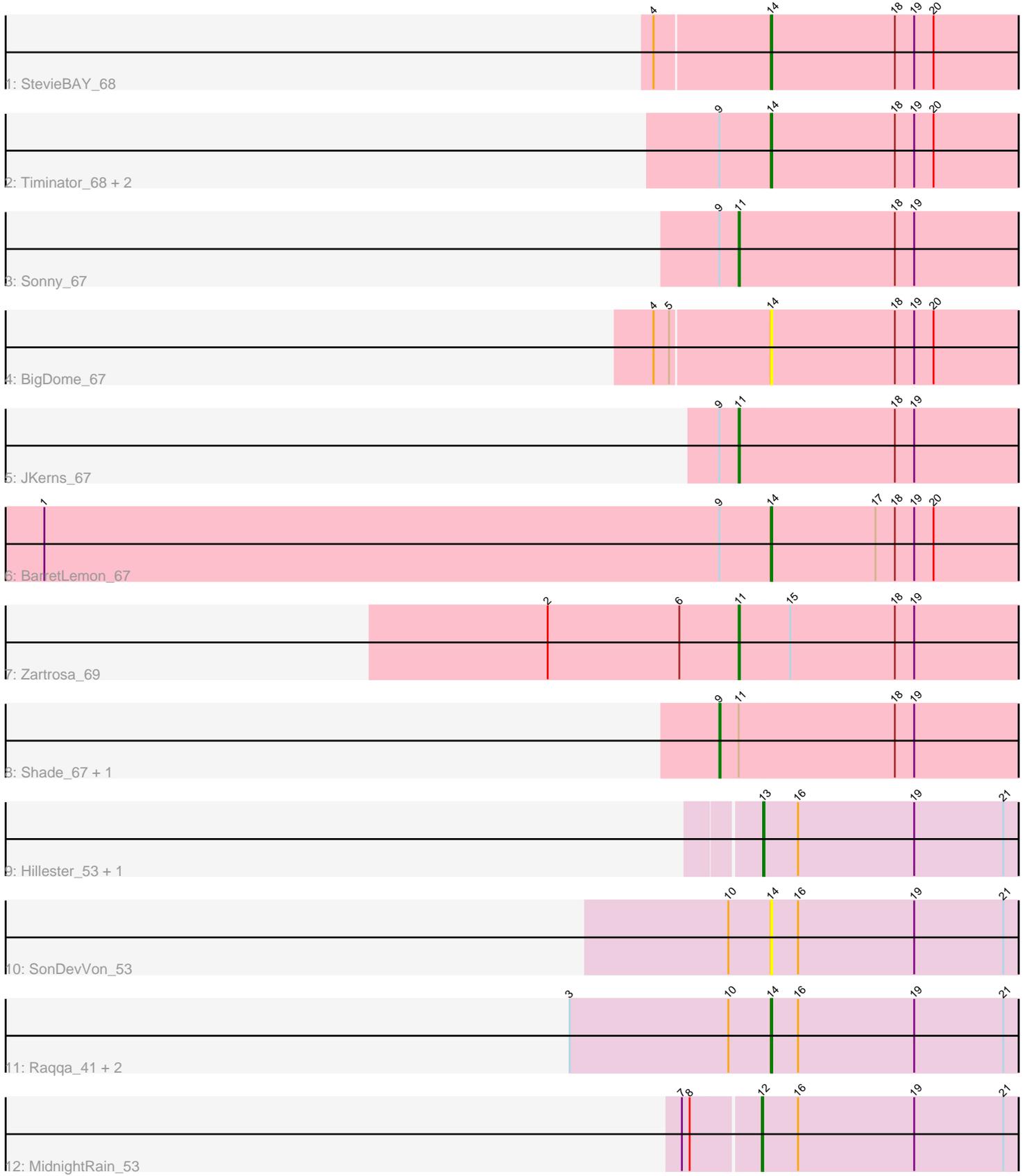# Pham 282520

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 282520 Report

This analysis was run 02/23/26 on database version 636.

Pham number 282520 has 18 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 : BigDome_67
• Track 5 : JKerns_67
• Track 6 : BarretLemon_67
• Track 7 : Zartrosa_69
• Track 8 : Shade_67, Jordan_68
• Track 9 : Hillester_53, RadFad_53
• Track 10 : SonDevVon_53
• Track 11 : Raqqa_41, MUWow_49, Windest_51
• Track 12 : 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 14, it was called in 7 of the 15 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• BarretLemon_67, BigDome_67, GravityBall_67, LeeroyJ_68, MUWow_49, Raqqa_41, SonDevVon_53, StevieBAY_68, Timinator_68, Windest_51,

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

Genes that do not have the "Most Annotated" start:
• Hillester_53, JKerns_67, Jordan_68, MidnightRain_53, RadFad_53, Shade_67, Sonny_67, Zartrosa_69,

Summary by start number:

Start 9:
• Found in 8 of 18 (44.4%) of genes in pham
• Manual Annotations of this start: 2 of 15

• Called 25.0% of time when present
• Phage (with cluster) where this start called: Jordan_68 (AO2), Shade_67 (AO2),

Start 11:
• Found in 5 of 18 (27.8%) of genes in pham
• Manual Annotations of this start: 3 of 15
• Called 60.0% of time when present
• Phage (with cluster) where this start called: JKerns_67 (AO2), Sonny_67 (AO2), Zartrosa_69 (AO2),

Start 12:
• Found in 1 of 18 (5.6%) of genes in pham
• Manual Annotations of this start: 1 of 15
• Called 100.0% of time when present
• Phage (with cluster) where this start called: MidnightRain_53 (AY),

Start 13:
• Found in 2 of 18 (11.1%) of genes in pham
• Manual Annotations of this start: 2 of 15
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Hillester_53 (AY), RadFad_53 (AY),

Start 14:
• Found in 10 of 18 (55.6%) of genes in pham
• Manual Annotations of this start: 7 of 15
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BarretLemon_67 (AO2), BigDome_67 (AO2), GravityBall_67 (AO2), LeeroyJ_68 (AO2), MUWow_49 (AY), Raqqa_41 (AY), SonDevVon_53 (AY), StevieBAY_68 (AO2), Timinator_68 (AO2), Windest_51 (AY),

Summary by clusters:

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

Info for manual annotations of cluster AO2:
•Start number 9 was manually annotated 2 times for cluster AO2.
•Start number 11 was manually annotated 3 times for cluster AO2.
•Start number 14 was manually annotated 5 times for cluster AO2.

Info for manual annotations of cluster AY:
•Start number 12 was manually annotated 1 time for cluster AY.
•Start number 13 was manually annotated 2 times for cluster AY.
•Start number 14 was manually annotated 2 times for cluster AY.

Gene Information:

Gene: BarretLemon_67 Start: 43635, Stop: 43826, Start Num: 14
Candidate Starts for BarretLemon_67:
(1, 43074), (Start: 9 @43596 has 2 MA's), (Start: 14 @43635 has 7 MA's), (17, 43716), (18, 43731), (19, 43746), (20, 43761),

Gene: BigDome_67 Start: 43919, Stop: 44110, Start Num: 14
Candidate Starts for BigDome_67:
(4, 43832), (5, 43844), (Start: 14 @43919 has 7 MA's), (18, 44015), (19, 44030), (20, 44045),

Gene: GravityBall_67 Start: 43935, Stop: 44126, Start Num: 14
Candidate Starts for GravityBall_67:
(Start: 9 @43896 has 2 MA's), (Start: 14 @43935 has 7 MA's), (18, 44031), (19, 44046), (20, 44061),

Gene: Hillester_53 Start: 31772, Stop: 31969, Start Num: 13
Candidate Starts for Hillester_53:
(Start: 13 @31772 has 2 MA's), (16, 31799), (19, 31889), (21, 31958),

Gene: JKerns_67 Start: 44127, Stop: 44342, Start Num: 11
Candidate Starts for JKerns_67:
(Start: 9 @44112 has 2 MA's), (Start: 11 @44127 has 3 MA's), (18, 44247), (19, 44262),

Gene: Jordan_68 Start: 44237, Stop: 44467, Start Num: 9
Candidate Starts for Jordan_68:
(Start: 9 @44237 has 2 MA's), (Start: 11 @44252 has 3 MA's), (18, 44372), (19, 44387),

Gene: LeeroyJ_68 Start: 43864, Stop: 44055, Start Num: 14
Candidate Starts for LeeroyJ_68:
(Start: 9 @43825 has 2 MA's), (Start: 14 @43864 has 7 MA's), (18, 43960), (19, 43975), (20, 43990),

Gene: MUWow_49 Start: 30780, Stop: 30971, Start Num: 14
Candidate Starts for MUWow_49:
(3, 30624), (10, 30747), (Start: 14 @30780 has 7 MA's), (16, 30801), (19, 30891), (21, 30960),

Gene: MidnightRain_53 Start: 31954, Stop: 32151, Start Num: 12
Candidate Starts for MidnightRain_53:
(7, 31897), (8, 31903), (Start: 12 @31954 has 1 MA's), (16, 31981), (19, 32071), (21, 32140),

Gene: RadFad_53 Start: 31772, Stop: 31969, Start Num: 13
Candidate Starts for RadFad_53:
(Start: 13 @31772 has 2 MA's), (16, 31799), (19, 31889), (21, 31958),

Gene: Raqqa_41 Start: 27644, Stop: 27835, Start Num: 14
Candidate Starts for Raqqa_41:
(3, 27488), (10, 27611), (Start: 14 @27644 has 7 MA's), (16, 27665), (19, 27755), (21, 27824),

Gene: Shade_67 Start: 43875, Stop: 44105, Start Num: 9
Candidate Starts for Shade_67:
(Start: 9 @43875 has 2 MA's), (Start: 11 @43890 has 3 MA's), (18, 44010), (19, 44025),

Gene: SonDevVon_53 Start: 31152, Stop: 31343, Start Num: 14
Candidate Starts for SonDevVon_53:
(10, 31119), (Start: 14 @31152 has 7 MA's), (16, 31173), (19, 31263), (21, 31332),

Gene: Sonny_67 Start: 43813, Stop: 44028, Start Num: 11
Candidate Starts for Sonny_67:
(Start: 9 @43798 has 2 MA's), (Start: 11 @43813 has 3 MA's), (18, 43933), (19, 43948),

Gene: StevieBAY_68 Start: 44157, Stop: 44348, Start Num: 14

Candidate Starts for StevieBAY_68:
(4, 44070), (Start: 14 @44157 has 7 MA's), (18, 44253), (19, 44268), (20, 44283),

Gene: Timinator_68 Start: 43977, Stop: 44168, Start Num: 14
Candidate Starts for Timinator_68:
(Start: 9 @43938 has 2 MA's), (Start: 14 @43977 has 7 MA's), (18, 44073), (19, 44088), (20, 44103),

Gene: Windest_51 Start: 29708, Stop: 29899, Start Num: 14
Candidate Starts for Windest_51:
(3, 29552), (10, 29675), (Start: 14 @29708 has 7 MA's), (16, 29729), (19, 29819), (21, 29888),

Gene: Zartrosa_69 Start: 44139, Stop: 44354, Start Num: 11
Candidate Starts for Zartrosa_69:
(2, 43992), (6, 44094), (Start: 11 @44139 has 3 MA's), (15, 44178), (18, 44259), (19, 44274),