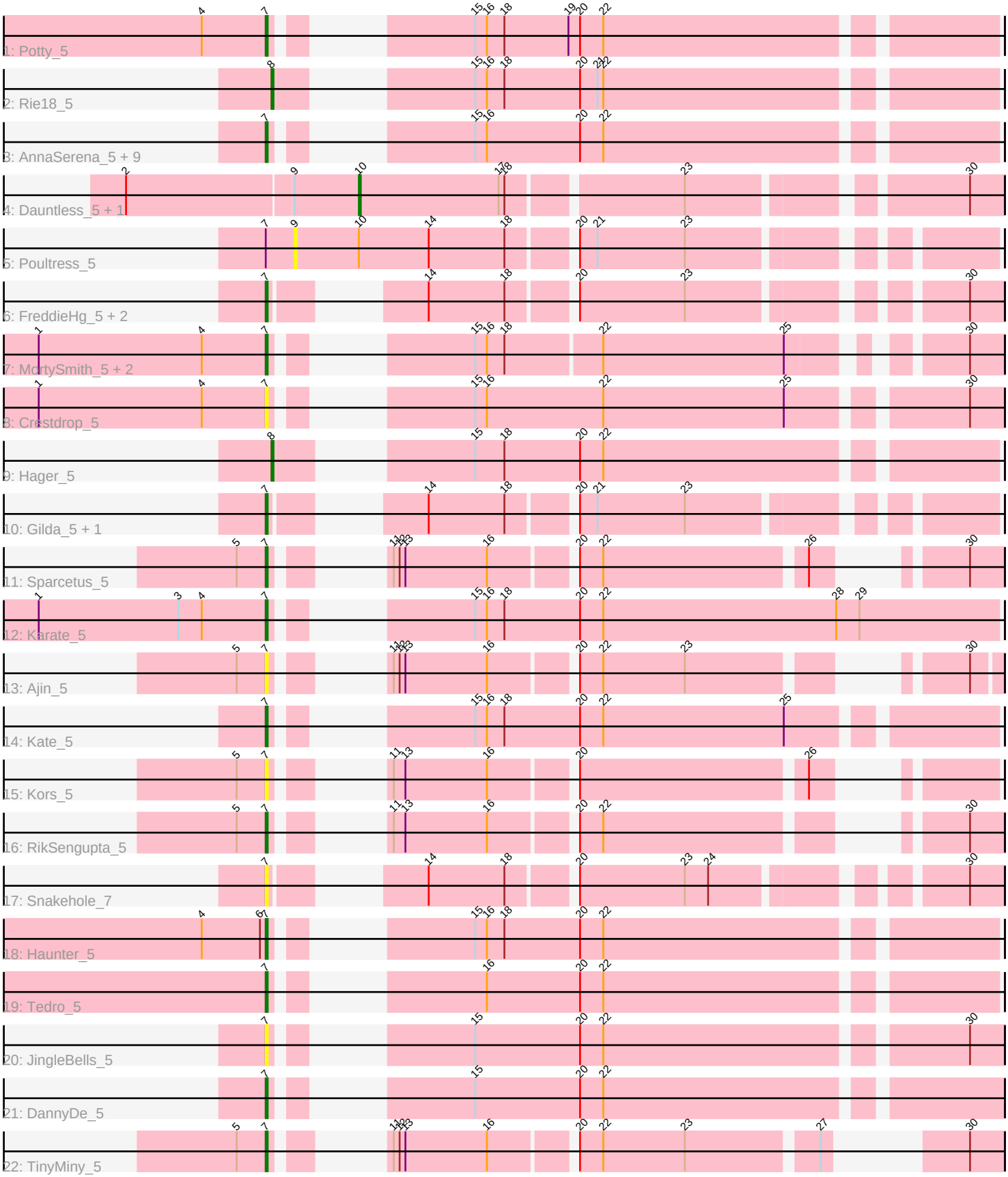
Pham 3156


1: Potty_5
2: Rie18_5
3: AnnaSerena_5 + 9
4: Dauntless_5 + 1
5: Poultress_5
6: FreddieHg_5 + 2
7: MortySmith_5 + 2
8: Crestdrop_5
9: Hager_5
10: Gilda_5 + 1
11: Sparcetus_5
12: Karate_5
13: Ajin_5
14: Kate_5
15: Kors_5
16: RikSengupta_5
17: Snakehole_7
18: Haunter_5
19: Tedro_5
20: JingleBells_5
21: DannyDe_5
22: TinyMiny_5

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 3156 Report

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

Pham number 3156 has 37 members, 10 are drafts.

Phages represented in each track:
• Track 1 : Potty_5
• Track 2 : Rie18_5
• Track 3 : AnnaSerena_5, PhunaPhoke_5, Cybele_5, CoolCookie_6, NarutoRun_5, Krampus_5, Rachella_5, Pharpay_5, Anakin_5, Neptune_5
• Track 4 : Dauntless_5, Erudite_5
• Track 5 : Poultress_5
• Track 6 : FreddieHg_5, Chivey_5, Hiddenleaf_5
• Track 7 : MortySmith_5, JDawG_6, Aesir_5
• Track 8 : Crestdrop_5
• Track 9 : Hager_5
• Track 10 : Gilda_5, OverHedge_5
• Track 11 : Sparcetus_5
• Track 12 : Karate_5
• Track 13 : Ajin_5
• Track 14 : Kate_5
• Track 15 : Kors_5
• Track 16 : RikSengupta_5
• Track 17 : Snakehole_7
• Track 18 : Haunter_5
• Track 19 : Tedro_5
• Track 20 : JingleBells_5
• Track 21 : DannyDe_5
• Track 22 : TinyMiny_5

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

The start number called the most often in the published annotations is 7, it was called in 24 of the 27 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Aesir_5, Ajin_5, Anakin_5, AnnaSerena_5, Chivey_5, CoolCookie_6, Crestdrop_5, Cybele_5, DannyDe_5, FreddieHg_5, Gilda_5, Haunter_5, Hiddenleaf_5, JDawG_6, JingleBells_5, Karate_5, Kate_5, Kors_5, Krampus_5, MortySmith_5, NarutoRun_5, Neptune_5, OverHedge_5, Pharpay_5, PhunaPhoke_5, Potty_5, Rachella_5,

RikSengupta_5, Snakehole_7, Sparcetus_5, Tedro_5, TinyMiny_5,

Genes that have the "Most Annotated" start but do not call it:
• Poultress_5,

Genes that do not have the "Most Annotated" start:
• Dauntless_5, Erudite_5, Hager_5, Rie18_5,

Summary by start number:

Start 7:
• Found in 33 of 37 (89.2%) of genes in pham
• Manual Annotations of this start: 24 of 27
• Called 97.0% of time when present
• Phage (with cluster) where this start called: Aesir_5 (EF), Ajin_5 (EF), Anakin_5 (EF), AnnaSerena_5 (EF), Chivey_5 (EF), CoolCookie_6 (EF), Crestdrop_5 (EF), Cybele_5 (EF), DannyDe_5 (EF), FreddieHg_5 (EF), Gilda_5 (EF), Haunter_5 (EF), Hiddenleaf_5 (EF), JDawG_6 (EF), JingleBells_5 (EF), Karate_5 (EF), Kate_5 (EF), Kors_5 (EF), Krampus_5 (EF), MortySmith_5 (EF), NarutoRun_5 (EF), Neptune_5 (EF), OverHedge_5 (EF), Pharpay_5 (EF), PhunaPhoke_5 (EF), Potty_5 (EF), Rachella_5 (EF), RikSengupta_5 (EF), Snakehole_7 (EF), Sparcetus_5 (EF), Tedro_5 (EF), TinyMiny_5 (EF),

Start 8:
• Found in 2 of 37 (5.4%) of genes in pham
• Manual Annotations of this start: 2 of 27
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Hager_5 (EF), Rie18_5 (EF),

Start 9:
• Found in 3 of 37 (8.1%) of genes in pham
• No Manual Annotations of this start.
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Poultress_5 (EF),

Start 10:
• Found in 3 of 37 (8.1%) of genes in pham
• Manual Annotations of this start: 1 of 27
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Dauntless_5 (EF), Erudite_5 (EF),

Summary by clusters:

There is one cluster represented in this pham: EF

Info for manual annotations of cluster EF:
•Start number 7 was manually annotated 24 times for cluster EF.
•Start number 8 was manually annotated 2 times for cluster EF.
•Start number 10 was manually annotated 1 time for cluster EF.

Gene Information:

Gene: Aesir_5 Start: 1723, Stop: 2025, Start Num: 7
Candidate Starts for Aesir_5:
(1, 1606), (4, 1690), (Start: 7 @1723 has 24 MA's), (15, 1783), (16, 1789), (18, 1798), (22, 1846), (25, 1939), (30, 2008),

Gene: Ajin_5 Start: 1671, Stop: 1946, Start Num: 7
Candidate Starts for Ajin_5:
(5, 1656), (Start: 7 @1671 has 24 MA's), (11, 1692), (12, 1695), (13, 1698), (16, 1740), (20, 1779), (22, 1791), (23, 1833), (30, 1932),

Gene: Anakin_5 Start: 1681, Stop: 1995, Start Num: 7
Candidate Starts for Anakin_5:
(Start: 7 @1681 has 24 MA's), (15, 1741), (16, 1747), (20, 1795), (22, 1807),

Gene: AnnaSerena_5 Start: 1678, Stop: 1992, Start Num: 7
Candidate Starts for AnnaSerena_5:
(Start: 7 @1678 has 24 MA's), (15, 1738), (16, 1744), (20, 1792), (22, 1804),

Gene: Chivey_5 Start: 1646, Stop: 1951, Start Num: 7
Candidate Starts for Chivey_5:
(Start: 7 @1646 has 24 MA's), (14, 1691), (18, 1730), (20, 1760), (23, 1814), (30, 1934),

Gene: CoolCookie_6 Start: 1660, Stop: 1974, Start Num: 7
Candidate Starts for CoolCookie_6:
(Start: 7 @1660 has 24 MA's), (15, 1720), (16, 1726), (20, 1774), (22, 1786),

Gene: Crestdrop_5 Start: 1649, Stop: 1966, Start Num: 7
Candidate Starts for Crestdrop_5:
(1, 1532), (4, 1616), (Start: 7 @1649 has 24 MA's), (15, 1709), (16, 1715), (22, 1775), (25, 1868), (30, 1949),

Gene: Cybele_5 Start: 1646, Stop: 1960, Start Num: 7
Candidate Starts for Cybele_5:
(Start: 7 @1646 has 24 MA's), (15, 1706), (16, 1712), (20, 1760), (22, 1772),

Gene: DannyDe_5 Start: 1649, Stop: 1966, Start Num: 7
Candidate Starts for DannyDe_5:
(Start: 7 @1649 has 24 MA's), (15, 1709), (20, 1763), (22, 1775),

Gene: Dauntless_5 Start: 1652, Stop: 1954, Start Num: 10
Candidate Starts for Dauntless_5:
(2, 1535), (9, 1619), (Start: 10 @1652 has 1 MA's), (17, 1724), (18, 1727), (23, 1811), (30, 1937),

Gene: Erudite_5 Start: 1652, Stop: 1954, Start Num: 10
Candidate Starts for Erudite_5:
(2, 1535), (9, 1619), (Start: 10 @1652 has 1 MA's), (17, 1724), (18, 1727), (23, 1811), (30, 1937),

Gene: FreddieHg_5 Start: 1646, Stop: 1951, Start Num: 7
Candidate Starts for FreddieHg_5:
(Start: 7 @1646 has 24 MA's), (14, 1691), (18, 1730), (20, 1760), (23, 1814), (30, 1934),

Gene: Gilda_5 Start: 1669, Stop: 1971, Start Num: 7
Candidate Starts for Gilda_5:

(Start: 7 @1669 has 24 MA's), (14, 1714), (18, 1753), (20, 1783), (21, 1792), (23, 1837),

Gene: Hager_5 Start: 1657, Stop: 1977, Start Num: 8
Candidate Starts for Hager_5:
(Start: 8 @1657 has 2 MA's), (15, 1723), (18, 1738), (20, 1777), (22, 1789),

Gene: Haunter_5 Start: 1631, Stop: 1945, Start Num: 7
Candidate Starts for Haunter_5:
(4, 1598), (6, 1628), (Start: 7 @1631 has 24 MA's), (15, 1691), (16, 1697), (18, 1706), (20, 1745), (22, 1757),

Gene: Hiddenleaf_5 Start: 1646, Stop: 1951, Start Num: 7
Candidate Starts for Hiddenleaf_5:
(Start: 7 @1646 has 24 MA's), (14, 1691), (18, 1730), (20, 1760), (23, 1814), (30, 1934),

Gene: JDawG_6 Start: 1717, Stop: 2019, Start Num: 7
Candidate Starts for JDawG_6:
(1, 1600), (4, 1684), (Start: 7 @1717 has 24 MA's), (15, 1777), (16, 1783), (18, 1792), (22, 1840), (25, 1933), (30, 2002),

Gene: JingleBells_5 Start: 1703, Stop: 2020, Start Num: 7
Candidate Starts for JingleBells_5:
(Start: 7 @1703 has 24 MA's), (15, 1763), (20, 1817), (22, 1829), (30, 2003),

Gene: Karate_5 Start: 1652, Stop: 1981, Start Num: 7
Candidate Starts for Karate_5:
(1, 1535), (3, 1607), (4, 1619), (Start: 7 @1652 has 24 MA's), (15, 1712), (16, 1718), (18, 1727), (20, 1766), (22, 1778), (28, 1898), (29, 1910),

Gene: Kate_5 Start: 1678, Stop: 1992, Start Num: 7
Candidate Starts for Kate_5:
(Start: 7 @1678 has 24 MA's), (15, 1738), (16, 1744), (18, 1753), (20, 1792), (22, 1804), (25, 1897),

Gene: Kors_5 Start: 1747, Stop: 2022, Start Num: 7
Candidate Starts for Kors_5:
(5, 1732), (Start: 7 @1747 has 24 MA's), (11, 1768), (13, 1774), (16, 1816), (20, 1855), (26, 1966),

Gene: Krampus_5 Start: 1663, Stop: 1977, Start Num: 7
Candidate Starts for Krampus_5:
(Start: 7 @1663 has 24 MA's), (15, 1723), (16, 1729), (20, 1777), (22, 1789),

Gene: MortySmith_5 Start: 1634, Stop: 1936, Start Num: 7
Candidate Starts for MortySmith_5:
(1, 1517), (4, 1601), (Start: 7 @1634 has 24 MA's), (15, 1694), (16, 1700), (18, 1709), (22, 1757), (25, 1850), (30, 1919),

Gene: NarutoRun_5 Start: 1681, Stop: 1995, Start Num: 7
Candidate Starts for NarutoRun_5:
(Start: 7 @1681 has 24 MA's), (15, 1741), (16, 1747), (20, 1795), (22, 1807),

Gene: Neptune_5 Start: 1646, Stop: 1960, Start Num: 7
Candidate Starts for Neptune_5:
(Start: 7 @1646 has 24 MA's), (15, 1706), (16, 1712), (20, 1760), (22, 1772),

Gene: OverHedge_5 Start: 1655, Stop: 1957, Start Num: 7
Candidate Starts for OverHedge_5:
(Start: 7 @1655 has 24 MA's), (14, 1700), (18, 1739), (20, 1769), (21, 1778), (23, 1823),

Gene: Pharpay_5 Start: 1678, Stop: 1992, Start Num: 7
Candidate Starts for Pharpay_5:
(Start: 7 @1678 has 24 MA's), (15, 1738), (16, 1744), (20, 1792), (22, 1804),

Gene: PhunaPhoke_5 Start: 1664, Stop: 1978, Start Num: 7
Candidate Starts for PhunaPhoke_5:
(Start: 7 @1664 has 24 MA's), (15, 1724), (16, 1730), (20, 1778), (22, 1790),

Gene: Potty_5 Start: 1669, Stop: 1983, Start Num: 7
Candidate Starts for Potty_5:
(4, 1636), (Start: 7 @1669 has 24 MA's), (15, 1729), (16, 1735), (18, 1744), (19, 1777), (20, 1783), (22, 1795),

Gene: Poultress_5 Start: 1664, Stop: 1990, Start Num: 9
Candidate Starts for Poultress_5:
(Start: 7 @1649 has 24 MA's), (9, 1664), (Start: 10 @1697 has 1 MA's), (14, 1733), (18, 1772), (20, 1802), (21, 1811), (23, 1856),

Gene: Rachella_5 Start: 1675, Stop: 1989, Start Num: 7
Candidate Starts for Rachella_5:
(Start: 7 @1675 has 24 MA's), (15, 1735), (16, 1741), (20, 1789), (22, 1801),

Gene: Rie18_5 Start: 1658, Stop: 1975, Start Num: 8
Candidate Starts for Rie18_5:
(Start: 8 @1658 has 2 MA's), (15, 1721), (16, 1727), (18, 1736), (20, 1775), (21, 1784), (22, 1787),

Gene: RikSengupta_5 Start: 1659, Stop: 1937, Start Num: 7
Candidate Starts for RikSengupta_5:
(5, 1644), (Start: 7 @1659 has 24 MA's), (11, 1680), (13, 1686), (16, 1728), (20, 1767), (22, 1779), (30, 1920),

Gene: Snakehole_7 Start: 1741, Stop: 2046, Start Num: 7
Candidate Starts for Snakehole_7:
(Start: 7 @1741 has 24 MA's), (14, 1786), (18, 1825), (20, 1855), (23, 1909), (24, 1921), (30, 2029),

Gene: Sparcetus_5 Start: 1641, Stop: 1919, Start Num: 7
Candidate Starts for Sparcetus_5:
(5, 1626), (Start: 7 @1641 has 24 MA's), (11, 1662), (12, 1665), (13, 1668), (16, 1710), (20, 1749), (22, 1761), (26, 1860), (30, 1902),

Gene: Tedro_5 Start: 1675, Stop: 1989, Start Num: 7
Candidate Starts for Tedro_5:
(Start: 7 @1675 has 24 MA's), (16, 1741), (20, 1789), (22, 1801),

Gene: TinyMiny_5 Start: 1671, Stop: 1943, Start Num: 7
Candidate Starts for TinyMiny_5:
(5, 1656), (Start: 7 @1671 has 24 MA's), (11, 1692), (12, 1695), (13, 1698), (16, 1740), (20, 1779), (22, 1791), (23, 1833), (27, 1896), (30, 1926),