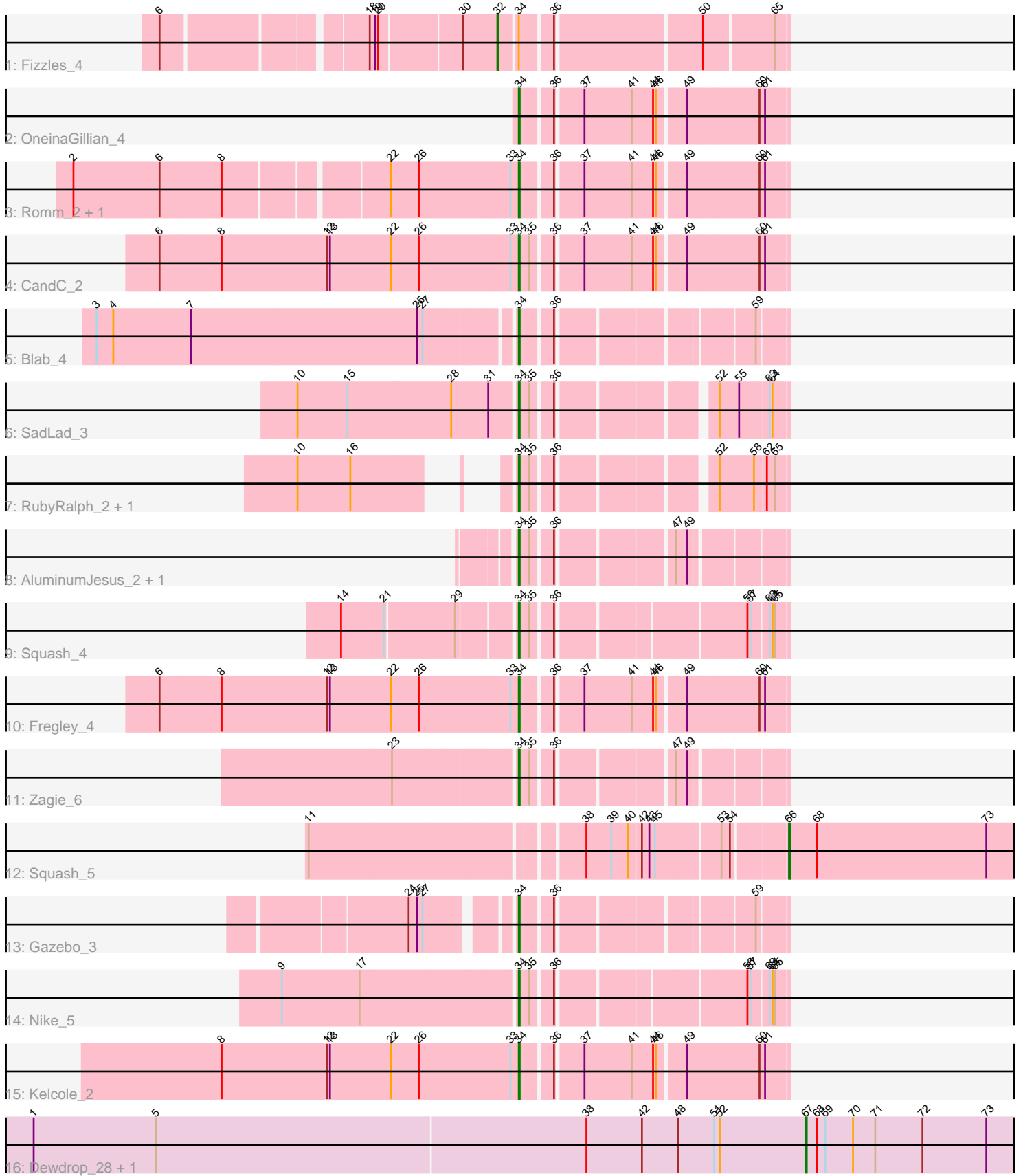


Pham 163940



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 163940 Report

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

Pham number 163940 has 20 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Fizzles_4
- Track 2 : OneinaGillian_4
- Track 3 : Romm_2, RobinRose_3
- Track 4 : CandC_2
- Track 5 : Blab_4
- Track 6 : SadLad_3
- Track 7 : RubyRalph_2, Fransoyer_2
- Track 8 : AluminumJesus_2, Mashley_2
- Track 9 : Squash_4
- Track 10 : Fregley_4
- Track 11 : Zagie_6
- Track 12 : Squash_5
- Track 13 : Gazebo_3
- Track 14 : Nike_5
- Track 15 : Kelcole_2
- Track 16 : 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 34, it was called in 15 of the 19 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AluminumJesus_2, Blab_4, CandC_2, Fransoyer_2, Fregley_4, Gazebo_3, Kelcole_2, Mashley_2, Nike_5, OneinaGillian_4, RobinRose_3, Romm_2, RubyRalph_2, SadLad_3, Squash_4, Zagie_6,

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

- Fizzles_4,

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

- Dewdrop_28, Leaf_28, Squash_5,

Summary by start number:

Start 32:

- Found in 1 of 20 (5.0%) of genes in pham
- Manual Annotations of this start: 1 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Fizzles_4 (EG),

Start 34:

- Found in 17 of 20 (85.0%) of genes in pham
- Manual Annotations of this start: 15 of 19
- Called 94.1% of time when present
- Phage (with cluster) where this start called: AluminumJesus_2 (EG), Blab_4 (EG), CandC_2 (EG), Fransoyer_2 (EG), Fregley_4 (EG), Gazebo_3 (EG), Kelcole_2 (EG), Mashley_2 (EG), Nike_5 (EG), OneinaGillian_4 (EG), RobinRose_3 (EG), Romm_2 (EG), RubyRalph_2 (EG), SadLad_3 (EG), Squash_4 (EG), Zagie_6 (EG),

Start 66:

- Found in 1 of 20 (5.0%) of genes in pham
- Manual Annotations of this start: 1 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Squash_5 (EG),

Start 67:

- Found in 2 of 20 (10.0%) of genes in pham
- Manual Annotations of this start: 2 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Dewdrop_28 (GC), Leaf_28 (GC),

Summary by clusters:

There are 2 clusters represented in this pham: EG, GC,

Info for manual annotations of cluster EG:

- Start number 32 was manually annotated 1 time for cluster EG.
- Start number 34 was manually annotated 15 times for cluster EG.
- Start number 66 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: AluminumJesus_2 Start: 1146, Stop: 907, Start Num: 34

Candidate Starts for AluminumJesus_2:

(Start: 34 @1146 has 15 MA's), (35, 1137), (36, 1116), (47, 1008), (49, 996),

Gene: Blab_4 Start: 1367, Stop: 1125, Start Num: 34

Candidate Starts for Blab_4:

(3, 1802), (4, 1784), (7, 1700), (25, 1457), (27, 1451), (Start: 34 @1367 has 15 MA's), (36, 1337), (59, 1154),

Gene: CandC_2 Start: 1102, Stop: 839, Start Num: 34

Candidate Starts for CandC_2:

(6, 1486), (8, 1420), (12, 1306), (13, 1303), (22, 1237), (26, 1207), (33, 1111), (Start: 34 @1102 has 15 MA's), (35, 1093), (36, 1072), (37, 1045), (41, 994), (44, 973), (46, 970), (49, 943), (60, 868), (61, 862),

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

Candidate Starts for Dewdrop_28:

(1, 10896), (5, 11028), (38, 11487), (42, 11547), (48, 11586), (51, 11625), (52, 11631), (Start: 67 @11724 has 2 MA's), (68, 11736), (69, 11745), (70, 11775), (71, 11799), (72, 11850), (73, 11919),

Gene: Fizzles_4 Start: 1765, Stop: 1490, Start Num: 32

Candidate Starts for Fizzles_4:

(6, 2089), (18, 1894), (19, 1888), (20, 1885), (30, 1801), (Start: 32 @1765 has 1 MA's), (Start: 34 @1747 has 15 MA's), (36, 1717), (50, 1573), (65, 1501),

Gene: Fransoyer_2 Start: 1080, Stop: 841, Start Num: 34

Candidate Starts for Fransoyer_2:

(10, 1230), (16, 1173), (Start: 34 @1080 has 15 MA's), (35, 1071), (36, 1050), (52, 909), (58, 873), (62, 861), (65, 852),

Gene: Fregley_4 Start: 1640, Stop: 1377, Start Num: 34

Candidate Starts for Fregley_4:

(6, 2024), (8, 1958), (12, 1844), (13, 1841), (22, 1775), (26, 1745), (33, 1649), (Start: 34 @1640 has 15 MA's), (36, 1610), (37, 1583), (41, 1532), (44, 1511), (46, 1508), (49, 1481), (60, 1406), (61, 1400),

Gene: Gazebo_3 Start: 1551, Stop: 1309, Start Num: 34

Candidate Starts for Gazebo_3:

(24, 1638), (25, 1629), (27, 1623), (Start: 34 @1551 has 15 MA's), (36, 1521), (59, 1338),

Gene: Kelcole_2 Start: 1102, Stop: 839, Start Num: 34

Candidate Starts for Kelcole_2:

(8, 1420), (12, 1306), (13, 1303), (22, 1237), (26, 1207), (33, 1111), (Start: 34 @1102 has 15 MA's), (36, 1072), (37, 1045), (41, 994), (44, 973), (46, 970), (49, 943), (60, 868), (61, 862),

Gene: Leaf_28 Start: 11724, Stop: 11948, Start Num: 67

Candidate Starts for Leaf_28:

(1, 10896), (5, 11028), (38, 11487), (42, 11547), (48, 11586), (51, 11625), (52, 11631), (Start: 67 @11724 has 2 MA's), (68, 11736), (69, 11745), (70, 11775), (71, 11799), (72, 11850), (73, 11919),

Gene: Mashley_2 Start: 1146, Stop: 907, Start Num: 34

Candidate Starts for Mashley_2:

(Start: 34 @1146 has 15 MA's), (35, 1137), (36, 1116), (47, 1008), (49, 996),

Gene: Nike_5 Start: 1873, Stop: 1625, Start Num: 34

Candidate Starts for Nike_5:

(9, 2116), (17, 2032), (Start: 34 @1873 has 15 MA's), (35, 1864), (36, 1843), (56, 1663), (57, 1660), (63, 1642), (64, 1639), (65, 1636),

Gene: OneinaGillian_4 Start: 1454, Stop: 1191, Start Num: 34

Candidate Starts for OneinaGillian_4:

(Start: 34 @1454 has 15 MA's), (36, 1424), (37, 1397), (41, 1346), (44, 1325), (46, 1322), (49, 1295), (60, 1220), (61, 1214),

Gene: RobinRose_3 Start: 1102, Stop: 839, Start Num: 34

Candidate Starts for RobinRose_3:

(2, 1555), (6, 1462), (8, 1396), (22, 1237), (26, 1207), (33, 1111), (Start: 34 @1102 has 15 MA's), (36, 1072), (37, 1045), (41, 994), (44, 973), (46, 970), (49, 943), (60, 868), (61, 862),

Gene: Romm_2 Start: 1102, Stop: 839, Start Num: 34

Candidate Starts for Romm_2:

(2, 1555), (6, 1462), (8, 1396), (22, 1237), (26, 1207), (33, 1111), (Start: 34 @1102 has 15 MA's), (36, 1072), (37, 1045), (41, 994), (44, 973), (46, 970), (49, 943), (60, 868), (61, 862),

Gene: RubyRalph_2 Start: 1080, Stop: 841, Start Num: 34

Candidate Starts for RubyRalph_2:

(10, 1230), (16, 1173), (Start: 34 @1080 has 15 MA's), (35, 1071), (36, 1050), (52, 909), (58, 873), (62, 861), (65, 852),

Gene: SadLad_3 Start: 1311, Stop: 1072, Start Num: 34

Candidate Starts for SadLad_3:

(10, 1542), (15, 1488), (28, 1377), (31, 1338), (Start: 34 @1311 has 15 MA's), (35, 1302), (36, 1281), (52, 1140), (55, 1119), (63, 1089), (64, 1086),

Gene: Squash_4 Start: 1432, Stop: 1184, Start Num: 34

Candidate Starts for Squash_4:

(14, 1597), (21, 1555), (29, 1483), (Start: 34 @1432 has 15 MA's), (35, 1423), (36, 1402), (56, 1222), (57, 1219), (63, 1201), (64, 1198), (65, 1195),

Gene: Squash_5 Start: 1671, Stop: 1429, Start Num: 66

Candidate Starts for Squash_5:

(11, 2142), (38, 1869), (39, 1842), (40, 1824), (42, 1812), (43, 1806), (45, 1800), (53, 1734), (54, 1725), (Start: 66 @1671 has 1 MA's), (68, 1641), (73, 1458),

Gene: Zagie_6 Start: 2057, Stop: 1818, Start Num: 34

Candidate Starts for Zagie_6:

(23, 2180), (Start: 34 @2057 has 15 MA's), (35, 2048), (36, 2027), (47, 1919), (49, 1907),