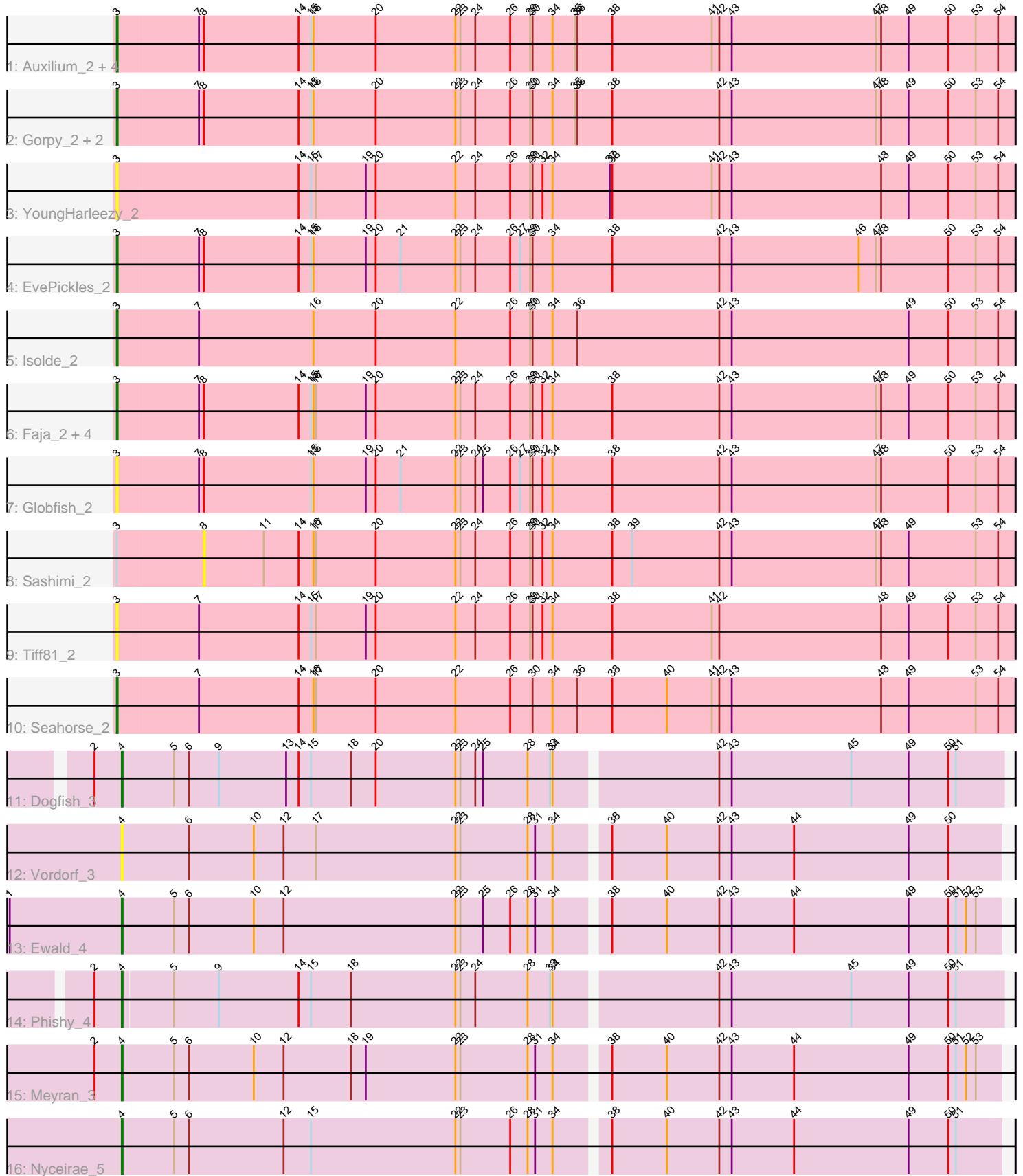


Pham 86713



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 86713 Report

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

Pham number 86713 has 26 members, 11 are drafts.

Phages represented in each track:

- Track 1 : Auxilium_2, BenchScraper_2, Richie_2, Raphaella_2, CookieBear_2
- Track 2 : Gorpy_2, BillyTP_2, Sakai_2
- Track 3 : YoungHarleezy_2
- Track 4 : EvePickles_2
- Track 5 : Isolde_2
- Track 6 : Faja_2, MidnightRain_2, RadFad_2, Hillester_2, Aikyam_2
- Track 7 : Globfish_2
- Track 8 : Sashimi_2
- Track 9 : Tiff81_2
- Track 10 : Seahorse_2
- Track 11 : Dogfish_3
- Track 12 : Vordorf_3
- Track 13 : Ewald_4
- Track 14 : Phishy_4
- Track 15 : Meyran_3
- Track 16 : Nyceirae_5

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

The start number called the most often in the published annotations is 3, it was called in 10 of the 15 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Aikyam_2, Auxilium_2, BenchScraper_2, BillyTP_2, CookieBear_2, EvePickles_2, Faja_2, Globfish_2, Gorpy_2, Hillester_2, Isolde_2, MidnightRain_2, RadFad_2, Raphaella_2, Richie_2, Sakai_2, Seahorse_2, Tiff81_2, YoungHarleezy_2,

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

- Sashimi_2,

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

- Dogfish_3, Ewald_4, Meyran_3, Nyceirae_5, Phishy_4, Vordorf_3,

Summary by start number:

Start 3:

- Found in 20 of 26 (76.9%) of genes in pham
- Manual Annotations of this start: 10 of 15
- Called 95.0% of time when present
- Phage (with cluster) where this start called: Aikyam_2 (AY), Auxilium_2 (AY), BenchScraper_2 (AY), BillyTP_2 (AY), CookieBear_2 (AY), EvePickles_2 (AY), Faja_2 (AY), Globfish_2 (AY), Gorpy_2 (AY), Hillester_2 (AY), Isolde_2 (AY), MidnightRain_2 (AY), RadFad_2 (AY), Raphaella_2 (AY), Richie_2 (AY), Sakai_2 (AY), Seahorse_2 (AY), Tiff81_2 (AY), YoungHarleezy_2 (AY),

Start 4:

- Found in 6 of 26 (23.1%) of genes in pham
- Manual Annotations of this start: 5 of 15
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Dogfish_3 (DT), Ewald_4 (DT), Meyran_3 (DT), Nyceirae_5 (DT), Phishy_4 (DT), Vordorf_3 (DT),

Start 8:

- Found in 16 of 26 (61.5%) of genes in pham
- No Manual Annotations of this start.
- Called 6.2% of time when present
- Phage (with cluster) where this start called: Sashimi_2 (AY),

Summary by clusters:

There are 2 clusters represented in this pham: AY, DT,

Info for manual annotations of cluster AY:

- Start number 3 was manually annotated 10 times for cluster AY.

Info for manual annotations of cluster DT:

- Start number 4 was manually annotated 5 times for cluster DT.

Gene Information:

Gene: Aikyam_2 Start: 599, Stop: 1678, Start Num: 3

Candidate Starts for Aikyam_2:

(Start: 3 @599 has 10 MA's), (7, 695), (8, 701), (14, 815), (15, 830), (16, 833), (17, 836), (19, 896), (20, 908), (22, 1004), (23, 1010), (24, 1028), (26, 1070), (29, 1094), (30, 1097), (32, 1109), (34, 1121), (38, 1193), (42, 1322), (43, 1337), (47, 1511), (48, 1517), (49, 1550), (50, 1598), (53, 1631), (54, 1658),

Gene: Auxilium_2 Start: 599, Stop: 1678, Start Num: 3

Candidate Starts for Auxilium_2:

(Start: 3 @599 has 10 MA's), (7, 695), (8, 701), (14, 815), (15, 830), (16, 833), (20, 908), (22, 1004), (23, 1010), (24, 1028), (26, 1070), (29, 1094), (30, 1097), (34, 1121), (35, 1148), (36, 1151), (38, 1193), (41, 1313), (42, 1322), (43, 1337), (47, 1511), (48, 1517), (49, 1550), (50, 1598), (53, 1631), (54, 1658),

Gene: BenchScraper_2 Start: 599, Stop: 1678, Start Num: 3

Candidate Starts for BenchScraper_2:

(Start: 3 @599 has 10 MA's), (7, 695), (8, 701), (14, 815), (15, 830), (16, 833), (20, 908), (22, 1004), (23, 1010), (24, 1028), (26, 1070), (29, 1094), (30, 1097), (34, 1121), (35, 1148), (36, 1151), (38, 1193), (41, 1313), (42, 1322), (43, 1337), (47, 1511), (48, 1517), (49, 1550), (50, 1598), (53, 1631), (54, 1658),

Gene: BillyTP_2 Start: 600, Stop: 1679, Start Num: 3

Candidate Starts for BillyTP_2:

(Start: 3 @600 has 10 MA's), (7, 696), (8, 702), (14, 816), (15, 831), (16, 834), (20, 909), (22, 1005), (23, 1011), (24, 1029), (26, 1071), (29, 1095), (30, 1098), (34, 1122), (35, 1149), (36, 1152), (38, 1194), (42, 1323), (43, 1338), (47, 1512), (48, 1518), (49, 1551), (50, 1599), (53, 1632), (54, 1659),

Gene: CookieBear_2 Start: 599, Stop: 1678, Start Num: 3

Candidate Starts for CookieBear_2:

(Start: 3 @599 has 10 MA's), (7, 695), (8, 701), (14, 815), (15, 830), (16, 833), (20, 908), (22, 1004), (23, 1010), (24, 1028), (26, 1070), (29, 1094), (30, 1097), (34, 1121), (35, 1148), (36, 1151), (38, 1193), (41, 1313), (42, 1322), (43, 1337), (47, 1511), (48, 1517), (49, 1550), (50, 1598), (53, 1631), (54, 1658),

Gene: Dogfish_3 Start: 940, Stop: 1986, Start Num: 4

Candidate Starts for Dogfish_3:

(2, 907), (Start: 4 @940 has 5 MA's), (5, 1003), (6, 1021), (9, 1057), (13, 1138), (14, 1153), (15, 1168), (18, 1216), (20, 1246), (22, 1342), (23, 1348), (24, 1366), (25, 1375), (28, 1429), (33, 1456), (34, 1459), (42, 1645), (43, 1660), (45, 1804), (49, 1873), (50, 1921), (51, 1930),

Gene: EvePickles_2 Start: 599, Stop: 1678, Start Num: 3

Candidate Starts for EvePickles_2:

(Start: 3 @599 has 10 MA's), (7, 695), (8, 701), (14, 815), (15, 830), (16, 833), (19, 896), (20, 908), (21, 938), (22, 1004), (23, 1010), (24, 1028), (26, 1070), (27, 1082), (29, 1094), (30, 1097), (34, 1121), (38, 1193), (42, 1322), (43, 1337), (46, 1490), (47, 1511), (48, 1517), (50, 1598), (53, 1631), (54, 1658),

Gene: Ewald_4 Start: 1213, Stop: 2256, Start Num: 4

Candidate Starts for Ewald_4:

(1, 1078), (Start: 4 @1213 has 5 MA's), (5, 1276), (6, 1294), (10, 1372), (12, 1408), (22, 1615), (23, 1621), (25, 1648), (26, 1681), (28, 1702), (31, 1711), (34, 1732), (38, 1789), (40, 1855), (42, 1918), (43, 1933), (44, 2008), (49, 2146), (50, 2194), (51, 2203), (52, 2215), (53, 2227),

Gene: Faja_2 Start: 599, Stop: 1678, Start Num: 3

Candidate Starts for Faja_2:

(Start: 3 @599 has 10 MA's), (7, 695), (8, 701), (14, 815), (15, 830), (16, 833), (17, 836), (19, 896), (20, 908), (22, 1004), (23, 1010), (24, 1028), (26, 1070), (29, 1094), (30, 1097), (32, 1109), (34, 1121), (38, 1193), (42, 1322), (43, 1337), (47, 1511), (48, 1517), (49, 1550), (50, 1598), (53, 1631), (54, 1658),

Gene: Globfish_2 Start: 599, Stop: 1678, Start Num: 3

Candidate Starts for Globfish_2:

(Start: 3 @599 has 10 MA's), (7, 695), (8, 701), (15, 830), (16, 833), (19, 896), (20, 908), (21, 938), (22, 1004), (23, 1010), (24, 1028), (25, 1037), (26, 1070), (27, 1082), (29, 1094), (30, 1097), (32, 1109), (34, 1121), (38, 1193), (42, 1322), (43, 1337), (47, 1511), (48, 1517), (50, 1598), (53, 1631), (54, 1658),

Gene: Gorpy_2 Start: 600, Stop: 1679, Start Num: 3

Candidate Starts for Gorpy_2:

(Start: 3 @600 has 10 MA's), (7, 696), (8, 702), (14, 816), (15, 831), (16, 834), (20, 909), (22, 1005), (23, 1011), (24, 1029), (26, 1071), (29, 1095), (30, 1098), (34, 1122), (35, 1149), (36, 1152), (38, 1194), (42, 1323), (43, 1338), (47, 1512), (48, 1518), (49, 1551), (50, 1599), (53, 1632), (54, 1659),

Gene: Hillester_2 Start: 599, Stop: 1678, Start Num: 3

Candidate Starts for Hillester_2:

(Start: 3 @599 has 10 MA's), (7, 695), (8, 701), (14, 815), (15, 830), (16, 833), (17, 836), (19, 896), (20, 908), (22, 1004), (23, 1010), (24, 1028), (26, 1070), (29, 1094), (30, 1097), (32, 1109), (34, 1121), (38, 1193), (42, 1322), (43, 1337), (47, 1511), (48, 1517), (49, 1550), (50, 1598), (53, 1631), (54, 1658),

Gene: Isolde_2 Start: 599, Stop: 1678, Start Num: 3

Candidate Starts for Isolde_2:

(Start: 3 @599 has 10 MA's), (7, 695), (16, 833), (20, 908), (22, 1004), (26, 1070), (29, 1094), (30, 1097), (34, 1121), (36, 1151), (42, 1322), (43, 1337), (49, 1550), (50, 1598), (53, 1631), (54, 1658),

Gene: Meyran_3 Start: 1362, Stop: 2405, Start Num: 4

Candidate Starts for Meyran_3:

(2, 1329), (Start: 4 @1362 has 5 MA's), (5, 1425), (6, 1443), (10, 1521), (12, 1557), (18, 1638), (19, 1656), (22, 1764), (23, 1770), (28, 1851), (31, 1860), (34, 1881), (38, 1938), (40, 2004), (42, 2067), (43, 2082), (44, 2157), (49, 2295), (50, 2343), (51, 2352), (52, 2364), (53, 2376),

Gene: MidnightRain_2 Start: 599, Stop: 1678, Start Num: 3

Candidate Starts for MidnightRain_2:

(Start: 3 @599 has 10 MA's), (7, 695), (8, 701), (14, 815), (15, 830), (16, 833), (17, 836), (19, 896), (20, 908), (22, 1004), (23, 1010), (24, 1028), (26, 1070), (29, 1094), (30, 1097), (32, 1109), (34, 1121), (38, 1193), (42, 1322), (43, 1337), (47, 1511), (48, 1517), (49, 1550), (50, 1598), (53, 1631), (54, 1658),

Gene: Nyceirae_5 Start: 1339, Stop: 2382, Start Num: 4

Candidate Starts for Nyceirae_5:

(Start: 4 @1339 has 5 MA's), (5, 1402), (6, 1420), (12, 1534), (15, 1567), (22, 1741), (23, 1747), (26, 1807), (28, 1828), (31, 1837), (34, 1858), (38, 1915), (40, 1981), (42, 2044), (43, 2059), (44, 2134), (49, 2272), (50, 2320), (51, 2329),

Gene: Phishy_4 Start: 1296, Stop: 2339, Start Num: 4

Candidate Starts for Phishy_4:

(2, 1263), (Start: 4 @1296 has 5 MA's), (5, 1356), (9, 1410), (14, 1506), (15, 1521), (18, 1569), (22, 1695), (23, 1701), (24, 1719), (28, 1782), (33, 1809), (34, 1812), (42, 1998), (43, 2013), (45, 2157), (49, 2226), (50, 2274), (51, 2283),

Gene: RadFad_2 Start: 599, Stop: 1678, Start Num: 3

Candidate Starts for RadFad_2:

(Start: 3 @599 has 10 MA's), (7, 695), (8, 701), (14, 815), (15, 830), (16, 833), (17, 836), (19, 896), (20, 908), (22, 1004), (23, 1010), (24, 1028), (26, 1070), (29, 1094), (30, 1097), (32, 1109), (34, 1121), (38, 1193), (42, 1322), (43, 1337), (47, 1511), (48, 1517), (49, 1550), (50, 1598), (53, 1631), (54, 1658),

Gene: Raphaella_2 Start: 599, Stop: 1678, Start Num: 3

Candidate Starts for Raphaella_2:

(Start: 3 @599 has 10 MA's), (7, 695), (8, 701), (14, 815), (15, 830), (16, 833), (20, 908), (22, 1004), (23, 1010), (24, 1028), (26, 1070), (29, 1094), (30, 1097), (34, 1121), (35, 1148), (36, 1151), (38,

1193), (41, 1313), (42, 1322), (43, 1337), (47, 1511), (48, 1517), (49, 1550), (50, 1598), (53, 1631), (54, 1658),

Gene: Richie_2 Start: 599, Stop: 1678, Start Num: 3

Candidate Starts for Richie_2:

(Start: 3 @599 has 10 MA's), (7, 695), (8, 701), (14, 815), (15, 830), (16, 833), (20, 908), (22, 1004), (23, 1010), (24, 1028), (26, 1070), (29, 1094), (30, 1097), (34, 1121), (35, 1148), (36, 1151), (38, 1193), (41, 1313), (42, 1322), (43, 1337), (47, 1511), (48, 1517), (49, 1550), (50, 1598), (53, 1631), (54, 1658),

Gene: Sakai_2 Start: 600, Stop: 1679, Start Num: 3

Candidate Starts for Sakai_2:

(Start: 3 @600 has 10 MA's), (7, 696), (8, 702), (14, 816), (15, 831), (16, 834), (20, 909), (22, 1005), (23, 1011), (24, 1029), (26, 1071), (29, 1095), (30, 1098), (34, 1122), (35, 1149), (36, 1152), (38, 1194), (42, 1323), (43, 1338), (47, 1512), (48, 1518), (49, 1551), (50, 1599), (53, 1632), (54, 1659),

Gene: Sashimi_2 Start: 701, Stop: 1678, Start Num: 8

Candidate Starts for Sashimi_2:

(Start: 3 @599 has 10 MA's), (8, 701), (11, 773), (14, 815), (16, 833), (17, 836), (20, 908), (22, 1004), (23, 1010), (24, 1028), (26, 1070), (29, 1094), (30, 1097), (32, 1109), (34, 1121), (38, 1193), (39, 1217), (42, 1322), (43, 1337), (47, 1511), (48, 1517), (49, 1550), (53, 1631), (54, 1658),

Gene: Seahorse_2 Start: 599, Stop: 1678, Start Num: 3

Candidate Starts for Seahorse_2:

(Start: 3 @599 has 10 MA's), (7, 695), (14, 815), (16, 833), (17, 836), (20, 908), (22, 1004), (26, 1070), (30, 1097), (34, 1121), (36, 1151), (38, 1193), (40, 1259), (41, 1313), (42, 1322), (43, 1337), (48, 1517), (49, 1550), (53, 1631), (54, 1658),

Gene: Tiff81_2 Start: 590, Stop: 1669, Start Num: 3

Candidate Starts for Tiff81_2:

(Start: 3 @590 has 10 MA's), (7, 686), (14, 806), (15, 821), (17, 827), (19, 887), (20, 899), (22, 995), (24, 1019), (26, 1061), (29, 1085), (30, 1088), (32, 1100), (34, 1112), (38, 1184), (41, 1304), (42, 1313), (48, 1508), (49, 1541), (50, 1589), (53, 1622), (54, 1649),

Gene: Vordorf_3 Start: 1105, Stop: 2148, Start Num: 4

Candidate Starts for Vordorf_3:

(Start: 4 @1105 has 5 MA's), (6, 1186), (10, 1264), (12, 1300), (17, 1339), (22, 1507), (23, 1513), (28, 1594), (31, 1603), (34, 1624), (38, 1681), (40, 1747), (42, 1810), (43, 1825), (44, 1900), (49, 2038), (50, 2086),

Gene: YoungHarleezy_2 Start: 600, Stop: 1679, Start Num: 3

Candidate Starts for YoungHarleezy_2:

(Start: 3 @600 has 10 MA's), (14, 816), (15, 831), (17, 837), (19, 897), (20, 909), (22, 1005), (24, 1029), (26, 1071), (29, 1095), (30, 1098), (32, 1110), (34, 1122), (37, 1191), (38, 1194), (41, 1314), (42, 1323), (43, 1338), (48, 1518), (49, 1551), (50, 1599), (53, 1632), (54, 1659),