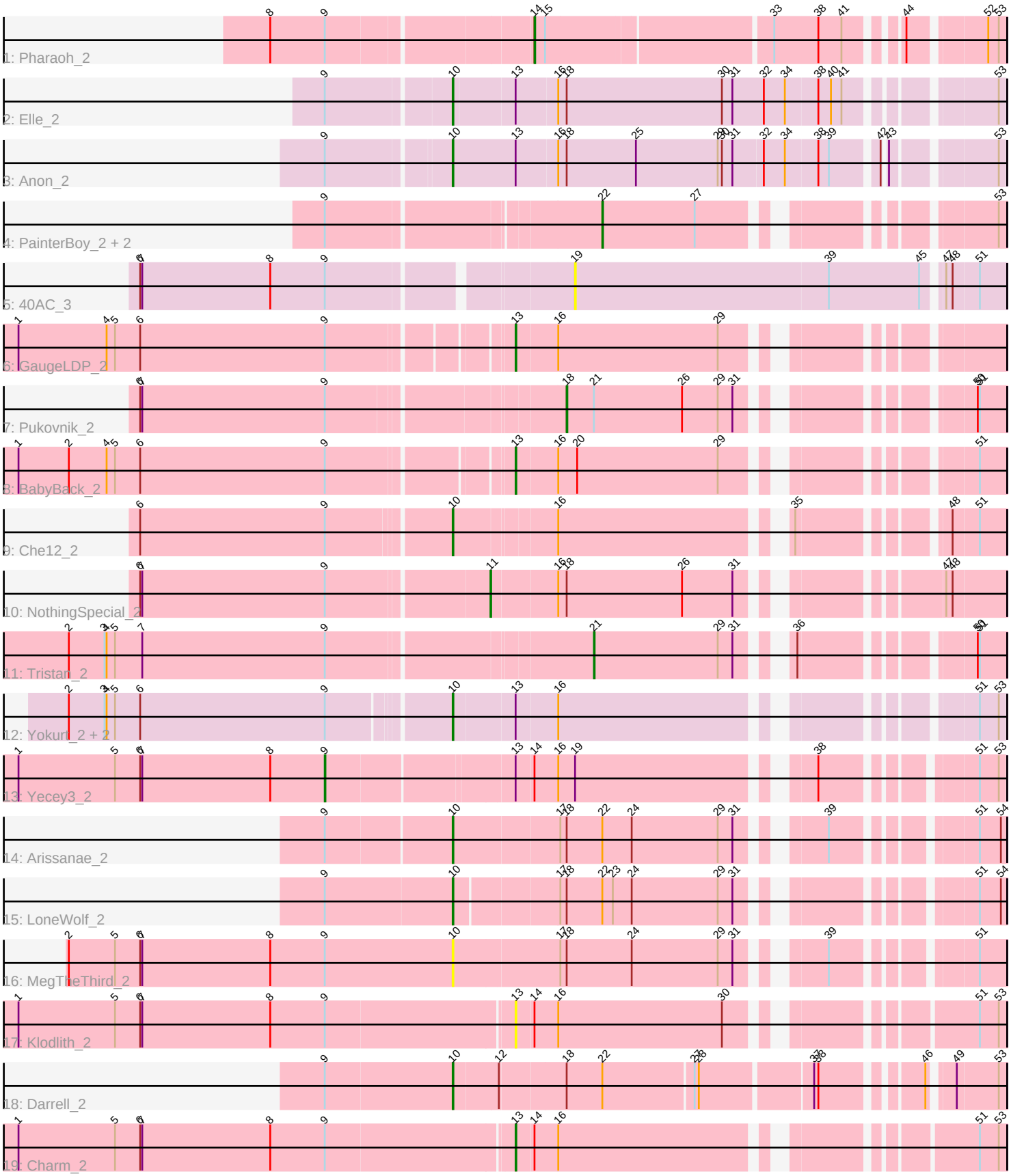
Pham 347999


1: Pharaoh_2
2: Elle_2
3: Anon_2
4: PainterBoy_2 + 2
5: 40AC_3
6: GaugeLDP_2
7: Pukovnik_2
8: BabyBack_2
9: Che12_2
10: NothingSpecial_2
11: Tristan_2
12: Yokuri_2 + 2
13: Yecey3_2
14: Arissanae_2
15: LoneWolf_2
16: MegTheThird_2
17: Klodlith_2
18: Darrell_2
19: Charm_2

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 347999 Report

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

Pham number 347999 has 23 members, 3 are drafts.

Phages represented in each track:
• Track 1 : Pharaoh_2
• Track 2 : Elle_2
• Track 3 : Anon_2
• Track 4 : PainterBoy_2, Lucyedi_2, EagleEye_2
• Track 5 : 40AC_3
• Track 6 : GaugeLDP_2
• Track 7 : Pukovnik_2
• Track 8 : BabyBack_2
• Track 9 : Che12_2
• Track 10 : NothingSpecial_2
• Track 11 : Tristan_2
• Track 12 : Yokurt_2, Zulu_2, Polyphemus_2
• Track 13 : Yecey3_2
• Track 14 : Arissanae_2
• Track 15 : LoneWolf_2
• Track 16 : MegTheThird_2
• Track 17 : Klodlith_2
• Track 18 : Darrell_2
• Track 19 : Charm_2

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

Genes that call this "Most Annotated" start:
• Anon_2, Arissanae_2, Che12_2, Darrell_2, Elle_2, LoneWolf_2, MegTheThird_2, Polyphemus_2, Yokurt_2, Zulu_2,

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

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

• 40AC_3, BabyBack_2, Charm_2, EagleEye_2, GaugeLDP_2, Klodlith_2, Lucyedi_2, NothingSpecial_2, PainterBoy_2, Pharaoh_2, Pukovnik_2, Tristan_2, Yecey3_2,

Summary by start number:

Start 9:
• Found in 23 of 23 (100.0%) of genes in pham
• Manual Annotations of this start: 1 of 20
• Called 4.3% of time when present
• Phage (with cluster) where this start called: Yecey3_2 (A9),

Start 10:
• Found in 10 of 23 (43.5%) of genes in pham
• Manual Annotations of this start: 9 of 20
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Anon_2 (A15), Arissanae_2 (A9), Che12_2 (A2), Darrell_2 (A9), Elle_2 (A15), LoneWolf_2 (A9), MegTheThird_2 (A9), Polyphemus_2 (A6), Yokurt_2 (A6), Zulu_2 (A6),

Start 11:
• Found in 1 of 23 (4.3%) 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: NothingSpecial_2 (A2),

Start 13:
• Found in 10 of 23 (43.5%) of genes in pham
• Manual Annotations of this start: 3 of 20
• Called 40.0% of time when present
• Phage (with cluster) where this start called: BabyBack_2 (A2), Charm_2 (A9), GaugeLDP_2 (A2), Klodlith_2 (A9),

Start 14:
• Found in 4 of 23 (17.4%) of genes in pham
• Manual Annotations of this start: 1 of 20
• Called 25.0% of time when present
• Phage (with cluster) where this start called: Pharaoh_2 (A12),

Start 18:
• Found in 8 of 23 (34.8%) of genes in pham
• Manual Annotations of this start: 1 of 20
• Called 12.5% of time when present
• Phage (with cluster) where this start called: Pukovnik_2 (A2),

Start 19:
• Found in 2 of 23 (8.7%) of genes in pham
• No Manual Annotations of this start.
• Called 50.0% of time when present
• Phage (with cluster) where this start called: 40AC_3 (A17),

Start 21:
• Found in 2 of 23 (8.7%) of genes in pham
• Manual Annotations of this start: 1 of 20

• Called 50.0% of time when present
• Phage (with cluster) where this start called: Tristan_2 (A2),

Start 22:
• Found in 6 of 23 (26.1%) of genes in pham
• Manual Annotations of this start: 3 of 20
• Called 50.0% of time when present
• Phage (with cluster) where this start called: EagleEye_2 (A16), Lucyedi_2 (A16), PainterBoy_2 (A16),

Summary by clusters:

There are 7 clusters represented in this pham: A15, A17, A16, A12, A2, A6, A9,

Info for manual annotations of cluster A12:
•Start number 14 was manually annotated 1 time for cluster A12.

Info for manual annotations of cluster A15:
•Start number 10 was manually annotated 2 times for cluster A15.

Info for manual annotations of cluster A16:
•Start number 22 was manually annotated 3 times for cluster A16.

Info for manual annotations of cluster A2:
•Start number 10 was manually annotated 1 time for cluster A2.
•Start number 11 was manually annotated 1 time for cluster A2.
•Start number 13 was manually annotated 2 times for cluster A2.
•Start number 18 was manually annotated 1 time for cluster A2.
•Start number 21 was manually annotated 1 time for cluster A2.

Info for manual annotations of cluster A6:
•Start number 10 was manually annotated 3 times for cluster A6.

Info for manual annotations of cluster A9:
•Start number 9 was manually annotated 1 time for cluster A9.
•Start number 10 was manually annotated 3 times for cluster A9.
•Start number 13 was manually annotated 1 time for cluster A9.

Gene Information:

Gene: 40AC_3 Start: 1491, Stop: 2084, Start Num: 19
Candidate Starts for 40AC_3:
(6, 909), (7, 912), (8, 1095), (Start: 9 @1173 has 1 MA's), (19, 1491), (39, 1851), (45, 1980), (47, 2001), (48, 2010), (51, 2046),

Gene: Anon_2 Start: 1236, Stop: 1964, Start Num: 10
Candidate Starts for Anon_2:
(Start: 9 @1071 has 1 MA's), (Start: 10 @1236 has 9 MA's), (Start: 13 @1326 has 3 MA's), (16, 1383), (Start: 18 @1395 has 1 MA's), (25, 1494), (29, 1611), (30, 1617), (31, 1632), (32, 1674), (34, 1704), (38, 1749), (39, 1764), (42, 1824), (43, 1827), (53, 1956),

Gene: Arissanae_2 Start: 1223, Stop: 1906, Start Num: 10
Candidate Starts for Arissanae_2:
(Start: 9 @1049 has 1 MA's), (Start: 10 @1223 has 9 MA's), (17, 1370), (Start: 18 @1379 has 1 MA's), (Start: 22 @1430 has 3 MA's), (24, 1472), (29, 1595), (31, 1616), (39, 1703), (51, 1868), (54, 1898),

Gene: BabyBack_2 Start: 1285, Stop: 1881, Start Num: 13
Candidate Starts for BabyBack_2:
(1, 610), (2, 682), (4, 736), (5, 748), (6, 784), (Start: 9 @1048 has 1 MA's), (Start: 13 @1285 has 3 MA's), (16, 1342), (20, 1369), (29, 1570), (51, 1843),

Gene: Charm_2 Start: 1285, Stop: 1893, Start Num: 13
Candidate Starts for Charm_2:
(1, 589), (5, 727), (6, 763), (7, 766), (8, 949), (Start: 9 @1027 has 1 MA's), (Start: 13 @1285 has 3 MA's), (Start: 14 @1309 has 1 MA's), (16, 1342), (51, 1855), (53, 1882),

Gene: Che12_2 Start: 1226, Stop: 1900, Start Num: 10
Candidate Starts for Che12_2:
(6, 797), (Start: 9 @1061 has 1 MA's), (Start: 10 @1226 has 9 MA's), (16, 1361), (35, 1652), (48, 1826), (51, 1862),

Gene: Darrell_2 Start: 1208, Stop: 1912, Start Num: 10
Candidate Starts for Darrell_2:
(Start: 9 @1028 has 1 MA's), (Start: 10 @1208 has 9 MA's), (12, 1268), (Start: 18 @1358 has 1 MA's), (Start: 22 @1409 has 3 MA's), (27, 1535), (28, 1541), (37, 1691), (38, 1697), (46, 1817), (49, 1844), (53, 1901),

Gene: EagleEye_2 Start: 1437, Stop: 1910, Start Num: 22
Candidate Starts for EagleEye_2:
(Start: 9 @1071 has 1 MA's), (Start: 22 @1437 has 3 MA's), (27, 1569), (53, 1899),

Gene: Elle_2 Start: 1198, Stop: 1923, Start Num: 10
Candidate Starts for Elle_2:
(Start: 9 @1030 has 1 MA's), (Start: 10 @1198 has 9 MA's), (Start: 13 @1282 has 3 MA's), (16, 1339), (Start: 18 @1351 has 1 MA's), (30, 1573), (31, 1588), (32, 1633), (34, 1663), (38, 1708), (40, 1726), (41, 1741), (53, 1915),

Gene: GaugeLDP_2 Start: 1281, Stop: 1877, Start Num: 13
Candidate Starts for GaugeLDP_2:
(1, 612), (4, 738), (5, 750), (6, 786), (Start: 9 @1050 has 1 MA's), (Start: 13 @1281 has 3 MA's), (16, 1338), (29, 1566),

Gene: Klodlith_2 Start: 1285, Stop: 1893, Start Num: 13
Candidate Starts for Klodlith_2:
(1, 589), (5, 727), (6, 763), (7, 766), (8, 949), (Start: 9 @1027 has 1 MA's), (Start: 13 @1285 has 3 MA's), (Start: 14 @1309 has 1 MA's), (16, 1342), (30, 1576), (51, 1855), (53, 1882),

Gene: LoneWolf_2 Start: 1207, Stop: 1884, Start Num: 10
Candidate Starts for LoneWolf_2:
(Start: 9 @1027 has 1 MA's), (Start: 10 @1207 has 9 MA's), (17, 1348), (Start: 18 @1357 has 1 MA's), (Start: 22 @1408 has 3 MA's), (23, 1423), (24, 1450), (29, 1573), (31, 1594), (51, 1846), (54, 1876),

Gene: Lucyedi_2 Start: 1437, Stop: 1910, Start Num: 22

Candidate Starts for Lucyedi_2:
(Start: 9 @1071 has 1 MA's), (Start: 22 @1437 has 3 MA's), (27, 1569), (53, 1899),

Gene: MegTheThird_2 Start: 1207, Stop: 1890, Start Num: 10
Candidate Starts for MegTheThird_2:
(2, 658), (5, 724), (6, 760), (7, 763), (8, 946), (Start: 9 @1024 has 1 MA's), (Start: 10 @1207 has 9 MA's), (17, 1354), (Start: 18 @1363 has 1 MA's), (24, 1456), (29, 1579), (31, 1600), (39, 1687), (51, 1852),

Gene: NothingSpecial_2 Start: 1288, Stop: 1932, Start Num: 11
Candidate Starts for NothingSpecial_2:
(6, 805), (7, 808), (Start: 9 @1069 has 1 MA's), (Start: 11 @1288 has 1 MA's), (16, 1378), (Start: 18 @1390 has 1 MA's), (26, 1555), (31, 1627), (47, 1849), (48, 1858),

Gene: PainterBoy_2 Start: 1437, Stop: 1910, Start Num: 22
Candidate Starts for PainterBoy_2:
(Start: 9 @1071 has 1 MA's), (Start: 22 @1437 has 3 MA's), (27, 1569), (53, 1899),

Gene: Pharaoh_2 Start: 1314, Stop: 1910, Start Num: 14
Candidate Starts for Pharaoh_2:
(8, 963), (Start: 9 @1041 has 1 MA's), (Start: 14 @1314 has 1 MA's), (15, 1329), (33, 1632), (38, 1695), (41, 1728), (44, 1788), (52, 1884), (53, 1899),

Gene: Polyphemus_2 Start: 1250, Stop: 1927, Start Num: 10
Candidate Starts for Polyphemus_2:
(2, 725), (3, 776), (4, 779), (5, 791), (6, 827), (Start: 9 @1091 has 1 MA's), (Start: 10 @1250 has 9 MA's), (Start: 13 @1334 has 3 MA's), (16, 1391), (51, 1892), (53, 1919),

Gene: Pukovnik_2 Start: 1346, Stop: 1873, Start Num: 18
Candidate Starts for Pukovnik_2:
(6, 773), (7, 776), (Start: 9 @1037 has 1 MA's), (Start: 18 @1346 has 1 MA's), (Start: 21 @1385 has 1 MA's), (26, 1511), (29, 1562), (31, 1583), (50, 1832), (51, 1835),

Gene: Tristan_2 Start: 1413, Stop: 1901, Start Num: 21
Candidate Starts for Tristan_2:
(2, 693), (3, 744), (4, 747), (5, 759), (7, 798), (Start: 9 @1059 has 1 MA's), (Start: 21 @1413 has 1 MA's), (29, 1590), (31, 1611), (36, 1656), (50, 1860), (51, 1863),

Gene: Yecey3_2 Start: 1038, Stop: 1883, Start Num: 9
Candidate Starts for Yecey3_2:
(1, 600), (5, 738), (6, 774), (7, 777), (8, 960), (Start: 9 @1038 has 1 MA's), (Start: 13 @1290 has 3 MA's), (Start: 14 @1314 has 1 MA's), (16, 1347), (19, 1371), (38, 1668), (51, 1848), (53, 1875),

Gene: Yokurt_2 Start: 1248, Stop: 1925, Start Num: 10
Candidate Starts for Yokurt_2:
(2, 723), (3, 774), (4, 777), (5, 789), (6, 825), (Start: 9 @1089 has 1 MA's), (Start: 10 @1248 has 9 MA's), (Start: 13 @1332 has 3 MA's), (16, 1389), (51, 1890), (53, 1917),

Gene: Zulu_2 Start: 1248, Stop: 1925, Start Num: 10
Candidate Starts for Zulu_2:
(2, 723), (3, 774), (4, 777), (5, 789), (6, 825), (Start: 9 @1089 has 1 MA's), (Start: 10 @1248 has 9 MA's), (Start: 13 @1332 has 3 MA's), (16, 1389), (51, 1890), (53, 1917),