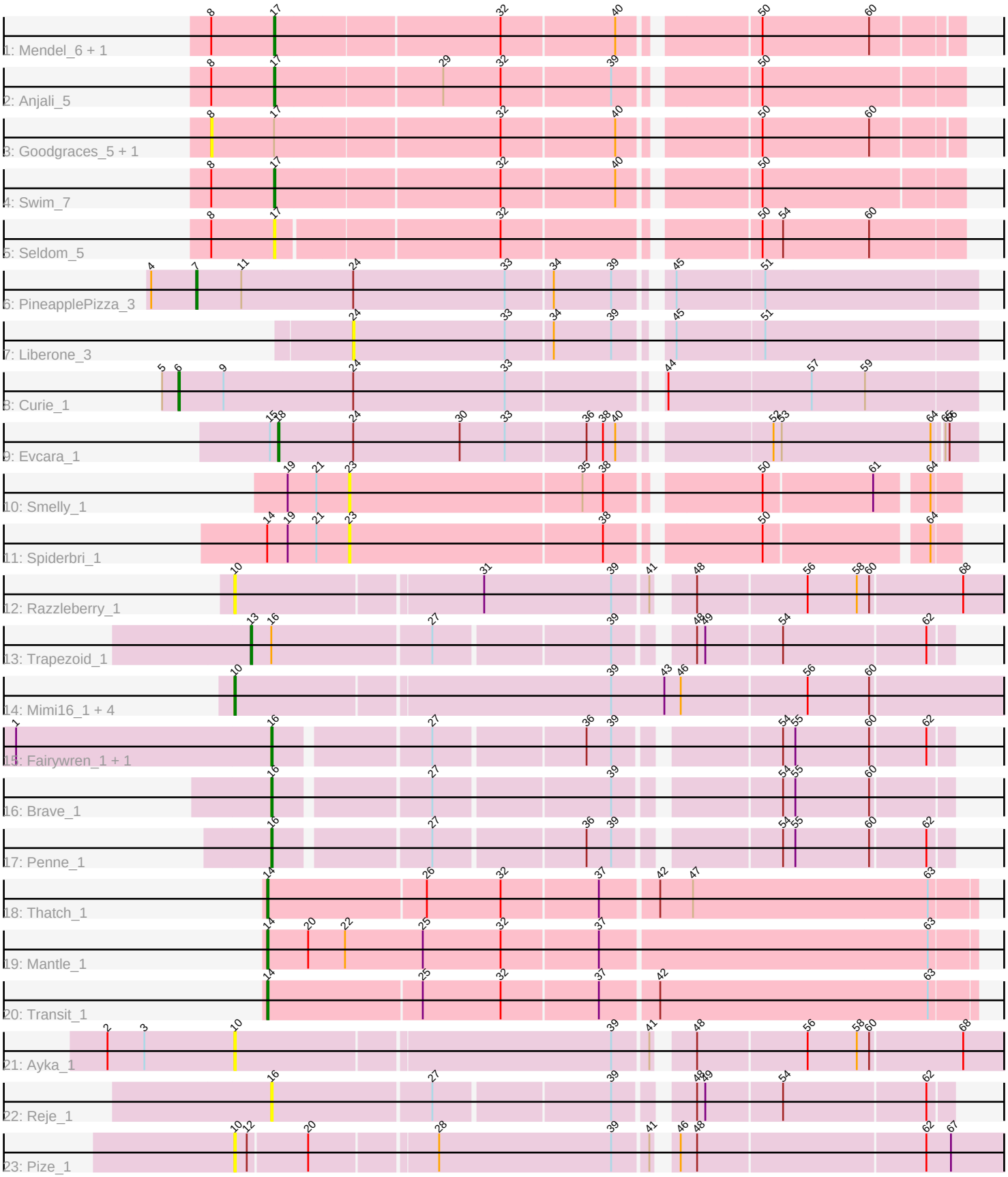
Pham 224795


1: Mendel_6 + 1
2: Anjali_5
3: Goodgraces_5 + 1
4: Swim_7
5: Seldom_5
6: PineapplePizza_3
7: Liberone_3
8: Curie_1
9: Evcara_1
10: Smelly_1
11: Spiderbri_1
12: Razzleberry_1
13: Trapezoid_1
14: Mimi16_1 + 4
15: Fairywren_1 + 1
16: Brave_1
17: Penne_1
18: Thatch_1
19: Mantle_1
20: Transit_1
21: Ayka_1
22: Reje_1
23: Pize_1

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 224795 Report

This analysis was run 03/28/25 on database version 593.

Pham number 224795 has 30 members, 10 are drafts.

Phages represented in each track:
- Track 1 : Mendel_6, Tillums_7
- Track 2 : Anjali_5
- Track 3 : Goodgraces_5, Dunamis_6
- Track 4 : Swim_7
- Track 5 : Seldom_5
- Track 6 : PineapplePizza_3
- Track 7 : Liberone_3
- Track 8 : Curie_1
- Track 9 : Evcara_1
- Track 10 : Smelly_1
- Track 11 : Spiderbri_1
- Track 12 : Razzleberry_1
- Track 13 : Trapezoid_1
- Track 14 : Mimi16_1, Momos_1, Ellison17_1, Prophecy_1, Grotle_1
- Track 15 : Fairywren_1, Squall_1
- Track 16 : Brave_1
- Track 17 : Penne_1
- Track 18 : Thatch_1
- Track 19 : Mantle_1
- Track 20 : Transit_1
- Track 21 : Ayka_1
- Track 22 : Reje_1
- Track 23 : Pize_1

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 5 of the 20 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
- Ayka_1, Ellison17_1, Grotle_1, Mimi16_1, Momos_1, Pize_1, Prophecy_1, Razzleberry_1,

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

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Genes that do not have the "Most Annotated" start:
• Anjali_5, Brave_1, Curie_1, Dunamis_6, Evcara_1, Fairywren_1, Goodgraces_5, Liberone_3, Mantle_1, Mendel_6, Penne_1, PineapplePizza_3, Reje_1, Seldom_5, Smelly_1, Spiderbri_1, Squall_1, Swim_7, Thatch_1, Tillums_7, Transit_1, Trapezoid_1,

Summary by start number:

Start 6:
• Found in 1 of 30 (3.3%) of genes in pham
• Manual Annotations of this start: 1 of 20
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Curie_1 (GI),

Start 7:
• Found in 1 of 30 (3.3%) of genes in pham
• Manual Annotations of this start: 1 of 20
• Called 100.0% of time when present
• Phage (with cluster) where this start called: PineapplePizza_3 (GI),

Start 8:
• Found in 7 of 30 (23.3%) of genes in pham
• No Manual Annotations of this start.
• Called 28.6% of time when present
• Phage (with cluster) where this start called: Dunamis_6 (FD), Goodgraces_5 (FD),

Start 10:
• Found in 8 of 30 (26.7%) of genes in pham
• Manual Annotations of this start: 5 of 20
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Ayka_1 (UNK), Ellison17_1 (JB), Grotle_1 (JB), Mimi16_1 (JB), Momos_1 (JB), Pize_1 (UNK), Prophecy_1 (JB), Razzleberry_1 (JB),

Start 13:
• Found in 1 of 30 (3.3%) of genes in pham
• Manual Annotations of this start: 1 of 20
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Trapezoid_1 (JB),

Start 14:
• Found in 4 of 30 (13.3%) of genes in pham
• Manual Annotations of this start: 3 of 20
• Called 75.0% of time when present
• Phage (with cluster) where this start called: Mantle_1 (JC), Thatch_1 (JC), Transit_1 (JC),

Start 16:
• Found in 6 of 30 (20.0%) of genes in pham
• Manual Annotations of this start: 4 of 20
• Called 83.3% of time when present

• Phage (with cluster) where this start called: Brave_1 (JB), Fairywren_1 (JB), Penne_1 (JB), Reje_1 (UNK), Squall_1 (JB),

Start 17:
• Found in 7 of 30 (23.3%) of genes in pham
• Manual Annotations of this start: 4 of 20
• Called 71.4% of time when present
• Phage (with cluster) where this start called: Anjali_5 (FD), Mendel_6 (FD), Seldom_5 (FD), Swim_7 (FD), Tillums_7 (FD),

Start 18:
• Found in 1 of 30 (3.3%) of genes in pham
• Manual Annotations of this start: 1 of 20
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Evcara_1 (GI),

Start 23:
• Found in 2 of 30 (6.7%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Smelly_1 (GK), Spiderbri_1 (GK),

Start 24:
• Found in 4 of 30 (13.3%) of genes in pham
• No Manual Annotations of this start.
• Called 25.0% of time when present
• Phage (with cluster) where this start called: Liberone_3 (GI),

Summary by clusters:

There are 6 clusters represented in this pham: FD, JB, UNK, GK, GI, JC,

Info for manual annotations of cluster FD:
•Start number 17 was manually annotated 4 times for cluster FD.

Info for manual annotations of cluster GI:
•Start number 6 was manually annotated 1 time for cluster GI.
•Start number 7 was manually annotated 1 time for cluster GI.
•Start number 18 was manually annotated 1 time for cluster GI.

Info for manual annotations of cluster JB:
•Start number 10 was manually annotated 5 times for cluster JB.
•Start number 13 was manually annotated 1 time for cluster JB.
•Start number 16 was manually annotated 4 times for cluster JB.

Info for manual annotations of cluster JC:
•Start number 14 was manually annotated 3 times for cluster JC.

Gene Information:

Gene: Anjali_5 Start: 1483, Stop: 1953, Start Num: 17
Candidate Starts for Anjali_5:
(8, 1438), (Start: 17 @1483 has 4 MA's), (29, 1600), (32, 1642), (39, 1720), (50, 1810),

Gene: Ayka_1 Start: 586, Stop: 1125, Start Num: 10
Candidate Starts for Ayka_1:
(2, 493), (3, 520), (Start: 10 @586 has 5 MA's), (39, 853), (41, 877), (48, 898), (56, 976), (58, 1012), (60, 1021), (68, 1087),

Gene: Brave_1 Start: 695, Stop: 1147, Start Num: 16
Candidate Starts for Brave_1:
(Start: 16 @695 has 4 MA's), (27, 800), (39, 923), (54, 1028), (55, 1037), (60, 1091),

Gene: Curie_1 Start: 421, Stop: 978, Start Num: 6
Candidate Starts for Curie_1:
(5, 409), (Start: 6 @421 has 1 MA's), (9, 454), (24, 547), (33, 658), (44, 757), (57, 859), (59, 898),

Gene: Dunamis_6 Start: 1455, Stop: 1967, Start Num: 8
Candidate Starts for Dunamis_6:
(8, 1455), (Start: 17 @1500 has 4 MA's), (32, 1659), (40, 1740), (50, 1827), (60, 1905),

Gene: Ellison17_1 Start: 497, Stop: 1048, Start Num: 10
Candidate Starts for Ellison17_1:
(Start: 10 @497 has 5 MA's), (39, 764), (43, 803), (46, 815), (56, 905), (60, 950),

Gene: Evcara_1 Start: 485, Stop: 967, Start Num: 18
Candidate Starts for Evcara_1:
(15, 479), (Start: 18 @485 has 1 MA's), (24, 539), (30, 617), (33, 650), (36, 707), (38, 719), (40, 728), (52, 824), (53, 830), (64, 938), (65, 944), (66, 947),

Gene: Fairywren_1 Start: 664, Stop: 1116, Start Num: 16
Candidate Starts for Fairywren_1:
(1, 478), (Start: 16 @664 has 4 MA's), (27, 769), (36, 874), (39, 892), (54, 997), (55, 1006), (60, 1060), (62, 1099),

Gene: Goodgraces_5 Start: 1678, Stop: 2190, Start Num: 8
Candidate Starts for Goodgraces_5:
(8, 1678), (Start: 17 @1723 has 4 MA's), (32, 1882), (40, 1963), (50, 2050), (60, 2128),

Gene: Grotle_1 Start: 456, Stop: 1007, Start Num: 10
Candidate Starts for Grotle_1:
(Start: 10 @456 has 5 MA's), (39, 723), (43, 762), (46, 774), (56, 864), (60, 909),

Gene: Liberone_3 Start: 1378, Stop: 1809, Start Num: 24
Candidate Starts for Liberone_3:
(24, 1378), (33, 1489), (34, 1522), (39, 1564), (45, 1594), (51, 1657),

Gene: Mantle_1 Start: 837, Stop: 1343, Start Num: 14
Candidate Starts for Mantle_1:
(Start: 14 @837 has 3 MA's), (20, 867), (22, 894), (25, 951), (32, 1008), (37, 1077), (63, 1311),

Gene: Mendel_6 Start: 1407, Stop: 1874, Start Num: 17
Candidate Starts for Mendel_6:

(8, 1362), (Start: 17 @1407 has 4 MA's), (32, 1566), (40, 1647), (50, 1734), (60, 1812),

Gene: Mimi16_1 Start: 507, Stop: 1058, Start Num: 10
Candidate Starts for Mimi16_1:
(Start: 10 @507 has 5 MA's), (39, 774), (43, 813), (46, 825), (56, 915), (60, 960),

Gene: Momos_1 Start: 497, Stop: 1048, Start Num: 10
Candidate Starts for Momos_1:
(Start: 10 @497 has 5 MA's), (39, 764), (43, 803), (46, 815), (56, 905), (60, 950),

Gene: Penne_1 Start: 698, Stop: 1150, Start Num: 16
Candidate Starts for Penne_1:
(Start: 16 @698 has 4 MA's), (27, 803), (36, 908), (39, 926), (54, 1031), (55, 1040), (60, 1094), (62, 1133),

Gene: PineapplePizza_3 Start: 1180, Stop: 1725, Start Num: 7
Candidate Starts for PineapplePizza_3:
(4, 1147), (Start: 7 @1180 has 1 MA's), (11, 1213), (24, 1294), (33, 1405), (34, 1438), (39, 1480), (45, 1510), (51, 1573),

Gene: Pize_1 Start: 471, Stop: 1010, Start Num: 10
Candidate Starts for Pize_1:
(Start: 10 @471 has 5 MA's), (12, 480), (20, 522), (28, 609), (39, 735), (41, 759), (46, 768), (48, 780), (62, 942), (67, 960),

Gene: Prophecy_1 Start: 507, Stop: 1058, Start Num: 10
Candidate Starts for Prophecy_1:
(Start: 10 @507 has 5 MA's), (39, 774), (43, 813), (46, 825), (56, 915), (60, 960),

Gene: Razzleberry_1 Start: 500, Stop: 1033, Start Num: 10
Candidate Starts for Razzleberry_1:
(Start: 10 @500 has 5 MA's), (31, 674), (39, 767), (41, 791), (48, 812), (56, 890), (58, 926), (60, 935), (68, 1001),

Gene: Reje_1 Start: 554, Stop: 1015, Start Num: 16
Candidate Starts for Reje_1:
(Start: 16 @554 has 4 MA's), (27, 668), (39, 791), (48, 836), (49, 842), (54, 896), (62, 998),

Gene: Seldom_5 Start: 1986, Stop: 2456, Start Num: 17
Candidate Starts for Seldom_5:
(8, 1941), (Start: 17 @1986 has 4 MA's), (32, 2142), (50, 2310), (54, 2325), (60, 2388),

Gene: Smelly_1 Start: 419, Stop: 832, Start Num: 23
Candidate Starts for Smelly_1:
(19, 374), (21, 395), (23, 419), (35, 587), (38, 602), (50, 701), (61, 779), (64, 812),

Gene: Spiderbri_1 Start: 367, Stop: 780, Start Num: 23
Candidate Starts for Spiderbri_1:
(Start: 14 @307 has 3 MA's), (19, 322), (21, 343), (23, 367), (38, 550), (50, 649), (64, 760),

Gene: Squall_1 Start: 665, Stop: 1117, Start Num: 16
Candidate Starts for Squall_1:

(1, 479), (Start: 16 @665 has 4 MA's), (27, 770), (36, 875), (39, 893), (54, 998), (55, 1007), (60, 1061), (62, 1100),

Gene: Swim_7 Start: 1879, Stop: 2349, Start Num: 17
Candidate Starts for Swim_7:
(8, 1834), (Start: 17 @1879 has 4 MA's), (32, 2038), (40, 2119), (50, 2206),

Gene: Thatch_1 Start: 729, Stop: 1232, Start Num: 14
Candidate Starts for Thatch_1:
(Start: 14 @729 has 3 MA's), (26, 843), (32, 897), (37, 966), (42, 1005), (47, 1029), (63, 1200),

Gene: Tillums_7 Start: 1944, Stop: 2411, Start Num: 17
Candidate Starts for Tillums_7:
(8, 1899), (Start: 17 @1944 has 4 MA's), (32, 2103), (40, 2184), (50, 2271), (60, 2349),

Gene: Transit_1 Start: 735, Stop: 1238, Start Num: 14
Candidate Starts for Transit_1:
(Start: 14 @735 has 3 MA's), (25, 846), (32, 903), (37, 972), (42, 1011), (63, 1206),

Gene: Trapezoid_1 Start: 572, Stop: 1048, Start Num: 13
Candidate Starts for Trapezoid_1:
(Start: 13 @572 has 1 MA's), (Start: 16 @587 has 4 MA's), (27, 701), (39, 824), (48, 869), (49, 875), (54, 929), (62, 1031),