

Pham 171581



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 171581 Report

This analysis was run 07/10/24 on database version 566.

Pham number 171581 has 44 members, 6 are drafts.

Phages represented in each track:

- Track 1 : ScoobyDoobyDoo_197
- Track 2 : Myrna_198
- Track 3 : Greely_205, Phabba_209
- Track 4 : Fizzles_4
- Track 5 : Marcie_4
- Track 6 : Marcie_6
- Track 7 : Teehee_8, Jehoshaphat_8
- Track 8 : Gazebo_3
- Track 9 : SallyK_7
- Track 10 : Squash_6
- Track 11 : Squash_5
- Track 12 : Fregley_4
- Track 13 : Nike_5
- Track 14 : Mashley_2, AluminumJesus_2
- Track 15 : Blab_4
- Track 16 : CandC_2
- Track 17 : Phinky_5
- Track 18 : Kelcole_2
- Track 19 : OneinaGillian_4
- Track 20 : Hyperion_4
- Track 21 : Phabia_6
- Track 22 : Zhafia_8, Namago_4
- Track 23 : Fransoyer_6
- Track 24 : Fransoyer_2, RubyRalph_2
- Track 25 : RobinRose_3, Romm_2
- Track 26 : BabyDotz_5
- Track 27 : Altheas_4
- Track 28 : RubyRalph_6
- Track 29 : BirdInFrench_3, Wilca_3, Pepe25_2
- Track 30 : Judebell_6
- Track 31 : Zagie_6
- Track 32 : Tempo_3
- Track 33 : Squash_4
- Track 34 : SadLad_3
- Track 35 : Dewdrop_28, Leaf_28

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

The start number called the most often in the published annotations is 59, it was called in 30 of the 38 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AluminumJesus_2, BabyDotz_5, BirdInFrench_3, Blab_4, CandC_2, Fransoyer_2, Fregley_4, Gazebo_3, Hyperion_4, Jehoshaphat_8, Judebell_6, Kelcole_2, Marcie_4, Marcie_6, Mashley_2, Namago_4, Nike_5, OneinaGillian_4, Pepe25_2, Phabia_6, Phinky_5, RobinRose_3, Romm_2, RubyRalph_2, RubyRalph_6, SadLad_3, SallyK_7, Squash_4, Squash_6, Teehee_8, Tempo_3, Wilca_3, Zagie_6, Zhafia_8,

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

- Altheas_4, Fizzles_4, Fransoyer_6,

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

- Dewdrop_28, Greely_205, Leaf_28, Myrna_198, Phabba_209, ScoobyDoobyDoo_197, Squash_5,

Summary by start number:

Start 47:

- Found in 1 of 44 (2.3%) of genes in pham
- Manual Annotations of this start: 1 of 38
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ScoobyDoobyDoo_197 (C2),

Start 48:

- Found in 3 of 44 (6.8%) of genes in pham
- Manual Annotations of this start: 2 of 38
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Greely_205 (C2), Myrna_198 (C2), Phabba_209 (C2),

Start 50:

- Found in 2 of 44 (4.5%) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Altheas_4 (EG),

Start 54:

- Found in 1 of 44 (2.3%) of genes in pham
- Manual Annotations of this start: 1 of 38
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Fizzles_4 (EG),

Start 59:

- Found in 37 of 44 (84.1%) of genes in pham
- Manual Annotations of this start: 30 of 38
- Called 91.9% of time when present
- Phage (with cluster) where this start called: AluminumJesus_2 (EG), BabyDotz_5 (EG), BirdInFrench_3 (EG), Blab_4 (EG), CandC_2 (EG), Fransoyer_2 (EG),

Fregley_4 (EG), Gazebo_3 (EG), Hyperion_4 (EG), Jehoshaphat_8 (EG), Judebell_6 (EG), Kelcole_2 (EG), Marcie_4 (EG), Marcie_6 (EG), Mashley_2 (EG), Namago_4 (EG), Nike_5 (EG), OneinaGillian_4 (EG), Pepe25_2 (EG), Phabia_6 (EG), Phinky_5 (EG), RobinRose_3 (EG), Romm_2 (EG), RubyRalph_2 (EG), RubyRalph_6 (EG), SadLad_3 (EG), SallyK_7 (EG), Squash_4 (EG), Squash_6 (EG), Teehee_8 (EG), Tempo_3 (EG), Wilca_3 (EG), Zagie_6 (EG), Zhafia_8 (EG),

Start 61:

- Found in 16 of 44 (36.4%) of genes in pham
- Manual Annotations of this start: 1 of 38
- Called 6.2% of time when present
- Phage (with cluster) where this start called: Fransoyer_6 (EG),

Start 67:

- Found in 8 of 44 (18.2%) of genes in pham
- Manual Annotations of this start: 2 of 38
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Dewdrop_28 (GC), Leaf_28 (GC),

Start 114:

- Found in 1 of 44 (2.3%) of genes in pham
- Manual Annotations of this start: 1 of 38
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Squash_5 (EG),

Summary by clusters:

There are 3 clusters represented in this pham: C2, EG, GC,

Info for manual annotations of cluster C2:

- Start number 47 was manually annotated 1 time for cluster C2.
- Start number 48 was manually annotated 2 times for cluster C2.

Info for manual annotations of cluster EG:

- Start number 54 was manually annotated 1 time for cluster EG.
- Start number 59 was manually annotated 30 times for cluster EG.
- Start number 61 was manually annotated 1 time for cluster EG.
- Start number 114 was manually annotated 1 time for cluster EG.

Info for manual annotations of cluster GC:

- Start number 67 was manually annotated 2 times for cluster GC.

Gene Information:

Gene: Altheas_4 Start: 1637, Stop: 1335, Start Num: 50

Candidate Starts for Altheas_4:

(13, 1820), (18, 1802), (26, 1748), (44, 1646), (50, 1637), (Start: 59 @1592 has 30 MA's), (Start: 61 @1583 has 1 MA's), (62, 1562), (71, 1523), (86, 1442), (110, 1352),

Gene: AluminumJesus_2 Start: 1146, Stop: 907, Start Num: 59

Candidate Starts for AluminumJesus_2:

(Start: 59 @1146 has 30 MA's), (Start: 61 @1137 has 1 MA's), (62, 1116), (86, 1008), (87, 996),

Gene: BabyDotz_5 Start: 2093, Stop: 1857, Start Num: 59

Candidate Starts for BabyDotz_5:

(Start: 59 @2093 has 30 MA's), (Start: 61 @2084 has 1 MA's), (62, 2063), (75, 2009), (85, 1970), (99, 1898), (109, 1874), (111, 1871), (112, 1868),

Gene: BirdInFrench_3 Start: 1383, Stop: 1120, Start Num: 59

Candidate Starts for BirdInFrench_3:

(27, 1533), (57, 1392), (58, 1389), (Start: 59 @1383 has 30 MA's), (62, 1353), (96, 1176), (102, 1161), (104, 1155),

Gene: Blab_4 Start: 1367, Stop: 1125, Start Num: 59

Candidate Starts for Blab_4:

(4, 1802), (5, 1784), (8, 1700), (39, 1457), (40, 1451), (Start: 59 @1367 has 30 MA's), (62, 1337), (105, 1154),

Gene: CandC_2 Start: 1102, Stop: 839, Start Num: 59

Candidate Starts for CandC_2:

(6, 1486), (9, 1420), (19, 1306), (20, 1303), (31, 1237), (37, 1207), (57, 1111), (Start: 59 @1102 has 30 MA's), (Start: 61 @1093 has 1 MA's), (62, 1072), (Start: 67 @1045 has 2 MA's), (79, 994), (84, 973), (85, 970), (87, 943), (106, 868), (108, 862),

Gene: Dewdrop_28 Start: 11724, Stop: 11948, Start Num: 67

Candidate Starts for Dewdrop_28:

(1, 10896), (2, 11028), (24, 11487), (35, 11547), (42, 11586), (51, 11625), (52, 11631), (Start: 67 @11724 has 2 MA's), (70, 11736), (73, 11745), (76, 11775), (80, 11799), (88, 11850), (106, 11919),

Gene: Fizzles_4 Start: 1765, Stop: 1490, Start Num: 54

Candidate Starts for Fizzles_4:

(7, 2089), (28, 1894), (29, 1888), (30, 1885), (45, 1801), (Start: 54 @1765 has 1 MA's), (Start: 59 @1747 has 30 MA's), (62, 1717), (91, 1573), (113, 1501),

Gene: Fransoyer_6 Start: 2120, Stop: 1869, Start Num: 61

Candidate Starts for Fransoyer_6:

(21, 2306), (22, 2300), (33, 2249), (34, 2243), (46, 2177), (Start: 59 @2129 has 30 MA's), (60, 2123), (Start: 61 @2120 has 1 MA's), (62, 2099), (78, 2033), (102, 1913), (107, 1898), (108, 1895),

Gene: Fransoyer_2 Start: 1080, Stop: 841, Start Num: 59

Candidate Starts for Fransoyer_2:

(14, 1230), (24, 1173), (Start: 59 @1080 has 30 MA's), (Start: 61 @1071 has 1 MA's), (62, 1050), (94, 909), (103, 873), (108, 861), (112, 852),

Gene: Fregley_4 Start: 1640, Stop: 1377, Start Num: 59

Candidate Starts for Fregley_4:

(6, 2024), (9, 1958), (19, 1844), (20, 1841), (31, 1775), (37, 1745), (57, 1649), (Start: 59 @1640 has 30 MA's), (62, 1610), (Start: 67 @1583 has 2 MA's), (79, 1532), (84, 1511), (85, 1508), (87, 1481), (106, 1406), (108, 1400),

Gene: Gazebo_3 Start: 1551, Stop: 1309, Start Num: 59

Candidate Starts for Gazebo_3:

(36, 1638), (39, 1629), (40, 1623), (Start: 59 @1551 has 30 MA's), (62, 1521), (105, 1338),

Gene: Greely_205 Start: 116611, Stop: 116895, Start Num: 48
Candidate Starts for Greely_205:
(Start: 48 @116611 has 2 MA's), (56, 116647), (62, 116689), (80, 116776),

Gene: Hyperion_4 Start: 1519, Stop: 1271, Start Num: 59
Candidate Starts for Hyperion_4:
(10, 1795), (26, 1678), (Start: 59 @1519 has 30 MA's), (62, 1489), (100, 1309), (102, 1306), (109, 1288), (111, 1285), (112, 1282),

Gene: Jehoshaphat_8 Start: 2791, Stop: 2534, Start Num: 59
Candidate Starts for Jehoshaphat_8:
(37, 2881), (38, 2875), (Start: 59 @2791 has 30 MA's), (62, 2761), (71, 2722), (87, 2629), (110, 2551),

Gene: Judebell_6 Start: 2078, Stop: 1842, Start Num: 59
Candidate Starts for Judebell_6:
(Start: 59 @2078 has 30 MA's), (Start: 61 @2069 has 1 MA's), (62, 2048), (75, 1994), (85, 1955), (99, 1883), (109, 1859), (111, 1856), (112, 1853),

Gene: Kelcole_2 Start: 1102, Stop: 839, Start Num: 59
Candidate Starts for Kelcole_2:
(9, 1420), (19, 1306), (20, 1303), (31, 1237), (37, 1207), (57, 1111), (Start: 59 @1102 has 30 MA's), (62, 1072), (Start: 67 @1045 has 2 MA's), (79, 994), (84, 973), (85, 970), (87, 943), (106, 868), (108, 862),

Gene: Leaf_28 Start: 11724, Stop: 11948, Start Num: 67
Candidate Starts for Leaf_28:
(1, 10896), (2, 11028), (24, 11487), (35, 11547), (42, 11586), (51, 11625), (52, 11631), (Start: 67 @11724 has 2 MA's), (70, 11736), (73, 11745), (76, 11775), (80, 11799), (88, 11850), (106, 11919),

Gene: Marcie_4 Start: 1305, Stop: 1057, Start Num: 59
Candidate Starts for Marcie_4:
(34, 1410), (49, 1347), (Start: 59 @1305 has 30 MA's), (62, 1275), (65, 1254), (66, 1251), (84, 1191), (92, 1137), (93, 1131), (112, 1068),

Gene: Marcie_6 Start: 1750, Stop: 1493, Start Num: 59
Candidate Starts for Marcie_6:
(26, 1906), (55, 1765), (57, 1759), (58, 1756), (Start: 59 @1750 has 30 MA's), (62, 1720), (71, 1681), (72, 1678), (104, 1528),

Gene: Mashley_2 Start: 1146, Stop: 907, Start Num: 59
Candidate Starts for Mashley_2:
(Start: 59 @1146 has 30 MA's), (Start: 61 @1137 has 1 MA's), (62, 1116), (86, 1008), (87, 996),

Gene: Myrna_198 Start: 115997, Stop: 116281, Start Num: 48
Candidate Starts for Myrna_198:
(Start: 48 @115997 has 2 MA's), (56, 116033), (62, 116075), (69, 116114),

Gene: Namago_4 Start: 1406, Stop: 1170, Start Num: 59
Candidate Starts for Namago_4:
(Start: 59 @1406 has 30 MA's), (75, 1322), (85, 1283), (99, 1211), (109, 1187), (111, 1184), (112, 1181),

Gene: Nike_5 Start: 1873, Stop: 1625, Start Num: 59

Candidate Starts for Nike_5:

(12, 2116), (26, 2032), (Start: 59 @1873 has 30 MA's), (Start: 61 @1864 has 1 MA's), (62, 1843), (100, 1663), (102, 1660), (109, 1642), (111, 1639), (112, 1636),

Gene: OneinaGillian_4 Start: 1454, Stop: 1191, Start Num: 59

Candidate Starts for OneinaGillian_4:

(Start: 59 @1454 has 30 MA's), (62, 1424), (Start: 67 @1397 has 2 MA's), (79, 1346), (84, 1325), (85, 1322), (87, 1295), (106, 1220), (108, 1214),

Gene: Pepe25_2 Start: 1383, Stop: 1120, Start Num: 59

Candidate Starts for Pepe25_2:

(27, 1533), (57, 1392), (58, 1389), (Start: 59 @1383 has 30 MA's), (62, 1353), (96, 1176), (102, 1161), (104, 1155),

Gene: Phabba_209 Start: 115965, Stop: 116249, Start Num: 48

Candidate Starts for Phabba_209:

(Start: 48 @115965 has 2 MA's), (56, 116001), (62, 116043), (80, 116130),

Gene: Phabia_6 Start: 1993, Stop: 1736, Start Num: 59

Candidate Starts for Phabia_6:

(Start: 59 @1993 has 30 MA's), (62, 1963), (71, 1924), (87, 1831), (110, 1753),

Gene: Phinky_5 Start: 1686, Stop: 1426, Start Num: 59

Candidate Starts for Phinky_5:

(16, 1902), (23, 1860), (45, 1740), (50, 1731), (Start: 59 @1686 has 30 MA's), (Start: 61 @1677 has 1 MA's), (62, 1656), (88, 1518), (89, 1515), (90, 1512), (101, 1464),

Gene: RobinRose_3 Start: 1102, Stop: 839, Start Num: 59

Candidate Starts for RobinRose_3:

(3, 1555), (6, 1462), (9, 1396), (31, 1237), (37, 1207), (57, 1111), (Start: 59 @1102 has 30 MA's), (62, 1072), (Start: 67 @1045 has 2 MA's), (79, 994), (84, 973), (85, 970), (87, 943), (106, 868), (108, 862),

Gene: Romm_2 Start: 1102, Stop: 839, Start Num: 59

Candidate Starts for Romm_2:

(3, 1555), (6, 1462), (9, 1396), (31, 1237), (37, 1207), (57, 1111), (Start: 59 @1102 has 30 MA's), (62, 1072), (Start: 67 @1045 has 2 MA's), (79, 994), (84, 973), (85, 970), (87, 943), (106, 868), (108, 862),

Gene: RubyRalph_6 Start: 2129, Stop: 1869, Start Num: 59

Candidate Starts for RubyRalph_6:

(21, 2306), (22, 2300), (33, 2249), (34, 2243), (46, 2177), (Start: 59 @2129 has 30 MA's), (60, 2123), (Start: 61 @2120 has 1 MA's), (62, 2099), (78, 2033), (102, 1913), (107, 1898), (108, 1895),

Gene: RubyRalph_2 Start: 1080, Stop: 841, Start Num: 59

Candidate Starts for RubyRalph_2:

(14, 1230), (24, 1173), (Start: 59 @1080 has 30 MA's), (Start: 61 @1071 has 1 MA's), (62, 1050), (94, 909), (103, 873), (108, 861), (112, 852),

Gene: SadLad_3 Start: 1311, Stop: 1072, Start Num: 59

Candidate Starts for SadLad_3:

(14, 1542), (22, 1488), (43, 1377), (53, 1338), (Start: 59 @1311 has 30 MA's), (Start: 61 @1302 has 1 MA's), (62, 1281), (94, 1140), (98, 1119), (109, 1089), (111, 1086),

Gene: SallyK_7 Start: 2695, Stop: 2438, Start Num: 59

Candidate Starts for SallyK_7:

(17, 2902), (32, 2818), (Start: 59 @2695 has 30 MA's), (62, 2665), (87, 2533), (110, 2455),

Gene: ScoobyDoobyDoo_197 Start: 114195, Stop: 114464, Start Num: 47

Candidate Starts for ScoobyDoobyDoo_197:

(40, 114153), (Start: 47 @114195 has 1 MA's), (63, 114279), (64, 114288), (79, 114345),

Gene: Squash_6 Start: 1928, Stop: 1671, Start Num: 59

Candidate Starts for Squash_6:

(11, 2171), (25, 2087), (Start: 59 @1928 has 30 MA's), (Start: 61 @1919 has 1 MA's), (62, 1898), (87, 1766), (110, 1688),

Gene: Squash_5 Start: 1671, Stop: 1429, Start Num: 114

Candidate Starts for Squash_5:

(15, 2142), (68, 1869), (74, 1842), (77, 1824), (81, 1812), (82, 1806), (83, 1800), (95, 1734), (97, 1725), (Start: 114 @1671 has 1 MA's), (115, 1641), (116, 1458),

Gene: Squash_4 Start: 1432, Stop: 1184, Start Num: 59

Candidate Starts for Squash_4:

(25, 1597), (33, 1555), (46, 1483), (Start: 59 @1432 has 30 MA's), (Start: 61 @1423 has 1 MA's), (62, 1402), (100, 1222), (102, 1219), (109, 1201), (111, 1198), (112, 1195),

Gene: Teehee_8 Start: 2791, Stop: 2534, Start Num: 59

Candidate Starts for Teehee_8:

(37, 2881), (38, 2875), (Start: 59 @2791 has 30 MA's), (62, 2761), (71, 2722), (87, 2629), (110, 2551),

Gene: Tempo_3 Start: 1126, Stop: 878, Start Num: 59

Candidate Starts for Tempo_3:

(41, 1210), (Start: 59 @1126 has 30 MA's), (62, 1096), (100, 916), (102, 913), (109, 895), (111, 892), (112, 889),

Gene: Wilca_3 Start: 1383, Stop: 1120, Start Num: 59

Candidate Starts for Wilca_3:

(27, 1533), (57, 1392), (58, 1389), (Start: 59 @1383 has 30 MA's), (62, 1353), (96, 1176), (102, 1161), (104, 1155),

Gene: Zagie_6 Start: 2057, Stop: 1818, Start Num: 59

Candidate Starts for Zagie_6:

(33, 2180), (Start: 59 @2057 has 30 MA's), (Start: 61 @2048 has 1 MA's), (62, 2027), (86, 1919), (87, 1907),

Gene: Zhafia_8 Start: 2076, Stop: 1840, Start Num: 59

Candidate Starts for Zhafia_8:

(Start: 59 @2076 has 30 MA's), (75, 1992), (85, 1953), (99, 1881), (109, 1857), (111, 1854), (112, 1851),