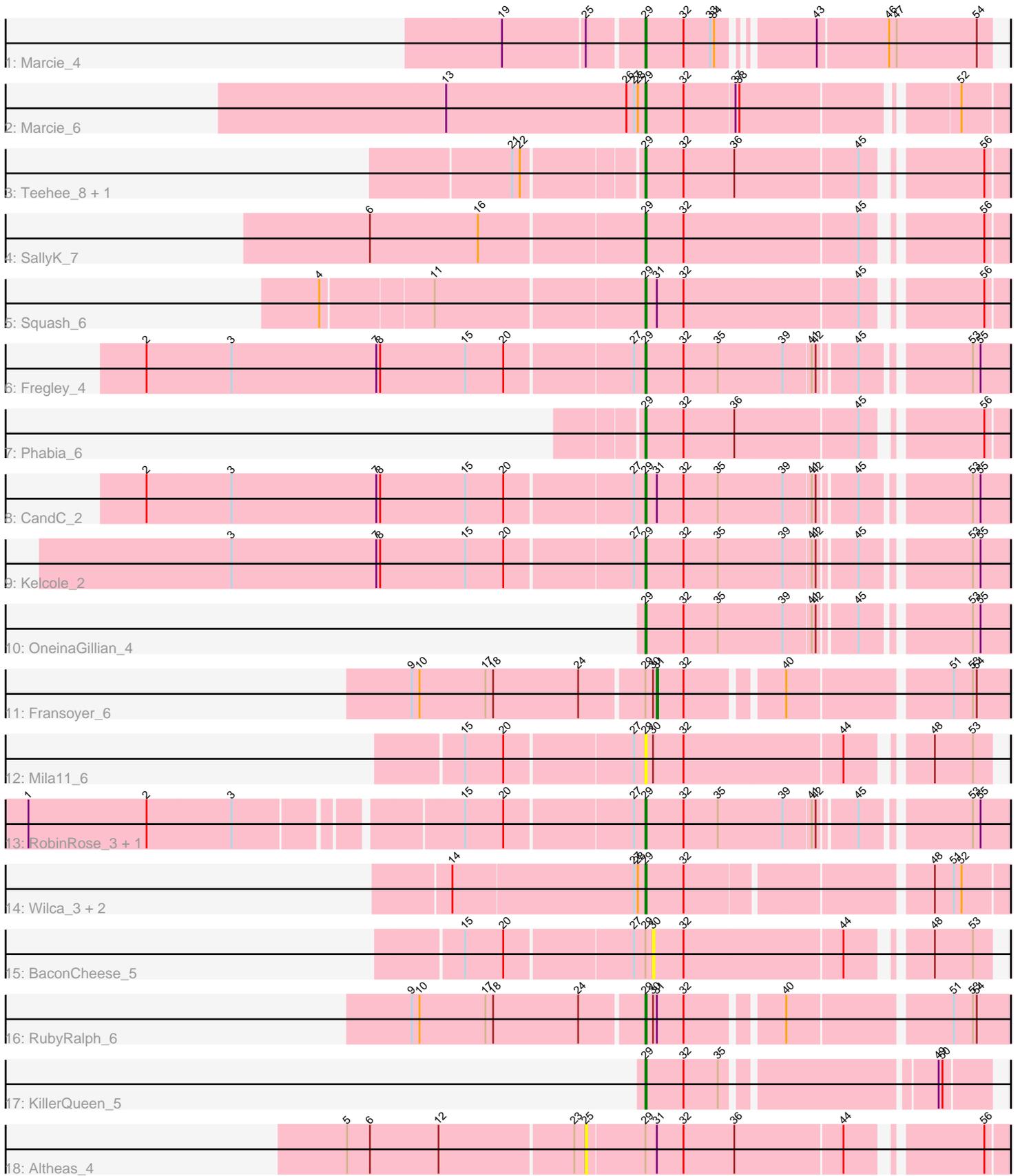


Pham 284168



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 284168 Report

This analysis was run 02/23/26 on database version 636.

Pham number 284168 has 22 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Marcie_4
- Track 2 : Marcie_6
- Track 3 : Teehee_8, Jehoshaphat_8
- Track 4 : SallyK_7
- Track 5 : Squash_6
- Track 6 : Fregley_4
- Track 7 : Phabia_6
- Track 8 : CandC_2
- Track 9 : Kelcole_2
- Track 10 : OneinaGillian_4
- Track 11 : Fransoyer_6
- Track 12 : Mila11_6
- Track 13 : RobinRose_3, Romm_2
- Track 14 : Wilca_3, BirdInFrench_3, Pepe25_2
- Track 15 : BaconCheese_5
- Track 16 : RubyRalph_6
- Track 17 : KillerQueen_5
- Track 18 : Altheas_4

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

The start number called the most often in the published annotations is 29, it was called in 17 of the 18 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BirdInFrench_3, CandC_2, Fregley_4, Jehoshaphat_8, Kelcole_2, KillerQueen_5, Marcie_4, Marcie_6, Mila11_6, OneinaGillian_4, Pepe25_2, Phabia_6, RobinRose_3, Romm_2, RubyRalph_6, SallyK_7, Squash_6, Teehee_8, Wilca_3,

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

- Altheas_4, BaconCheese_5, Fransoyer_6,

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

-

Summary by start number:

Start 25:

- Found in 2 of 22 (9.1%) 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 29:

- Found in 22 of 22 (100.0%) of genes in pham
- Manual Annotations of this start: 17 of 18
- Called 86.4% of time when present
- Phage (with cluster) where this start called: BirdInFrench_3 (EG), CandC_2 (EG), Fregley_4 (EG), Jehoshaphat_8 (EG), Kelcole_2 (EG), KillerQueen_5 (EG), Marcie_4 (EG), Marcie_6 (EG), Mila11_6 (EG), OneinaGillian_4 (EG), Pepe25_2 (EG), Phabia_6 (EG), RobinRose_3 (EG), Romm_2 (EG), RubyRalph_6 (EG), SallyK_7 (EG), Squash_6 (EG), Teehee_8 (EG), Wilca_3 (EG),

Start 30:

- Found in 4 of 22 (18.2%) of genes in pham
- No Manual Annotations of this start.
- Called 25.0% of time when present
- Phage (with cluster) where this start called: BaconCheese_5 (EG),

Start 31:

- Found in 5 of 22 (22.7%) of genes in pham
- Manual Annotations of this start: 1 of 18
- Called 20.0% of time when present
- Phage (with cluster) where this start called: Fransoyer_6 (EG),

Summary by clusters:

There is one cluster represented in this pham: EG

Info for manual annotations of cluster EG:

- Start number 29 was manually annotated 17 times for cluster EG.
- Start number 31 was manually annotated 1 time for cluster EG.

Gene Information:

Gene: Altheas_4 Start: 1637, Stop: 1335, Start Num: 25

Candidate Starts for Altheas_4:

(5, 1820), (6, 1802), (12, 1748), (23, 1646), (25, 1637), (Start: 29 @1592 has 17 MA's), (Start: 31 @1583 has 1 MA's), (32, 1562), (36, 1523), (44, 1442), (56, 1352),

Gene: BaconCheese_5 Start: 1813, Stop: 1574, Start Num: 30

Candidate Starts for BaconCheese_5:

(15, 1954), (20, 1924), (27, 1828), (Start: 29 @1819 has 17 MA's), (30, 1813), (32, 1789), (44, 1669), (48, 1618), (53, 1588),

Gene: BirdInFrench_3 Start: 1383, Stop: 1120, Start Num: 29

Candidate Starts for BirdInFrench_3:

(14, 1533), (27, 1392), (28, 1389), (Start: 29 @1383 has 17 MA's), (32, 1353), (48, 1176), (51, 1161), (52, 1155),

Gene: CandC_2 Start: 1102, Stop: 839, Start Num: 29

Candidate Starts for CandC_2:

(2, 1486), (3, 1420), (7, 1306), (8, 1303), (15, 1237), (20, 1207), (27, 1111), (Start: 29 @1102 has 17 MA's), (Start: 31 @1093 has 1 MA's), (32, 1072), (35, 1045), (39, 994), (41, 973), (42, 970), (45, 943), (53, 868), (55, 862),

Gene: Fransoyer_6 Start: 2120, Stop: 1869, Start Num: 31

Candidate Starts for Fransoyer_6:

(9, 2306), (10, 2300), (17, 2249), (18, 2243), (24, 2177), (Start: 29 @2129 has 17 MA's), (30, 2123), (Start: 31 @2120 has 1 MA's), (32, 2099), (40, 2033), (51, 1913), (53, 1898), (54, 1895),

Gene: Fregley_4 Start: 1640, Stop: 1377, Start Num: 29

Candidate Starts for Fregley_4:

(2, 2024), (3, 1958), (7, 1844), (8, 1841), (15, 1775), (20, 1745), (27, 1649), (Start: 29 @1640 has 17 MA's), (32, 1610), (35, 1583), (39, 1532), (41, 1511), (42, 1508), (45, 1481), (53, 1406), (55, 1400),

Gene: Jehoshaphat_8 Start: 2791, Stop: 2534, Start Num: 29

Candidate Starts for Jehoshaphat_8:

(21, 2881), (22, 2875), (Start: 29 @2791 has 17 MA's), (32, 2761), (36, 2722), (45, 2629), (56, 2551),

Gene: Kelcole_2 Start: 1102, Stop: 839, Start Num: 29

Candidate Starts for Kelcole_2:

(3, 1420), (7, 1306), (8, 1303), (15, 1237), (20, 1207), (27, 1111), (Start: 29 @1102 has 17 MA's), (32, 1072), (35, 1045), (39, 994), (41, 973), (42, 970), (45, 943), (53, 868), (55, 862),

Gene: KillerQueen_5 Start: 1627, Stop: 1382, Start Num: 29

Candidate Starts for KillerQueen_5:

(Start: 29 @1627 has 17 MA's), (32, 1597), (35, 1570), (49, 1420), (50, 1417),

Gene: Marcie_4 Start: 1305, Stop: 1057, Start Num: 29

Candidate Starts for Marcie_4:

(19, 1410), (25, 1347), (Start: 29 @1305 has 17 MA's), (32, 1275), (33, 1254), (34, 1251), (43, 1191), (46, 1137), (47, 1131), (54, 1068),

Gene: Marcie_6 Start: 1750, Stop: 1493, Start Num: 29

Candidate Starts for Marcie_6:

(13, 1906), (26, 1765), (27, 1759), (28, 1756), (Start: 29 @1750 has 17 MA's), (32, 1720), (37, 1681), (38, 1678), (52, 1528),

Gene: Mila11_6 Start: 1804, Stop: 1559, Start Num: 29

Candidate Starts for Mila11_6:

(15, 1939), (20, 1909), (27, 1813), (Start: 29 @1804 has 17 MA's), (30, 1798), (32, 1774), (44, 1654), (48, 1603), (53, 1573),

Gene: OneinaGillian_4 Start: 1454, Stop: 1191, Start Num: 29

Candidate Starts for OneinaGillian_4:

(Start: 29 @1454 has 17 MA's), (32, 1424), (35, 1397), (39, 1346), (41, 1325), (42, 1322), (45, 1295), (53, 1220), (55, 1214),

Gene: Pepe25_2 Start: 1383, Stop: 1120, Start Num: 29

Candidate Starts for Pepe25_2:

(14, 1533), (27, 1392), (28, 1389), (Start: 29 @1383 has 17 MA's), (32, 1353), (48, 1176), (51, 1161), (52, 1155),

Gene: Phabia_6 Start: 1993, Stop: 1736, Start Num: 29

Candidate Starts for Phabia_6:

(Start: 29 @1993 has 17 MA's), (32, 1963), (36, 1924), (45, 1831), (56, 1753),

Gene: RobinRose_3 Start: 1102, Stop: 839, Start Num: 29

Candidate Starts for RobinRose_3:

(1, 1555), (2, 1462), (3, 1396), (15, 1237), (20, 1207), (27, 1111), (Start: 29 @1102 has 17 MA's), (32, 1072), (35, 1045), (39, 994), (41, 973), (42, 970), (45, 943), (53, 868), (55, 862),

Gene: Romm_2 Start: 1102, Stop: 839, Start Num: 29

Candidate Starts for Romm_2:

(1, 1555), (2, 1462), (3, 1396), (15, 1237), (20, 1207), (27, 1111), (Start: 29 @1102 has 17 MA's), (32, 1072), (35, 1045), (39, 994), (41, 973), (42, 970), (45, 943), (53, 868), (55, 862),

Gene: RubyRalph_6 Start: 2129, Stop: 1869, Start Num: 29

Candidate Starts for RubyRalph_6:

(9, 2306), (10, 2300), (17, 2249), (18, 2243), (24, 2177), (Start: 29 @2129 has 17 MA's), (30, 2123), (Start: 31 @2120 has 1 MA's), (32, 2099), (40, 2033), (51, 1913), (53, 1898), (54, 1895),

Gene: SallyK_7 Start: 2695, Stop: 2438, Start Num: 29

Candidate Starts for SallyK_7:

(6, 2902), (16, 2818), (Start: 29 @2695 has 17 MA's), (32, 2665), (45, 2533), (56, 2455),

Gene: Squash_6 Start: 1928, Stop: 1671, Start Num: 29

Candidate Starts for Squash_6:

(4, 2171), (11, 2087), (Start: 29 @1928 has 17 MA's), (Start: 31 @1919 has 1 MA's), (32, 1898), (45, 1766), (56, 1688),

Gene: Teehee_8 Start: 2791, Stop: 2534, Start Num: 29

Candidate Starts for Teehee_8:

(21, 2881), (22, 2875), (Start: 29 @2791 has 17 MA's), (32, 2761), (36, 2722), (45, 2629), (56, 2551),

Gene: Wilca_3 Start: 1383, Stop: 1120, Start Num: 29

Candidate Starts for Wilca_3:

(14, 1533), (27, 1392), (28, 1389), (Start: 29 @1383 has 17 MA's), (32, 1353), (48, 1176), (51, 1161), (52, 1155),