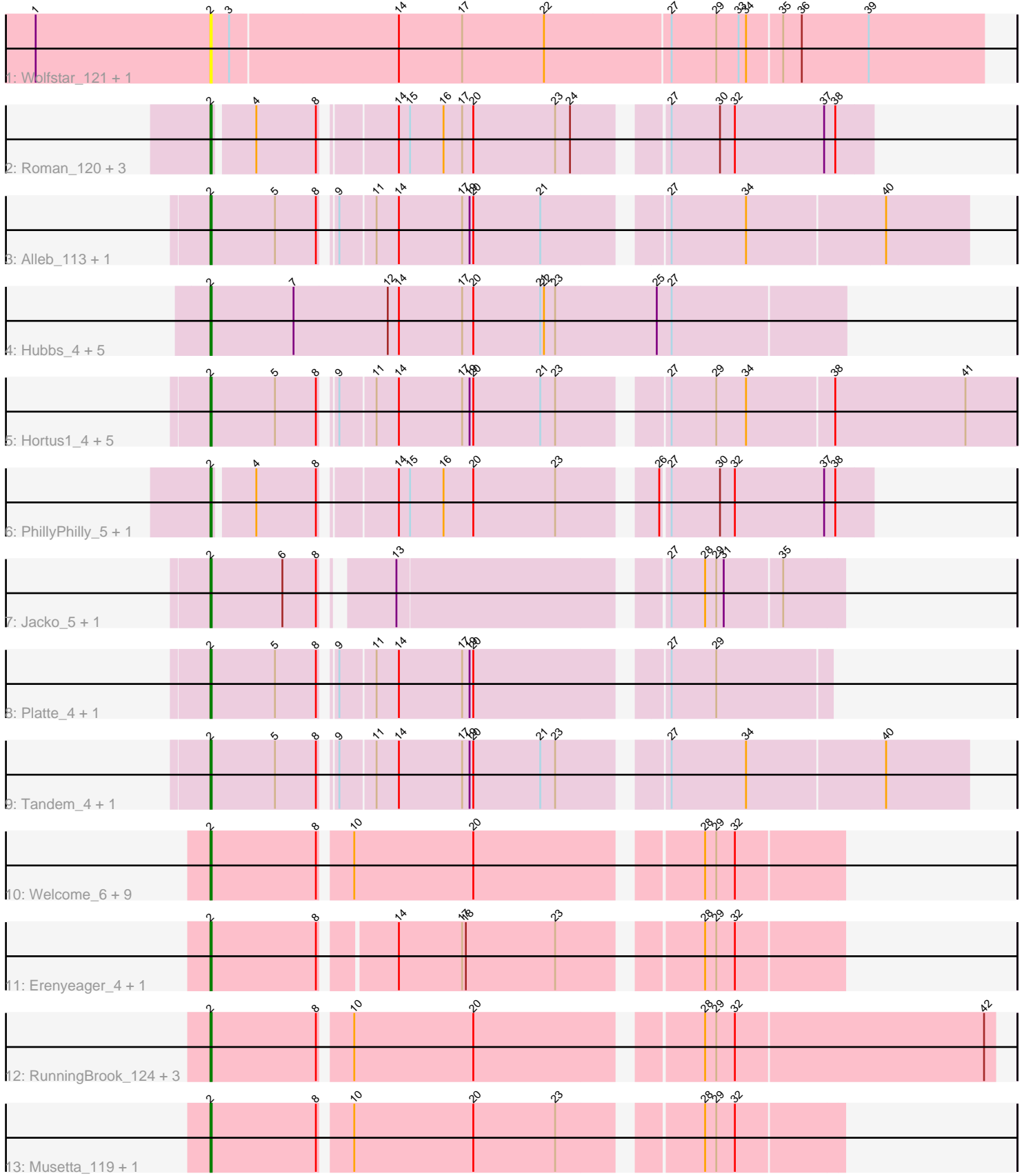


Pham 2335



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 2335 Report

This analysis was run 07/09/24 on database version 566.

WARNING: Pham size does not match number of genes in report. Either unphamerated genes have been added (by you) or starterator has removed genes due to invalid start codon.

Pham number 2335 has 46 members, 6 are drafts.

Phages represented in each track:

- Track 1 : Wolfstar_121, Wolfstar_5
- Track 2 : Roman_120, DejaVu_4, DejaVu_120, Roman_4
- Track 3 : Alleb_113, Alleb_5
- Track 4 : Hubbs_4, Pavlo_116, Lupine_114, Hubbs_118, Lupine_4, Pavlo_4
- Track 5 : Hortus1_4, Pioneer3_4, OlinDD_115, Hortus1_115, OlinDD_4, Pioneer3_115
- Track 6 : PhillyPhilly_5, PhillyPhilly_115
- Track 7 : Jacko_5, Jacko_114
- Track 8 : Platte_4, Platte_114
- Track 9 : Tandem_4, Tandem_115
- Track 10 : Welcome_6, ASegato_6, StevieWelch_6, Necrophoxinus_6, ASegato_120, Yuma_119, Welcome_123, Necrophoxinus_122, StevieWelch_124, Yuma_6
- Track 11 : Erenyeager_4, Erenyeager_119
- Track 12 : RunningBrook_124, DustyDino_6, RunningBrook_6, DustyDino_124
- Track 13 : Musetta_119, Musetta_6

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

The start number called the most often in the published annotations is 2, it was called in 40 of the 40 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- ASegato_120, ASegato_6, Alleb_113, Alleb_5, DejaVu_120, DejaVu_4, DustyDino_124, DustyDino_6, Erenyeager_119, Erenyeager_4, Hortus1_115, Hortus1_4, Hubbs_118, Hubbs_4, Jacko_114, Jacko_5, Lupine_114, Lupine_4, Musetta_119, Musetta_6, Necrophoxinus_122, Necrophoxinus_6, OlinDD_115, OlinDD_4, Pavlo_116, Pavlo_4, PhillyPhilly_115, PhillyPhilly_5, Pioneer3_115, Pioneer3_4, Platte_114, Platte_4, Roman_120, Roman_4, RunningBrook_124, RunningBrook_6, StevieWelch_124, StevieWelch_6, Tandem_115, Tandem_4,

Welcome_123, Welcome_6, Wolfstar_121, Wolfstar_5, Yuma_119, Yuma_6,

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 2:

- Found in 46 of 46 (100.0%) of genes in pham
- Manual Annotations of this start: 40 of 40
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ASegato_120 (ED2), ASegato_6 (ED2), Alleb_113 (ED1), Alleb_5 (ED1), DejaVu_120 (ED1), DejaVu_4 (ED1), DustyDino_124 (ED2), DustyDino_6 (ED2), Erenyeager_119 (ED2), Erenyeager_4 (ED2), Hortus1_115 (ED1), Hortus1_4 (ED1), Hubbs_118 (ED1), Hubbs_4 (ED1), Jacko_114 (ED1), Jacko_5 (ED1), Lupine_114 (ED1), Lupine_4 (ED1), Musetta_119 (ED2), Musetta_6 (ED2), Necrophoxinus_122 (ED2), Necrophoxinus_6 (ED2), OlinDD_115 (ED1), OlinDD_4 (ED1), Pavlo_116 (ED1), Pavlo_4 (ED1), PhillyPhilly_115 (ED1), PhillyPhilly_5 (ED1), Pioneer3_115 (ED1), Pioneer3_4 (ED1), Platte_114 (ED1), Platte_4 (ED1), Roman_120 (ED1), Roman_4 (ED1), RunningBrook_124 (ED2), RunningBrook_6 (ED2), StevieWelch_124 (ED2), StevieWelch_6 (ED2), Tandem_115 (ED1), Tandem_4 (ED1), Welcome_123 (ED2), Welcome_6 (ED2), Wolfstar_121 (ED), Wolfstar_5 (ED), Yuma_119 (ED2), Yuma_6 (ED2),

Summary by clusters:

There are 3 clusters represented in this pham: ED2, ED, ED1,

Info for manual annotations of cluster ED1:

- Start number 2 was manually annotated 26 times for cluster ED1.

Info for manual annotations of cluster ED2:

- Start number 2 was manually annotated 14 times for cluster ED2.

Gene Information:

Gene: ASegato_6 Start: 2189, Stop: 1716, Start Num: 2

Candidate Starts for ASegato_6:

(Start: 2 @2189 has 40 MA's), (8, 2105), (10, 2084), (20, 1988), (28, 1823), (29, 1814), (32, 1799),

Gene: ASegato_120 Start: 61638, Stop: 61165, Start Num: 2

Candidate Starts for ASegato_120:

(Start: 2 @61638 has 40 MA's), (8, 61554), (10, 61533), (20, 61437), (28, 61272), (29, 61263), (32, 61248),

Gene: Alleb_113 Start: 61471, Stop: 60905, Start Num: 2

Candidate Starts for Alleb_113:

(Start: 2 @61471 has 40 MA's), (5, 61420), (8, 61387), (9, 61381), (11, 61354), (14, 61336), (17, 61285), (19, 61279), (20, 61276), (21, 61222), (27, 61138), (34, 61078), (40, 60970),

Gene: Alleb_5 Start: 1992, Stop: 1426, Start Num: 2

Candidate Starts for Alleb_5:

(Start: 2 @1992 has 40 MA's), (5, 1941), (8, 1908), (9, 1902), (11, 1875), (14, 1857), (17, 1806), (19, 1800), (20, 1797), (21, 1743), (27, 1659), (34, 1599), (40, 1491),

Gene: DejaVu_4 Start: 1730, Stop: 1242, Start Num: 2

Candidate Starts for DejaVu_4:

(Start: 2 @1730 has 40 MA's), (4, 1700), (8, 1652), (14, 1601), (15, 1592), (16, 1565), (17, 1550), (20, 1541), (23, 1475), (24, 1463), (27, 1403), (30, 1364), (32, 1352), (37, 1280), (38, 1271),

Gene: DejaVu_120 Start: 62110, Stop: 61622, Start Num: 2

Candidate Starts for DejaVu_120:

(Start: 2 @62110 has 40 MA's), (4, 62080), (8, 62032), (14, 61981), (15, 61972), (16, 61945), (17, 61930), (20, 61921), (23, 61855), (24, 61843), (27, 61783), (30, 61744), (32, 61732), (37, 61660), (38, 61651),

Gene: DustyDino_6 Start: 2225, Stop: 1629, Start Num: 2

Candidate Starts for DustyDino_6:

(Start: 2 @2225 has 40 MA's), (8, 2141), (10, 2120), (20, 2024), (28, 1859), (29, 1850), (32, 1835), (42, 1637),

Gene: DustyDino_124 Start: 62315, Stop: 61719, Start Num: 2

Candidate Starts for DustyDino_124:

(Start: 2 @62315 has 40 MA's), (8, 62231), (10, 62210), (20, 62114), (28, 61949), (29, 61940), (32, 61925), (42, 61727),

Gene: Erenyeager_4 Start: 1986, Stop: 1519, Start Num: 2

Candidate Starts for Erenyeager_4:

(Start: 2 @1986 has 40 MA's), (8, 1902), (14, 1851), (17, 1800), (18, 1797), (23, 1725), (28, 1626), (29, 1617), (32, 1602),

Gene: Erenyeager_119 Start: 61647, Stop: 61180, Start Num: 2

Candidate Starts for Erenyeager_119:

(Start: 2 @61647 has 40 MA's), (8, 61563), (14, 61512), (17, 61461), (18, 61458), (23, 61386), (28, 61287), (29, 61278), (32, 61263),

Gene: Hortus1_4 Start: 1935, Stop: 1327, Start Num: 2

Candidate Starts for Hortus1_4:

(Start: 2 @1935 has 40 MA's), (5, 1884), (8, 1851), (9, 1845), (11, 1818), (14, 1800), (17, 1749), (19, 1743), (20, 1740), (21, 1686), (23, 1674), (27, 1602), (29, 1566), (34, 1542), (38, 1473), (41, 1368),

Gene: Hortus1_115 Start: 61895, Stop: 61287, Start Num: 2

Candidate Starts for Hortus1_115:

(Start: 2 @61895 has 40 MA's), (5, 61844), (8, 61811), (9, 61805), (11, 61778), (14, 61760), (17, 61709), (19, 61703), (20, 61700), (21, 61646), (23, 61634), (27, 61562), (29, 61526), (34, 61502), (38, 61433), (41, 61328),

Gene: Hubbs_4 Start: 1955, Stop: 1449, Start Num: 2

Candidate Starts for Hubbs_4:

(Start: 2 @1955 has 40 MA's), (7, 1889), (12, 1814), (14, 1805), (17, 1754), (20, 1745), (21, 1691), (22, 1688), (23, 1679), (25, 1598), (27, 1586),

Gene: Hubbs_118 Start: 62354, Stop: 61848, Start Num: 2

Candidate Starts for Hubbs_118:

(Start: 2 @62354 has 40 MA's), (7, 62288), (12, 62213), (14, 62204), (17, 62153), (20, 62144), (21, 62090), (22, 62087), (23, 62078), (25, 61997), (27, 61985),

Gene: Jacko_5 Start: 1824, Stop: 1366, Start Num: 2

Candidate Starts for Jacko_5:

(Start: 2 @1824 has 40 MA's), (6, 1767), (8, 1740), (13, 1698), (27, 1500), (28, 1473), (29, 1464), (31, 1458), (35, 1413),

Gene: Jacko_114 Start: 60217, Stop: 59759, Start Num: 2

Candidate Starts for Jacko_114:

(Start: 2 @60217 has 40 MA's), (6, 60160), (8, 60133), (13, 60091), (27, 59893), (28, 59866), (29, 59857), (31, 59851), (35, 59806),

Gene: Lupine_114 Start: 61034, Stop: 60528, Start Num: 2

Candidate Starts for Lupine_114:

(Start: 2 @61034 has 40 MA's), (7, 60968), (12, 60893), (14, 60884), (17, 60833), (20, 60824), (21, 60770), (22, 60767), (23, 60758), (25, 60677), (27, 60665),

Gene: Lupine_4 Start: 1761, Stop: 1255, Start Num: 2

Candidate Starts for Lupine_4:

(Start: 2 @1761 has 40 MA's), (7, 1695), (12, 1620), (14, 1611), (17, 1560), (20, 1551), (21, 1497), (22, 1494), (23, 1485), (25, 1404), (27, 1392),

Gene: Musetta_119 Start: 61995, Stop: 61522, Start Num: 2

Candidate Starts for Musetta_119:

(Start: 2 @61995 has 40 MA's), (8, 61911), (10, 61890), (20, 61794), (23, 61728), (28, 61629), (29, 61620), (32, 61605),

Gene: Musetta_6 Start: 2200, Stop: 1727, Start Num: 2

Candidate Starts for Musetta_6:

(Start: 2 @2200 has 40 MA's), (8, 2116), (10, 2095), (20, 1999), (23, 1933), (28, 1834), (29, 1825), (32, 1810),

Gene: Necrophoxinus_6 Start: 2013, Stop: 1540, Start Num: 2

Candidate Starts for Necrophoxinus_6:

(Start: 2 @2013 has 40 MA's), (8, 1929), (10, 1908), (20, 1812), (28, 1647), (29, 1638), (32, 1623),

Gene: Necrophoxinus_122 Start: 62256, Stop: 61783, Start Num: 2

Candidate Starts for Necrophoxinus_122:

(Start: 2 @62256 has 40 MA's), (8, 62172), (10, 62151), (20, 62055), (28, 61890), (29, 61881), (32, 61866),

Gene: OlinDD_115 Start: 61900, Stop: 61292, Start Num: 2

Candidate Starts for OlinDD_115:

(Start: 2 @61900 has 40 MA's), (5, 61849), (8, 61816), (9, 61810), (11, 61783), (14, 61765), (17, 61714), (19, 61708), (20, 61705), (21, 61651), (23, 61639), (27, 61567), (29, 61531), (34, 61507), (38, 61438), (41, 61333),

Gene: OlinDD_4 Start: 1935, Stop: 1327, Start Num: 2

Candidate Starts for OlinDD_4:

(Start: 2 @1935 has 40 MA's), (5, 1884), (8, 1851), (9, 1845), (11, 1818), (14, 1800), (17, 1749), (19, 1743), (20, 1740), (21, 1686), (23, 1674), (27, 1602), (29, 1566), (34, 1542), (38, 1473), (41, 1368),

Gene: Pavlo_116 Start: 62102, Stop: 61596, Start Num: 2

Candidate Starts for Pavlo_116:

(Start: 2 @62102 has 40 MA's), (7, 62036), (12, 61961), (14, 61952), (17, 61901), (20, 61892), (21, 61838), (22, 61835), (23, 61826), (25, 61745), (27, 61733),

Gene: Pavlo_4 Start: 1846, Stop: 1340, Start Num: 2

Candidate Starts for Pavlo_4:

(Start: 2 @1846 has 40 MA's), (7, 1780), (12, 1705), (14, 1696), (17, 1645), (20, 1636), (21, 1582), (22, 1579), (23, 1570), (25, 1489), (27, 1477),

Gene: PhillyPhilly_5 Start: 2151, Stop: 1663, Start Num: 2

Candidate Starts for PhillyPhilly_5:

(Start: 2 @2151 has 40 MA's), (4, 2121), (8, 2073), (14, 2022), (15, 2013), (16, 1986), (20, 1962), (23, 1896), (26, 1830), (27, 1824), (30, 1785), (32, 1773), (37, 1701), (38, 1692),

Gene: PhillyPhilly_115 Start: 61640, Stop: 61152, Start Num: 2

Candidate Starts for PhillyPhilly_115:

(Start: 2 @61640 has 40 MA's), (4, 61610), (8, 61562), (14, 61511), (15, 61502), (16, 61475), (20, 61451), (23, 61385), (26, 61319), (27, 61313), (30, 61274), (32, 61262), (37, 61190), (38, 61181),

Gene: Pioneer3_4 Start: 1968, Stop: 1360, Start Num: 2

Candidate Starts for Pioneer3_4:

(Start: 2 @1968 has 40 MA's), (5, 1917), (8, 1884), (9, 1878), (11, 1851), (14, 1833), (17, 1782), (19, 1776), (20, 1773), (21, 1719), (23, 1707), (27, 1635), (29, 1599), (34, 1575), (38, 1506), (41, 1401),

Gene: Pioneer3_115 Start: 61731, Stop: 61123, Start Num: 2

Candidate Starts for Pioneer3_115:

(Start: 2 @61731 has 40 MA's), (5, 61680), (8, 61647), (9, 61641), (11, 61614), (14, 61596), (17, 61545), (19, 61539), (20, 61536), (21, 61482), (23, 61470), (27, 61398), (29, 61362), (34, 61338), (38, 61269), (41, 61164),

Gene: Platte_4 Start: 1793, Stop: 1335, Start Num: 2

Candidate Starts for Platte_4:

(Start: 2 @1793 has 40 MA's), (5, 1742), (8, 1709), (9, 1703), (11, 1676), (14, 1658), (17, 1607), (19, 1601), (20, 1598), (27, 1460), (29, 1424),

Gene: Platte_114 Start: 61341, Stop: 60883, Start Num: 2

Candidate Starts for Platte_114:

(Start: 2 @61341 has 40 MA's), (5, 61290), (8, 61257), (9, 61251), (11, 61224), (14, 61206), (17, 61155), (19, 61149), (20, 61146), (27, 61008), (29, 60972),

Gene: Roman_120 Start: 63021, Stop: 62533, Start Num: 2

Candidate Starts for Roman_120:

(Start: 2 @63021 has 40 MA's), (4, 62991), (8, 62943), (14, 62892), (15, 62883), (16, 62856), (17, 62841), (20, 62832), (23, 62766), (24, 62754), (27, 62694), (30, 62655), (32, 62643), (37, 62571), (38, 62562),

Gene: Roman_4 Start: 1934, Stop: 1446, Start Num: 2

Candidate Starts for Roman_4:

(Start: 2 @1934 has 40 MA's), (4, 1904), (8, 1856), (14, 1805), (15, 1796), (16, 1769), (17, 1754), (20, 1745), (23, 1679), (24, 1667), (27, 1607), (30, 1568), (32, 1556), (37, 1484), (38, 1475),

Gene: RunningBrook_124 Start: 62315, Stop: 61719, Start Num: 2

Candidate Starts for RunningBrook_124:

(Start: 2 @62315 has 40 MA's), (8, 62231), (10, 62210), (20, 62114), (28, 61949), (29, 61940), (32, 61925), (42, 61727),

Gene: RunningBrook_6 Start: 2225, Stop: 1629, Start Num: 2

Candidate Starts for RunningBrook_6:

(Start: 2 @2225 has 40 MA's), (8, 2141), (10, 2120), (20, 2024), (28, 1859), (29, 1850), (32, 1835), (42, 1637),

Gene: StevieWelch_6 Start: 2086, Stop: 1613, Start Num: 2

Candidate Starts for StevieWelch_6:

(Start: 2 @2086 has 40 MA's), (8, 2002), (10, 1981), (20, 1885), (28, 1720), (29, 1711), (32, 1696),

Gene: StevieWelch_124 Start: 62332, Stop: 61859, Start Num: 2

Candidate Starts for StevieWelch_124:

(Start: 2 @62332 has 40 MA's), (8, 62248), (10, 62227), (20, 62131), (28, 61966), (29, 61957), (32, 61942),

Gene: Tandem_4 Start: 1898, Stop: 1332, Start Num: 2

Candidate Starts for Tandem_4:

(Start: 2 @1898 has 40 MA's), (5, 1847), (8, 1814), (9, 1808), (11, 1781), (14, 1763), (17, 1712), (19, 1706), (20, 1703), (21, 1649), (23, 1637), (27, 1565), (34, 1505), (40, 1397),

Gene: Tandem_115 Start: 61741, Stop: 61175, Start Num: 2

Candidate Starts for Tandem_115:

(Start: 2 @61741 has 40 MA's), (5, 61690), (8, 61657), (9, 61651), (11, 61624), (14, 61606), (17, 61555), (19, 61549), (20, 61546), (21, 61492), (23, 61480), (27, 61408), (34, 61348), (40, 61240),

Gene: Welcome_6 Start: 2200, Stop: 1727, Start Num: 2

Candidate Starts for Welcome_6:

(Start: 2 @2200 has 40 MA's), (8, 2116), (10, 2095), (20, 1999), (28, 1834), (29, 1825), (32, 1810),

Gene: Welcome_123 Start: 62344, Stop: 61871, Start Num: 2

Candidate Starts for Welcome_123:

(Start: 2 @62344 has 40 MA's), (8, 62260), (10, 62239), (20, 62143), (28, 61978), (29, 61969), (32, 61954),

Gene: Wolfstar_121 Start: 63375, Stop: 62764, Start Num: 2

Candidate Starts for Wolfstar_121:

(1, 63516), (Start: 2 @63375 has 40 MA's), (3, 63360), (14, 63228), (17, 63177), (22, 63111), (27, 63012), (29, 62976), (33, 62958), (34, 62952), (35, 62925), (36, 62910), (39, 62856),

Gene: Wolfstar_5 Start: 2234, Stop: 1623, Start Num: 2

Candidate Starts for Wolfstar_5:

(1, 2375), (Start: 2 @2234 has 40 MA's), (3, 2219), (14, 2087), (17, 2036), (22, 1970), (27, 1871), (29, 1835), (33, 1817), (34, 1811), (35, 1784), (36, 1769), (39, 1715),

Gene: Yuma_119 Start: 61147, Stop: 60674, Start Num: 2

Candidate Starts for Yuma_119:

(Start: 2 @61147 has 40 MA's), (8, 61063), (10, 61042), (20, 60946), (28, 60781), (29, 60772), (32, 60757),

Gene: Yuma_6 Start: 2096, Stop: 1623, Start Num: 2

Candidate Starts for Yuma_6:

(Start: 2 @2096 has 40 MA's), (8, 2012), (10, 1991), (20, 1895), (28, 1730), (29, 1721), (32, 1706),