



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 311362 Report

This analysis was run 06/27/26 on database version 652.

Pham number 311362 has 128 members, 16 are drafts.

Phages represented in each track:

- Track 1 : Budski_3, CheeseTouch_3, ODay_3, Kamaru_3, Holliday_3, Phabuloso_3, LitninMcQueen_3
- Track 2 : Ecliptus_3
- Track 3 : BotCity_3
- Track 4 : Malisha_3
- Track 5 : Asapag_3, BENtherdunthat_3
- Track 6 : Leroy_3
- Track 7 : Horus_3, Lutum_3, Periwinkle_3, Kenna_3
- Track 8 : Getalong_3, Whitney_3
- Track 9 : Phistory_3
- Track 10 : ShawBrad_3
- Track 11 : Frickyeah_3
- Track 12 : Spooky_3
- Track 13 : Squiddly_4
- Track 14 : Doomslug_3
- Track 15 : LordVader_3
- Track 16 : Alexphander_3, Spikelee_3, Bobi_3, Emmaloid_3, Rialto_3, Starcevich_3, JalFarm20_3, Slim_3, Stap_3, Ramsey_3, DosHalletts_3, Peridot_3, Totinger_3, Tootsieroll_3
- Track 17 : Frankie_3, Squirty_3
- Track 18 : Leozinho_3, RockyHorror_3, BuzzLyseyear_3, Beanstalk_3, Madiba_3, DaWorst_3
- Track 19 : SimranZ1_3, Pollywog_3
- Track 20 : TootsiePop_3, Aloeri_3, ChickenDinner_3, Piper2020_3, DocMcStuffins_3, Misha28_3
- Track 21 : Brookers_3, Coco12_3, BigPhil_3, Lorde_3, Enby_3, Cerasum_3, Sarma624_3, Lucia_3, Kingsley_3, Velveteen_3
- Track 22 : Plumbus_3, MulchExplorer_3, Flathead_3, Hegedechwinu_3, Brushbloom_3, Kimberlium_3
- Track 23 : Beakin_3
- Track 24 : Seagreen_3
- Track 25 : OwlsT2W_3
- Track 26 : Boomer_3, LittleShirley_3
- Track 27 : DirtMcgirt_3
- Track 28 : Job42_3
- Track 29 : Ogopogo_4
- Track 30 : Girafales_3, Quico_3

- Track 31 : Tchotchke_3
- Track 32 : Marker_3
- Track 33 : Drago_3, UncleRicky_3
- Track 34 : Mozy_3
- Track 35 : Oksu_3
- Track 36 : Mova_3
- Track 37 : Awesomesauce_3
- Track 38 : Juice456_3
- Track 39 : Cornucopia_3
- Track 40 : Che9d_3
- Track 41 : SilverChicken_3, Avani_3, Yoshi_3
- Track 42 : Zapner_4, Blarby_4, Jabbawokkie_4
- Track 43 : Soul22_3
- Track 44 : Demsculpinboyz_3
- Track 45 : Pigu_3
- Track 46 : Whytu_1
- Track 47 : Pauu_3, LauKoruNamu_3, CabbageMan_2
- Track 48 : KNG13_4
- Track 49 : BlueFeather_1
- Track 50 : Utopia_1
- Track 51 : Piku_1
- Track 52 : Yavru_1
- Track 53 : CheeseDanish_4, Nebulanyx_4, Corgi_4
- Track 54 : Noely_2
- Track 55 : WorldChangers_1
- Track 56 : Idaho_3
- Track 57 : Berka_4
- Track 58 : Zucker_3, Bauer_4
- Track 59 : Cassini_2
- Track 60 : BlackSpider_2
- Track 61 : BellaJr_4
- Track 62 : Merpity_3
- Track 63 : MoRicky_2, Smilerella_2
- Track 64 : BigBoyz_1
- Track 65 : PensacolaC28_1

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

The start number called the most often in the published annotations is 21, it was called in 85 of the 112 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

• Alexphander_3, Aloeri_3, Asapag_3, Avani_3, Awesomesauce_3, BENtherdunthat_3, Beakin_3, Beanstalk_3, BigPhil_3, Blarby_4, Bobi_3, BotCity_3, Brookers_3, Brushbloom_3, Budski_3, BuzzLyseyear_3, Cerasum_3, Che9d_3, CheeseTouch_3, ChickenDinner_3, Coco12_3, Cornucopia_3, DaWorst_3, Demsculpinboyz_3, DirtMcgirt_3, DocMcStuffins_3, DosHalletts_3, Ecliptus_3, Emmaloid_3, Enby_3, Flathead_3, Frankie_3, Frickyeah_3, Getalong_3, Girafales_3, Hegedechwinu_3, Holliday_3, Horus_3, Jabbawokkie_4, JalFarm20_3, Job42_3, Kamaru_3, Kenna_3, Kimberlium_3, Kingsley_3, Leozinho_3, Leroy_3,

LitninMcQueen_3, LordVader_3, Lorde_3, Lucia_3, Lutum_3, Madiba_3, Malisha_3, Marker_3, Misha28_3, Mova_3, Mozy_3, MulchExplorer_3, ODay_3, Ogopogo_4, Peridot_3, Periwinkle_3, Phabuloso_3, Phistory_3, Piper2020_3, Plumbus_3, Pollywog_3, Quico_3, Ramsey_3, Rialto_3, RockyHorror_3, Sarma624_3, Seagreen_3, ShawBrad_3, SilverChicken_3, SimranZ1_3, Slim_3, Soul22_3, Spikelee_3, Spooky_3, Squiddly_4, Squirty_3, Stap_3, Starceвич_3, Tchotchke_3, TootsiePop_3, Tootsieroll_3, Totinger_3, Velveteen_3, Whitney_3, Yoshi_3, Zapner_4,

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

- Boomer_3, Doomslug_3, Drago_3, Juice456_3, LittleShirley_3, Oksu_3, OwlsT2W_3, Pigu_3, UncleRicky_3,

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

- Bauer_4, BellaJr_4, Berka_4, BigBoyz_1, BlackSpider_2, BlueFeather_1, CabbageMan_2, Cassini_2, CheeseDanish_4, Corgi_4, Idaho_3, KNG13_4, LauKoruNamu_3, Merpity_3, MoRicky_2, Nebulanyx_4, Noely_2, Pauu_3, PensacolaC28_1, Piku_1, Smilerella_2, Utopia_1, Whytu_1, WorldChangers_1, Yavru_1, Zucker_3,

Summary by start number:

Start 2:

- Found in 1 of 128 (0.8%) of genes in pham
- Manual Annotations of this start: 1 of 112
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Idaho_3 (FE),

Start 3:

- Found in 13 of 128 (10.2%) of genes in pham
- Manual Annotations of this start: 7 of 112
- Called 69.2% of time when present
- Phage (with cluster) where this start called: CabbageMan_2 (FE), CheeseDanish_4 (FE), Corgi_4 (FE), KNG13_4 (FE), LauKoruNamu_3 (FE), Nebulanyx_4 (FE), Noely_2 (FE), Pauu_3 (FE), WorldChangers_1 (FE),

Start 6:

- Found in 1 of 128 (0.8%) of genes in pham
- Manual Annotations of this start: 1 of 112
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Berka_4 (FE),

Start 8:

- Found in 1 of 128 (0.8%) of genes in pham
- Manual Annotations of this start: 1 of 112
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BlueFeather_1 (FE),

Start 9:

- Found in 4 of 128 (3.1%) of genes in pham
- Manual Annotations of this start: 3 of 112
- Called 75.0% of time when present

- Phage (with cluster) where this start called: Utopia_1 (FE), Whytu_1 (FE), Yavru_1 (FE),

Start 14:

- Found in 1 of 128 (0.8%) of genes in pham
- Manual Annotations of this start: 1 of 112
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BigBoyz_1 (GH),

Start 15:

- Found in 2 of 128 (1.6%) of genes in pham
- Manual Annotations of this start: 2 of 112
- Called 100.0% of time when present
- Phage (with cluster) where this start called: MoRicky_2 (GH), Smilerella_2 (GH),

Start 21:

- Found in 102 of 128 (79.7%) of genes in pham
- Manual Annotations of this start: 85 of 112
- Called 91.2% of time when present
- Phage (with cluster) where this start called: Alexphander_3 (F1), Aloeri_3 (F1), Asapag_3 (DN1), Avani_3 (F2), Awesomesauce_3 (F1), BENtherdunthat_3 (DN1), Beakin_3 (F1), Beanstalk_3 (F1), BigPhil_3 (F1), Blarby_4 (F), Bobi_3 (F1), BotCity_3 (DN), Brookers_3 (F1), Brushbloom_3 (F1), Budski_3 (DN), BuzzLyseyear_3 (F1), Cerasum_3 (F1), Che9d_3 (F2), CheeseTouch_3 (DN1), ChickenDinner_3 (F1), Coco12_3 (F1), Cornucopia_3 (F1), DaWorst_3 (F1), Demsculpinboyz_3 (F2), DirtMcgirt_3 (F1), DocMcStuffins_3 (F1), DosHalletts_3 (F1), Ecliptus_3 (DN), Emmaloid_3 (F1), Enby_3 (F1), Flathead_3 (F1), Frankie_3 (F1), Frickyeah_3 (DN1), Getalong_3 (DN1), Girafales_3 (F1), Hegedechwinu_3 (F1), Holliday_3 (DN1), Horus_3 (DN1), Jabbawokkie_4 (F2), JalFarm20_3 (F1), Job42_3 (F1), Kamaru_3 (DN1), Kenna_3 (DN1), Kimberlium_3 (F1), Kingsley_3 (F1), Leozinho_3 (F1), Leroy_3 (DN1), LitninMcQueen_3 (DN1), LordVader_3 (F), Lorde_3 (F1), Lucia_3 (F1), Lutum_3 (DN1), Madiba_3 (F1), Malisha_3 (DN), Marker_3 (F1), Misha28_3 (F1), Mova_3 (F1), Mozy_3 (F1), MulchExplorer_3 (F1), ODay_3 (DN), Ogopogo_4 (F1), Peridot_3 (F1), Periwinkle_3 (DN1), Phabuloso_3 (DN1), Phistory_3 (DN1), Piper2020_3 (F1), Plumbus_3 (F1), Pollywog_3 (F1), Quico_3 (F1), Ramsey_3 (F1), Rialto_3 (F1), RockyHorror_3 (F1), Sarma624_3 (F1), Seagreen_3 (F1), ShawBrad_3 (DN1), SilverChicken_3 (F2), SimranZ1_3 (F1), Slim_3 (F1), Soul22_3 (F2), Spikelee_3 (F1), Spooky_3 (DN2), Squiddly_4 (DN2), Squirty_3 (F3), Stap_3 (F1), Starcevich_3 (F1), Tchotchke_3 (F1), TootsiePop_3 (F1), Tootsieroll_3 (F1), Totinger_3 (F1), Velveteen_3 (F1), Whitney_3 (DN1), Yoshi_3 (F2), Zapner_4 (F2),

Start 23:

- Found in 1 of 128 (0.8%) of genes in pham
- Manual Annotations of this start: 1 of 112
- Called 100.0% of time when present
- Phage (with cluster) where this start called: PensacolaC28_1 (singleton),

Start 25:

- Found in 7 of 128 (5.5%) of genes in pham
- Manual Annotations of this start: 3 of 112
- Called 71.4% of time when present
- Phage (with cluster) where this start called: Bauer_4 (FN), BellaJr_4 (FN), BlackSpider_2 (FN), Cassini_2 (FN), Zucker_3 (FN),

Start 29:

- Found in 4 of 128 (3.1%) of genes in pham
- Manual Annotations of this start: 1 of 112
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Piku_1 (FE),

Start 39:

- Found in 103 of 128 (80.5%) of genes in pham
- Manual Annotations of this start: 6 of 112
- Called 6.8% of time when present
- Phage (with cluster) where this start called: Boomer_3 (F1), Drago_3 (F1), Juice456_3 (F1), LittleShirley_3 (F1), Oksu_3 (F1), OwlsT2W_3 (F1), UncleRicky_3 (F1),

Start 40:

- Found in 64 of 128 (50.0%) of genes in pham
- No Manual Annotations of this start.
- Called 1.6% of time when present
- Phage (with cluster) where this start called: Doomslug_3 (F),

Start 76:

- Found in 2 of 128 (1.6%) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Pigu_3 (FB),

Start 81:

- Found in 17 of 128 (13.3%) of genes in pham
- No Manual Annotations of this start.
- Called 5.9% of time when present
- Phage (with cluster) where this start called: Merpity_3 (FQ1),

Summary by clusters:

There are 13 clusters represented in this pham: DN, F1, F2, F3, F, singleton, FB, DN1, FE, DN2, FQ1, FN, GH,

Info for manual annotations of cluster DN:

- Start number 21 was manually annotated 5 times for cluster DN.

Info for manual annotations of cluster DN1:

- Start number 21 was manually annotated 15 times for cluster DN1.

Info for manual annotations of cluster DN2:

- Start number 21 was manually annotated 2 times for cluster DN2.

Info for manual annotations of cluster F1:

- Start number 21 was manually annotated 55 times for cluster F1.
- Start number 39 was manually annotated 6 times for cluster F1.

Info for manual annotations of cluster F2:

- Start number 21 was manually annotated 7 times for cluster F2.

Info for manual annotations of cluster F3:

- Start number 21 was manually annotated 1 time for cluster F3.

Info for manual annotations of cluster FE:

- Start number 2 was manually annotated 1 time for cluster FE.
- Start number 3 was manually annotated 7 times for cluster FE.
- Start number 6 was manually annotated 1 time for cluster FE.
- Start number 8 was manually annotated 1 time for cluster FE.
- Start number 9 was manually annotated 3 times for cluster FE.
- Start number 29 was manually annotated 1 time for cluster FE.

Info for manual annotations of cluster FN:

- Start number 25 was manually annotated 3 times for cluster FN.

Info for manual annotations of cluster GH:

- Start number 14 was manually annotated 1 time for cluster GH.
- Start number 15 was manually annotated 2 times for cluster GH.

Gene Information:

Gene: Alexphander_3 Start: 671, Stop: 2158, Start Num: 21

Candidate Starts for Alexphander_3:

(17, 659), (Start: 21 @671 has 85 MA's), (Start: 39 @797 has 6 MA's), (40, 803), (47, 845), (49, 851), (55, 884), (57, 890), (59, 896), (63, 935), (70, 959), (72, 977), (73, 980), (79, 1022), (85, 1043), (91, 1070), (92, 1079), (95, 1088), (96, 1091), (102, 1142), (111, 1220), (115, 1244), (117, 1256), (120, 1277), (125, 1289), (127, 1322), (129, 1328), (139, 1397), (140, 1403), (147, 1436), (153, 1472), (161, 1532), (162, 1541), (165, 1568), (174, 1646), (191, 1742), (205, 1787), (219, 1859), (228, 1898), (233, 1934), (236, 1940), (241, 1964), (247, 1994), (248, 2000), (257, 2042), (258, 2045), (259, 2048), (265, 2090), (267, 2102), (269, 2114),

Gene: Aloeri_3 Start: 674, Stop: 2161, Start Num: 21

Candidate Starts for Aloeri_3:

(17, 662), (Start: 21 @674 has 85 MA's), (Start: 39 @800 has 6 MA's), (40, 806), (47, 848), (49, 854), (55, 887), (57, 893), (59, 899), (63, 938), (70, 962), (72, 980), (73, 983), (79, 1025), (91, 1073), (92, 1082), (95, 1091), (96, 1094), (102, 1145), (111, 1223), (115, 1247), (117, 1259), (120, 1280), (125, 1292), (127, 1325), (129, 1331), (139, 1400), (140, 1406), (147, 1439), (153, 1475), (161, 1535), (162, 1544), (165, 1571), (174, 1649), (191, 1745), (205, 1790), (219, 1862), (228, 1901), (233, 1937), (236, 1943), (241, 1967), (247, 1997), (248, 2003), (257, 2045), (258, 2048), (259, 2051), (265, 2093), (267, 2105), (269, 2117),

Gene: Asapag_3 Start: 673, Stop: 2190, Start Num: 21

Candidate Starts for Asapag_3:

(18, 664), (Start: 21 @673 has 85 MA's), (38, 790), (Start: 39 @799 has 6 MA's), (49, 853), (55, 886), (63, 937), (66, 946), (73, 982), (79, 1024), (85, 1045), (89, 1057), (91, 1072), (95, 1090), (96, 1093), (97, 1096), (98, 1117), (102, 1144), (109, 1201), (115, 1246), (117, 1258), (120, 1279), (125, 1291), (126, 1318), (129, 1330), (141, 1411), (155, 1483), (158, 1507), (162, 1543), (165, 1570), (168, 1603), (177, 1657), (197, 1759), (205, 1786), (233, 1933), (239, 1945), (241, 1963), (257, 2041), (258, 2044),

(259, 2047), (267, 2101), (269, 2113),

Gene: Avani_3 Start: 663, Stop: 2183, Start Num: 21

Candidate Starts for Avani_3:

(17, 651), (Start: 21 @663 has 85 MA's), (Start: 39 @789 has 6 MA's), (41, 798), (49, 843), (54, 873), (55, 876), (57, 882), (63, 927), (70, 951), (73, 972), (79, 1014), (85, 1035), (91, 1062), (95, 1080), (96, 1083), (98, 1107), (102, 1134), (109, 1191), (114, 1227), (115, 1236), (117, 1248), (118, 1254), (120, 1269), (125, 1281), (126, 1308), (127, 1314), (129, 1320), (134, 1356), (136, 1365), (140, 1395), (146, 1425), (147, 1428), (161, 1524), (162, 1533), (165, 1560), (176, 1644), (178, 1659), (201, 1770), (205, 1779), (207, 1788), (219, 1851), (233, 1926), (239, 1938), (241, 1956), (248, 1992), (257, 2034), (259, 2040), (265, 2082), (267, 2094), (269, 2106), (273, 2172),

Gene: Awesomesauce_3 Start: 674, Stop: 2161, Start Num: 21

Candidate Starts for Awesomesauce_3:

(17, 662), (Start: 21 @674 has 85 MA's), (Start: 39 @800 has 6 MA's), (40, 806), (47, 848), (49, 854), (55, 887), (57, 893), (59, 899), (63, 938), (70, 962), (73, 983), (79, 1025), (91, 1073), (92, 1082), (95, 1091), (96, 1094), (102, 1145), (109, 1202), (111, 1223), (115, 1247), (117, 1259), (120, 1280), (125, 1292), (127, 1325), (129, 1331), (139, 1400), (140, 1406), (147, 1439), (153, 1475), (161, 1535), (162, 1544), (165, 1571), (174, 1649), (182, 1682), (191, 1745), (205, 1790), (219, 1862), (228, 1901), (233, 1937), (236, 1943), (241, 1967), (247, 1997), (248, 2003), (257, 2045), (258, 2048), (259, 2051), (265, 2093), (267, 2105), (269, 2117),

Gene: BENtherdunthat_3 Start: 673, Stop: 2190, Start Num: 21

Candidate Starts for BENtherdunthat_3:

(18, 664), (Start: 21 @673 has 85 MA's), (38, 790), (Start: 39 @799 has 6 MA's), (49, 853), (55, 886), (63, 937), (66, 946), (73, 982), (79, 1024), (85, 1045), (89, 1057), (91, 1072), (95, 1090), (96, 1093), (97, 1096), (98, 1117), (102, 1144), (109, 1201), (115, 1246), (117, 1258), (120, 1279), (125, 1291), (126, 1318), (129, 1330), (141, 1411), (155, 1483), (158, 1507), (162, 1543), (165, 1570), (168, 1603), (177, 1657), (197, 1759), (205, 1786), (233, 1933), (239, 1945), (241, 1963), (257, 2041), (258, 2044), (259, 2047), (267, 2101), (269, 2113),

Gene: Bauer_4 Start: 1485, Stop: 2990, Start Num: 25

Candidate Starts for Bauer_4:

(Start: 25 @1485 has 3 MA's), (47, 1629), (61, 1680), (68, 1731), (95, 1869), (99, 1911), (101, 1929), (121, 2073), (125, 2085), (132, 2130), (133, 2136), (147, 2214), (149, 2235), (167, 2364), (182, 2466), (183, 2472), (186, 2493), (196, 2544), (211, 2631), (223, 2691), (233, 2739), (243, 2772), (265, 2904),

Gene: Beakin_3 Start: 671, Stop: 2158, Start Num: 21

Candidate Starts for Beakin_3:

(17, 659), (Start: 21 @671 has 85 MA's), (Start: 39 @797 has 6 MA's), (40, 803), (47, 845), (49, 851), (55, 884), (57, 890), (59, 896), (63, 935), (70, 959), (72, 977), (73, 980), (79, 1022), (85, 1043), (91, 1070), (95, 1088), (96, 1091), (102, 1142), (109, 1199), (111, 1220), (115, 1244), (117, 1256), (120, 1277), (125, 1289), (127, 1322), (129, 1328), (139, 1397), (140, 1403), (147, 1436), (153, 1472), (161, 1532), (162, 1541), (165, 1568), (174, 1646), (191, 1742), (205, 1787), (219, 1859), (228, 1898), (233, 1934), (236, 1940), (241, 1964), (247, 1994), (248, 2000), (257, 2042), (258, 2045), (259, 2048), (265, 2090), (267, 2102), (269, 2114),

Gene: Beanstalk_3 Start: 671, Stop: 2158, Start Num: 21

Candidate Starts for Beanstalk_3:

(17, 659), (Start: 21 @671 has 85 MA's), (Start: 39 @797 has 6 MA's), (40, 803), (47, 845), (49, 851), (55, 884), (57, 890), (59, 896), (63, 935), (70, 959), (72, 977), (73, 980), (79, 1022), (85, 1043), (91, 1070), (92, 1079), (95, 1088), (96, 1091), (102, 1142), (109, 1199), (111, 1220), (115, 1244), (117, 1256), (120, 1277), (125, 1289), (127, 1322), (129, 1328), (139, 1397), (140, 1403), (147, 1436), (153,

1472), (161, 1532), (162, 1541), (165, 1568), (174, 1646), (191, 1742), (205, 1787), (219, 1859), (228, 1898), (233, 1934), (236, 1940), (241, 1964), (247, 1994), (248, 2000), (257, 2042), (258, 2045), (259, 2048), (265, 2090), (267, 2102), (269, 2114),

Gene: BellaJr_4 Start: 1496, Stop: 3001, Start Num: 25

Candidate Starts for BellaJr_4:

(Start: 25 @1496 has 3 MA's), (47, 1640), (68, 1742), (71, 1748), (76, 1787), (82, 1820), (95, 1880), (100, 1925), (101, 1940), (109, 2000), (121, 2084), (125, 2096), (126, 2117), (132, 2141), (133, 2147), (134, 2162), (147, 2225), (149, 2246), (167, 2375), (183, 2483), (186, 2504), (196, 2555), (211, 2642), (223, 2702), (233, 2750), (243, 2783), (250, 2831), (265, 2915),

Gene: Berka_4 Start: 780, Stop: 2345, Start Num: 6

Candidate Starts for Berka_4:

(Start: 6 @780 has 1 MA's), (7, 798), (13, 840), (22, 885), (27, 909), (28, 921), (34, 987), (37, 996), (43, 1032), (59, 1083), (62, 1119), (73, 1167), (80, 1212), (81, 1218), (82, 1221), (116, 1428), (118, 1446), (119, 1449), (138, 1566), (162, 1701), (164, 1719), (173, 1797), (180, 1836), (183, 1848), (187, 1875), (188, 1881), (195, 1923), (203, 1965), (206, 1974), (240, 2133), (253, 2205), (260, 2235), (265, 2268), (266, 2271), (271, 2322),

Gene: BigBoyz_1 Start: 31, Stop: 1653, Start Num: 14

Candidate Starts for BigBoyz_1:

(Start: 14 @31 has 1 MA's), (36, 169), (47, 238), (50, 247), (56, 280), (65, 334), (66, 337), (73, 373), (75, 385), (90, 451), (105, 565), (112, 622), (115, 640), (119, 664), (135, 766), (142, 811), (145, 829), (151, 865), (162, 946), (169, 1009), (182, 1090), (190, 1150), (200, 1192), (212, 1264), (214, 1276), (220, 1297), (232, 1360), (237, 1375), (245, 1414), (250, 1447), (251, 1450), (252, 1453),

Gene: BigPhil_3 Start: 671, Stop: 2158, Start Num: 21

Candidate Starts for BigPhil_3:

(17, 659), (Start: 21 @671 has 85 MA's), (Start: 39 @797 has 6 MA's), (40, 803), (47, 845), (49, 851), (55, 884), (57, 890), (59, 896), (63, 935), (70, 959), (72, 977), (73, 980), (79, 1022), (85, 1043), (91, 1070), (92, 1079), (95, 1088), (96, 1091), (98, 1115), (102, 1142), (109, 1199), (111, 1220), (115, 1244), (117, 1256), (120, 1277), (125, 1289), (127, 1322), (129, 1328), (139, 1397), (140, 1403), (147, 1436), (153, 1472), (161, 1532), (162, 1541), (165, 1568), (174, 1646), (191, 1742), (205, 1787), (219, 1859), (228, 1898), (233, 1934), (236, 1940), (241, 1964), (247, 1994), (248, 2000), (257, 2042), (258, 2045), (259, 2048), (265, 2090), (267, 2102), (269, 2114),

Gene: BlackSpider_2 Start: 495, Stop: 2000, Start Num: 25

Candidate Starts for BlackSpider_2:

(Start: 25 @495 has 3 MA's), (45, 624), (47, 639), (68, 741), (95, 879), (99, 921), (101, 939), (121, 1083), (125, 1095), (132, 1140), (133, 1146), (147, 1224), (149, 1245), (167, 1374), (182, 1476), (183, 1482), (196, 1554), (223, 1701), (233, 1749), (234, 1752), (243, 1782), (250, 1830),

Gene: Blarby_4 Start: 1188, Stop: 2708, Start Num: 21

Candidate Starts for Blarby_4:

(17, 1176), (Start: 21 @1188 has 85 MA's), (Start: 39 @1314 has 6 MA's), (41, 1323), (49, 1368), (54, 1398), (55, 1401), (57, 1407), (63, 1452), (70, 1476), (73, 1497), (79, 1539), (85, 1560), (91, 1587), (95, 1605), (96, 1608), (98, 1632), (102, 1659), (109, 1716), (114, 1752), (115, 1761), (117, 1773), (118, 1779), (120, 1794), (125, 1806), (127, 1839), (129, 1845), (134, 1881), (136, 1890), (140, 1920), (146, 1950), (147, 1953), (161, 2049), (162, 2058), (165, 2085), (176, 2169), (178, 2184), (201, 2295), (205, 2304), (207, 2313), (219, 2376), (233, 2451), (239, 2463), (241, 2481), (248, 2517), (257, 2559), (259, 2565), (265, 2607), (267, 2619), (269, 2631), (273, 2697),

Gene: BlueFeather_1 Start: 75, Stop: 1616, Start Num: 8

Candidate Starts for BlueFeather_1:

(Start: 8 @75 has 1 MA's), (20, 129), (34, 237), (36, 240), (43, 282), (64, 396), (67, 405), (73, 438), (74, 441), (80, 483), (81, 489), (85, 501), (89, 513), (108, 663), (116, 714), (119, 735), (128, 798), (149, 897), (154, 906), (166, 1002), (189, 1158), (194, 1188), (195, 1191), (209, 1260), (215, 1299), (226, 1353), (229, 1359), (233, 1386), (249, 1461), (261, 1515), (262, 1521), (264, 1533), (266, 1539), (268, 1557),

Gene: Bobi_3 Start: 671, Stop: 2158, Start Num: 21

Candidate Starts for Bobi_3:

(17, 659), (Start: 21 @671 has 85 MA's), (Start: 39 @797 has 6 MA's), (40, 803), (47, 845), (49, 851), (55, 884), (57, 890), (59, 896), (63, 935), (70, 959), (72, 977), (73, 980), (79, 1022), (85, 1043), (91, 1070), (92, 1079), (95, 1088), (96, 1091), (102, 1142), (111, 1220), (115, 1244), (117, 1256), (120, 1277), (125, 1289), (127, 1322), (129, 1328), (139, 1397), (140, 1403), (147, 1436), (153, 1472), (161, 1532), (162, 1541), (165, 1568), (174, 1646), (191, 1742), (205, 1787), (219, 1859), (228, 1898), (233, 1934), (236, 1940), (241, 1964), (247, 1994), (248, 2000), (257, 2042), (258, 2045), (259, 2048), (265, 2090), (267, 2102), (269, 2114),

Gene: Boomer_3 Start: 797, Stop: 2158, Start Num: 39

Candidate Starts for Boomer_3:

(17, 659), (Start: 21 @671 has 85 MA's), (Start: 39 @797 has 6 MA's), (40, 803), (47, 845), (49, 851), (55, 884), (57, 890), (59, 896), (63, 935), (70, 959), (72, 977), (73, 980), (79, 1022), (85, 1043), (91, 1070), (92, 1079), (95, 1088), (96, 1091), (102, 1142), (111, 1220), (115, 1244), (117, 1256), (120, 1277), (125, 1289), (127, 1322), (129, 1328), (139, 1397), (140, 1403), (147, 1436), (153, 1472), (161, 1532), (162, 1541), (165, 1568), (174, 1646), (191, 1742), (205, 1787), (219, 1859), (228, 1898), (233, 1934), (236, 1940), (241, 1964), (247, 1994), (248, 2000), (257, 2042), (258, 2045), (259, 2048), (265, 2090), (267, 2102), (269, 2114),

Gene: BotCity_3 Start: 671, Stop: 2188, Start Num: 21

Candidate Starts for BotCity_3:

(18, 662), (Start: 21 @671 has 85 MA's), (38, 788), (Start: 39 @797 has 6 MA's), (41, 806), (49, 851), (53, 869), (55, 884), (59, 896), (63, 935), (70, 959), (72, 977), (73, 980), (79, 1022), (87, 1049), (91, 1070), (95, 1088), (96, 1091), (97, 1094), (98, 1115), (102, 1142), (109, 1199), (111, 1220), (117, 1256), (118, 1262), (120, 1277), (125, 1289), (129, 1328), (141, 1409), (148, 1451), (161, 1532), (162, 1541), (165, 1568), (172, 1634), (177, 1655), (197, 1757), (205, 1784), (233, 1931), (239, 1943), (241, 1961), (257, 2039), (258, 2042), (259, 2045), (267, 2099), (269, 2111),

Gene: Brookers_3 Start: 671, Stop: 2158, Start Num: 21

Candidate Starts for Brookers_3:

(17, 659), (Start: 21 @671 has 85 MA's), (Start: 39 @797 has 6 MA's), (40, 803), (47, 845), (49, 851), (55, 884), (57, 890), (59, 896), (63, 935), (70, 959), (72, 977), (73, 980), (79, 1022), (85, 1043), (91, 1070), (92, 1079), (95, 1088), (96, 1091), (98, 1115), (102, 1142), (109, 1199), (111, 1220), (115, 1244), (117, 1256), (120, 1277), (125, 1289), (127, 1322), (129, 1328), (139, 1397), (140, 1403), (147, 1436), (153, 1472), (161, 1532), (162, 1541), (165, 1568), (174, 1646), (191, 1742), (205, 1787), (219, 1859), (228, 1898), (233, 1934), (236, 1940), (241, 1964), (247, 1994), (248, 2000), (257, 2042), (258, 2045), (259, 2048), (265, 2090), (267, 2102), (269, 2114),

Gene: Brushbloom_3 Start: 670, Stop: 2157, Start Num: 21

Candidate Starts for Brushbloom_3:

(17, 658), (Start: 21 @670 has 85 MA's), (Start: 39 @796 has 6 MA's), (40, 802), (54, 880), (55, 883), (57, 889), (59, 895), (63, 934), (70, 958), (73, 979), (74, 982), (79, 1021), (85, 1042), (91, 1069), (95, 1087), (96, 1090), (102, 1141), (109, 1198), (111, 1219), (115, 1243), (117, 1255), (120, 1276), (125, 1288), (127, 1321), (129, 1327), (139, 1396), (140, 1402), (147, 1435), (153, 1471), (161, 1531), (162, 1540), (165, 1567), (174, 1645), (191, 1741), (205, 1786), (219, 1858), (228, 1897), (233, 1933), (236,

1939), (241, 1963), (247, 1993), (248, 1999), (257, 2041), (258, 2044), (259, 2047), (265, 2089), (267, 2101),

Gene: Budski_3 Start: 671, Stop: 2188, Start Num: 21

Candidate Starts for Budski_3:

(18, 662), (Start: 21 @671 has 85 MA's), (38, 788), (Start: 39 @797 has 6 MA's), (41, 806), (49, 851), (53, 869), (55, 884), (59, 896), (63, 935), (70, 959), (72, 977), (73, 980), (79, 1022), (87, 1049), (91, 1070), (95, 1088), (96, 1091), (97, 1094), (98, 1115), (102, 1142), (109, 1199), (111, 1220), (117, 1256), (118, 1262), (120, 1277), (125, 1289), (129, 1328), (141, 1409), (148, 1451), (161, 1532), (162, 1541), (165, 1568), (172, 1634), (177, 1655), (197, 1757), (205, 1784), (233, 1931), (239, 1943), (241, 1961), (257, 2039), (258, 2042), (259, 2045), (265, 2087), (267, 2099), (269, 2111),

Gene: BuzzLyseyear_3 Start: 670, Stop: 2157, Start Num: 21

Candidate Starts for BuzzLyseyear_3:

(17, 658), (Start: 21 @670 has 85 MA's), (Start: 39 @796 has 6 MA's), (40, 802), (47, 844), (49, 850), (55, 883), (57, 889), (59, 895), (63, 934), (70, 958), (72, 976), (73, 979), (79, 1021), (85, 1042), (91, 1069), (92, 1078), (95, 1087), (96, 1090), (102, 1141), (109, 1198), (111, 1219), (115, 1243), (117, 1255), (120, 1276), (125, 1288), (127, 1321), (129, 1327), (139, 1396), (140, 1402), (147, 1435), (153, 1471), (161, 1531), (162, 1540), (165, 1567), (174, 1645), (191, 1741), (205, 1786), (219, 1858), (228, 1897), (233, 1933), (236, 1939), (241, 1963), (247, 1993), (248, 1999), (257, 2041), (258, 2044), (259, 2047), (265, 2089), (267, 2101), (269, 2113),

Gene: CabbageMan_2 Start: 437, Stop: 1996, Start Num: 3

Candidate Starts for CabbageMan_2:

(1, 419), (Start: 3 @437 has 7 MA's), (19, 533), (20, 536), (26, 563), (34, 644), (37, 653), (42, 680), (55, 734), (59, 740), (65, 785), (77, 860), (78, 863), (80, 869), (81, 875), (82, 878), (90, 896), (96, 929), (107, 1031), (119, 1106), (123, 1130), (137, 1220), (138, 1223), (143, 1250), (144, 1253), (148, 1277), (150, 1286), (159, 1337), (162, 1358), (167, 1394), (171, 1430), (173, 1454), (183, 1505), (185, 1520), (187, 1532), (195, 1577), (199, 1589), (223, 1730), (238, 1781), (240, 1787), (267, 1934), (268, 1943), (270, 1952),

Gene: Cassini_2 Start: 460, Stop: 1965, Start Num: 25

Candidate Starts for Cassini_2:

(Start: 25 @460 has 3 MA's), (30, 493), (47, 604), (69, 709), (82, 784), (93, 835), (95, 844), (101, 904), (121, 1048), (125, 1060), (132, 1105), (133, 1111), (134, 1126), (147, 1189), (149, 1210), (166, 1333), (167, 1339), (182, 1441), (183, 1447), (196, 1519), (223, 1666), (233, 1714), (234, 1717), (243, 1747), (250, 1795), (265, 1879),

Gene: Cerasum_3 Start: 671, Stop: 2158, Start Num: 21

Candidate Starts for Cerasum_3:

(17, 659), (Start: 21 @671 has 85 MA's), (Start: 39 @797 has 6 MA's), (40, 803), (47, 845), (49, 851), (55, 884), (57, 890), (59, 896), (63, 935), (70, 959), (72, 977), (73, 980), (79, 1022), (85, 1043), (91, 1070), (92, 1079), (95, 1088), (96, 1091), (98, 1115), (102, 1142), (109, 1199), (111, 1220), (115, 1244), (117, 1256), (120, 1277), (125, 1289), (127, 1322), (129, 1328), (139, 1397), (140, 1403), (147, 1436), (153, 1472), (161, 1532), (162, 1541), (165, 1568), (174, 1646), (191, 1742), (205, 1787), (219, 1859), (228, 1898), (233, 1934), (236, 1940), (241, 1964), (247, 1994), (248, 2000), (257, 2042), (258, 2045), (259, 2048), (265, 2090), (267, 2102), (269, 2114),

Gene: Che9d_3 Start: 673, Stop: 2193, Start Num: 21

Candidate Starts for Che9d_3:

(17, 661), (Start: 21 @673 has 85 MA's), (Start: 39 @799 has 6 MA's), (41, 808), (49, 853), (54, 883), (55, 886), (57, 892), (63, 937), (70, 961), (91, 1072), (95, 1090), (96, 1093), (98, 1117), (109, 1201), (114, 1237), (115, 1246), (117, 1258), (118, 1264), (120, 1279), (125, 1291), (126, 1318), (127, 1324),

(129, 1330), (134, 1366), (136, 1375), (140, 1405), (146, 1435), (147, 1438), (161, 1534), (162, 1543), (165, 1570), (176, 1654), (178, 1669), (201, 1780), (205, 1789), (207, 1798), (219, 1861), (233, 1936), (239, 1948), (241, 1966), (248, 2002), (257, 2044), (259, 2050), (265, 2092), (267, 2104), (269, 2116), (273, 2182),

Gene: CheeseDanish_4 Start: 607, Stop: 2163, Start Num: 3

Candidate Starts for CheeseDanish_4:

(Start: 3 @607 has 7 MA's), (5, 619), (10, 658), (19, 700), (20, 703), (26, 730), (34, 811), (37, 820), (42, 847), (55, 901), (59, 907), (65, 952), (77, 1027), (78, 1030), (80, 1036), (81, 1042), (82, 1045), (90, 1063), (119, 1273), (137, 1387), (138, 1390), (143, 1417), (144, 1420), (148, 1444), (150, 1453), (159, 1504), (162, 1525), (171, 1597), (173, 1621), (183, 1672), (185, 1687), (187, 1699), (195, 1744), (199, 1756), (238, 1948), (240, 1954), (267, 2101), (268, 2110), (270, 2119),

Gene: CheeseTouch_3 Start: 671, Stop: 2188, Start Num: 21

Candidate Starts for CheeseTouch_3:

(18, 662), (Start: 21 @671 has 85 MA's), (38, 788), (Start: 39 @797 has 6 MA's), (41, 806), (49, 851), (53, 869), (55, 884), (59, 896), (63, 935), (70, 959), (72, 977), (73, 980), (79, 1022), (87, 1049), (91, 1070), (95, 1088), (96, 1091), (97, 1094), (98, 1115), (102, 1142), (109, 1199), (111, 1220), (117, 1256), (118, 1262), (120, 1277), (125, 1289), (129, 1328), (141, 1409), (148, 1451), (161, 1532), (162, 1541), (165, 1568), (172, 1634), (177, 1655), (197, 1757), (205, 1784), (233, 1931), (239, 1943), (241, 1961), (257, 2039), (258, 2042), (259, 2045), (265, 2087), (267, 2099), (269, 2111),

Gene: ChickenDinner_3 Start: 674, Stop: 2161, Start Num: 21

Candidate Starts for ChickenDinner_3:

(17, 662), (Start: 21 @674 has 85 MA's), (Start: 39 @800 has 6 MA's), (40, 806), (47, 848), (49, 854), (55, 887), (57, 893), (59, 899), (63, 938), (70, 962), (72, 980), (73, 983), (79, 1025), (91, 1073), (92, 1082), (95, 1091), (96, 1094), (102, 1145), (111, 1223), (115, 1247), (117, 1259), (120, 1280), (125, 1292), (127, 1325), (129, 1331), (139, 1400), (140, 1406), (147, 1439), (153, 1475), (161, 1535), (162, 1544), (165, 1571), (174, 1649), (191, 1745), (205, 1790), (219, 1862), (228, 1901), (233, 1937), (236, 1943), (241, 1967), (247, 1997), (248, 2003), (257, 2045), (258, 2048), (259, 2051), (265, 2093), (267, 2105), (269, 2117),

Gene: Coco12_3 Start: 671, Stop: 2158, Start Num: 21

Candidate Starts for Coco12_3:

(17, 659), (Start: 21 @671 has 85 MA's), (Start: 39 @797 has 6 MA's), (40, 803), (47, 845), (49, 851), (55, 884), (57, 890), (59, 896), (63, 935), (70, 959), (72, 977), (73, 980), (79, 1022), (85, 1043), (91, 1070), (92, 1079), (95, 1088), (96, 1091), (98, 1115), (102, 1142), (109, 1199), (111, 1220), (115, 1244), (117, 1256), (120, 1277), (125, 1289), (127, 1322), (129, 1328), (139, 1397), (140, 1403), (147, 1436), (153, 1472), (161, 1532), (162, 1541), (165, 1568), (174, 1646), (191, 1742), (205, 1787), (219, 1859), (228, 1898), (233, 1934), (236, 1940), (241, 1964), (247, 1994), (248, 2000), (257, 2042), (258, 2045), (259, 2048), (265, 2090), (267, 2102), (269, 2114),

Gene: Corgi_4 Start: 607, Stop: 2163, Start Num: 3

Candidate Starts for Corgi_4:

(Start: 3 @607 has 7 MA's), (5, 619), (10, 658), (19, 700), (20, 703), (26, 730), (34, 811), (37, 820), (42, 847), (55, 901), (59, 907), (65, 952), (77, 1027), (78, 1030), (80, 1036), (81, 1042), (82, 1045), (90, 1063), (119, 1273), (137, 1387), (138, 1390), (143, 1417), (144, 1420), (148, 1444), (150, 1453), (159, 1504), (162, 1525), (171, 1597), (173, 1621), (183, 1672), (185, 1687), (187, 1699), (195, 1744), (199, 1756), (238, 1948), (240, 1954), (267, 2101), (268, 2110), (270, 2119),

Gene: Cornucopia_3 Start: 672, Stop: 2159, Start Num: 21

Candidate Starts for Cornucopia_3:

(17, 660), (Start: 21 @672 has 85 MA's), (Start: 39 @798 has 6 MA's), (40, 804), (47, 846), (54, 882), (55, 885), (57, 891), (59, 897), (63, 936), (66, 945), (73, 981), (79, 1023), (91, 1071), (95, 1089), (96, 1092), (102, 1143), (109, 1200), (111, 1221), (115, 1245), (117, 1257), (120, 1278), (125, 1290), (127, 1323), (129, 1329), (139, 1398), (140, 1404), (147, 1437), (153, 1473), (161, 1533), (162, 1542), (165, 1569), (174, 1647), (191, 1743), (205, 1788), (219, 1860), (228, 1899), (233, 1935), (236, 1941), (241, 1965), (247, 1995), (248, 2001), (257, 2043), (258, 2046), (259, 2049), (265, 2091), (267, 2103),

Gene: DaWorst_3 Start: 671, Stop: 2158, Start Num: 21

Candidate Starts for DaWorst_3:

(17, 659), (Start: 21 @671 has 85 MA's), (Start: 39 @797 has 6 MA's), (40, 803), (47, 845), (49, 851), (55, 884), (57, 890), (59, 896), (63, 935), (70, 959), (72, 977), (73, 980), (79, 1022), (85, 1043), (91, 1070), (92, 1079), (95, 1088), (96, 1091), (102, 1142), (109, 1199), (111, 1220), (115, 1244), (117, 1256), (120, 1277), (125, 1289), (127, 1322), (129, 1328), (139, 1397), (140, 1403), (147, 1436), (153, 1472), (161, 1532), (162, 1541), (165, 1568), (174, 1646), (191, 1742), (205, 1787), (219, 1859), (228, 1898), (233, 1934), (236, 1940), (241, 1964), (247, 1994), (248, 2000), (257, 2042), (258, 2045), (259, 2048), (265, 2090), (267, 2102), (269, 2114),

Gene: Demsculpinboyz_3 Start: 664, Stop: 2184, Start Num: 21

Candidate Starts for Demsculpinboyz_3:

(17, 652), (Start: 21 @664 has 85 MA's), (Start: 39 @790 has 6 MA's), (41, 799), (49, 844), (54, 874), (55, 877), (57, 883), (63, 928), (70, 952), (91, 1063), (95, 1081), (96, 1084), (98, 1108), (109, 1192), (114, 1228), (115, 1237), (117, 1249), (118, 1255), (120, 1270), (125, 1282), (126, 1309), (127, 1315), (129, 1321), (134, 1357), (136, 1366), (140, 1396), (146, 1426), (147, 1429), (161, 1525), (162, 1534), (165, 1561), (176, 1645), (178, 1660), (201, 1771), (205, 1780), (207, 1789), (233, 1927), (239, 1939), (241, 1957), (248, 1993), (257, 2035), (259, 2041), (265, 2083), (267, 2095), (269, 2107), (273, 2173),

Gene: DirtMcgirt_3 Start: 671, Stop: 2158, Start Num: 21

Candidate Starts for DirtMcgirt_3:

(17, 659), (Start: 21 @671 has 85 MA's), (Start: 39 @797 has 6 MA's), (40, 803), (47, 845), (49, 851), (55, 884), (57, 890), (59, 896), (63, 935), (70, 959), (72, 977), (73, 980), (79, 1022), (85, 1043), (91, 1070), (92, 1079), (95, 1088), (96, 1091), (102, 1142), (109, 1199), (111, 1220), (115, 1244), (117, 1256), (120, 1277), (125, 1289), (127, 1322), (129, 1328), (139, 1397), (140, 1403), (147, 1436), (153, 1472), (161, 1532), (162, 1541), (165, 1568), (174, 1646), (191, 1742), (205, 1787), (219, 1859), (228, 1898), (233, 1934), (236, 1940), (241, 1964), (247, 1994), (248, 2000), (257, 2042), (258, 2045), (259, 2048), (265, 2090), (267, 2102),

Gene: DocMcStuffins_3 Start: 674, Stop: 2161, Start Num: 21

Candidate Starts for DocMcStuffins_3:

(17, 662), (Start: 21 @674 has 85 MA's), (Start: 39 @800 has 6 MA's), (40, 806), (47, 848), (49, 854), (55, 887), (57, 893), (59, 899), (63, 938), (70, 962), (72, 980), (73, 983), (79, 1025), (91, 1073), (92, 1082), (95, 1091), (96, 1094), (102, 1145), (111, 1223), (115, 1247), (117, 1259), (120, 1280), (125, 1292), (127, 1325), (129, 1331), (139, 1400), (140, 1406), (147, 1439), (153, 1475), (161, 1535), (162, 1544), (165, 1571), (174, 1649), (191, 1745), (205, 1790), (219, 1862), (228, 1901), (233, 1937), (236, 1943), (241, 1967), (247, 1997), (248, 2003), (257, 2045), (258, 2048), (259, 2051), (265, 2093), (267, 2105), (269, 2117),

Gene: Doomslug_3 Start: 802, Stop: 2157, Start Num: 40

Candidate Starts for Doomslug_3:

(17, 658), (Start: 21 @670 has 85 MA's), (Start: 39 @796 has 6 MA's), (40, 802), (54, 880), (55, 883), (57, 889), (59, 895), (63, 934), (70, 958), (73, 979), (74, 982), (79, 1021), (85, 1042), (91, 1069), (95, 1087), (96, 1090), (102, 1141), (109, 1198), (111, 1219), (115, 1243), (117, 1255), (120, 1276), (125, 1288), (127, 1321), (129, 1327), (139, 1396), (140, 1402), (147, 1435), (153, 1471), (161, 1531), (162, 1540), (165, 1567), (174, 1645), (191, 1741), (205, 1786), (219, 1858), (228, 1897), (233, 1933), (236,

1939), (241, 1963), (247, 1993), (248, 1999), (257, 2041), (258, 2044), (259, 2047), (265, 2089), (267, 2101),

Gene: DosHalletts_3 Start: 671, Stop: 2158, Start Num: 21

Candidate Starts for DosHalletts_3:

(17, 659), (Start: 21 @671 has 85 MA's), (Start: 39 @797 has 6 MA's), (40, 803), (47, 845), (49, 851), (55, 884), (57, 890), (59, 896), (63, 935), (70, 959), (72, 977), (73, 980), (79, 1022), (85, 1043), (91, 1070), (92, 1079), (95, 1088), (96, 1091), (102, 1142), (111, 1220), (115, 1244), (117, 1256), (120, 1277), (125, 1289), (127, 1322), (129, 1328), (139, 1397), (140, 1403), (147, 1436), (153, 1472), (161, 1532), (162, 1541), (165, 1568), (174, 1646), (191, 1742), (205, 1787), (219, 1859), (228, 1898), (233, 1934), (236, 1940), (241, 1964), (247, 1994), (248, 2000), (257, 2042), (258, 2045), (259, 2048), (265, 2090), (267, 2102), (269, 2114),

Gene: Drago_3 Start: 797, Stop: 2158, Start Num: 39

Candidate Starts for Drago_3:

(17, 659), (Start: 21 @671 has 85 MA's), (Start: 39 @797 has 6 MA's), (40, 803), (47, 845), (49, 851), (55, 884), (57, 890), (59, 896), (63, 935), (70, 959), (72, 977), (73, 980), (79, 1022), (85, 1043), (91, 1070), (92, 1079), (95, 1088), (96, 1091), (98, 1115), (102, 1142), (109, 1199), (111, 1220), (115, 1244), (117, 1256), (120, 1277), (125, 1289), (127, 1322), (129, 1328), (139, 1397), (140, 1403), (147, 1436), (153, 1472), (161, 1532), (162, 1541), (165, 1568), (174, 1646), (191, 1742), (205, 1787), (219, 1859), (228, 1898), (233, 1934), (236, 1940), (241, 1964), (247, 1994), (248, 2000), (257, 2042), (258, 2045), (259, 2048), (265, 2090), (267, 2102), (269, 2114),

Gene: Ecliptus_3 Start: 673, Stop: 2190, Start Num: 21

Candidate Starts for Ecliptus_3:

(18, 664), (Start: 21 @673 has 85 MA's), (38, 790), (Start: 39 @799 has 6 MA's), (41, 808), (53, 871), (55, 886), (59, 898), (63, 937), (72, 979), (73, 982), (79, 1024), (87, 1051), (91, 1072), (95, 1090), (97, 1096), (98, 1117), (102, 1144), (109, 1201), (111, 1222), (117, 1258), (118, 1264), (120, 1279), (125, 1291), (129, 1330), (141, 1411), (161, 1534), (162, 1543), (165, 1570), (170, 1609), (172, 1636), (177, 1657), (197, 1759), (205, 1786), (233, 1933), (239, 1945), (241, 1963), (257, 2041), (258, 2044), (259, 2047), (265, 2089), (267, 2101), (269, 2113),

Gene: Emmaloid_3 Start: 672, Stop: 2159, Start Num: 21

Candidate Starts for Emmaloid_3:

(17, 660), (Start: 21 @672 has 85 MA's), (Start: 39 @798 has 6 MA's), (40, 804), (47, 846), (49, 852), (55, 885), (57, 891), (59, 897), (63, 936), (70, 960), (72, 978), (73, 981), (79, 1023), (85, 1044), (91, 1071), (92, 1080), (95, 1089), (96, 1092), (102, 1143), (111, 1221), (115, 1245), (117, 1257), (120, 1278), (125, 1290), (127, 1323), (129, 1329), (139, 1398), (140, 1404), (147, 1437), (153, 1473), (161, 1533), (162, 1542), (165, 1569), (174, 1647), (191, 1743), (205, 1788), (219, 1860), (228, 1899), (233, 1935), (236, 1941), (241, 1965), (247, 1995), (248, 2001), (257, 2043), (258, 2046), (259, 2049), (265, 2091), (267, 2103), (269, 2115),

Gene: Enby_3 Start: 671, Stop: 2158, Start Num: 21

Candidate Starts for Enby_3:

(17, 659), (Start: 21 @671 has 85 MA's), (Start: 39 @797 has 6 MA's), (40, 803), (47, 845), (49, 851), (55, 884), (57, 890), (59, 896), (63, 935), (70, 959), (72, 977), (73, 980), (79, 1022), (85, 1043), (91, 1070), (92, 1079), (95, 1088), (96, 1091), (98, 1115), (102, 1142), (109, 1199), (111, 1220), (115, 1244), (117, 1256), (120, 1277), (125, 1289), (127, 1322), (129, 1328), (139, 1397), (140, 1403), (147, 1436), (153, 1472), (161, 1532), (162, 1541), (165, 1568), (174, 1646), (191, 1742), (205, 1787), (219, 1859), (228, 1898), (233, 1934), (236, 1940), (241, 1964), (247, 1994), (248, 2000), (257, 2042), (258, 2045), (259, 2048), (265, 2090), (267, 2102), (269, 2114),

Gene: Flathead_3 Start: 670, Stop: 2157, Start Num: 21

Candidate Starts for Flathead_3:

(17, 658), (Start: 21 @670 has 85 MA's), (Start: 39 @796 has 6 MA's), (40, 802), (54, 880), (55, 883), (57, 889), (59, 895), (63, 934), (70, 958), (73, 979), (74, 982), (79, 1021), (85, 1042), (91, 1069), (95, 1087), (96, 1090), (102, 1141), (109, 1198), (111, 1219), (115, 1243), (117, 1255), (120, 1276), (125, 1288), (127, 1321), (129, 1327), (139, 1396), (140, 1402), (147, 1435), (153, 1471), (161, 1531), (162, 1540), (165, 1567), (174, 1645), (191, 1741), (205, 1786), (219, 1858), (228, 1897), (233, 1933), (236, 1939), (241, 1963), (247, 1993), (248, 1999), (257, 2041), (258, 2044), (259, 2047), (265, 2089), (267, 2101),

Gene: Frankie_3 Start: 670, Stop: 2157, Start Num: 21

Candidate Starts for Frankie_3:

(17, 658), (Start: 21 @670 has 85 MA's), (Start: 39 @796 has 6 MA's), (40, 802), (47, 844), (49, 850), (55, 883), (57, 889), (59, 895), (63, 934), (70, 958), (72, 976), (73, 979), (79, 1021), (85, 1042), (91, 1069), (92, 1078), (95, 1087), (96, 1090), (102, 1141), (109, 1198), (111, 1219), (115, 1243), (117, 1255), (120, 1276), (125, 1288), (127, 1321), (129, 1327), (139, 1396), (140, 1402), (147, 1435), (153, 1471), (161, 1531), (162, 1540), (165, 1567), (174, 1645), (191, 1741), (205, 1786), (219, 1858), (228, 1897), (233, 1933), (236, 1939), (241, 1963), (247, 1993), (248, 1999), (257, 2041), (258, 2044), (259, 2047), (265, 2089), (267, 2101), (269, 2113),

Gene: Frickyeah_3 Start: 673, Stop: 2190, Start Num: 21

Candidate Starts for Frickyeah_3:

(18, 664), (Start: 21 @673 has 85 MA's), (38, 790), (Start: 39 @799 has 6 MA's), (49, 853), (55, 886), (63, 937), (66, 946), (73, 982), (79, 1024), (85, 1045), (89, 1057), (91, 1072), (95, 1090), (96, 1093), (97, 1096), (98, 1117), (102, 1144), (109, 1201), (115, 1246), (117, 1258), (120, 1279), (125, 1291), (126, 1318), (129, 1330), (141, 1411), (152, 1471), (155, 1483), (158, 1507), (162, 1543), (165, 1570), (168, 1603), (177, 1657), (197, 1759), (205, 1786), (233, 1933), (239, 1945), (241, 1963), (257, 2041), (258, 2044), (259, 2047), (267, 2101), (269, 2113),

Gene: Getalong_3 Start: 673, Stop: 2190, Start Num: 21

Candidate Starts for Getalong_3:

(18, 664), (Start: 21 @673 has 85 MA's), (38, 790), (Start: 39 @799 has 6 MA's), (49, 853), (55, 886), (63, 937), (66, 946), (73, 982), (79, 1024), (85, 1045), (89, 1057), (91, 1072), (95, 1090), (96, 1093), (97, 1096), (98, 1117), (102, 1144), (109, 1201), (115, 1246), (116, 1249), (117, 1258), (120, 1279), (125, 1291), (126, 1318), (129, 1330), (139, 1399), (141, 1411), (155, 1483), (158, 1507), (162, 1543), (165, 1570), (172, 1636), (177, 1657), (197, 1759), (205, 1786), (239, 1945), (241, 1963), (257, 2041), (258, 2044), (259, 2047), (265, 2089), (267, 2101), (269, 2113),

Gene: Girafales_3 Start: 672, Stop: 2159, Start Num: 21

Candidate Starts for Girafales_3:

(17, 660), (Start: 21 @672 has 85 MA's), (38, 789), (Start: 39 @798 has 6 MA's), (41, 807), (54, 882), (55, 885), (57, 891), (63, 936), (64, 939), (70, 960), (72, 978), (91, 1071), (95, 1089), (96, 1092), (98, 1116), (109, 1200), (115, 1245), (117, 1257), (120, 1278), (125, 1290), (126, 1317), (129, 1329), (140, 1404), (146, 1434), (147, 1437), (155, 1482), (161, 1533), (162, 1542), (165, 1569), (168, 1602), (174, 1647), (182, 1680), (231, 1920), (233, 1935), (236, 1941), (241, 1965), (257, 2043), (258, 2046), (259, 2049), (265, 2091), (267, 2103), (269, 2115),

Gene: Hegedechwinu_3 Start: 670, Stop: 2157, Start Num: 21

Candidate Starts for Hegedechwinu_3:

(17, 658), (Start: 21 @670 has 85 MA's), (Start: 39 @796 has 6 MA's), (40, 802), (54, 880), (55, 883), (57, 889), (59, 895), (63, 934), (70, 958), (73, 979), (74, 982), (79, 1021), (85, 1042), (91, 1069), (95, 1087), (96, 1090), (102, 1141), (109, 1198), (111, 1219), (115, 1243), (117, 1255), (120, 1276), (125, 1288), (127, 1321), (129, 1327), (139, 1396), (140, 1402), (147, 1435), (153, 1471), (161, 1531), (162, 1540), (165, 1567), (174, 1645), (191, 1741), (205, 1786), (219, 1858), (228, 1897), (233, 1933), (236,

1939), (241, 1963), (247, 1993), (248, 1999), (257, 2041), (258, 2044), (259, 2047), (265, 2089), (267, 2101),

Gene: Holliday_3 Start: 671, Stop: 2188, Start Num: 21

Candidate Starts for Holliday_3:

(18, 662), (Start: 21 @671 has 85 MA's), (38, 788), (Start: 39 @797 has 6 MA's), (41, 806), (49, 851), (53, 869), (55, 884), (59, 896), (63, 935), (70, 959), (72, 977), (73, 980), (79, 1022), (87, 1049), (91, 1070), (95, 1088), (96, 1091), (97, 1094), (98, 1115), (102, 1142), (109, 1199), (111, 1220), (117, 1256), (118, 1262), (120, 1277), (125, 1289), (129, 1328), (141, 1409), (148, 1451), (161, 1532), (162, 1541), (165, 1568), (172, 1634), (177, 1655), (197, 1757), (205, 1784), (233, 1931), (239, 1943), (241, 1961), (257, 2039), (258, 2042), (259, 2045), (265, 2087), (267, 2099), (269, 2111),

Gene: Horus_3 Start: 673, Stop: 2190, Start Num: 21

Candidate Starts for Horus_3:

(18, 664), (Start: 21 @673 has 85 MA's), (34, 775), (38, 790), (Start: 39 @799 has 6 MA's), (41, 808), (47, 847), (49, 853), (55, 886), (62, 934), (63, 937), (66, 946), (72, 979), (73, 982), (79, 1024), (89, 1057), (91, 1072), (95, 1090), (96, 1093), (97, 1096), (98, 1117), (102, 1144), (109, 1201), (115, 1246), (116, 1249), (117, 1258), (120, 1279), (125, 1291), (126, 1318), (127, 1324), (129, 1330), (139, 1399), (141, 1411), (155, 1483), (158, 1507), (162, 1543), (165, 1570), (177, 1657), (182, 1681), (197, 1759), (205, 1786), (207, 1795), (233, 1933), (239, 1945), (241, 1963), (257, 2041), (259, 2047), (265, 2089), (267, 2101), (269, 2113), (274, 2182),

Gene: Idaho_3 Start: 471, Stop: 2039, Start Num: 2

Candidate Starts for Idaho_3:

(Start: 2 @471 has 1 MA's), (19, 576), (34, 684), (36, 687), (65, 825), (77, 900), (78, 903), (80, 909), (81, 915), (88, 927), (90, 936), (96, 969), (107, 1071), (119, 1146), (137, 1260), (143, 1290), (144, 1293), (148, 1317), (156, 1347), (157, 1359), (159, 1377), (162, 1398), (171, 1470), (175, 1503), (183, 1545), (185, 1560), (187, 1572), (195, 1617), (199, 1629), (201, 1644), (206, 1668), (213, 1719), (218, 1737), (226, 1779), (229, 1785), (230, 1794), (256, 1917), (263, 1953), (268, 1983),

Gene: Jabbawokkie_4 Start: 1187, Stop: 2707, Start Num: 21

Candidate Starts for Jabbawokkie_4:

(17, 1175), (Start: 21 @1187 has 85 MA's), (Start: 39 @1313 has 6 MA's), (41, 1322), (49, 1367), (54, 1397), (55, 1400), (57, 1406), (63, 1451), (70, 1475), (73, 1496), (79, 1538), (85, 1559), (91, 1586), (95, 1604), (96, 1607), (98, 1631), (102, 1658), (109, 1715), (114, 1751), (115, 1760), (117, 1772), (118, 1778), (120, 1793), (125, 1805), (127, 1838), (129, 1844), (134, 1880), (136, 1889), (140, 1919), (146, 1949), (147, 1952), (161, 2048), (162, 2057), (165, 2084), (176, 2168), (178, 2183), (201, 2294), (205, 2303), (207, 2312), (219, 2375), (233, 2450), (239, 2462), (241, 2480), (248, 2516), (257, 2558), (259, 2564), (265, 2606), (267, 2618), (269, 2630), (273, 2696),

Gene: JalFarm20_3 Start: 671, Stop: 2158, Start Num: 21

Candidate Starts for JalFarm20_3:

(17, 659), (Start: 21 @671 has 85 MA's), (Start: 39 @797 has 6 MA's), (40, 803), (47, 845), (49, 851), (55, 884), (57, 890), (59, 896), (63, 935), (70, 959), (72, 977), (73, 980), (79, 1022), (85, 1043), (91, 1070), (92, 1079), (95, 1088), (96, 1091), (102, 1142), (111, 1220), (115, 1244), (117, 1256), (120, 1277), (125, 1289), (127, 1322), (129, 1328), (139, 1397), (140, 1403), (147, 1436), (153, 1472), (161, 1532), (162, 1541), (165, 1568), (174, 1646), (191, 1742), (205, 1787), (219, 1859), (228, 1898), (233, 1934), (236, 1940), (241, 1964), (247, 1994), (248, 2000), (257, 2042), (258, 2045), (259, 2048), (265, 2090), (267, 2102), (269, 2114),

Gene: Job42_3 Start: 670, Stop: 2157, Start Num: 21

Candidate Starts for Job42_3:

(17, 658), (Start: 21 @670 has 85 MA's), (Start: 39 @796 has 6 MA's), (40, 802), (47, 844), (49, 850), (55, 883), (57, 889), (59, 895), (63, 934), (70, 958), (72, 976), (73, 979), (79, 1021), (91, 1069), (92, 1078), (95, 1087), (96, 1090), (102, 1141), (111, 1219), (115, 1243), (117, 1255), (120, 1276), (125, 1288), (127, 1321), (129, 1327), (139, 1396), (140, 1402), (147, 1435), (153, 1471), (161, 1531), (162, 1540), (165, 1567), (174, 1645), (191, 1741), (205, 1786), (219, 1858), (222, 1879), (228, 1897), (233, 1933), (236, 1939), (241, 1963), (247, 1993), (248, 1999), (257, 2041), (258, 2044), (259, 2047), (265, 2089), (267, 2101), (269, 2113),

Gene: Juice456_3 Start: 797, Stop: 2158, Start Num: 39

Candidate Starts for Juice456_3:

(17, 659), (Start: 21 @671 has 85 MA's), (Start: 39 @797 has 6 MA's), (40, 803), (54, 881), (55, 884), (57, 890), (59, 896), (63, 935), (70, 959), (73, 980), (74, 983), (79, 1022), (85, 1043), (91, 1070), (95, 1088), (96, 1091), (102, 1142), (109, 1199), (111, 1220), (115, 1244), (117, 1256), (120, 1277), (125, 1289), (127, 1322), (129, 1328), (139, 1397), (140, 1403), (147, 1436), (153, 1472), (161, 1532), (162, 1541), (165, 1568), (174, 1646), (191, 1742), (205, 1787), (219, 1859), (228, 1898), (233, 1934), (236, 1940), (241, 1964), (247, 1994), (248, 2000), (257, 2042), (258, 2045), (259, 2048), (265, 2090), (267, 2102),

Gene: KNG13_4 Start: 607, Stop: 2163, Start Num: 3

Candidate Starts for KNG13_4:

(Start: 3 @607 has 7 MA's), (5, 619), (10, 658), (19, 700), (20, 703), (26, 730), (34, 811), (37, 820), (42, 847), (55, 901), (59, 907), (77, 1027), (78, 1030), (80, 1036), (81, 1042), (82, 1045), (90, 1063), (119, 1273), (137, 1387), (138, 1390), (143, 1417), (144, 1420), (148, 1444), (150, 1453), (159, 1504), (162, 1525), (171, 1597), (173, 1621), (183, 1672), (185, 1687), (187, 1699), (195, 1744), (199, 1756), (238, 1948), (240, 1954), (267, 2101), (268, 2110), (270, 2119),

Gene: Kamaru_3 Start: 671, Stop: 2188, Start Num: 21

Candidate Starts for Kamaru_3:

(18, 662), (Start: 21 @671 has 85 MA's), (38, 788), (Start: 39 @797 has 6 MA's), (41, 806), (49, 851), (53, 869), (55, 884), (59, 896), (63, 935), (70, 959), (72, 977), (73, 980), (79, 1022), (87, 1049), (91, 1070), (95, 1088), (96, 1091), (97, 1094), (98, 1115), (102, 1142), (109, 1199), (111, 1220), (117, 1256), (118, 1262), (120, 1277), (125, 1289), (129, 1328), (141, 1409), (148, 1451), (161, 1532), (162, 1541), (165, 1568), (172, 1634), (177, 1655), (197, 1757), (205, 1784), (233, 1931), (239, 1943), (241, 1961), (257, 2039), (258, 2042), (259, 2045), (265, 2087), (267, 2099), (269, 2111),

Gene: Kenna_3 Start: 673, Stop: 2190, Start Num: 21

Candidate Starts for Kenna_3:

(18, 664), (Start: 21 @673 has 85 MA's), (34, 775), (38, 790), (Start: 39 @799 has 6 MA's), (41, 808), (47, 847), (49, 853), (55, 886), (62, 934), (63, 937), (66, 946), (72, 979), (73, 982), (79, 1024), (89, 1057), (91, 1072), (95, 1090), (96, 1093), (97, 1096), (98, 1117), (102, 1144), (109, 1201), (115, 1246), (116, 1249), (117, 1258), (120, 1279), (125, 1291), (126, 1318), (127, 1324), (129, 1330), (139, 1399), (141, 1411), (155, 1483), (158, 1507), (162, 1543), (165, 1570), (177, 1657), (182, 1681), (197, 1759), (205, 1786), (207, 1795), (233, 1933), (239, 1945), (241, 1963), (257, 2041), (259, 2047), (265, 2089), (267, 2101), (269, 2113), (274, 2182),

Gene: Kimberlium_3 Start: 671, Stop: 2158, Start Num: 21

Candidate Starts for Kimberlium_3:

(17, 659), (Start: 21 @671 has 85 MA's), (Start: 39 @797 has 6 MA's), (40, 803), (54, 881), (55, 884), (57, 890), (59, 896), (63, 935), (70, 959), (73, 980), (74, 983), (79, 1022), (85, 1043), (91, 1070), (95, 1088), (96, 1091), (102, 1142), (109, 1199), (111, 1220), (115, 1244), (117, 1256), (120, 1277), (125, 1289), (127, 1322), (129, 1328), (139, 1397), (140, 1403), (147, 1436), (153, 1472), (161, 1532), (162, 1541), (165, 1568), (174, 1646), (191, 1742), (205, 1787), (219, 1859), (228, 1898), (233, 1934), (236, 1940), (241, 1964), (247, 1994), (248, 2000), (257, 2042), (258, 2045), (259, 2048), (265, 2090), (267, 2102),

2102),

Gene: Kingsley_3 Start: 671, Stop: 2158, Start Num: 21

Candidate Starts for Kingsley_3:

(17, 659), (Start: 21 @671 has 85 MA's), (Start: 39 @797 has 6 MA's), (40, 803), (47, 845), (49, 851), (55, 884), (57, 890), (59, 896), (63, 935), (70, 959), (72, 977), (73, 980), (79, 1022), (85, 1043), (91, 1070), (92, 1079), (95, 1088), (96, 1091), (98, 1115), (102, 1142), (109, 1199), (111, 1220), (115, 1244), (117, 1256), (120, 1277), (125, 1289), (127, 1322), (129, 1328), (139, 1397), (140, 1403), (147, 1436), (153, 1472), (161, 1532), (162, 1541), (165, 1568), (174, 1646), (191, 1742), (205, 1787), (219, 1859), (228, 1898), (233, 1934), (236, 1940), (241, 1964), (247, 1994), (248, 2000), (257, 2042), (258, 2045), (259, 2048), (265, 2090), (267, 2102), (269, 2114),

Gene: LauKoruNamu_3 Start: 437, Stop: 1996, Start Num: 3

Candidate Starts for LauKoruNamu_3:

(1, 419), (Start: 3 @437 has 7 MA's), (19, 533), (20, 536), (26, 563), (34, 644), (37, 653), (42, 680), (55, 734), (59, 740), (65, 785), (77, 860), (78, 863), (80, 869), (81, 875), (82, 878), (90, 896), (96, 929), (107, 1031), (119, 1106), (123, 1130), (137, 1220), (138, 1223), (143, 1250), (144, 1253), (148, 1277), (150, 1286), (159, 1337), (162, 1358), (167, 1394), (171, 1430), (173, 1454), (183, 1505), (185, 1520), (187, 1532), (195, 1577), (199, 1589), (223, 1730), (238, 1781), (240, 1787), (267, 1934), (268, 1943), (270, 1952),

Gene: Leozinho_3 Start: 671, Stop: 2158, Start Num: 21

Candidate Starts for Leozinho_3:

(17, 659), (Start: 21 @671 has 85 MA's), (Start: 39 @797 has 6 MA's), (40, 803), (47, 845), (49, 851), (55, 884), (57, 890), (59, 896), (63, 935), (70, 959), (72, 977), (73, 980), (79, 1022), (85, 1043), (91, 1070), (92, 1079), (95, 1088), (96, 1091), (102, 1142), (109, 1199), (111, 1220), (115, 1244), (117, 1256), (120, 1277), (125, 1289), (127, 1322), (129, 1328), (139, 1397), (140, 1403), (147, 1436), (153, 1472), (161, 1532), (162, 1541), (165, 1568), (174, 1646), (191, 1742), (205, 1787), (219, 1859), (228, 1898), (233, 1934), (236, 1940), (241, 1964), (247, 1994), (248, 2000), (257, 2042), (258, 2045), (259, 2048), (265, 2090), (267, 2102), (269, 2114),

Gene: Leroy_3 Start: 674, Stop: 2191, Start Num: 21

Candidate Starts for Leroy_3:

(18, 665), (Start: 21 @674 has 85 MA's), (38, 791), (Start: 39 @800 has 6 MA's), (41, 809), (49, 854), (55, 887), (63, 938), (66, 947), (73, 983), (79, 1025), (85, 1046), (89, 1058), (91, 1073), (95, 1091), (96, 1094), (97, 1097), (98, 1118), (102, 1145), (109, 1202), (115, 1247), (117, 1259), (120, 1280), (125, 1292), (126, 1319), (129, 1331), (141, 1412), (155, 1484), (158, 1508), (162, 1544), (165, 1571), (168, 1604), (177, 1658), (197, 1760), (205, 1787), (233, 1934), (239, 1946), (241, 1964), (257, 2042), (258, 2045), (259, 2048), (267, 2102), (269, 2114),

Gene: LitninMcQueen_3 Start: 671, Stop: 2188, Start Num: 21

Candidate Starts for LitninMcQueen_3:

(18, 662), (Start: 21 @671 has 85 MA's), (38, 788), (Start: 39 @797 has 6 MA's), (41, 806), (49, 851), (53, 869), (55, 884), (59, 896), (63, 935), (70, 959), (72, 977), (73, 980), (79, 1022), (87, 1049), (91, 1070), (95, 1088), (96, 1091), (97, 1094), (98, 1115), (102, 1142), (109, 1199), (111, 1220), (117, 1256), (118, 1262), (120, 1277), (125, 1289), (129, 1328), (141, 1409), (148, 1451), (161, 1532), (162, 1541), (165, 1568), (172, 1634), (177, 1655), (197, 1757), (205, 1784), (233, 1931), (239, 1943), (241, 1961), (257, 2039), (258, 2042), (259, 2045), (265, 2087), (267, 2099), (269, 2111),

Gene: LittleShirley_3 Start: 798, Stop: 2159, Start Num: 39

Candidate Starts for LittleShirley_3:

(17, 660), (Start: 21 @672 has 85 MA's), (Start: 39 @798 has 6 MA's), (40, 804), (47, 846), (49, 852), (55, 885), (57, 891), (59, 897), (63, 936), (70, 960), (72, 978), (73, 981), (79, 1023), (85, 1044), (91,

1071), (92, 1080), (95, 1089), (96, 1092), (102, 1143), (111, 1221), (115, 1245), (117, 1257), (120, 1278), (125, 1290), (127, 1323), (129, 1329), (139, 1398), (140, 1404), (147, 1437), (153, 1473), (161, 1533), (162, 1542), (165, 1569), (174, 1647), (191, 1743), (205, 1788), (219, 1860), (228, 1899), (233, 1935), (236, 1941), (241, 1965), (247, 1995), (248, 2001), (257, 2043), (258, 2046), (259, 2049), (265, 2091), (267, 2103), (269, 2115),

Gene: LordVader_3 Start: 666, Stop: 2153, Start Num: 21

Candidate Starts for LordVader_3:

(17, 654), (Start: 21 @666 has 85 MA's), (Start: 39 @792 has 6 MA's), (41, 801), (55, 879), (57, 885), (63, 930), (64, 933), (72, 972), (74, 978), (91, 1065), (96, 1086), (109, 1194), (115, 1239), (117, 1251), (120, 1272), (125, 1284), (127, 1317), (129, 1323), (139, 1392), (140, 1398), (147, 1431), (161, 1527), (162, 1536), (165, 1563), (174, 1641), (182, 1674), (191, 1737), (205, 1782), (219, 1854), (228, 1893), (233, 1929), (236, 1935), (241, 1959), (247, 1989), (248, 1995), (257, 2037), (258, 2040), (259, 2043), (265, 2085), (267, 2097), (269, 2109),

Gene: Lorde_3 Start: 671, Stop: 2158, Start Num: 21

Candidate Starts for Lorde_3:

(17, 659), (Start: 21 @671 has 85 MA's), (Start: 39 @797 has 6 MA's), (40, 803), (47, 845), (49, 851), (55, 884), (57, 890), (59, 896), (63, 935), (70, 959), (72, 977), (73, 980), (79, 1022), (85, 1043), (91, 1070), (92, 1079), (95, 1088), (96, 1091), (98, 1115), (102, 1142), (109, 1199), (111, 1220), (115, 1244), (117, 1256), (120, 1277), (125, 1289), (127, 1322), (129, 1328), (139, 1397), (140, 1403), (147, 1436), (153, 1472), (161, 1532), (162, 1541), (165, 1568), (174, 1646), (191, 1742), (205, 1787), (219, 1859), (228, 1898), (233, 1934), (236, 1940), (241, 1964), (247, 1994), (248, 2000), (257, 2042), (258, 2045), (259, 2048), (265, 2090), (267, 2102), (269, 2114),

Gene: Lucia_3 Start: 671, Stop: 2158, Start Num: 21

Candidate Starts for Lucia_3:

(17, 659), (Start: 21 @671 has 85 MA's), (Start: 39 @797 has 6 MA's), (40, 803), (47, 845), (49, 851), (55, 884), (57, 890), (59, 896), (63, 935), (70, 959), (72, 977), (73, 980), (79, 1022), (85, 1043), (91, 1070), (92, 1079), (95, 1088), (96, 1091), (98, 1115), (102, 1142), (109, 1199), (111, 1220), (115, 1244), (117, 1256), (120, 1277), (125, 1289), (127, 1322), (129, 1328), (139, 1397), (140, 1403), (147, 1436), (153, 1472), (161, 1532), (162, 1541), (165, 1568), (174, 1646), (191, 1742), (205, 1787), (219, 1859), (228, 1898), (233, 1934), (236, 1940), (241, 1964), (247, 1994), (248, 2000), (257, 2042), (258, 2045), (259, 2048), (265, 2090), (267, 2102), (269, 2114),

Gene: Lutum_3 Start: 673, Stop: 2190, Start Num: 21

Candidate Starts for Lutum_3:

(18, 664), (Start: 21 @673 has 85 MA's), (34, 775), (38, 790), (Start: 39 @799 has 6 MA's), (41, 808), (47, 847), (49, 853), (55, 886), (62, 934), (63, 937), (66, 946), (72, 979), (73, 982), (79, 1024), (89, 1057), (91, 1072), (95, 1090), (96, 1093), (97, 1096), (98, 1117), (102, 1144), (109, 1201), (115, 1246), (116, 1249), (117, 1258), (120, 1279), (125, 1291), (126, 1318), (127, 1324), (129, 1330), (139, 1399), (141, 1411), (155, 1483), (158, 1507), (162, 1543), (165, 1570), (177, 1657), (182, 1681), (197, 1759), (205, 1786), (207, 1795), (233, 1933), (239, 1945), (241, 1963), (257, 2041), (259, 2047), (265, 2089), (267, 2101), (269, 2113), (274, 2182),

Gene: Madiba_3 Start: 670, Stop: 2157, Start Num: 21

Candidate Starts for Madiba_3:

(17, 658), (Start: 21 @670 has 85 MA's), (Start: 39 @796 has 6 MA's), (40, 802), (47, 844), (49, 850), (55, 883), (57, 889), (59, 895), (63, 934), (70, 958), (72, 976), (73, 979), (79, 1021), (85, 1042), (91, 1069), (92, 1078), (95, 1087), (96, 1090), (102, 1141), (109, 1198), (111, 1219), (115, 1243), (117, 1255), (120, 1276), (125, 1288), (127, 1321), (129, 1327), (139, 1396), (140, 1402), (147, 1435), (153, 1471), (161, 1531), (162, 1540), (165, 1567), (174, 1645), (191, 1741), (205, 1786), (219, 1858), (228, 1897), (233, 1933), (236, 1939), (241, 1963), (247, 1993), (248, 1999), (257, 2041), (258, 2044), (259,

2047), (265, 2089), (267, 2101), (269, 2113),

Gene: Malisha_3 Start: 669, Stop: 2186, Start Num: 21

Candidate Starts for Malisha_3:

(18, 660), (Start: 21 @669 has 85 MA's), (38, 786), (Start: 39 @795 has 6 MA's), (41, 804), (53, 867), (55, 882), (59, 894), (63, 933), (72, 975), (73, 978), (79, 1020), (87, 1047), (91, 1068), (95, 1086), (96, 1089), (97, 1092), (98, 1113), (102, 1140), (109, 1197), (117, 1254), (118, 1260), (120, 1275), (125, 1287), (141, 1407), (148, 1449), (161, 1530), (162, 1539), (165, 1566), (170, 1605), (172, 1632), (177, 1653), (197, 1755), (205, 1782), (233, 1929), (239, 1941), (257, 2037), (258, 2040), (259, 2043), (265, 2085), (267, 2097), (269, 2109),

Gene: Marker_3 Start: 670, Stop: 2157, Start Num: 21

Candidate Starts for Marker_3:

(17, 658), (Start: 21 @670 has 85 MA's), (Start: 39 @796 has 6 MA's), (40, 802), (47, 844), (49, 850), (55, 883), (57, 889), (59, 895), (63, 934), (70, 958), (72, 976), (73, 979), (79, 1021), (85, 1042), (91, 1069), (92, 1078), (95, 1087), (96, 1090), (102, 1141), (109, 1198), (111, 1219), (115, 1243), (117, 1255), (120, 1276), (125, 1288), (127, 1321), (129, 1327), (139, 1396), (140, 1402), (147, 1435), (153, 1471), (161, 1531), (162, 1540), (165, 1567), (174, 1645), (191, 1741), (205, 1786), (207, 1795), (219, 1858), (228, 1897), (233, 1933), (236, 1939), (241, 1963), (247, 1993), (248, 1999), (257, 2041), (258, 2044), (259, 2047), (265, 2089), (267, 2101), (269, 2113),

Gene: Merpity_3 Start: 658, Stop: 1761, Start Num: 81

Candidate Starts for Merpity_3:

(24, 316), (Start: 39 @424 has 6 MA's), (40, 430), (46, 466), (47, 472), (81, 658), (84, 667), (102, 760), (106, 805), (110, 820), (114, 853), (115, 862), (116, 865), (120, 895), (122, 898), (124, 904), (125, 907), (130, 943), (160, 1102), (162, 1114), (172, 1210), (179, 1252), (181, 1261), (184, 1273), (198, 1357), (210, 1423), (217, 1453), (218, 1456), (221, 1465), (224, 1492), (231, 1522), (233, 1537), (263, 1684), (265, 1693),

Gene: Misha28_3 Start: 674, Stop: 2161, Start Num: 21

Candidate Starts for Misha28_3:

(17, 662), (Start: 21 @674 has 85 MA's), (Start: 39 @800 has 6 MA's), (40, 806), (47, 848), (49, 854), (55, 887), (57, 893), (59, 899), (63, 938), (70, 962), (72, 980), (73, 983), (79, 1025), (91, 1073), (92, 1082), (95, 1091), (96, 1094), (102, 1145), (111, 1223), (115, 1247), (117, 1259), (120, 1280), (125, 1292), (127, 1325), (129, 1331), (139, 1400), (140, 1406), (147, 1439), (153, 1475), (161, 1535), (162, 1544), (165, 1571), (174, 1649), (191, 1745), (205, 1790), (219, 1862), (228, 1901), (233, 1937), (236, 1943), (241, 1967), (247, 1997), (248, 2003), (257, 2045), (258, 2048), (259, 2051), (265, 2093), (267, 2105), (269, 2117),

Gene: MoRicky_2 Start: 176, Stop: 1804, Start Num: 15

Candidate Starts for MoRicky_2:

(Start: 15 @176 has 2 MA's), (Start: 25 @224 has 3 MA's), (32, 278), (47, 380), (50, 389), (56, 422), (62, 467), (66, 479), (73, 515), (75, 527), (83, 575), (94, 620), (97, 632), (103, 686), (107, 731), (115, 782), (119, 806), (124, 833), (145, 971), (151, 1007), (159, 1067), (191, 1307), (212, 1409), (214, 1421), (227, 1475), (235, 1511), (237, 1514), (246, 1559), (251, 1589), (255, 1607), (275, 1751), (277, 1778),

Gene: Mova_3 Start: 672, Stop: 2159, Start Num: 21

Candidate Starts for Mova_3:

(17, 660), (Start: 21 @672 has 85 MA's), (Start: 39 @798 has 6 MA's), (41, 807), (47, 846), (49, 852), (55, 885), (57, 891), (59, 897), (63, 936), (70, 960), (72, 978), (73, 981), (79, 1023), (85, 1044), (91, 1071), (92, 1080), (95, 1089), (96, 1092), (102, 1143), (111, 1221), (115, 1245), (117, 1257), (120, 1278), (125, 1290), (127, 1323), (129, 1329), (139, 1398), (140, 1404), (147, 1437), (153, 1473), (161,

1533), (162, 1542), (165, 1569), (174, 1647), (191, 1743), (205, 1788), (219, 1860), (222, 1881), (228, 1899), (233, 1935), (236, 1941), (241, 1965), (247, 1995), (248, 2001), (257, 2043), (258, 2046), (259, 2049), (265, 2091), (267, 2103), (269, 2115),

Gene: Mozy_3 Start: 672, Stop: 2159, Start Num: 21

Candidate Starts for Mozy_3:

(17, 660), (Start: 21 @672 has 85 MA's), (Start: 39 @798 has 6 MA's), (40, 804), (47, 846), (54, 882), (55, 885), (57, 891), (59, 897), (63, 936), (66, 945), (73, 981), (79, 1023), (91, 1071), (95, 1089), (96, 1092), (102, 1143), (115, 1245), (116, 1248), (117, 1257), (118, 1263), (120, 1278), (125, 1290), (127, 1323), (139, 1398), (140, 1404), (146, 1434), (153, 1473), (161, 1533), (162, 1542), (165, 1569), (174, 1647), (182, 1680), (231, 1920), (233, 1935), (236, 1941), (241, 1965), (257, 2043), (258, 2046), (259, 2049), (265, 2091), (267, 2103), (269, 2115),

Gene: MulchExplorer_3 Start: 671, Stop: 2158, Start Num: 21

Candidate Starts for MulchExplorer_3:

(17, 659), (Start: 21 @671 has 85 MA's), (Start: 39 @797 has 6 MA's), (40, 803), (54, 881), (55, 884), (57, 890), (59, 896), (63, 935), (70, 959), (73, 980), (74, 983), (79, 1022), (85, 1043), (91, 1070), (95, 1088), (96, 1091), (102, 1142), (109, 1199), (111, 1220), (115, 1244), (117, 1256), (120, 1277), (125, 1289), (127, 1322), (129, 1328), (139, 1397), (140, 1403), (147, 1436), (153, 1472), (161, 1532), (162, 1541), (165, 1568), (174, 1646), (191, 1742), (205, 1787), (219, 1859), (228, 1898), (233, 1934), (236, 1940), (241, 1964), (247, 1994), (248, 2000), (257, 2042), (258, 2045), (259, 2048), (265, 2090), (267, 2102),

Gene: Nebulanyx_4 Start: 607, Stop: 2163, Start Num: 3

Candidate Starts for Nebulanyx_4:

(Start: 3 @607 has 7 MA's), (5, 619), (10, 658), (19, 700), (20, 703), (26, 730), (34, 811), (37, 820), (42, 847), (55, 901), (59, 907), (65, 952), (77, 1027), (78, 1030), (80, 1036), (81, 1042), (82, 1045), (90, 1063), (119, 1273), (137, 1387), (138, 1390), (143, 1417), (144, 1420), (148, 1444), (150, 1453), (159, 1504), (162, 1525), (171, 1597), (173, 1621), (183, 1672), (185, 1687), (187, 1699), (195, 1744), (199, 1756), (238, 1948), (240, 1954), (267, 2101), (268, 2110), (270, 2119),

Gene: Noely_2 Start: 539, Stop: 2110, Start Num: 3

Candidate Starts for Noely_2:

(1, 521), (Start: 3 @539 has 7 MA's), (19, 644), (20, 647), (26, 674), (33, 743), (34, 755), (37, 764), (42, 791), (55, 845), (59, 851), (77, 971), (78, 974), (80, 980), (81, 986), (82, 989), (88, 998), (103, 1097), (119, 1217), (138, 1334), (144, 1364), (148, 1388), (159, 1448), (162, 1469), (173, 1565), (183, 1616), (185, 1631), (187, 1643), (188, 1649), (195, 1691), (208, 1754), (218, 1811), (238, 1895), (267, 2048), (268, 2057), (270, 2066),

Gene: ODay_3 Start: 671, Stop: 2188, Start Num: 21

Candidate Starts for ODay_3:

(18, 662), (Start: 21 @671 has 85 MA's), (38, 788), (Start: 39 @797 has 6 MA's), (41, 806), (49, 851), (53, 869), (55, 884), (59, 896), (63, 935), (70, 959), (72, 977), (73, 980), (79, 1022), (87, 1049), (91, 1070), (95, 1088), (96, 1091), (97, 1094), (98, 1115), (102, 1142), (109, 1199), (111, 1220), (117, 1256), (118, 1262), (120, 1277), (125, 1289), (129, 1328), (141, 1409), (148, 1451), (161, 1532), (162, 1541), (165, 1568), (172, 1634), (177, 1655), (197, 1757), (205, 1784), (233, 1931), (239, 1943), (241, 1961), (257, 2039), (258, 2042), (259, 2045), (265, 2087), (267, 2099), (269, 2111),

Gene: Ogopogo_4 Start: 925, Stop: 2445, Start Num: 21

Candidate Starts for Ogopogo_4:

(17, 913), (Start: 21 @925 has 85 MA's), (Start: 39 @1051 has 6 MA's), (41, 1060), (49, 1105), (54, 1135), (55, 1138), (57, 1144), (63, 1189), (70, 1213), (91, 1324), (95, 1342), (96, 1345), (98, 1369), (102, 1396), (109, 1453), (114, 1489), (115, 1498), (117, 1510), (118, 1516), (120, 1531), (125, 1543),

(127, 1576), (129, 1582), (134, 1618), (140, 1657), (146, 1687), (147, 1690), (161, 1786), (162, 1795), (165, 1822), (176, 1906), (178, 1921), (201, 2032), (205, 2041), (207, 2050), (219, 2113), (233, 2188), (239, 2200), (241, 2218), (248, 2254), (257, 2296), (259, 2302), (265, 2344), (267, 2356), (269, 2368), (273, 2434),

Gene: Oksu_3 Start: 798, Stop: 2159, Start Num: 39

Candidate Starts for Oksu_3:

(17, 660), (Start: 21 @672 has 85 MA's), (Start: 39 @798 has 6 MA's), (40, 804), (47, 846), (49, 852), (55, 885), (57, 891), (59, 897), (63, 936), (70, 960), (72, 978), (73, 981), (79, 1023), (85, 1044), (91, 1071), (92, 1080), (95, 1089), (96, 1092), (102, 1143), (109, 1200), (111, 1221), (115, 1245), (117, 1257), (120, 1278), (125, 1290), (127, 1323), (129, 1329), (139, 1398), (140, 1404), (147, 1437), (153, 1473), (161, 1533), (162, 1542), (165, 1569), (174, 1647), (191, 1743), (205, 1788), (219, 1860), (228, 1899), (233, 1935), (236, 1941), (241, 1965), (247, 1995), (248, 2001), (257, 2043), (258, 2046), (259, 2049), (265, 2091), (267, 2103), (269, 2115),

Gene: OwlsT2W_3 Start: 797, Stop: 2158, Start Num: 39

Candidate Starts for OwlsT2W_3:

(17, 659), (Start: 21 @671 has 85 MA's), (Start: 39 @797 has 6 MA's), (40, 803), (47, 845), (49, 851), (55, 884), (57, 890), (59, 896), (63, 935), (70, 959), (72, 977), (73, 980), (79, 1022), (85, 1043), (91, 1070), (92, 1079), (95, 1088), (96, 1091), (102, 1142), (109, 1199), (111, 1220), (115, 1244), (117, 1256), (120, 1277), (125, 1289), (127, 1322), (129, 1328), (139, 1397), (140, 1403), (147, 1436), (153, 1472), (161, 1532), (162, 1541), (165, 1568), (174, 1646), (191, 1742), (205, 1787), (219, 1859), (228, 1898), (233, 1934), (236, 1940), (241, 1964), (247, 1994), (248, 2000), (257, 2042), (258, 2045), (259, 2048), (265, 2090), (267, 2102), (269, 2114),

Gene: Pauu_3 Start: 437, Stop: 1996, Start Num: 3

Candidate Starts for Pauu_3:

(1, 419), (Start: 3 @437 has 7 MA's), (19, 533), (20, 536), (26, 563), (34, 644), (37, 653), (42, 680), (55, 734), (59, 740), (65, 785), (77, 860), (78, 863), (80, 869), (81, 875), (82, 878), (90, 896), (96, 929), (107, 1031), (119, 1106), (123, 1130), (137, 1220), (138, 1223), (143, 1250), (144, 1253), (148, 1277), (150, 1286), (159, 1337), (162, 1358), (167, 1394), (171, 1430), (173, 1454), (183, 1505), (185, 1520), (187, 1532), (195, 1577), (199, 1589), (223, 1730), (238, 1781), (240, 1787), (267, 1934), (268, 1943), (270, 1952),

Gene: PensacolaC28_1 Start: 37, Stop: 1611, Start Num: 23

Candidate Starts for PensacolaC28_1:

(16, 4), (Start: 23 @37 has 1 MA's), (31, 91), (37, 142), (Start: 39 @151 has 6 MA's), (46, 193), (51, 211), (52, 220), (60, 253), (61, 256), (86, 400), (94, 439), (96, 445), (101, 493), (108, 550), (113, 586), (131, 706), (159, 877), (182, 1042), (191, 1117), (204, 1168), (242, 1348), (254, 1408), (276, 1576),

Gene: Peridot_3 Start: 671, Stop: 2158, Start Num: 21

Candidate Starts for Peridot_3:

(17, 659), (Start: 21 @671 has 85 MA's), (Start: 39 @797 has 6 MA's), (40, 803), (47, 845), (49, 851), (55, 884), (57, 890), (59, 896), (63, 935), (70, 959), (72, 977), (73, 980), (79, 1022), (85, 1043), (91, 1070), (92, 1079), (95, 1088), (96, 1091), (102, 1142), (111, 1220), (115, 1244), (117, 1256), (120, 1277), (125, 1289), (127, 1322), (129, 1328), (139, 1397), (140, 1403), (147, 1436), (153, 1472), (161, 1532), (162, 1541), (165, 1568), (174, 1646), (191, 1742), (205, 1787), (219, 1859), (228, 1898), (233, 1934), (236, 1940), (241, 1964), (247, 1994), (248, 2000), (257, 2042), (258, 2045), (259, 2048), (265, 2090), (267, 2102), (269, 2114),

Gene: Periwinkle_3 Start: 673, Stop: 2190, Start Num: 21

Candidate Starts for Periwinkle_3:

(18, 664), (Start: 21 @673 has 85 MA's), (34, 775), (38, 790), (Start: 39 @799 has 6 MA's), (41, 808), (47, 847), (49, 853), (55, 886), (62, 934), (63, 937), (66, 946), (72, 979), (73, 982), (79, 1024), (89, 1057), (91, 1072), (95, 1090), (96, 1093), (97, 1096), (98, 1117), (102, 1144), (109, 1201), (115, 1246), (116, 1249), (117, 1258), (120, 1279), (125, 1291), (126, 1318), (127, 1324), (129, 1330), (139, 1399), (141, 1411), (155, 1483), (158, 1507), (162, 1543), (165, 1570), (177, 1657), (182, 1681), (197, 1759), (205, 1786), (207, 1795), (233, 1933), (239, 1945), (241, 1963), (257, 2041), (259, 2047), (265, 2089), (267, 2101), (269, 2113), (274, 2182),

Gene: Phabuloso_3 Start: 671, Stop: 2188, Start Num: 21

Candidate Starts for Phabuloso_3:

(18, 662), (Start: 21 @671 has 85 MA's), (38, 788), (Start: 39 @797 has 6 MA's), (41, 806), (49, 851), (53, 869), (55, 884), (59, 896), (63, 935), (70, 959), (72, 977), (73, 980), (79, 1022), (87, 1049), (91, 1070), (95, 1088), (96, 1091), (97, 1094), (98, 1115), (102, 1142), (109, 1199), (111, 1220), (117, 1256), (118, 1262), (120, 1277), (125, 1289), (129, 1328), (141, 1409), (148, 1451), (161, 1532), (162, 1541), (165, 1568), (172, 1634), (177, 1655), (197, 1757), (205, 1784), (233, 1931), (239, 1943), (241, 1961), (257, 2039), (258, 2042), (259, 2045), (265, 2087), (267, 2099), (269, 2111),

Gene: Phistory_3 Start: 672, Stop: 2189, Start Num: 21

Candidate Starts for Phistory_3:

(18, 663), (Start: 21 @672 has 85 MA's), (38, 789), (Start: 39 @798 has 6 MA's), (49, 852), (55, 885), (63, 936), (66, 945), (73, 981), (79, 1023), (85, 1044), (89, 1056), (91, 1071), (95, 1089), (96, 1092), (97, 1095), (98, 1116), (102, 1143), (109, 1200), (115, 1245), (117, 1257), (120, 1278), (125, 1290), (126, 1317), (129, 1329), (141, 1410), (155, 1482), (158, 1506), (161, 1533), (162, 1542), (165, 1569), (168, 1602), (177, 1656), (193, 1746), (197, 1758), (205, 1785), (233, 1932), (239, 1944), (241, 1962), (257, 2040), (259, 2046), (265, 2088), (267, 2100), (269, 2112),

Gene: Pigu_3 Start: 644, Stop: 1759, Start Num: 76

Candidate Starts for Pigu_3:

(1, 179), (Start: 3 @197 has 7 MA's), (12, 275), (Start: 21 @317 has 85 MA's), (35, 419), (46, 482), (57, 533), (58, 536), (74, 626), (76, 644), (95, 722), (98, 749), (109, 833), (115, 878), (134, 986), (159, 1112), (160, 1121), (170, 1193), (182, 1268), (183, 1274), (192, 1337), (202, 1373), (225, 1484), (230, 1508), (244, 1565), (266, 1685), (272, 1748),

Gene: Piku_1 Start: 175, Stop: 1761, Start Num: 29

Candidate Starts for Piku_1:

(Start: 3 @22 has 7 MA's), (Start: 9 @76 has 3 MA's), (Start: 29 @175 has 1 MA's), (34, 229), (38, 244), (43, 274), (44, 277), (48, 304), (65, 391), (80, 475), (81, 481), (86, 490), (96, 535), (119, 712), (128, 775), (143, 856), (157, 928), (159, 946), (166, 997), (194, 1183), (195, 1186), (216, 1300), (218, 1306), (226, 1348), (229, 1354), (234, 1384), (249, 1456), (261, 1510), (268, 1552), (279, 1711),

Gene: Piper2020_3 Start: 674, Stop: 2161, Start Num: 21

Candidate Starts for Piper2020_3:

(17, 662), (Start: 21 @674 has 85 MA's), (Start: 39 @800 has 6 MA's), (40, 806), (47, 848), (49, 854), (55, 887), (57, 893), (59, 899), (63, 938), (70, 962), (72, 980), (73, 983), (79, 1025), (91, 1073), (92, 1082), (95, 1091), (96, 1094), (102, 1145), (111, 1223), (115, 1247), (117, 1259), (120, 1280), (125, 1292), (127, 1325), (129, 1331), (139, 1400), (140, 1406), (147, 1439), (153, 1475), (161, 1535), (162, 1544), (165, 1571), (174, 1649), (191, 1745), (205, 1790), (219, 1862), (228, 1901), (233, 1937), (236, 1943), (241, 1967), (247, 1997), (248, 2003), (257, 2045), (258, 2048), (259, 2051), (265, 2093), (267, 2105), (269, 2117),

Gene: Plumbus_3 Start: 671, Stop: 2158, Start Num: 21

Candidate Starts for Plumbus_3:

(17, 659), (Start: 21 @671 has 85 MA's), (Start: 39 @797 has 6 MA's), (40, 803), (54, 881), (55, 884), (57, 890), (59, 896), (63, 935), (70, 959), (73, 980), (74, 983), (79, 1022), (85, 1043), (91, 1070), (95, 1088), (96, 1091), (102, 1142), (109, 1199), (111, 1220), (115, 1244), (117, 1256), (120, 1277), (125, 1289), (127, 1322), (129, 1328), (139, 1397), (140, 1403), (147, 1436), (153, 1472), (161, 1532), (162, 1541), (165, 1568), (174, 1646), (191, 1742), (205, 1787), (219, 1859), (228, 1898), (233, 1934), (236, 1940), (241, 1964), (247, 1994), (248, 2000), (257, 2042), (258, 2045), (259, 2048), (265, 2090), (267, 2102),

Gene: Pollywog_3 Start: 671, Stop: 2158, Start Num: 21

Candidate Starts for Pollywog_3:

(17, 659), (Start: 21 @671 has 85 MA's), (Start: 39 @797 has 6 MA's), (40, 803), (47, 845), (49, 851), (55, 884), (57, 890), (59, 896), (63, 935), (70, 959), (72, 977), (73, 980), (79, 1022), (85, 1043), (91, 1070), (92, 1079), (95, 1088), (96, 1091), (98, 1115), (102, 1142), (109, 1199), (111, 1220), (115, 1244), (117, 1256), (120, 1277), (125, 1289), (127, 1322), (129, 1328), (139, 1397), (140, 1403), (147, 1436), (153, 1472), (161, 1532), (162, 1541), (165, 1568), (174, 1646), (191, 1742), (205, 1787), (219, 1859), (228, 1898), (233, 1934), (236, 1940), (241, 1964), (247, 1994), (248, 2000), (257, 2042), (258, 2045), (259, 2048), (265, 2090), (267, 2102), (269, 2114),

Gene: Quico_3 Start: 672, Stop: 2159, Start Num: 21

Candidate Starts for Quico_3:

(17, 660), (Start: 21 @672 has 85 MA's), (38, 789), (Start: 39 @798 has 6 MA's), (41, 807), (54, 882), (55, 885), (57, 891), (63, 936), (64, 939), (70, 960), (72, 978), (91, 1071), (95, 1089), (96, 1092), (98, 1116), (109, 1200), (115, 1245), (117, 1257), (120, 1278), (125, 1290), (126, 1317), (129, 1329), (140, 1404), (146, 1434), (147, 1437), (155, 1482), (161, 1533), (162, 1542), (165, 1569), (168, 1602), (174, 1647), (182, 1680), (231, 1920), (233, 1935), (236, 1941), (241, 1965), (257, 2043), (258, 2046), (259, 2049), (265, 2091), (267, 2103), (269, 2115),

Gene: Ramsey_3 Start: 671, Stop: 2158, Start Num: 21

Candidate Starts for Ramsey_3:

(17, 659), (Start: 21 @671 has 85 MA's), (Start: 39 @797 has 6 MA's), (40, 803), (47, 845), (49, 851), (55, 884), (57, 890), (59, 896), (63, 935), (70, 959), (72, 977), (73, 980), (79, 1022), (85, 1043), (91, 1070), (92, 1079), (95, 1088), (96, 1091), (102, 1142), (111, 1220), (115, 1244), (117, 1256), (120, 1277), (125, 1289), (127, 1322), (129, 1328), (139, 1397), (140, 1403), (147, 1436), (153, 1472), (161, 1532), (162, 1541), (165, 1568), (174, 1646), (191, 1742), (205, 1787), (219, 1859), (228, 1898), (233, 1934), (236, 1940), (241, 1964), (247, 1994), (248, 2000), (257, 2042), (258, 2045), (259, 2048), (265, 2090), (267, 2102), (269, 2114),

Gene: Rialto_3 Start: 672, Stop: 2159, Start Num: 21

Candidate Starts for Rialto_3:

(17, 660), (Start: 21 @672 has 85 MA's), (Start: 39 @798 has 6 MA's), (40, 804), (47, 846), (49, 852), (55, 885), (57, 891), (59, 897), (63, 936), (70, 960), (72, 978), (73, 981), (79, 1023), (85, 1044), (91, 1071), (92, 1080), (95, 1089), (96, 1092), (102, 1143), (111, 1221), (115, 1245), (117, 1257), (120, 1278), (125, 1290), (127, 1323), (129, 1329), (139, 1398), (140, 1404), (147, 1437), (153, 1473), (161, 1533), (162, 1542), (165, 1569), (174, 1647), (191, 1743), (205, 1788), (219, 1860), (228, 1899), (233, 1935), (236, 1941), (241, 1965), (247, 1995), (248, 2001), (257, 2043), (258, 2046), (259, 2049), (265, 2091), (267, 2103), (269, 2115),

Gene: RockyHorror_3 Start: 671, Stop: 2158, Start Num: 21

Candidate Starts for RockyHorror_3:

(17, 659), (Start: 21 @671 has 85 MA's), (Start: 39 @797 has 6 MA's), (40, 803), (47, 845), (49, 851), (55, 884), (57, 890), (59, 896), (63, 935), (70, 959), (72, 977), (73, 980), (79, 1022), (85, 1043), (91, 1070), (92, 1079), (95, 1088), (96, 1091), (102, 1142), (109, 1199), (111, 1220), (115, 1244), (117, 1256), (120, 1277), (125, 1289), (127, 1322), (129, 1328), (139, 1397), (140, 1403), (147, 1436), (153,

1472), (161, 1532), (162, 1541), (165, 1568), (174, 1646), (191, 1742), (205, 1787), (219, 1859), (228, 1898), (233, 1934), (236, 1940), (241, 1964), (247, 1994), (248, 2000), (257, 2042), (258, 2045), (259, 2048), (265, 2090), (267, 2102), (269, 2114),

Gene: Sarma624_3 Start: 671, Stop: 2158, Start Num: 21

Candidate Starts for Sarma624_3:

(17, 659), (Start: 21 @671 has 85 MA's), (Start: 39 @797 has 6 MA's), (40, 803), (47, 845), (49, 851), (55, 884), (57, 890), (59, 896), (63, 935), (70, 959), (72, 977), (73, 980), (79, 1022), (85, 1043), (91, 1070), (92, 1079), (95, 1088), (96, 1091), (98, 1115), (102, 1142), (109, 1199), (111, 1220), (115, 1244), (117, 1256), (120, 1277), (125, 1289), (127, 1322), (129, 1328), (139, 1397), (140, 1403), (147, 1436), (153, 1472), (161, 1532), (162, 1541), (165, 1568), (174, 1646), (191, 1742), (205, 1787), (219, 1859), (228, 1898), (233, 1934), (236, 1940), (241, 1964), (247, 1994), (248, 2000), (257, 2042), (258, 2045), (259, 2048), (265, 2090), (267, 2102), (269, 2114),

Gene: Seagreen_3 Start: 671, Stop: 2158, Start Num: 21

Candidate Starts for Seagreen_3:

(17, 659), (Start: 21 @671 has 85 MA's), (Start: 39 @797 has 6 MA's), (40, 803), (47, 845), (49, 851), (55, 884), (57, 890), (59, 896), (63, 935), (70, 959), (72, 977), (73, 980), (79, 1022), (85, 1043), (91, 1070), (92, 1079), (95, 1088), (96, 1091), (102, 1142), (109, 1199), (111, 1220), (115, 1244), (117, 1256), (120, 1277), (125, 1289), (127, 1322), (129, 1328), (139, 1397), (140, 1403), (147, 1436), (153, 1472), (161, 1532), (162, 1541), (165, 1568), (174, 1646), (191, 1742), (205, 1787), (219, 1859), (228, 1898), (233, 1934), (236, 1940), (241, 1964), (247, 1994), (248, 2000), (257, 2042), (258, 2045), (259, 2048), (265, 2090), (267, 2102),

Gene: ShawBrad_3 Start: 673, Stop: 2190, Start Num: 21

Candidate Starts for ShawBrad_3:

(18, 664), (Start: 21 @673 has 85 MA's), (38, 790), (Start: 39 @799 has 6 MA's), (49, 853), (55, 886), (63, 937), (66, 946), (73, 982), (79, 1024), (85, 1045), (89, 1057), (91, 1072), (95, 1090), (96, 1093), (97, 1096), (98, 1117), (102, 1144), (109, 1201), (115, 1246), (117, 1258), (120, 1279), (125, 1291), (126, 1318), (129, 1330), (141, 1411), (155, 1483), (158, 1507), (162, 1543), (165, 1570), (168, 1603), (177, 1657), (197, 1759), (205, 1786), (239, 1945), (241, 1963), (257, 2041), (258, 2044), (259, 2047), (265, 2089), (267, 2101), (269, 2113),

Gene: SilverChicken_3 Start: 663, Stop: 2183, Start Num: 21

Candidate Starts for SilverChicken_3:

(17, 651), (Start: 21 @663 has 85 MA's), (Start: 39 @789 has 6 MA's), (41, 798), (49, 843), (54, 873), (55, 876), (57, 882), (63, 927), (70, 951), (73, 972), (79, 1014), (85, 1035), (91, 1062), (95, 1080), (96, 1083), (98, 1107), (102, 1134), (109, 1191), (114, 1227), (115, 1236), (117, 1248), (118, 1254), (120, 1269), (125, 1281), (126, 1308), (127, 1314), (129, 1320), (134, 1356), (136, 1365), (140, 1395), (146, 1425), (147, 1428), (161, 1524), (162, 1533), (165, 1560), (176, 1644), (178, 1659), (201, 1770), (205, 1779), (207, 1788), (219, 1851), (233, 1926), (239, 1938), (241, 1956), (248, 1992), (257, 2034), (259, 2040), (265, 2082), (267, 2094), (269, 2106), (273, 2172),

Gene: SimranZ1_3 Start: 671, Stop: 2158, Start Num: 21

Candidate Starts for SimranZ1_3:

(17, 659), (Start: 21 @671 has 85 MA's), (Start: 39 @797 has 6 MA's), (40, 803), (47, 845), (49, 851), (55, 884), (57, 890), (59, 896), (63, 935), (70, 959), (72, 977), (73, 980), (79, 1022), (85, 1043), (91, 1070), (92, 1079), (95, 1088), (96, 1091), (98, 1115), (102, 1142), (109, 1199), (111, 1220), (115, 1244), (117, 1256), (120, 1277), (125, 1289), (127, 1322), (129, 1328), (139, 1397), (140, 1403), (147, 1436), (153, 1472), (161, 1532), (162, 1541), (165, 1568), (174, 1646), (191, 1742), (205, 1787), (219, 1859), (228, 1898), (233, 1934), (236, 1940), (241, 1964), (247, 1994), (248, 2000), (257, 2042), (258, 2045), (259, 2048), (265, 2090), (267, 2102), (269, 2114),

Gene: Slim_3 Start: 672, Stop: 2159, Start Num: 21

Candidate Starts for Slim_3:

(17, 660), (Start: 21 @672 has 85 MA's), (Start: 39 @798 has 6 MA's), (40, 804), (47, 846), (49, 852), (55, 885), (57, 891), (59, 897), (63, 936), (70, 960), (72, 978), (73, 981), (79, 1023), (85, 1044), (91, 1071), (92, 1080), (95, 1089), (96, 1092), (102, 1143), (111, 1221), (115, 1245), (117, 1257), (120, 1278), (125, 1290), (127, 1323), (129, 1329), (139, 1398), (140, 1404), (147, 1437), (153, 1473), (161, 1533), (162, 1542), (165, 1569), (174, 1647), (191, 1743), (205, 1788), (219, 1860), (228, 1899), (233, 1935), (236, 1941), (241, 1965), (247, 1995), (248, 2001), (257, 2043), (258, 2046), (259, 2049), (265, 2091), (267, 2103), (269, 2115),

Gene: Smilerella_2 Start: 176, Stop: 1804, Start Num: 15

Candidate Starts for Smilerella_2:

(Start: 15 @176 has 2 MA's), (Start: 25 @224 has 3 MA's), (32, 278), (47, 380), (50, 389), (56, 422), (62, 467), (66, 479), (73, 515), (75, 527), (83, 575), (94, 620), (97, 632), (103, 686), (107, 731), (115, 782), (119, 806), (124, 833), (145, 971), (151, 1007), (159, 1067), (191, 1307), (212, 1409), (214, 1421), (227, 1475), (235, 1511), (237, 1514), (246, 1559), (251, 1589), (255, 1607), (275, 1751), (277, 1778),

Gene: Soul22_3 Start: 663, Stop: 2183, Start Num: 21

Candidate Starts for Soul22_3:

(17, 651), (Start: 21 @663 has 85 MA's), (Start: 39 @789 has 6 MA's), (41, 798), (49, 843), (54, 873), (55, 876), (57, 882), (63, 927), (70, 951), (73, 972), (79, 1014), (85, 1035), (91, 1062), (95, 1080), (96, 1083), (98, 1107), (102, 1134), (109, 1191), (114, 1227), (115, 1236), (117, 1248), (118, 1254), (120, 1269), (125, 1281), (127, 1314), (129, 1320), (134, 1356), (136, 1365), (140, 1395), (146, 1425), (147, 1428), (161, 1524), (162, 1533), (165, 1560), (176, 1644), (178, 1659), (201, 1770), (205, 1779), (207, 1788), (219, 1851), (233, 1926), (239, 1938), (241, 1956), (248, 1992), (257, 2034), (259, 2040), (265, 2082), (267, 2094), (269, 2106), (273, 2172),

Gene: Spikelee_3 Start: 671, Stop: 2158, Start Num: 21

Candidate Starts for Spikelee_3:

(17, 659), (Start: 21 @671 has 85 MA's), (Start: 39 @797 has 6 MA's), (40, 803), (47, 845), (49, 851), (55, 884), (57, 890), (59, 896), (63, 935), (70, 959), (72, 977), (73, 980), (79, 1022), (85, 1043), (91, 1070), (92, 1079), (95, 1088), (96, 1091), (102, 1142), (111, 1220), (115, 1244), (117, 1256), (120, 1277), (125, 1289), (127, 1322), (129, 1328), (139, 1397), (140, 1403), (147, 1436), (153, 1472), (161, 1532), (162, 1541), (165, 1568), (174, 1646), (191, 1742), (205, 1787), (219, 1859), (228, 1898), (233, 1934), (236, 1940), (241, 1964), (247, 1994), (248, 2000), (257, 2042), (258, 2045), (259, 2048), (265, 2090), (267, 2102), (269, 2114),

Gene: Spooky_3 Start: 672, Stop: 2189, Start Num: 21

Candidate Starts for Spooky_3:

(18, 663), (Start: 21 @672 has 85 MA's), (38, 789), (Start: 39 @798 has 6 MA's), (41, 807), (55, 885), (59, 897), (63, 936), (70, 960), (72, 978), (73, 981), (79, 1023), (87, 1050), (91, 1071), (95, 1089), (96, 1092), (97, 1095), (98, 1116), (102, 1143), (109, 1200), (111, 1221), (117, 1257), (118, 1263), (120, 1278), (125, 1290), (129, 1329), (141, 1410), (148, 1452), (161, 1533), (162, 1542), (165, 1569), (170, 1608), (172, 1635), (177, 1656), (197, 1758), (205, 1785), (233, 1932), (239, 1944), (241, 1962), (257, 2040), (258, 2043), (259, 2046), (265, 2088), (267, 2100), (269, 2112),

Gene: Squiddly_4 Start: 1362, Stop: 2879, Start Num: 21

Candidate Starts for Squiddly_4:

(18, 1353), (Start: 21 @1362 has 85 MA's), (38, 1479), (Start: 39 @1488 has 6 MA's), (41, 1497), (53, 1560), (55, 1575), (59, 1587), (63, 1626), (72, 1668), (73, 1671), (79, 1713), (87, 1740), (91, 1761), (95, 1779), (96, 1782), (97, 1785), (98, 1806), (102, 1833), (109, 1890), (117, 1947), (118, 1953), (120, 1968), (125, 1980), (141, 2100), (148, 2142), (161, 2223), (162, 2232), (165, 2259), (170, 2298), (172,

2325), (177, 2346), (197, 2448), (205, 2475), (233, 2622), (239, 2634), (241, 2652), (257, 2730), (258, 2733), (259, 2736), (265, 2778), (267, 2790), (269, 2802),

Gene: Squirty_3 Start: 670, Stop: 2157, Start Num: 21

Candidate Starts for Squirty_3:

(17, 658), (Start: 21 @670 has 85 MA's), (Start: 39 @796 has 6 MA's), (40, 802), (47, 844), (49, 850), (55, 883), (57, 889), (59, 895), (63, 934), (70, 958), (72, 976), (73, 979), (79, 1021), (85, 1042), (91, 1069), (92, 1078), (95, 1087), (96, 1090), (102, 1141), (109, 1198), (111, 1219), (115, 1243), (117, 1255), (120, 1276), (125, 1288), (127, 1321), (129, 1327), (139, 1396), (140, 1402), (147, 1435), (153, 1471), (161, 1531), (162, 1540), (165, 1567), (174, 1645), (191, 1741), (205, 1786), (219, 1858), (228, 1897), (233, 1933), (236, 1939), (241, 1963), (247, 1993), (248, 1999), (257, 2041), (258, 2044), (259, 2047), (265, 2089), (267, 2101), (269, 2113),

Gene: Stap_3 Start: 671, Stop: 2158, Start Num: 21

Candidate Starts for Stap_3:

(17, 659), (Start: 21 @671 has 85 MA's), (Start: 39 @797 has 6 MA's), (40, 803), (47, 845), (49, 851), (55, 884), (57, 890), (59, 896), (63, 935), (70, 959), (72, 977), (73, 980), (79, 1022), (85, 1043), (91, 1070), (92, 1079), (95, 1088), (96, 1091), (102, 1142), (111, 1220), (115, 1244), (117, 1256), (120, 1277), (125, 1289), (127, 1322), (129, 1328), (139, 1397), (140, 1403), (147, 1436), (153, 1472), (161, 1532), (162, 1541), (165, 1568), (174, 1646), (191, 1742), (205, 1787), (219, 1859), (228, 1898), (233, 1934), (236, 1940), (241, 1964), (247, 1994), (248, 2000), (257, 2042), (258, 2045), (259, 2048), (265, 2090), (267, 2102), (269, 2114),

Gene: Starcevich_3 Start: 671, Stop: 2158, Start Num: 21

Candidate Starts for Starcevich_3:

(17, 659), (Start: 21 @671 has 85 MA's), (Start: 39 @797 has 6 MA's), (40, 803), (47, 845), (49, 851), (55, 884), (57, 890), (59, 896), (63, 935), (70, 959), (72, 977), (73, 980), (79, 1022), (85, 1043), (91, 1070), (92, 1079), (95, 1088), (96, 1091), (102, 1142), (111, 1220), (115, 1244), (117, 1256), (120, 1277), (125, 1289), (127, 1322), (129, 1328), (139, 1397), (140, 1403), (147, 1436), (153, 1472), (161, 1532), (162, 1541), (165, 1568), (174, 1646), (191, 1742), (205, 1787), (219, 1859), (228, 1898), (233, 1934), (236, 1940), (241, 1964), (247, 1994), (248, 2000), (257, 2042), (258, 2045), (259, 2048), (265, 2090), (267, 2102), (269, 2114),

Gene: Tchotchke_3 Start: 672, Stop: 2159, Start Num: 21

Candidate Starts for Tchotchke_3:

(17, 660), (Start: 21 @672 has 85 MA's), (Start: 39 @798 has 6 MA's), (40, 804), (47, 846), (54, 882), (55, 885), (57, 891), (59, 897), (63, 936), (66, 945), (73, 981), (79, 1023), (91, 1071), (95, 1089), (96, 1092), (102, 1143), (109, 1200), (111, 1221), (115, 1245), (117, 1257), (120, 1278), (125, 1290), (127, 1323), (129, 1329), (139, 1398), (140, 1404), (147, 1437), (153, 1473), (161, 1533), (162, 1542), (165, 1569), (174, 1647), (191, 1743), (205, 1788), (219, 1860), (228, 1899), (233, 1935), (236, 1941), (241, 1965), (247, 1995), (248, 2001), (257, 2043), (258, 2046), (259, 2049), (265, 2091), (267, 2103), (269, 2115),

Gene: TootsiePop_3 Start: 674, Stop: 2161, Start Num: 21

Candidate Starts for TootsiePop_3:

(17, 662), (Start: 21 @674 has 85 MA's), (Start: 39 @800 has 6 MA's), (40, 806), (47, 848), (49, 854), (55, 887), (57, 893), (59, 899), (63, 938), (70, 962), (72, 980), (73, 983), (79, 1025), (91, 1073), (92, 1082), (95, 1091), (96, 1094), (102, 1145), (111, 1223), (115, 1247), (117, 1259), (120, 1280), (125, 1292), (127, 1325), (129, 1331), (139, 1400), (140, 1406), (147, 1439), (153, 1475), (161, 1535), (162, 1544), (165, 1571), (174, 1649), (191, 1745), (205, 1790), (219, 1862), (228, 1901), (233, 1937), (236, 1943), (241, 1967), (247, 1997), (248, 2003), (257, 2045), (258, 2048), (259, 2051), (265, 2093), (267, 2105), (269, 2117),

Gene: Tootsieroll_3 Start: 671, Stop: 2158, Start Num: 21

Candidate Starts for Tootsieroll_3:

(17, 659), (Start: 21 @671 has 85 MA's), (Start: 39 @797 has 6 MA's), (40, 803), (47, 845), (49, 851), (55, 884), (57, 890), (59, 896), (63, 935), (70, 959), (72, 977), (73, 980), (79, 1022), (85, 1043), (91, 1070), (92, 1079), (95, 1088), (96, 1091), (102, 1142), (111, 1220), (115, 1244), (117, 1256), (120, 1277), (125, 1289), (127, 1322), (129, 1328), (139, 1397), (140, 1403), (147, 1436), (153, 1472), (161, 1532), (162, 1541), (165, 1568), (174, 1646), (191, 1742), (205, 1787), (219, 1859), (228, 1898), (233, 1934), (236, 1940), (241, 1964), (247, 1994), (248, 2000), (257, 2042), (258, 2045), (259, 2048), (265, 2090), (267, 2102), (269, 2114),

Gene: Totinger_3 Start: 672, Stop: 2159, Start Num: 21

Candidate Starts for Totinger_3:

(17, 660), (Start: 21 @672 has 85 MA's), (Start: 39 @798 has 6 MA's), (40, 804), (47, 846), (49, 852), (55, 885), (57, 891), (59, 897), (63, 936), (70, 960), (72, 978), (73, 981), (79, 1023), (85, 1044), (91, 1071), (92, 1080), (95, 1089), (96, 1092), (102, 1143), (111, 1221), (115, 1245), (117, 1257), (120, 1278), (125, 1290), (127, 1323), (129, 1329), (139, 1398), (140, 1404), (147, 1437), (153, 1473), (161, 1533), (162, 1542), (165, 1569), (174, 1647), (191, 1743), (205, 1788), (219, 1860), (228, 1899), (233, 1935), (236, 1941), (241, 1965), (247, 1995), (248, 2001), (257, 2043), (258, 2046), (259, 2049), (265, 2091), (267, 2103), (269, 2115),

Gene: UncleRicky_3 Start: 797, Stop: 2158, Start Num: 39

Candidate Starts for UncleRicky_3:

(17, 659), (Start: 21 @671 has 85 MA's), (Start: 39 @797 has 6 MA's), (40, 803), (47, 845), (49, 851), (55, 884), (57, 890), (59, 896), (63, 935), (70, 959), (72, 977), (73, 980), (79, 1022), (85, 1043), (91, 1070), (92, 1079), (95, 1088), (96, 1091), (98, 1115), (102, 1142), (109, 1199), (111, 1220), (115, 1244), (117, 1256), (120, 1277), (125, 1289), (127, 1322), (129, 1328), (139, 1397), (140, 1403), (147, 1436), (153, 1472), (161, 1532), (162, 1541), (165, 1568), (174, 1646), (191, 1742), (205, 1787), (219, 1859), (228, 1898), (233, 1934), (236, 1940), (241, 1964), (247, 1994), (248, 2000), (257, 2042), (258, 2045), (259, 2048), (265, 2090), (267, 2102), (269, 2114),

Gene: Utopia_1 Start: 76, Stop: 1755, Start Num: 9

Candidate Starts for Utopia_1:

(Start: 3 @22 has 7 MA's), (Start: 9 @76 has 3 MA's), (Start: 29 @175 has 1 MA's), (34, 229), (38, 244), (43, 274), (44, 277), (48, 304), (80, 475), (81, 481), (86, 490), (119, 712), (128, 775), (143, 856), (156, 916), (159, 946), (194, 1183), (195, 1186), (216, 1300), (218, 1306), (229, 1354), (234, 1384), (249, 1456), (261, 1510), (268, 1552),

Gene: Velveteen_3 Start: 671, Stop: 2158, Start Num: 21

Candidate Starts for Velveteen_3:

(17, 659), (Start: 21 @671 has 85 MA's), (Start: 39 @797 has 6 MA's), (40, 803), (47, 845), (49, 851), (55, 884), (57, 890), (59, 896), (63, 935), (70, 959), (72, 977), (73, 980), (79, 1022), (85, 1043), (91, 1070), (92, 1079), (95, 1088), (96, 1091), (98, 1115), (102, 1142), (109, 1199), (111, 1220), (115, 1244), (117, 1256), (120, 1277), (125, 1289), (127, 1322), (129, 1328), (139, 1397), (140, 1403), (147, 1436), (153, 1472), (161, 1532), (162, 1541), (165, 1568), (174, 1646), (191, 1742), (205, 1787), (219, 1859), (228, 1898), (233, 1934), (236, 1940), (241, 1964), (247, 1994), (248, 2000), (257, 2042), (258, 2045), (259, 2048), (265, 2090), (267, 2102), (269, 2114),

Gene: Whitney_3 Start: 673, Stop: 2190, Start Num: 21

Candidate Starts for Whitney_3:

(18, 664), (Start: 21 @673 has 85 MA's), (38, 790), (Start: 39 @799 has 6 MA's), (49, 853), (55, 886), (63, 937), (66, 946), (73, 982), (79, 1024), (85, 1045), (89, 1057), (91, 1072), (95, 1090), (96, 1093), (97, 1096), (98, 1117), (102, 1144), (109, 1201), (115, 1246), (116, 1249), (117, 1258), (120, 1279), (125, 1291), (126, 1318), (129, 1330), (139, 1399), (141, 1411), (155, 1483), (158, 1507), (162, 1543),

(165, 1570), (172, 1636), (177, 1657), (197, 1759), (205, 1786), (239, 1945), (241, 1963), (257, 2041), (258, 2044), (259, 2047), (265, 2089), (267, 2101), (269, 2113),

Gene: Whytu_1 Start: 77, Stop: 1762, Start Num: 9

Candidate Starts for Whytu_1:

(4, 32), (Start: 9 @77 has 3 MA's), (Start: 29 @176 has 1 MA's), (34, 230), (38, 245), (43, 275), (44, 278), (48, 305), (65, 392), (80, 476), (81, 482), (86, 491), (96, 536), (119, 713), (128, 776), (157, 929), (159, 947), (194, 1184), (195, 1187), (216, 1301), (218, 1307), (229, 1355), (234, 1385), (249, 1457), (261, 1511), (268, 1553), (278, 1703), (280, 1739), (281, 1757),

Gene: WorldChangers_1 Start: 166, Stop: 1725, Start Num: 3

Candidate Starts for WorldChangers_1:

(Start: 3 @166 has 7 MA's), (11, 220), (20, 262), (34, 370), (37, 379), (80, 595), (81, 601), (88, 613), (104, 715), (107, 757), (119, 832), (137, 946), (143, 976), (144, 979), (159, 1063), (162, 1084), (163, 1096), (171, 1156), (185, 1246), (195, 1303), (218, 1423), (229, 1471), (240, 1513), (265, 1648), (268, 1669),

Gene: Yavru_1 Start: 76, Stop: 1761, Start Num: 9

Candidate Starts for Yavru_1:

(Start: 3 @22 has 7 MA's), (Start: 9 @76 has 3 MA's), (Start: 29 @175 has 1 MA's), (34, 229), (38, 244), (43, 274), (44, 277), (48, 304), (80, 475), (81, 481), (82, 484), (86, 490), (90, 502), (119, 712), (128, 775), (138, 829), (143, 856), (156, 916), (159, 946), (195, 1186), (216, 1300), (218, 1306), (229, 1354), (234, 1384), (249, 1456), (261, 1510), (268, 1552),

Gene: Yoshi_3 Start: 663, Stop: 2183, Start Num: 21

Candidate Starts for Yoshi_3:

(17, 651), (Start: 21 @663 has 85 MA's), (Start: 39 @789 has 6 MA's), (41, 798), (49, 843), (54, 873), (55, 876), (57, 882), (63, 927), (70, 951), (73, 972), (79, 1014), (85, 1035), (91, 1062), (95, 1080), (96, 1083), (98, 1107), (102, 1134), (109, 1191), (114, 1227), (115, 1236), (117, 1248), (118, 1254), (120, 1269), (125, 1281), (126, 1308), (127, 1314), (129, 1320), (134, 1356), (136, 1365), (140, 1395), (146, 1425), (147, 1428), (161, 1524), (162, 1533), (165, 1560), (176, 1644), (178, 1659), (201, 1770), (205, 1779), (207, 1788), (219, 1851), (233, 1926), (239, 1938), (241, 1956), (248, 1992), (257, 2034), (259, 2040), (265, 2082), (267, 2094), (269, 2106), (273, 2172),

Gene: Zapner_4 Start: 1188, Stop: 2708, Start Num: 21

Candidate Starts for Zapner_4:

(17, 1176), (Start: 21 @1188 has 85 MA's), (Start: 39 @1314 has 6 MA's), (41, 1323), (49, 1368), (54, 1398), (55, 1401), (57, 1407), (63, 1452), (70, 1476), (73, 1497), (79, 1539), (85, 1560), (91, 1587), (95, 1605), (96, 1608), (98, 1632), (102, 1659), (109, 1716), (114, 1752), (115, 1761), (117, 1773), (118, 1779), (120, 1794), (125, 1806), (127, 1839), (129, 1845), (134, 1881), (136, 1890), (140, 1920), (146, 1950), (147, 1953), (161, 2049), (162, 2058), (165, 2085), (176, 2169), (178, 2184), (201, 2295), (205, 2304), (207, 2313), (219, 2376), (233, 2451), (239, 2463), (241, 2481), (248, 2517), (257, 2559), (259, 2565), (265, 2607), (267, 2619), (269, 2631), (273, 2697),

Gene: Zucker_3 Start: 797, Stop: 2302, Start Num: 25

Candidate Starts for Zucker_3:

(Start: 25 @797 has 3 MA's), (47, 941), (61, 992), (68, 1043), (95, 1181), (99, 1223), (101, 1241), (121, 1385), (125, 1397), (132, 1442), (133, 1448), (147, 1526), (149, 1547), (167, 1676), (182, 1778), (183, 1784), (186, 1805), (196, 1856), (211, 1943), (223, 2003), (233, 2051), (243, 2084), (265, 2216),