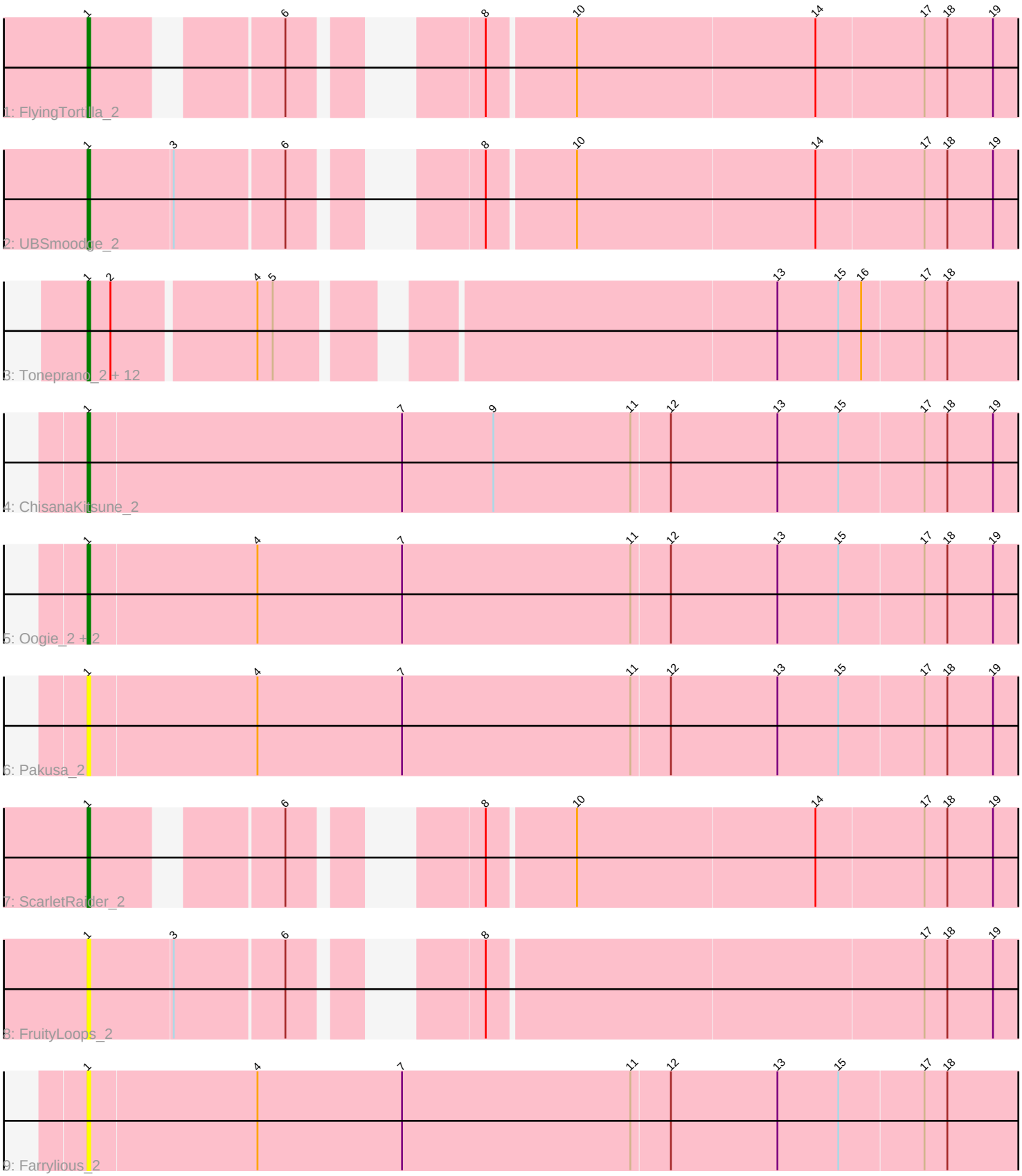
# Zoomed Pham 309207



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 309207 Report

This analysis was run 06/27/26 on database version 652.

Pham number 309207 has 23 members, 12 are drafts.

Phages represented in each track:
• Track 1 : FlyingTortilla_2
• Track 2 : UBSmoodge_2
• Track 3 : Toneprano_2, Twin_2, Aloki_2, MintFritos_2, EmoNemo_2, Argena_2, Mikronejon_2, Gray_2, Chidiebere_2, Kabocha_2, Schomber_2, Hanem_2, Amoonguss_2
• Track 4 : ChisanaKitsune_2
• Track 5 : Oogie_2, Lenoshki_2, Beted_2
• Track 6 : Pakusa_2
• Track 7 : ScarletRaider_2
• Track 8 : FruityLoops_2
• Track 9 : Farrylious_2

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

The start number called the most often in the published annotations is 1, it was called in 11 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Aloki_2, Amoonguss_2, Argena_2, Beted_2, Chidiebere_2, ChisanaKitsune_2, EmoNemo_2, Farrylious_2, FlyingTortilla_2, FruityLoops_2, Gray_2, Hanem_2, Kabocha_2, Lenoshki_2, Mikronejon_2, MintFritos_2, Oogie_2, Pakusa_2, ScarletRaider_2, Schomber_2, Toneprano_2, Twin_2, UBSmoodge_2,

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

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

**Summary by start number:**

Start 1:
• Found in 23 of 23 ( 100.0% ) of genes in pham
• Manual Annotations of this start: 11 of 11

• Called 100.0% of time when present
• Phage (with cluster) where this start called: Aloki_2 (DQ), Amoonguss_2 (DQ), Argena_2 (DQ), Beted_2 (DQ), Chidiebere_2 (DQ), ChisanaKitsune_2 (DQ), EmoNemo_2 (DQ), Farrylious_2 (DQ), FlyingTortilla_2 (DQ), FruityLoops_2 (DQ), Gray_2 (DQ), Hanem_2 (DQ), Kabocha_2 (DQ), Lenoshki_2 (DQ), Mikronejon_2 (DQ), MintFritos_2 (DQ), Oogie_2 (DQ), Pakusa_2 (DQ), ScarletRaider_2 (DQ), Schomber_2 (DQ), Toneprano_2 (DQ), Twin_2 (DQ), UBSmoodge_2 (DQ),

**Summary by clusters:**

There is one cluster represented in this pham: DQ

Info for manual annotations of cluster DQ:
•Start number 1 was manually annotated 11 times for cluster DQ.

***Gene Information:***

Gene: Aloki_2 Start: 891, Stop: 1916, Start Num: 1
Candidate Starts for Aloki_2:
(Start: 1 @891 has 11 MA's), (2, 900), (4, 954), (5, 960), (13, 1137), (15, 1161), (16, 1170), (17, 1194), (18, 1203), (20, 1251), (29, 1446), (33, 1515), (34, 1518), (43, 1662), (46, 1692), (48, 1773), (50, 1788), (52, 1845), (57, 1887),

Gene: Amoonguss_2 Start: 891, Stop: 1916, Start Num: 1
Candidate Starts for Amoonguss_2:
(Start: 1 @891 has 11 MA's), (2, 900), (4, 954), (5, 960), (13, 1137), (15, 1161), (16, 1170), (17, 1194), (18, 1203), (20, 1251), (29, 1446), (33, 1515), (34, 1518), (43, 1662), (46, 1692), (48, 1773), (50, 1788), (52, 1845), (57, 1887),

Gene: Argena_2 Start: 891, Stop: 1916, Start Num: 1
Candidate Starts for Argena_2:
(Start: 1 @891 has 11 MA's), (2, 900), (4, 954), (5, 960), (13, 1137), (15, 1161), (16, 1170), (17, 1194), (18, 1203), (20, 1251), (29, 1446), (33, 1515), (34, 1518), (43, 1662), (46, 1692), (48, 1773), (50, 1788), (52, 1845), (57, 1887),

Gene: Beted_2 Start: 891, Stop: 1694, Start Num: 1
Candidate Starts for Beted_2:
(Start: 1 @891 has 11 MA's), (4, 957), (7, 1014), (11, 1104), (12, 1119), (13, 1161), (15, 1185), (17, 1218), (18, 1227), (19, 1245), (22, 1320), (24, 1368), (26, 1389), (27, 1401), (29, 1467), (33, 1530), (34, 1533), (35, 1539), (36, 1542), (37, 1560), (41, 1635), (42, 1662),

Gene: Chidiebere_2 Start: 891, Stop: 1916, Start Num: 1
Candidate Starts for Chidiebere_2:
(Start: 1 @891 has 11 MA's), (2, 900), (4, 954), (5, 960), (13, 1137), (15, 1161), (16, 1170), (17, 1194), (18, 1203), (20, 1251), (29, 1446), (33, 1515), (34, 1518), (43, 1662), (46, 1692), (48, 1773), (50, 1788), (52, 1845), (57, 1887),

Gene: ChisanaKitsune_2 Start: 894, Stop: 1697, Start Num: 1
Candidate Starts for ChisanaKitsune_2:
(Start: 1 @894 has 11 MA's), (7, 1017), (9, 1053), (11, 1107), (12, 1122), (13, 1164), (15, 1188), (17, 1221), (18, 1230), (19, 1248), (20, 1278), (24, 1371), (26, 1392), (27, 1404), (29, 1470), (33, 1533), (34,

1536), (35, 1542), (37, 1563), (41, 1638), (42, 1665),

Gene: EmoNemo_2 Start: 891, Stop: 1916, Start Num: 1
Candidate Starts for EmoNemo_2:
(Start: 1 @891 has 11 MA's), (2, 900), (4, 954), (5, 960), (13, 1137), (15, 1161), (16, 1170), (17, 1194), (18, 1203), (20, 1251), (29, 1446), (33, 1515), (34, 1518), (43, 1662), (46, 1692), (48, 1773), (50, 1788), (52, 1845), (57, 1887),

Gene: Farrylious_2 Start: 891, Stop: 1940, Start Num: 1
Candidate Starts for Farrylious_2:
(Start: 1 @891 has 11 MA's), (4, 957), (7, 1014), (11, 1104), (12, 1119), (13, 1161), (15, 1185), (17, 1218), (18, 1227), (20, 1275), (29, 1470), (33, 1539), (34, 1542), (43, 1686), (46, 1716), (48, 1797), (50, 1812), (52, 1869), (57, 1911),

Gene: FlyingTortilla_2 Start: 898, Stop: 2271, Start Num: 1
Candidate Starts for FlyingTortilla_2:
(Start: 1 @898 has 11 MA's), (6, 961), (8, 1012), (10, 1045), (14, 1138), (17, 1180), (18, 1189), (19, 1207), (21, 1240), (23, 1315), (25, 1345), (27, 1360), (28, 1366), (38, 1444), (40, 1501), (45, 1576), (55, 1645), (59, 1705), (60, 1714), (61, 1858), (62, 1903), (63, 1939), (64, 1942), (66, 1969), (67, 1987), (68, 2038), (69, 2050), (70, 2128), (71, 2182), (72, 2248),

Gene: FruityLoops_2 Start: 898, Stop: 2157, Start Num: 1
Candidate Starts for FruityLoops_2:
(Start: 1 @898 has 11 MA's), (3, 931), (6, 973), (8, 1024), (17, 1192), (18, 1201), (19, 1219), (21, 1252), (23, 1327), (27, 1372), (28, 1378), (30, 1480), (31, 1507), (38, 1558), (40, 1615), (45, 1690), (53, 1741), (54, 1744), (55, 1762), (56, 1774), (58, 1786), (60, 1807), (61, 1951), (62, 1996), (63, 2032), (64, 2035), (66, 2062), (68, 2131), (69, 2143),

Gene: Gray_2 Start: 891, Stop: 1916, Start Num: 1
Candidate Starts for Gray_2:
(Start: 1 @891 has 11 MA's), (2, 900), (4, 954), (5, 960), (13, 1137), (15, 1161), (16, 1170), (17, 1194), (18, 1203), (20, 1251), (29, 1446), (33, 1515), (34, 1518), (43, 1662), (46, 1692), (48, 1773), (50, 1788), (52, 1845), (57, 1887),

Gene: Hanem_2 Start: 891, Stop: 1916, Start Num: 1
Candidate Starts for Hanem_2:
(Start: 1 @891 has 11 MA's), (2, 900), (4, 954), (5, 960), (13, 1137), (15, 1161), (16, 1170), (17, 1194), (18, 1203), (20, 1251), (29, 1446), (33, 1515), (34, 1518), (43, 1662), (46, 1692), (48, 1773), (50, 1788), (52, 1845), (57, 1887),

Gene: Kabocha_2 Start: 891, Stop: 1916, Start Num: 1
Candidate Starts for Kabocha_2:
(Start: 1 @891 has 11 MA's), (2, 900), (4, 954), (5, 960), (13, 1137), (15, 1161), (16, 1170), (17, 1194), (18, 1203), (20, 1251), (29, 1446), (33, 1515), (34, 1518), (43, 1662), (46, 1692), (48, 1773), (50, 1788), (52, 1845), (57, 1887),

Gene: Lenoshki_2 Start: 891, Stop: 1694, Start Num: 1
Candidate Starts for Lenoshki_2:
(Start: 1 @891 has 11 MA's), (4, 957), (7, 1014), (11, 1104), (12, 1119), (13, 1161), (15, 1185), (17, 1218), (18, 1227), (19, 1245), (22, 1320), (24, 1368), (26, 1389), (27, 1401), (29, 1467), (33, 1530), (34, 1533), (35, 1539), (36, 1542), (37, 1560), (41, 1635), (42, 1662),

Gene: Mikronejon_2 Start: 891, Stop: 1916, Start Num: 1

Candidate Starts for Mikronejon_2:
(Start: 1 @891 has 11 MA's), (2, 900), (4, 954), (5, 960), (13, 1137), (15, 1161), (16, 1170), (17, 1194), (18, 1203), (20, 1251), (29, 1446), (33, 1515), (34, 1518), (43, 1662), (46, 1692), (48, 1773), (50, 1788), (52, 1845), (57, 1887),

Gene: MintFritos_2 Start: 891, Stop: 1916, Start Num: 1
Candidate Starts for MintFritos_2:
(Start: 1 @891 has 11 MA's), (2, 900), (4, 954), (5, 960), (13, 1137), (15, 1161), (16, 1170), (17, 1194), (18, 1203), (20, 1251), (29, 1446), (33, 1515), (34, 1518), (43, 1662), (46, 1692), (48, 1773), (50, 1788), (52, 1845), (57, 1887),

Gene: Oogie_2 Start: 891, Stop: 1694, Start Num: 1
Candidate Starts for Oogie_2:
(Start: 1 @891 has 11 MA's), (4, 957), (7, 1014), (11, 1104), (12, 1119), (13, 1161), (15, 1185), (17, 1218), (18, 1227), (19, 1245), (22, 1320), (24, 1368), (26, 1389), (27, 1401), (29, 1467), (33, 1530), (34, 1533), (35, 1539), (36, 1542), (37, 1560), (41, 1635), (42, 1662),

Gene: Pakusa_2 Start: 891, Stop: 1694, Start Num: 1
Candidate Starts for Pakusa_2:
(Start: 1 @891 has 11 MA's), (4, 957), (7, 1014), (11, 1104), (12, 1119), (13, 1161), (15, 1185), (17, 1218), (18, 1227), (19, 1245), (22, 1320), (24, 1368), (26, 1389), (27, 1401), (29, 1467), (32, 1527), (34, 1533), (36, 1542), (37, 1560), (41, 1635), (42, 1662),

Gene: ScarletRaider_2 Start: 898, Stop: 2304, Start Num: 1
Candidate Starts for ScarletRaider_2:
(Start: 1 @898 has 11 MA's), (6, 961), (8, 1012), (10, 1045), (14, 1138), (17, 1180), (18, 1189), (19, 1207), (21, 1240), (23, 1315), (25, 1345), (27, 1360), (28, 1366), (30, 1477), (31, 1504), (38, 1555), (40, 1612), (44, 1681), (45, 1687), (47, 1774), (49, 1798), (51, 1837), (55, 1885), (59, 1945), (60, 1954), (61, 2098), (63, 2179), (64, 2182), (65, 2194), (66, 2209), (68, 2278), (69, 2290),

Gene: Schomber_2 Start: 891, Stop: 1916, Start Num: 1
Candidate Starts for Schomber_2:
(Start: 1 @891 has 11 MA's), (2, 900), (4, 954), (5, 960), (13, 1137), (15, 1161), (16, 1170), (17, 1194), (18, 1203), (20, 1251), (29, 1446), (33, 1515), (34, 1518), (43, 1662), (46, 1692), (48, 1773), (50, 1788), (52, 1845), (57, 1887),

Gene: Toneprano_2 Start: 891, Stop: 1916, Start Num: 1
Candidate Starts for Toneprano_2:
(Start: 1 @891 has 11 MA's), (2, 900), (4, 954), (5, 960), (13, 1137), (15, 1161), (16, 1170), (17, 1194), (18, 1203), (20, 1251), (29, 1446), (33, 1515), (34, 1518), (43, 1662), (46, 1692), (48, 1773), (50, 1788), (52, 1845), (57, 1887),

Gene: Twin_2 Start: 891, Stop: 1916, Start Num: 1
Candidate Starts for Twin_2:
(Start: 1 @891 has 11 MA's), (2, 900), (4, 954), (5, 960), (13, 1137), (15, 1161), (16, 1170), (17, 1194), (18, 1203), (20, 1251), (29, 1446), (33, 1515), (34, 1518), (43, 1662), (46, 1692), (48, 1773), (50, 1788), (52, 1845), (57, 1887),

Gene: UBSmoodge_2 Start: 898, Stop: 2283, Start Num: 1
Candidate Starts for UBSmoodge_2:
(Start: 1 @898 has 11 MA's), (3, 931), (6, 973), (8, 1024), (10, 1057), (14, 1150), (17, 1192), (18, 1201), (19, 1219), (21, 1252), (23, 1327), (25, 1357), (27, 1372), (28, 1378), (38, 1456), (39, 1474), (40, 1513), (45, 1588), (55, 1657), (59, 1717), (60, 1726), (61, 1870), (63, 1951), (64, 1954), (66, 1981), (67,

1999), (68, 2050), (69, 2062), (70, 2140), (71, 2194), (72, 2260),