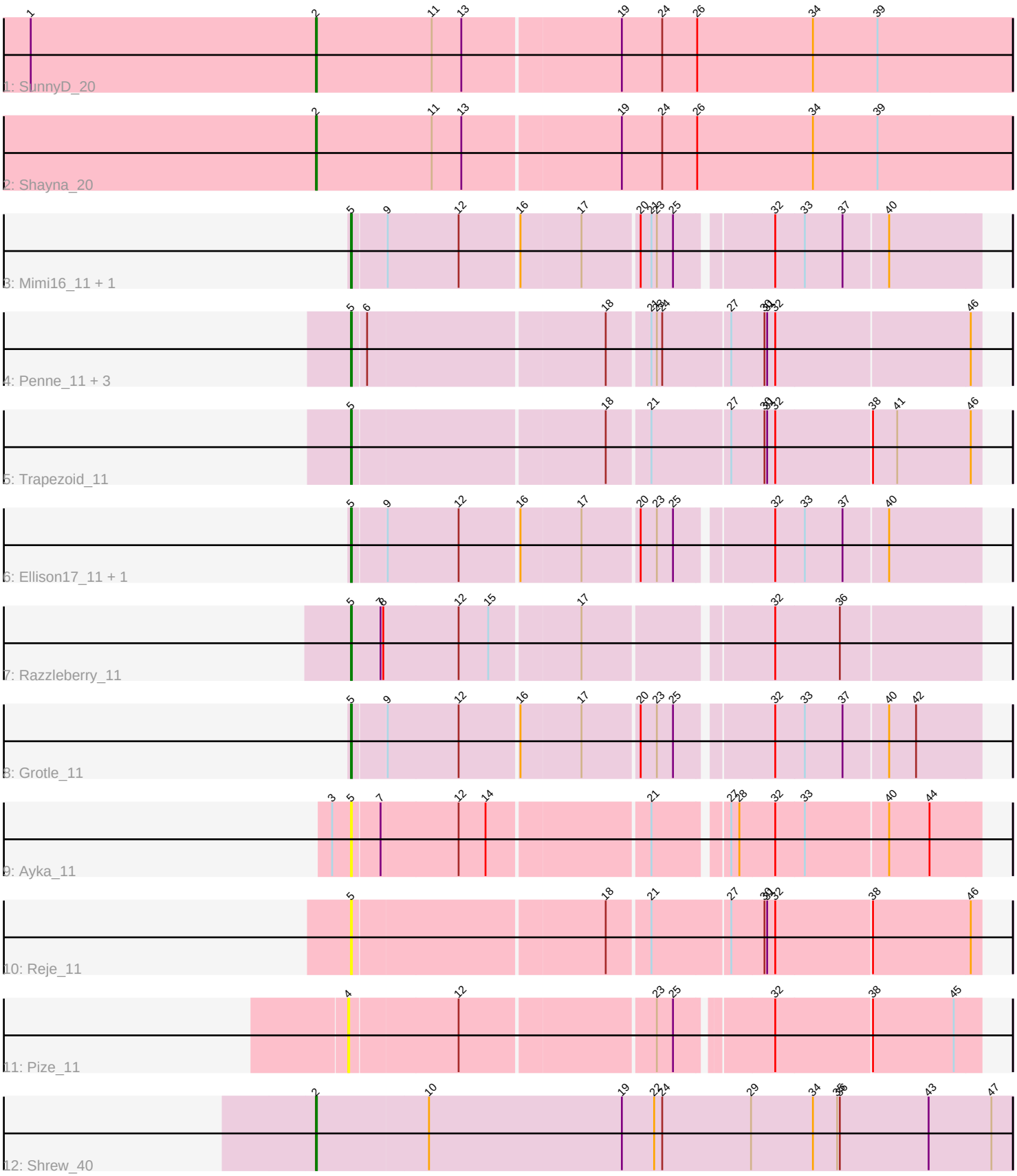
Pham 340101


1: SunnyD_20
2: Shayna_20
3: Mimi16_11 + 1
4: Penne_11 + 3
5: Trapezoid_11
6: Ellison17_11 + 1
7: Razzleberry_11
8: Grotle_11
9: Ayka_11
10: Reje_11
11: Pize_11
12: Shrew_40

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 340101 Report

This analysis was run 11/14/26 on database version 672.

Pham number 340101 has 17 members, 3 are drafts.

Phages represented in each track:
• Track 1 : SunnyD_20
• Track 2 : Shayna_20
• Track 3 : Mimi16_11, Prophecy_11
• Track 4 : Penne_11, Squall_11, Fairywren_11, Brave_11
• Track 5 : Trapezoid_11
• Track 6 : Ellison17_11, Momos_11
• Track 7 : Razzleberry_11
• Track 8 : Grotle_11
• Track 9 : Ayka_11
• Track 10 : Reje_11
• Track 11 : Pize_11
• Track 12 : Shrew_40

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

The start number called the most often in the published annotations is 5, it was called in 11 of the 14 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Ayka_11, Brave_11, Ellison17_11, Fairywren_11, Grotle_11, Mimi16_11, Momos_11, Penne_11, Prophecy_11, Razzleberry_11, Reje_11, Squall_11, Trapezoid_11,

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

Genes that do not have the "Most Annotated" start:
• Pize_11, Shayna_20, Shrew_40, SunnyD_20,

Summary by start number:

Start 2:
• Found in 3 of 17 (17.6%) of genes in pham
• Manual Annotations of this start: 3 of 14

• Called 100.0% of time when present
• Phage (with cluster) where this start called: Shayna_20 (EB), Shrew_40 (singleton), SunnyD_20 (EB),

Start 4:
• Found in 1 of 17 (5.9%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Pize_11 (UNK),

Start 5:
• Found in 13 of 17 (76.5%) of genes in pham
• Manual Annotations of this start: 11 of 14
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Ayka_11 (UNK), Brave_11 (JB1), Ellison17_11 (JB1), Fairywren_11 (JB1), Grotle_11 (JB1), Mimi16_11 (JB1), Momos_11 (JB1), Penne_11 (JB1), Prophecy_11 (JB1), Razzleberry_11 (JB1), Reje_11 (UNK), Squall_11 (JB1), Trapezoid_11 (JB1),

Summary by clusters:

There are 4 clusters represented in this pham: singleton, UNK, JB1, EB,

Info for manual annotations of cluster EB:
•Start number 2 was manually annotated 2 times for cluster EB.

Info for manual annotations of cluster JB1:
•Start number 5 was manually annotated 11 times for cluster JB1.

Gene Information:

Gene: Ayka_11 Start: 11782, Stop: 12438, Start Num: 5
Candidate Starts for Ayka_11:
(3, 11761), (Start: 5 @11782 has 11 MA's), (7, 11812), (12, 11896), (14, 11926), (21, 12097), (27, 12169), (28, 12178), (32, 12217), (33, 12247), (40, 12337), (44, 12382),

Gene: Brave_11 Start: 11720, Stop: 12388, Start Num: 5
Candidate Starts for Brave_11:
(Start: 5 @11720 has 11 MA's), (6, 11735), (18, 11990), (21, 12035), (23, 12041), (24, 12047), (27, 12119), (30, 12155), (31, 12158), (32, 12167), (46, 12377),

Gene: Ellison17_11 Start: 11602, Stop: 12258, Start Num: 5
Candidate Starts for Ellison17_11:
(Start: 5 @11602 has 11 MA's), (9, 11638), (12, 11716), (16, 11779), (17, 11845), (20, 11905), (23, 11923), (25, 11941), (32, 12037), (33, 12067), (37, 12109), (40, 12157),

Gene: Fairywren_11 Start: 11686, Stop: 12354, Start Num: 5
Candidate Starts for Fairywren_11:
(Start: 5 @11686 has 11 MA's), (6, 11701), (18, 11956), (21, 12001), (23, 12007), (24, 12013), (27, 12085), (30, 12121), (31, 12124), (32, 12133), (46, 12343),

Gene: Grotle_11 Start: 11561, Stop: 12217, Start Num: 5
Candidate Starts for Grotle_11:
(Start: 5 @11561 has 11 MA's), (9, 11597), (12, 11675), (16, 11738), (17, 11804), (20, 11864), (23, 11882), (25, 11900), (32, 11996), (33, 12026), (37, 12068), (40, 12116), (42, 12146),

Gene: Mimi16_11 Start: 11612, Stop: 12268, Start Num: 5
Candidate Starts for Mimi16_11:
(Start: 5 @11612 has 11 MA's), (9, 11648), (12, 11726), (16, 11789), (17, 11855), (20, 11915), (21, 11927), (23, 11933), (25, 11951), (32, 12047), (33, 12077), (37, 12119), (40, 12167),

Gene: Momos_11 Start: 11602, Stop: 12258, Start Num: 5
Candidate Starts for Momos_11:
(Start: 5 @11602 has 11 MA's), (9, 11638), (12, 11716), (16, 11779), (17, 11845), (20, 11905), (23, 11923), (25, 11941), (32, 12037), (33, 12067), (37, 12109), (40, 12157),

Gene: Penne_11 Start: 11723, Stop: 12391, Start Num: 5
Candidate Starts for Penne_11:
(Start: 5 @11723 has 11 MA's), (6, 11738), (18, 11993), (21, 12038), (23, 12044), (24, 12050), (27, 12122), (30, 12158), (31, 12161), (32, 12170), (46, 12380),

Gene: Pize_11 Start: 11801, Stop: 12460, Start Num: 4
Candidate Starts for Pize_11:
(4, 11801), (12, 11918), (23, 12125), (25, 12143), (32, 12239), (38, 12341), (45, 12431),

Gene: Prophecy_11 Start: 11612, Stop: 12268, Start Num: 5
Candidate Starts for Prophecy_11:
(Start: 5 @11612 has 11 MA's), (9, 11648), (12, 11726), (16, 11789), (17, 11855), (20, 11915), (21, 11927), (23, 11933), (25, 11951), (32, 12047), (33, 12077), (37, 12119), (40, 12167),

Gene: Razzleberry_11 Start: 11699, Stop: 12358, Start Num: 5
Candidate Starts for Razzleberry_11:
(Start: 5 @11699 has 11 MA's), (7, 11732), (8, 11735), (12, 11816), (15, 11849), (17, 11945), (32, 12137), (36, 12206),

Gene: Reje_11 Start: 11550, Stop: 12218, Start Num: 5
Candidate Starts for Reje_11:
(Start: 5 @11550 has 11 MA's), (18, 11820), (21, 11865), (27, 11949), (30, 11985), (31, 11988), (32, 11997), (38, 12099), (46, 12207),

Gene: Shayna_20 Start: 17339, Stop: 18106, Start Num: 2
Candidate Starts for Shayna_20:
(Start: 2 @17339 has 3 MA's), (11, 17468), (13, 17501), (19, 17672), (24, 17717), (26, 17756), (34, 17885), (39, 17957),

Gene: Shrew_40 Start: 14974, Stop: 15744, Start Num: 2
Candidate Starts for Shrew_40:
(Start: 2 @14974 has 3 MA's), (10, 15097), (19, 15310), (22, 15346), (24, 15355), (29, 15454), (34, 15523), (35, 15550), (36, 15553), (43, 15652), (47, 15721),

Gene: Squall_11 Start: 11690, Stop: 12358, Start Num: 5
Candidate Starts for Squall_11:

(Start: 5 @11690 has 11 MA's), (6, 11705), (18, 11960), (21, 12005), (23, 12011), (24, 12017), (27, 12089), (30, 12125), (31, 12128), (32, 12137), (46, 12347),

Gene: SunnyD_20 Start: 17339, Stop: 18106, Start Num: 2
Candidate Starts for SunnyD_20:
(1, 17021), (Start: 2 @17339 has 3 MA's), (11, 17468), (13, 17501), (19, 17672), (24, 17717), (26, 17756), (34, 17885), (39, 17957),

Gene: Trapezoid_11 Start: 11583, Stop: 12251, Start Num: 5
Candidate Starts for Trapezoid_11:
(Start: 5 @11583 has 11 MA's), (18, 11853), (21, 11898), (27, 11982), (30, 12018), (31, 12021), (32, 12030), (38, 12132), (41, 12159), (46, 12240),