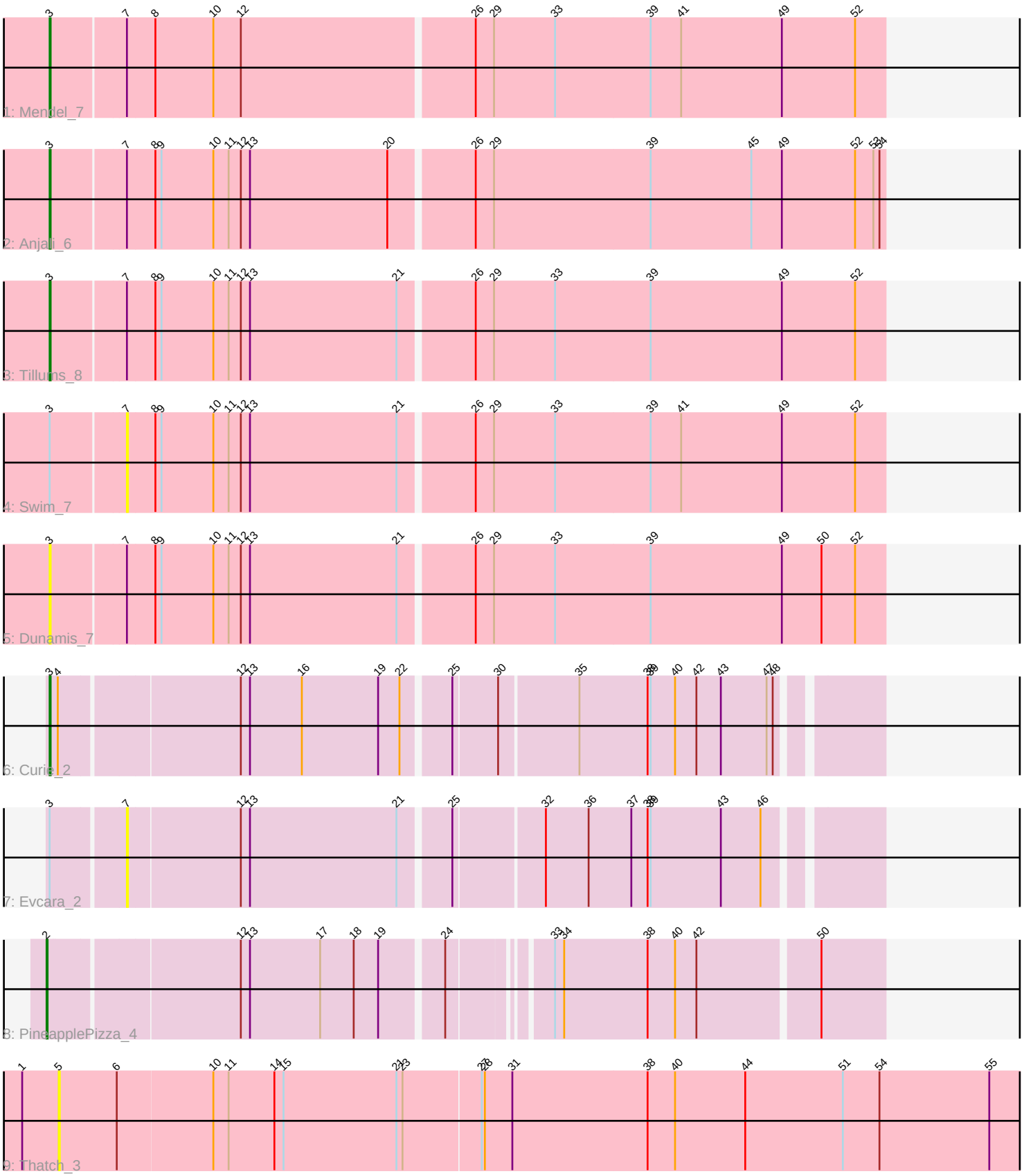
Pham 88588


1: Mendel_7
2: Anjali_6
3: Tillums_8
4: Swim_7
5: Dunamis_7
6: Curie_2
7: Evcara_2
8: PineapplePizza_4
9: Thatch_3

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 88588 Report

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

Pham number 88588 has 9 members, 4 are drafts.

Phages represented in each track:
• Track 1 : Mendel_7
• Track 2 : Anjali_6
• Track 3 : Tillums_8
• Track 4 : Swim_7
• Track 5 : Dunamis_7
• Track 6 : Curie_2
• Track 7 : Evcara_2
• Track 8 : PineapplePizza_4
• Track 9 : Thatch_3

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

The start number called the most often in the published annotations is 3, it was called in 4 of the 5 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Anjali_6, Curie_2, Dunamis_7, Mendel_7, Tillums_8,

Genes that have the "Most Annotated" start but do not call it:
• Evcara_2, Swim_7,

Genes that do not have the "Most Annotated" start:
• PineapplePizza_4, Thatch_3,

Summary by start number:

Start 2:
• Found in 1 of 9 (11.1%) of genes in pham
• Manual Annotations of this start: 1 of 5
• Called 100.0% of time when present
• Phage (with cluster) where this start called: PineapplePizza_4 (GI),

Start 3:
• Found in 7 of 9 (77.8%) of genes in pham

• Manual Annotations of this start: 4 of 5
• Called 71.4% of time when present
• Phage (with cluster) where this start called: Anjali_6 (FD), Curie_2 (GI), Dunamis_7 (FD), Mendel_7 (FD), Tillums_8 (FD),

Start 5:
• Found in 1 of 9 (11.1%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Thatch_3 (UNK),

Start 7:
• Found in 6 of 9 (66.7%) of genes in pham
• No Manual Annotations of this start.
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Evcara_2 (GI), Swim_7 (FD),

Summary by clusters:

There are 3 clusters represented in this pham: UNK, FD, GI,

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

Info for manual annotations of cluster GI:
•Start number 2 was manually annotated 1 time for cluster GI.
•Start number 3 was manually annotated 1 time for cluster GI.

Gene Information:

Gene: Anjali_6 Start: 2043, Stop: 2846, Start Num: 3
Candidate Starts for Anjali_6:
(Start: 3 @2043 has 4 MA's), (7, 2112), (8, 2139), (9, 2145), (10, 2196), (11, 2211), (12, 2223), (13, 2232), (20, 2367), (26, 2445), (29, 2463), (39, 2616), (45, 2715), (49, 2745), (52, 2817), (53, 2835), (54, 2841),

Gene: Curie_2 Start: 1039, Stop: 1806, Start Num: 3
Candidate Starts for Curie_2:
(Start: 3 @1039 has 4 MA's), (4, 1045), (12, 1213), (13, 1222), (16, 1273), (19, 1348), (22, 1369), (25, 1411), (30, 1453), (35, 1528), (38, 1594), (39, 1597), (40, 1621), (42, 1642), (43, 1666), (47, 1711), (48, 1717),

Gene: Dunamis_7 Start: 2057, Stop: 2860, Start Num: 3
Candidate Starts for Dunamis_7:
(Start: 3 @2057 has 4 MA's), (7, 2126), (8, 2153), (9, 2159), (10, 2210), (11, 2225), (12, 2237), (13, 2246), (21, 2390), (26, 2459), (29, 2477), (33, 2537), (39, 2630), (49, 2759), (50, 2798), (52, 2831),

Gene: Evcara_2 Start: 1094, Stop: 1795, Start Num: 7
Candidate Starts for Evcara_2:

(Start: 3 @1028 has 4 MA's), (7, 1094), (12, 1202), (13, 1211), (21, 1355), (25, 1400), (32, 1484), (36, 1526), (37, 1568), (38, 1583), (39, 1586), (43, 1655), (46, 1694),

Gene: Mendel_7 Start: 1964, Stop: 2767, Start Num: 3
Candidate Starts for Mendel_7:
(Start: 3 @1964 has 4 MA's), (7, 2033), (8, 2060), (10, 2117), (12, 2144), (26, 2366), (29, 2384), (33, 2444), (39, 2537), (41, 2567), (49, 2666), (52, 2738),

Gene: PineapplePizza_4 Start: 1788, Stop: 2555, Start Num: 2
Candidate Starts for PineapplePizza_4:
(Start: 2 @1788 has 1 MA's), (12, 1965), (13, 1974), (17, 2043), (18, 2076), (19, 2100), (24, 2157), (33, 2241), (34, 2250), (38, 2331), (40, 2358), (42, 2379), (50, 2493),

Gene: Swim_7 Start: 2508, Stop: 3242, Start Num: 7
Candidate Starts for Swim_7:
(Start: 3 @2439 has 4 MA's), (7, 2508), (8, 2535), (9, 2541), (10, 2592), (11, 2607), (12, 2619), (13, 2628), (21, 2772), (26, 2841), (29, 2859), (33, 2919), (39, 3012), (41, 3042), (49, 3141), (52, 3213),

Gene: Thatch_3 Start: 1301, Stop: 2284, Start Num: 5
Candidate Starts for Thatch_3:
(1, 1265), (5, 1301), (6, 1358), (10, 1451), (11, 1466), (14, 1511), (15, 1520), (21, 1631), (23, 1637), (27, 1712), (28, 1715), (31, 1742), (38, 1874), (40, 1901), (44, 1970), (51, 2066), (54, 2102), (55, 2210),

Gene: Tillums_8 Start: 2501, Stop: 3304, Start Num: 3
Candidate Starts for Tillums_8:
(Start: 3 @2501 has 4 MA's), (7, 2570), (8, 2597), (9, 2603), (10, 2654), (11, 2669), (12, 2681), (13, 2690), (21, 2834), (26, 2903), (29, 2921), (33, 2981), (39, 3074), (49, 3203), (52, 3275),