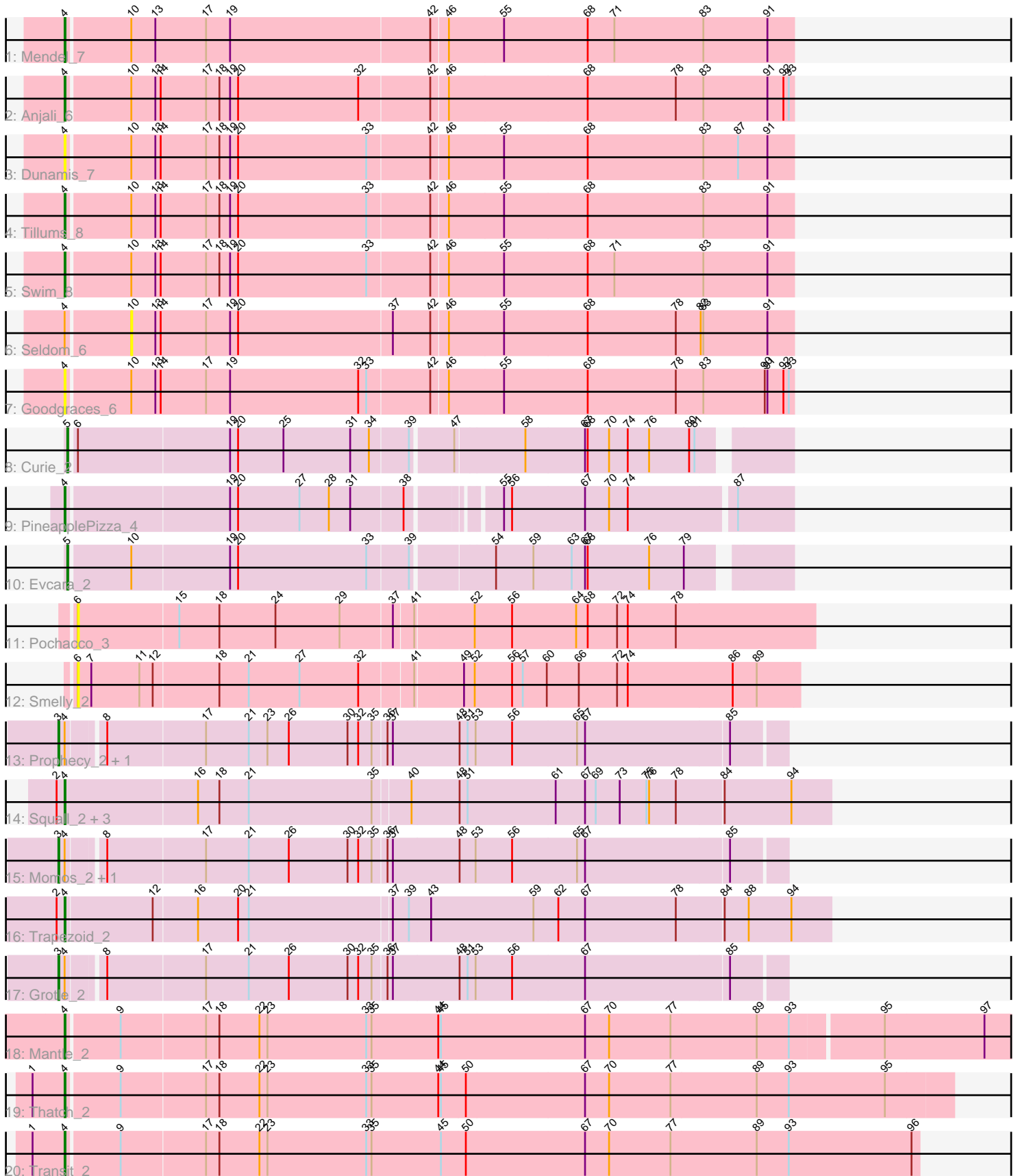


Pham 198358



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 198358 Report

This analysis was run 01/18/25 on database version 583.

Pham number 198358 has 25 members, 5 are drafts.

Phages represented in each track:

- Track 1 : Mendel_7
- Track 2 : Anjali_6
- Track 3 : Dunamis_7
- Track 4 : Tillums_8
- Track 5 : Swim_8
- Track 6 : Seldom_6
- Track 7 : Goodgraces_6
- Track 8 : Curie_2
- Track 9 : PineapplePizza_4
- Track 10 : Evcara_2
- Track 11 : Pochacco_3
- Track 12 : Smelly_2
- Track 13 : Prophecy_2, Mimi16_2
- Track 14 : Squall_2, Fairywren_2, Brave_2, Penne_2
- Track 15 : Momos_2, Ellison17_2
- Track 16 : Trapezoid_2
- Track 17 : Grotle_2
- Track 18 : Mantle_2
- Track 19 : Thatch_2
- Track 20 : Transit_2

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

The start number called the most often in the published annotations is 4, it was called in 13 of the 20 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Anjali_6, Brave_2, Dunamis_7, Fairywren_2, Goodgraces_6, Mantle_2, Mendel_7, Penne_2, PineapplePizza_4, Squall_2, Swim_8, Thatch_2, Tillums_8, Transit_2, Trapezoid_2,

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

- Ellison17_2, Grotle_2, Mimi16_2, Momos_2, Prophecy_2, Seldom_6,

Genes that do not have the "Most Annotated" start:

- Curie_2, Evcara_2, Pochacco_3, Smelly_2,

Summary by start number:

Start 3:

- Found in 5 of 25 (20.0%) 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: Ellison17_2 (JB), Grotle_2 (JB), Mimi16_2 (JB), Momos_2 (JB), Prophecy_2 (JB),

Start 4:

- Found in 21 of 25 (84.0%) of genes in pham
- Manual Annotations of this start: 13 of 20
- Called 71.4% of time when present
- Phage (with cluster) where this start called: Anjali_6 (FD), Brave_2 (JB), Dunamis_7 (FD), Fairywren_2 (JB), Goodgraces_6 (FD), Mantle_2 (JC), Mendel_7 (FD), Penne_2 (JB), PineapplePizza_4 (GI), Squall_2 (JB), Swim_8 (FD), Thatch_2 (JC), Tillums_8 (FD), Transit_2 (JC), Trapezoid_2 (JB),

Start 5:

- Found in 2 of 25 (8.0%) of genes in pham
- Manual Annotations of this start: 2 of 20
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Curie_2 (GI), Evcara_2 (GI),

Start 6:

- Found in 3 of 25 (12.0%) of genes in pham
- No Manual Annotations of this start.
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Pochacco_3 (GK), Smelly_2 (GK),

Start 10:

- Found in 8 of 25 (32.0%) of genes in pham
- No Manual Annotations of this start.
- Called 12.5% of time when present
- Phage (with cluster) where this start called: Seldom_6 (FD),

Summary by clusters:

There are 5 clusters represented in this pham: GK, FD, GI, JB, JC,

Info for manual annotations of cluster FD:

- Start number 4 was manually annotated 4 times for cluster FD.

Info for manual annotations of cluster GI:

- Start number 4 was manually annotated 1 time for cluster GI.
- Start number 5 was manually annotated 2 times for cluster GI.

Info for manual annotations of cluster JB:

- Start number 3 was manually annotated 5 times for cluster JB.

- Start number 4 was manually annotated 5 times for cluster JB.

Info for manual annotations of cluster JC:

- Start number 4 was manually annotated 3 times for cluster JC.

Gene Information:

Gene: Anjali_6 Start: 2043, Stop: 2846, Start Num: 4

Candidate Starts for Anjali_6:

(Start: 4 @2043 has 13 MA's), (10, 2112), (13, 2139), (14, 2145), (17, 2196), (18, 2211), (19, 2223), (20, 2232), (32, 2367), (42, 2445), (46, 2463), (68, 2616), (78, 2715), (83, 2745), (91, 2817), (92, 2835), (93, 2841),

Gene: Brave_2 Start: 1215, Stop: 2057, Start Num: 4

Candidate Starts for Brave_2:

(2, 1206), (Start: 4 @1215 has 13 MA's), (16, 1362), (18, 1386), (21, 1419), (35, 1557), (40, 1596), (48, 1647), (51, 1656), (61, 1752), (67, 1785), (69, 1797), (73, 1824), (75, 1854), (76, 1857), (78, 1887), (84, 1938), (94, 2013),

Gene: Curie_2 Start: 1039, Stop: 1806, Start Num: 5

Candidate Starts for Curie_2:

(Start: 5 @1039 has 2 MA's), (6, 1045), (19, 1213), (20, 1222), (25, 1273), (31, 1348), (34, 1369), (39, 1411), (47, 1453), (58, 1528), (67, 1594), (68, 1597), (70, 1621), (74, 1642), (76, 1666), (80, 1711), (81, 1717),

Gene: Dunamis_7 Start: 2057, Stop: 2860, Start Num: 4

Candidate Starts for Dunamis_7:

(Start: 4 @2057 has 13 MA's), (10, 2126), (13, 2153), (14, 2159), (17, 2210), (18, 2225), (19, 2237), (20, 2246), (33, 2390), (42, 2459), (46, 2477), (55, 2537), (68, 2630), (83, 2759), (87, 2798), (91, 2831),

Gene: Ellison17_2 Start: 1121, Stop: 1906, Start Num: 3

Candidate Starts for Ellison17_2:

(Start: 3 @1121 has 5 MA's), (Start: 4 @1127 has 13 MA's), (8, 1163), (17, 1271), (21, 1319), (26, 1364), (30, 1430), (32, 1442), (35, 1457), (36, 1472), (37, 1478), (48, 1550), (53, 1568), (56, 1607), (65, 1679), (67, 1688), (85, 1847),

Gene: Evcara_2 Start: 1028, Stop: 1795, Start Num: 5

Candidate Starts for Evcara_2:

(Start: 5 @1028 has 2 MA's), (10, 1094), (19, 1202), (20, 1211), (33, 1355), (39, 1400), (54, 1484), (59, 1526), (63, 1568), (67, 1583), (68, 1586), (76, 1655), (79, 1694),

Gene: Fairywren_2 Start: 1184, Stop: 2026, Start Num: 4

Candidate Starts for Fairywren_2:

(2, 1175), (Start: 4 @1184 has 13 MA's), (16, 1331), (18, 1355), (21, 1388), (35, 1526), (40, 1565), (48, 1616), (51, 1625), (61, 1721), (67, 1754), (69, 1766), (73, 1793), (75, 1823), (76, 1826), (78, 1856), (84, 1907), (94, 1982),

Gene: Goodgraces_6 Start: 2280, Stop: 3083, Start Num: 4

Candidate Starts for Goodgraces_6:

(Start: 4 @2280 has 13 MA's), (10, 2349), (13, 2376), (14, 2382), (17, 2433), (19, 2460), (32, 2604), (33, 2613), (42, 2682), (46, 2700), (55, 2760), (68, 2853), (78, 2952), (83, 2982), (90, 3051), (91, 3054),

(92, 3072), (93, 3078),

Gene: Grotle_2 Start: 1080, Stop: 1865, Start Num: 3

Candidate Starts for Grotle_2:

(Start: 3 @1080 has 5 MA's), (Start: 4 @1086 has 13 MA's), (8, 1122), (17, 1230), (21, 1278), (26, 1323), (30, 1389), (32, 1401), (35, 1416), (36, 1431), (37, 1437), (48, 1509), (51, 1518), (53, 1527), (56, 1566), (67, 1647), (85, 1806),

Gene: Mantle_2 Start: 1417, Stop: 2487, Start Num: 4

Candidate Starts for Mantle_2:

(Start: 4 @1417 has 13 MA's), (9, 1474), (17, 1567), (18, 1582), (22, 1627), (23, 1636), (33, 1747), (35, 1753), (44, 1828), (45, 1831), (67, 1990), (70, 2017), (77, 2086), (89, 2182), (93, 2218), (95, 2317), (97, 2428),

Gene: Mendel_7 Start: 1964, Stop: 2767, Start Num: 4

Candidate Starts for Mendel_7:

(Start: 4 @1964 has 13 MA's), (10, 2033), (13, 2060), (17, 2117), (19, 2144), (42, 2366), (46, 2384), (55, 2444), (68, 2537), (71, 2567), (83, 2666), (91, 2738),

Gene: Mimi16_2 Start: 1131, Stop: 1916, Start Num: 3

Candidate Starts for Mimi16_2:

(Start: 3 @1131 has 5 MA's), (Start: 4 @1137 has 13 MA's), (8, 1173), (17, 1281), (21, 1329), (23, 1350), (26, 1374), (30, 1440), (32, 1452), (35, 1467), (36, 1482), (37, 1488), (48, 1560), (51, 1569), (53, 1578), (56, 1617), (65, 1689), (67, 1698), (85, 1857),

Gene: Momos_2 Start: 1121, Stop: 1906, Start Num: 3

Candidate Starts for Momos_2:

(Start: 3 @1121 has 5 MA's), (Start: 4 @1127 has 13 MA's), (8, 1163), (17, 1271), (21, 1319), (26, 1364), (30, 1430), (32, 1442), (35, 1457), (36, 1472), (37, 1478), (48, 1550), (53, 1568), (56, 1607), (65, 1679), (67, 1688), (85, 1847),

Gene: Penne_2 Start: 1218, Stop: 2060, Start Num: 4

Candidate Starts for Penne_2:

(2, 1209), (Start: 4 @1218 has 13 MA's), (16, 1365), (18, 1389), (21, 1422), (35, 1560), (40, 1599), (48, 1650), (51, 1659), (61, 1755), (67, 1788), (69, 1800), (73, 1827), (75, 1857), (76, 1860), (78, 1890), (84, 1941), (94, 2016),

Gene: PineapplePizza_4 Start: 1788, Stop: 2555, Start Num: 4

Candidate Starts for PineapplePizza_4:

(Start: 4 @1788 has 13 MA's), (19, 1965), (20, 1974), (27, 2043), (28, 2076), (31, 2100), (38, 2157), (55, 2241), (56, 2250), (67, 2331), (70, 2358), (74, 2379), (87, 2493),

Gene: Pochacco_3 Start: 1083, Stop: 1895, Start Num: 6

Candidate Starts for Pochacco_3:

(6, 1083), (15, 1194), (18, 1239), (24, 1302), (29, 1374), (37, 1431), (41, 1452), (52, 1515), (56, 1557), (64, 1629), (68, 1641), (72, 1674), (74, 1686), (78, 1740),

Gene: Prophecy_2 Start: 1131, Stop: 1916, Start Num: 3

Candidate Starts for Prophecy_2:

(Start: 3 @1131 has 5 MA's), (Start: 4 @1137 has 13 MA's), (8, 1173), (17, 1281), (21, 1329), (23, 1350), (26, 1374), (30, 1440), (32, 1452), (35, 1467), (36, 1482), (37, 1488), (48, 1560), (51, 1569), (53, 1578), (56, 1617), (65, 1689), (67, 1698), (85, 1857),

Gene: Seldom_6 Start: 2615, Stop: 3349, Start Num: 10

Candidate Starts for Seldom_6:

(Start: 4 @2546 has 13 MA's), (10, 2615), (13, 2642), (14, 2648), (17, 2699), (19, 2726), (20, 2735), (37, 2906), (42, 2948), (46, 2966), (55, 3026), (68, 3119), (78, 3218), (82, 3245), (83, 3248), (91, 3320),

Gene: Smelly_2 Start: 908, Stop: 1702, Start Num: 6

Candidate Starts for Smelly_2:

(6, 908), (7, 923), (11, 977), (12, 992), (18, 1064), (21, 1097), (27, 1154), (32, 1220), (41, 1277), (49, 1328), (52, 1340), (56, 1382), (57, 1394), (60, 1421), (66, 1457), (72, 1499), (74, 1511), (86, 1628), (89, 1655),

Gene: Squall_2 Start: 1185, Stop: 2027, Start Num: 4

Candidate Starts for Squall_2:

(2, 1176), (Start: 4 @1185 has 13 MA's), (16, 1332), (18, 1356), (21, 1389), (35, 1527), (40, 1566), (48, 1617), (51, 1626), (61, 1722), (67, 1755), (69, 1767), (73, 1794), (75, 1824), (76, 1827), (78, 1857), (84, 1908), (94, 1983),

Gene: Swim_8 Start: 2439, Stop: 3242, Start Num: 4

Candidate Starts for Swim_8:

(Start: 4 @2439 has 13 MA's), (10, 2508), (13, 2535), (14, 2541), (17, 2592), (18, 2607), (19, 2619), (20, 2628), (33, 2772), (42, 2841), (46, 2859), (55, 2919), (68, 3012), (71, 3042), (83, 3141), (91, 3213),

Gene: Thatch_2 Start: 1307, Stop: 2290, Start Num: 4

Candidate Starts for Thatch_2:

(1, 1271), (Start: 4 @1307 has 13 MA's), (9, 1364), (17, 1457), (18, 1472), (22, 1517), (23, 1526), (33, 1637), (35, 1643), (44, 1718), (45, 1721), (50, 1748), (67, 1880), (70, 1907), (77, 1976), (89, 2072), (93, 2108), (95, 2216),

Gene: Tillums_8 Start: 2501, Stop: 3304, Start Num: 4

Candidate Starts for Tillums_8:

(Start: 4 @2501 has 13 MA's), (10, 2570), (13, 2597), (14, 2603), (17, 2654), (18, 2669), (19, 2681), (20, 2690), (33, 2834), (42, 2903), (46, 2921), (55, 2981), (68, 3074), (83, 3203), (91, 3275),

Gene: Transit_2 Start: 1313, Stop: 2260, Start Num: 4

Candidate Starts for Transit_2:

(1, 1277), (Start: 4 @1313 has 13 MA's), (9, 1370), (17, 1463), (18, 1478), (22, 1523), (23, 1532), (33, 1643), (35, 1649), (45, 1727), (50, 1754), (67, 1886), (70, 1913), (77, 1982), (89, 2078), (93, 2114), (96, 2252),

Gene: Trapezoid_2 Start: 1116, Stop: 1955, Start Num: 4

Candidate Starts for Trapezoid_2:

(2, 1110), (Start: 4 @1116 has 13 MA's), (12, 1212), (16, 1260), (20, 1305), (21, 1317), (37, 1473), (39, 1491), (43, 1515), (59, 1626), (62, 1653), (67, 1683), (78, 1785), (84, 1836), (88, 1863), (94, 1911),