

Pham 174642

1: Jumbosesel_14	23	41	59	01	02	14	21	136	145	154	173	184	205	210	228	234	248	281	306	315
2: Vallejo_48	23	41	51	01	02	14	21	136	145	154	173	184	205	210	228	234	248	281	306	315
3: WonderBoy_144	23	41	51	01	02	14	21	136	145	154	173	184	205	210	228	234	248	281	306	315
4: Herb_45 + 5	23	41	51	01	02	14	21	136	145	154	173	184	205	210	228	234	248	281	306	315
5: OurGmNes_44	23	41	51	01	02	14	21	136	145	154	173	184	205	210	228	234	248	281	306	315
6: Huntingdon_47 +	23	41	51	01	02	14	21	136	145	154	173	184	205	210	228	234	248	281	306	315
7: PartyCup_14	23	41	51	01	02	14	21	136	145	154	173	184	205	210	228	234	248	281	306	315
8: GreenHead_49	23	41	51	01	02	14	21	136	145	154	173	184	205	210	228	234	248	281	306	315
9: TattlMod_14	23	41	51	01	02	14	21	136	145	154	173	184	205	210	228	234	248	281	306	315
10: Riverdale_48	23	41	51	01	02	14	21	136	145	154	173	184	205	210	228	234	248	281	306	315
11: Lennox_43	23	41	51	01	02	14	21	136	145	154	173	184	205	210	228	234	248	281	306	315
12: Zorro_48 H-1	23	41	51	01	02	14	21	136	145	154	173	184	205	210	228	234	248	281	306	315
13: ChewChaw_45	23	41	51	01	02	14	21	136	145	154	173	184	205	210	228	234	248	281	306	315
14: Chiridison_14	23	41	51	01	02	14	21	136	145	154	173	184	205	210	228	234	248	281	306	315
15: Rivina_45 + 3	23	41	51	01	02	14	21	136	145	154	173	184	205	210	228	234	248	281	306	315
16: MamaPea_46	23	41	51	01	02	14	21	136	145	154	173	184	205	210	228	234	248	281	306	315
17: DreamEa_45	23	41	51	01	02	14	21	136	145	154	173	184	205	210	228	234	248	281	306	315
18: Moki_45	23	41	51	01	02	14	21	136	145	154	173	184	205	210	228	234	248	281	306	315
19: Vulture_43 + 1	23	41	51	01	02	14	21	136	145	154	173	184	205	210	228	234	248	281	306	315
20: PinkFriday_145	23	41	51	01	02	14	21	136	145	154	173	184	205	210	228	234	248	281	306	315
21: Christian_45	23	41	51	01	02	14	21	136	145	154	173	184	205	210	228	234	248	281	306	315
22: Lucy_45	23	41	51	01	02	14	21	136	145	154	173	184	205	210	228	234	248	281	306	315
23: Immacula_47	23	41	51	01	02	14	21	136	145	154	173	184	205	210	228	234	248	281	306	315
24: Misaeng_14	23	41	51	01	02	14	21	136	145	154	173	184	205	210	228	234	248	281	306	315
25: Wawa_43	23	41	51	01	02	14	21	136	145	154	173	184	205	210	228	234	248	281	306	315
26: CameoMiley_14	23	41	51	01	02	14	21	136	145	154	173	184	205	210	228	234	248	281	306	315
27: BigMac_14	23	41	51	01	02	14	21	136	145	154	173	184	205	210	228	234	248	281	306	315
28: Litotes_41	23	41	51	01	02	14	21	136	145	154	173	184	205	210	228	234	248	281	306	315
29: Pterodactyl_45	23	41	51	01	02	14	21	136	145	154	173	184	205	210	228	234	248	281	306	315
30: AustinPowers_45	23	41	51	01	02	14	21	136	145	154	173	184	205	210	228	234	248	281	306	315
31: Preamble_14	23	41	51	01	02	14	21	136	145	154	173	184	205	210	228	234	248	281	306	315
32: BrotherE_47	23	41	51	01	02	14	21	136	145	154	173	184	205	210	228	234	248	281	306	315
33: AppleCiti_47	23	41	51	01	02	14	21	136	145	154	173	184	205	210	228	234	248	281	306	315
34: Lakshmi_14	23	41	51	01	02	14	21	136	145	154	173	184	205	210	228	234	248	281	306	315
35: MeganiVd_47	23	41	51	01	02	14	21	136	145	154	173	184	205	210	228	234	248	281	306	315
36: Nubia_48	23	41	51	01	02	14	21	136	145	154	173	184	205	210	228	234	248	281	306	315
37: Supakev_14	23	41	51	01	02	14	21	136	145	154	173	184	205	210	228	234	248	281	306	315
38: Korra_47	23	41	51	01	02	14	21	136	145	154	173	184	205	210	228	234	248	281	306	315
39: MrGoopy_48	23	41	51	01	02	14	21	136	145	154	173	184	205	210	228	234	248	281	306	315
40: Carpal_41	23	41	51	01	02	14	21	136	145	154	173	184	205	210	228	234	248	281	306	315
41: Oxyminius_48	23	41	51	01	02	14	21	136	145	154	173	184	205	210	228	234	248	281	306	315
42: Bennie_41	23	41	51	01	02	14	21	136	145	154	173	184	205	210	228	234	248	281	306	315
43: Cholula_43 + 1	23	41	51	01	02	14	21	136	145	154	173	184	205	210	228	234	248	281	306	315
44: Greenhouse_49	23	41	51	01	02	14	21	136	145	154	173	184	205	210	228	234	248	281	306	315
45: Albanese_48	23	41	51	01	02	14	21	136	145	154	173	184	205	210	228	234	248	281	306	315
46: RAP15_14	23	41	51	01	02	14	21	136	145	154	173	184	205	210	228	234	248	281	306	315
47: Huckleberry_45	23	41	51	01	02	14	21	136	145	154	173	184	205	210	228	234	248	281	306	315
48: DrRobert_44	23	41	51	01	02	14	21	136	145	154	173	184	205	210	228	234	248	281	306	315
49: Makoto_45	23	41	51	01	02	14	21	136	145	154	173	184	205	210	228	234	248	281	306	315
50: Joann_49	23	41	51	01	02	14	21	136	145	154	173	184	205	210	228	234	248	281	306	315

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 174642 Report

This analysis was run 11/02/24 on database version 579.

Pham number 174642 has 120 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Jumboset_48
- Track 2 : Vallejo_48, Kalizoi_47, Savage2526_48, Glenn_48
- Track 3 : WonderBoy_44
- Track 4 : Herb_45, Temper16_45, Daiboju_45, Maria1952_44, KingBob_45, Sergei_45
- Track 5 : OurGirlNessie_44
- Track 6 : Huntingdon_47, RcigaStruga_47
- Track 7 : PartyCup_52
- Track 8 : GreenHearts_49
- Track 9 : TattModd_46
- Track 10 : Riverdale_48
- Track 11 : Lennox_45
- Track 12 : Zorro_48, Dino_48
- Track 13 : ChewChew_45, CristinaYang_45, LilStuart_45, Bodacious_45, Lasagna_44, Nancia_45
- Track 14 : Chridison_44
- Track 15 : Riovina_45, OMalley_45, Eunoia_45, Aledel_45
- Track 16 : MamaPearl_46, EstebanJulior_46
- Track 17 : DreamTeam_45, Gisselle_45, Kittykat_48
- Track 18 : Moki_45
- Track 19 : Vulture_45, HunterDalle_45
- Track 20 : PinkFriday_45
- Track 21 : Christian_45
- Track 22 : Lucy_45
- Track 23 : Immaculata_47
- Track 24 : Misaeng_47
- Track 25 : Wawa_47
- Track 26 : CallieOMalley_47, Wayne_47, Suppi_47, Canowicakte_47
- Track 27 : BigMack_45
- Track 28 : Litotes_47
- Track 29 : Pterodactyl_45
- Track 30 : AustinPowers_45
- Track 31 : Preamble_47
- Track 32 : BrotherBLo_47
- Track 33 : AppleCider_47
- Track 34 : Lakshmi_48
- Track 35 : MeganNoll_47

- Track 36 : Nubia_48
- Track 37 : Supakev_45
- Track 38 : Korra_47
- Track 39 : MrGloopy_48
- Track 40 : Carpal_47
- Track 41 : Oxynfrius_48
- Track 42 : Bennie_45
- Track 43 : Cholula_47, Potatoes_47
- Track 44 : Greenhouse_49
- Track 45 : Albanese_48
- Track 46 : RAP15_48
- Track 47 : Huckleberry_45
- Track 48 : DrRobert_44
- Track 49 : Makoto_45
- Track 50 : Joann_49
- Track 51 : Scuttle_47
- Track 52 : Rozby_47
- Track 53 : Pumancara_45
- Track 54 : PitaDog_46
- Track 55 : HeadNerd_45
- Track 56 : Fluke_48
- Track 57 : Beethoven_47
- Track 58 : Urla_46
- Track 59 : Crosby_62
- Track 60 : Araceli_60, Henoccus_61
- Track 61 : Stuff_60
- Track 62 : UNTPL_62
- Track 63 : Marky_64
- Track 64 : LazerLemon_61
- Track 65 : Intolerant_58
- Track 66 : Bogota_61
- Track 67 : Microdon_60
- Track 68 : JackieB_61
- Track 69 : Hiyaa_56
- Track 70 : Spocter_55
- Track 71 : Galactica_54
- Track 72 : Keanu_54
- Track 73 : Ghobes_39
- Track 74 : Frizzle_40
- Track 75 : Sapo_38
- Track 76 : Archimedes_41
- Track 77 : Theresita_51
- Track 78 : Benry_54
- Track 79 : Typher_51
- Track 80 : Milani_50
- Track 81 : Rasovi_54, Htur_54
- Track 82 : Cicada_53
- Track 83 : Zanella_50
- Track 84 : TurboVicky_51
- Track 85 : Sucha_50
- Track 86 : Jera_51
- Track 87 : FireCastle_51
- Track 88 : Johann_52, Goodman_52

- Track 89 : PermaG_52
- Track 90 : IndiRoo_56
- Track 91 : SBlackberry_49

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

The start number called the most often in the published annotations is 28, it was called in 86 of the 117 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Aledel_45, AppleCider_47, AustinPowers_45, Beethoven_47, BigMack_45, Bodacious_45, BrotherBLo_47, CallieOMalley_47, Canowicakte_47, Carpal_47, ChewChew_45, Cholula_47, Chridison_44, Christian_45, Cicada_53, CristinaYang_45, Daiboju_45, Dino_48, DrRobert_44, DreamTeam_45, EstebanJulior_46, Eunoia_45, FireCastle_51, Fluke_48, Gisselle_45, Glenn_48, Goodman_52, HeadNerd_45, Herb_45, Htur_54, Huckleberry_45, HunterDalle_45, Immaculata_47, Jera_51, Johann_52, Jumboset_48, Kalizoi_47, KingBob_45, Kittykat_48, Korra_47, Lasagna_44, Lennox_45, LilStuart_45, Litotes_47, Lucy_45, Makoto_45, MamaPearl_46, Maria1952_44, MeganNoll_47, Moki_45, MrGloopy_48, Nancia_45, OMalley_45, OurGirlNessie_44, PartyCup_52, PermaG_52, PinkFriday_45, PitaDog_46, Potatoes_47, Preamble_47, Pterodactyl_45, Pumancara_45, RAP15_48, Rasovi_54, Rivovina_45, Riverdale_48, Rozby_47, SBlackberry_49, Savage2526_48, Scuttle_47, Sergei_45, Sucha_50, Supakev_45, Suppi_47, TattModd_46, Temper16_45, Theresita_51, TurboVicky_51, Typher_51, Urla_46, Vallejo_48, Vulture_45, Wawa_47, Wayne_47, WonderBoy_44, Zanella_50, Zorro_48,

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

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

- Albanese_48, Araceli_60, Archimedes_41, Bennie_45, Benry_54, Bogota_61, Crosby_62, Frizzle_40, Galactica_54, Ghobes_39, GreenHearts_49, Greenhouse_49, Henoccus_61, Hiyaa_56, Huntingdon_47, IndiRoo_56, Intolerant_58, JackieB_61, Joann_49, Keanu_54, Lakshmi_48, LazerLemon_61, Marky_64, Microdon_60, Milani_50, Misaeng_47, Nubia_48, Oxynfrius_48, RcigaStruga_47, Sapo_38, Spocter_55, Stuff_60, UNTPL_62,

Summary by start number:

Start 24:

- Found in 30 of 120 (25.0%) of genes in pham
- Manual Annotations of this start: 4 of 117
- Called 13.3% of time when present
- Phage (with cluster) where this start called: Galactica_54 (BQ), Hiyaa_56 (BQ), Keanu_54 (BQ), Spocter_55 (BQ),

Start 27:

- Found in 11 of 120 (9.2%) of genes in pham
- Manual Annotations of this start: 11 of 117

- Called 100.0% of time when present
- Phage (with cluster) where this start called: Albanese_48 (AK), Bennie_45 (AK), GreenHearts_49 (AK), Greenhouse_49 (AK), Huntingdon_47 (AK), Joann_49 (AK), Lakshmi_48 (AK), Misaeng_47 (AK), Nubia_48 (AK), Oxyfrius_48 (AK), RcigaStruga_47 (AK),

Start 28:

- Found in 87 of 120 (72.5%) of genes in pham
- Manual Annotations of this start: 86 of 117
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aledel_45 (AK), AppleCider_47 (AK), AustinPowers_45 (AK), Beethoven_47 (AK), BigMack_45 (AK), Bodacious_45 (AK), BrotherBLo_47 (AK), CallieOMalley_47 (AK), Canowicakte_47 (AK), Carpal_47 (AK), ChewChew_45 (AK), Cholula_47 (AK), Chridison_44 (AK), Christian_45 (AK), Cicada_53 (EJ), CristinaYang_45 (AK), Daiboju_45 (AK), Dino_48 (AK), DrRobert_44 (AK), DreamTeam_45 (AK), EstebanJulior_46 (AK), Eunoia_45 (AK), FireCastle_51 (EJ), Fluke_48 (AK), Gisselle_45 (AK), Glenn_48 (AK), Goodman_52 (EJ), HeadNerd_45 (AK), Herb_45 (AK), Htur_54 (EJ), Huckleberry_45 (AK), HunterDalle_45 (AK), Immaculata_47 (AK), Jera_51 (EJ), Johann_52 (EJ), Jumboset_48 (AK), Kalizoi_47 (AK), KingBob_45 (AK), Kittykat_48 (AK), Korra_47 (AK), Lasagna_44 (AK), Lennox_45 (AK), LilStuart_45 (AK), Litotes_47 (AK), Lucy_45 (AK), Makoto_45 (AK), MamaPearl_46 (AK), Maria1952_44 (AK), MeganNoll_47 (AK), Moki_45 (AK), MrGloopy_48 (AK), Nancia_45 (AK), OMalley_45 (AK), OurGirlNessie_44 (AK), PartyCup_52 (AK), PermaG_52 (EJ), PinkFriday_45 (AK), PitaDog_46 (AK), Potatoes_47 (AK), Preamble_47 (AK), Pterodactyl_45 (AK), Pumancara_45 (AK), RAP15_48 (AK), Rasovi_54 (EJ), Riovina_45 (AK), Riverdale_48 (AK), Rozby_47 (AK), SBlackberry_49 (EJ), Savage2526_48 (AK), Scuttle_47 (AK), Sergei_45 (AK), Sucha_50 (EJ), Supakev_45 (AK), Suppi_47 (AK), TattModd_46 (AK), Temper16_45 (AK), Theresita_51 (EA7), TurboVicky_51 (EJ), Typher_51 (EJ), Urla_46 (AK), Vallejo_48 (AK), Vulture_45 (AK), Wawa_47 (AK), Wayne_47 (AK), WonderBoy_44 (AK), Zanella_50 (EJ), Zorro_48 (AK),

Start 31:

- Found in 4 of 120 (3.3%) of genes in pham
- Manual Annotations of this start: 2 of 117
- Called 75.0% of time when present
- Phage (with cluster) where this start called: Benry_54 (EJ), IndiRoo_56 (EJ), Milani_50 (EJ),

Start 38:

- Found in 1 of 120 (0.8%) of genes in pham
- Manual Annotations of this start: 1 of 117
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Archimedes_41 (DA),

Start 51:

- Found in 16 of 120 (13.3%) of genes in pham
- Manual Annotations of this start: 2 of 117
- Called 18.8% of time when present
- Phage (with cluster) where this start called: Frizzle_40 (DA), Ghobes_39 (DA), Sapo_38 (DA),

Start 56:

- Found in 11 of 120 (9.2%) of genes in pham
- Manual Annotations of this start: 11 of 117
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Araceli_60 (BH), Bogota_61 (BH), Crosby_62 (BH), Henoccus_61 (BH), Intolerant_58 (BH), JackieB_61 (BH), LazerLemon_61 (BH), Marky_64 (BH), Microdon_60 (BH), Stuff_60 (BH), UNTPL_62 (BH),

Summary by clusters:

There are 6 clusters represented in this pham: EJ, AK, BH, DA, BQ, EA7,

Info for manual annotations of cluster AK:

- Start number 27 was manually annotated 11 times for cluster AK.
- Start number 28 was manually annotated 72 times for cluster AK.

Info for manual annotations of cluster BH:

- Start number 56 was manually annotated 11 times for cluster BH.

Info for manual annotations of cluster BQ:

- Start number 24 was manually annotated 4 times for cluster BQ.

Info for manual annotations of cluster DA:

- Start number 38 was manually annotated 1 time for cluster DA.
- Start number 51 was manually annotated 2 times for cluster DA.

Info for manual annotations of cluster EA7:

- Start number 28 was manually annotated 1 time for cluster EA7.

Info for manual annotations of cluster EJ:

- Start number 28 was manually annotated 13 times for cluster EJ.
- Start number 31 was manually annotated 2 times for cluster EJ.

Gene Information:

Gene: Albanese_48 Start: 34394, Stop: 36502, Start Num: 27

Candidate Starts for Albanese_48:

(11, 34280), (14, 34286), (Start: 27 @34394 has 11 MA's), (29, 34403), (41, 34442), (74, 34688), (92, 34769), (96, 34790), (100, 34820), (101, 34829), (114, 34895), (135, 35081), (137, 35093), (151, 35186), (154, 35207), (156, 35225), (158, 35237), (159, 35243), (164, 35264), (184, 35381), (194, 35423), (197, 35447), (215, 35588), (228, 35723), (238, 35765), (240, 35774), (244, 35789), (246, 35804), (247, 35819), (248, 35825), (251, 35855), (253, 35864), (254, 35879), (267, 36041), (272, 36071), (274, 36125), (281, 36182), (286, 36248), (302, 36350), (306, 36371), (307, 36374), (308, 36377), (315, 36419), (318, 36440), (322, 36458), (324, 36476),

Gene: Aledel_45 Start: 33793, Stop: 35892, Start Num: 28

Candidate Starts for Aledel_45:

(Start: 28 @33793 has 86 MA's), (36, 33808), (47, 33865), (49, 33892), (67, 34045), (74, 34078), (94, 34168), (98, 34186), (99, 34198), (102, 34237), (121, 34327), (135, 34471), (142, 34516), (143, 34522), (146, 34537), (151, 34576), (154, 34597), (158, 34627), (159, 34633), (162, 34645), (164, 34654), (166, 34669), (167, 34681), (184, 34771), (194, 34813), (197, 34837), (213, 34957), (217,

35005), (228, 35113), (238, 35155), (240, 35164), (244, 35179), (248, 35215), (251, 35245), (253, 35254), (254, 35269), (268, 35434), (272, 35461), (274, 35515), (281, 35572), (286, 35638), (302, 35740), (306, 35761), (315, 35809), (317, 35824), (318, 35830), (324, 35866),

Gene: AppleCider_47 Start: 33821, Stop: 35920, Start Num: 28

Candidate Starts for AppleCider_47:

(6, 33674), (7, 33686), (14, 33713), (Start: 28 @33821 has 86 MA's), (33, 33830), (45, 33875), (47, 33893), (67, 34073), (100, 34238), (101, 34247), (121, 34355), (130, 34460), (135, 34499), (137, 34511), (143, 34550), (145, 34556), (151, 34604), (154, 34625), (158, 34655), (159, 34661), (164, 34682), (184, 34799), (194, 34841), (205, 34925), (217, 35033), (228, 35141), (238, 35183), (240, 35192), (244, 35207), (248, 35243), (251, 35273), (253, 35282), (254, 35297), (267, 35459), (270, 35483), (274, 35543), (281, 35594), (300, 35750), (306, 35783), (307, 35786), (309, 35792), (315, 35831), (317, 35846),

Gene: Araceli_60 Start: 43236, Stop: 45248, Start Num: 56

Candidate Starts for Araceli_60:

(Start: 56 @43236 has 11 MA's), (60, 43287), (66, 43353), (68, 43377), (75, 43419), (100, 43563), (102, 43590), (103, 43593), (113, 43641), (115, 43656), (117, 43671), (128, 43764), (135, 43842), (136, 43851), (138, 43857), (140, 43875), (141, 43884), (145, 43899), (158, 43968), (160, 43977), (164, 43995), (166, 44010), (172, 44043), (174, 44049), (179, 44073), (192, 44154), (195, 44178), (201, 44238), (203, 44250), (207, 44265), (208, 44268), (214, 44319), (220, 44415), (222, 44457), (230, 44496), (232, 44502), (251, 44628), (259, 44709), (261, 44745), (262, 44754), (263, 44763), (266, 44787), (272, 44820), (273, 44859), (276, 44883), (286, 44982), (294, 45054), (303, 45102), (305, 45108), (312, 45153), (314, 45159), (321, 45201), (324, 45225),

Gene: Archimedes_41 Start: 35374, Stop: 37368, Start Num: 38

Candidate Starts for Archimedes_41:

(Start: 38 @35374 has 1 MA's), (47, 35416), (102, 35773), (103, 35776), (104, 35779), (125, 35893), (127, 35905), (135, 35986), (137, 35998), (138, 36001), (144, 36040), (159, 36115), (163, 36130), (164, 36136), (166, 36151), (177, 36205), (186, 36253), (196, 36283), (198, 36304), (203, 36352), (212, 36415), (219, 36487), (226, 36562), (228, 36580), (238, 36625), (241, 36637), (251, 36718), (264, 36880), (265, 36883), (268, 36907), (274, 36988), (280, 37015), (281, 37021), (286, 37087), (287, 37096), (290, 37123), (308, 37225),

Gene: AustinPowers_45 Start: 33789, Stop: 35888, Start Num: 28

Candidate Starts for AustinPowers_45:

(Start: 28 @33789 has 86 MA's), (36, 33804), (47, 33861), (49, 33888), (67, 34041), (74, 34074), (94, 34164), (98, 34182), (99, 34194), (102, 34233), (121, 34323), (135, 34467), (142, 34512), (146, 34533), (151, 34572), (154, 34593), (158, 34623), (159, 34629), (164, 34650), (166, 34665), (167, 34677), (184, 34767), (194, 34809), (197, 34833), (213, 34953), (217, 35001), (228, 35109), (238, 35151), (240, 35160), (244, 35175), (248, 35211), (251, 35241), (253, 35250), (254, 35265), (268, 35430), (272, 35457), (274, 35511), (281, 35568), (286, 35634), (302, 35736), (306, 35757), (315, 35805), (317, 35820), (318, 35826), (324, 35862),

Gene: Beethoven_47 Start: 33764, Stop: 35875, Start Num: 28

Candidate Starts for Beethoven_47:

(7, 33629), (14, 33656), (Start: 24 @33737 has 4 MA's), (Start: 28 @33764 has 86 MA's), (47, 33848), (48, 33854), (67, 34028), (74, 34061), (92, 34142), (98, 34169), (100, 34193), (102, 34220), (114, 34268), (121, 34310), (135, 34454), (145, 34511), (147, 34526), (149, 34538), (151, 34559), (158, 34610), (159, 34616), (164, 34637), (184, 34754), (210, 34904), (228, 35096), (238, 35138), (240, 35147), (244, 35162), (246, 35177), (247, 35192), (248, 35198), (251, 35228), (253, 35237), (254, 35252), (255, 35258), (270, 35438), (272, 35444), (274, 35498), (281, 35555), (298, 35705), (306, 35744), (315, 35792),

Gene: Bennie_45 Start: 32578, Stop: 34689, Start Num: 27

Candidate Starts for Bennie_45:

(7, 32446), (14, 32473), (Start: 27 @32578 has 11 MA's), (47, 32662), (48, 32668), (63, 32806), (67, 32842), (74, 32875), (92, 32956), (98, 32983), (100, 33007), (102, 33034), (114, 33082), (121, 33124), (135, 33268), (151, 33373), (154, 33394), (158, 33424), (159, 33430), (164, 33451), (167, 33478), (173, 33502), (184, 33568), (194, 33610), (197, 33634), (228, 33910), (238, 33952), (240, 33961), (244, 33976), (246, 33991), (247, 34006), (248, 34012), (251, 34042), (253, 34051), (254, 34066), (267, 34228), (274, 34312), (281, 34369), (288, 34447), (306, 34558), (312, 34591), (315, 34606), (317, 34621),

Gene: Benry_54 Start: 35000, Stop: 37285, Start Num: 31

Candidate Starts for Benry_54:

(21, 34946), (Start: 31 @35000 has 2 MA's), (54, 35132), (64, 35243), (69, 35288), (93, 35474), (94, 35477), (100, 35519), (103, 35549), (122, 35642), (129, 35738), (135, 35792), (137, 35804), (158, 35960), (160, 35969), (161, 35975), (164, 35987), (166, 36002), (175, 36050), (180, 36074), (184, 36113), (199, 36221), (200, 36224), (202, 36239), (203, 36248), (209, 36272), (221, 36410), (238, 36506), (245, 36533), (248, 36560), (251, 36590), (257, 36653), (258, 36692), (277, 36872), (302, 37127), (304, 37133), (305, 37136), (316, 37205), (325, 37259),

Gene: BigMack_45 Start: 32673, Stop: 34793, Start Num: 28

Candidate Starts for BigMack_45:

(7, 32538), (14, 32565), (Start: 24 @32646 has 4 MA's), (Start: 28 @32673 has 86 MA's), (42, 32733), (44, 32739), (47, 32760), (48, 32766), (59, 32862), (67, 32940), (74, 32973), (89, 33036), (97, 33078), (98, 33081), (100, 33105), (102, 33132), (114, 33180), (121, 33222), (135, 33366), (147, 33438), (151, 33471), (154, 33492), (158, 33522), (159, 33528), (164, 33549), (184, 33666), (194, 33708), (210, 33816), (228, 34008), (238, 34050), (240, 34059), (244, 34074), (246, 34089), (247, 34104), (248, 34110), (251, 34140), (253, 34149), (254, 34164), (270, 34350), (272, 34356), (274, 34410), (281, 34467), (298, 34617), (302, 34635), (306, 34656), (315, 34704),

Gene: Bodacious_45 Start: 32645, Stop: 34750, Start Num: 28

Candidate Starts for Bodacious_45:

(Start: 28 @32645 has 86 MA's), (45, 32699), (47, 32717), (57, 32792), (65, 32870), (67, 32897), (97, 33035), (98, 33038), (100, 33062), (101, 33071), (115, 33146), (121, 33179), (130, 33284), (135, 33323), (145, 33380), (151, 33428), (154, 33449), (158, 33479), (159, 33485), (164, 33506), (184, 33623), (197, 33689), (206, 33752), (210, 33773), (228, 33965), (238, 34007), (240, 34016), (244, 34031), (247, 34061), (248, 34067), (251, 34097), (252, 34100), (253, 34106), (254, 34121), (270, 34307), (271, 34310), (272, 34313), (274, 34367), (281, 34424), (295, 34556), (296, 34559), (302, 34592), (306, 34613), (312, 34646), (315, 34661), (317, 34676), (324, 34718),

Gene: Bogota_61 Start: 43550, Stop: 45562, Start Num: 56

Candidate Starts for Bogota_61:

(Start: 56 @43550 has 11 MA's), (60, 43601), (66, 43667), (68, 43691), (75, 43733), (92, 43838), (100, 43877), (102, 43904), (103, 43907), (112, 43952), (115, 43970), (126, 44060), (128, 44078), (135, 44156), (136, 44165), (138, 44171), (140, 44189), (141, 44198), (146, 44222), (158, 44282), (160, 44291), (164, 44309), (166, 44324), (168, 44342), (174, 44363), (179, 44387), (192, 44468), (200, 44540), (214, 44633), (220, 44729), (222, 44771), (232, 44816), (244, 44876), (251, 44942), (259, 45023), (262, 45068), (263, 45077), (273, 45173), (280, 45215), (286, 45296), (294, 45368), (296, 45374), (303, 45416), (312, 45467), (314, 45473), (321, 45515), (324, 45539),

Gene: BrotherBLo_47 Start: 33795, Stop: 35906, Start Num: 28

Candidate Starts for BrotherBLo_47:

(7, 33660), (14, 33687), (Start: 24 @33768 has 4 MA's), (Start: 28 @33795 has 86 MA's), (Start: 31 @33813 has 2 MA's), (47, 33879), (67, 34059), (89, 34155), (97, 34197), (98, 34200), (100, 34224), (102, 34251), (114, 34299), (121, 34341), (135, 34485), (145, 34542), (147, 34557), (149, 34569), (151, 34590), (154, 34611), (158, 34641), (159, 34647), (164, 34668), (184, 34785), (210, 34935), (228, 35127), (238, 35169), (240, 35178), (244, 35193), (246, 35208), (247, 35223), (248, 35229), (251, 35259), (253, 35268), (254, 35283), (270, 35469), (272, 35475), (274, 35529), (281, 35586), (302, 35754), (306, 35775), (310, 35787), (315, 35823),

Gene: CallieOMalley_47 Start: 33821, Stop: 35914, Start Num: 28

Candidate Starts for CallieOMalley_47:

(6, 33674), (7, 33686), (14, 33713), (Start: 28 @33821 has 86 MA's), (33, 33830), (45, 33875), (47, 33893), (67, 34073), (100, 34238), (101, 34247), (121, 34355), (130, 34460), (135, 34499), (137, 34511), (143, 34550), (145, 34556), (151, 34604), (154, 34625), (158, 34655), (159, 34661), (164, 34682), (184, 34799), (194, 34841), (205, 34925), (217, 35033), (228, 35141), (238, 35183), (240, 35192), (244, 35207), (248, 35243), (251, 35273), (253, 35282), (254, 35297), (267, 35459), (274, 35543), (281, 35594), (300, 35750), (306, 35783), (307, 35786), (309, 35792), (315, 35831), (317, 35846),

Gene: Canowicakte_47 Start: 33856, Stop: 35955, Start Num: 28

Candidate Starts for Canowicakte_47:

(6, 33709), (7, 33721), (14, 33748), (Start: 28 @33856 has 86 MA's), (33, 33865), (45, 33910), (47, 33928), (67, 34108), (100, 34273), (101, 34282), (121, 34390), (130, 34495), (135, 34534), (137, 34546), (143, 34585), (145, 34591), (151, 34639), (154, 34660), (158, 34690), (159, 34696), (164, 34717), (184, 34834), (194, 34876), (205, 34960), (217, 35068), (228, 35176), (238, 35218), (240, 35227), (244, 35242), (248, 35278), (251, 35308), (253, 35317), (254, 35332), (267, 35494), (274, 35578), (281, 35629), (300, 35785), (306, 35818), (307, 35821), (309, 35827), (315, 35866), (317, 35881),

Gene: Carpal_47 Start: 33777, Stop: 35888, Start Num: 28

Candidate Starts for Carpal_47:

(7, 33642), (14, 33669), (Start: 24 @33750 has 4 MA's), (Start: 28 @33777 has 86 MA's), (47, 33861), (48, 33867), (67, 34041), (74, 34074), (92, 34155), (98, 34182), (100, 34206), (102, 34233), (114, 34281), (121, 34323), (135, 34467), (145, 34524), (147, 34539), (149, 34551), (151, 34572), (158, 34623), (159, 34629), (164, 34650), (183, 34761), (184, 34767), (228, 35109), (238, 35151), (240, 35160), (244, 35175), (246, 35190), (247, 35205), (248, 35211), (251, 35241), (253, 35250), (254, 35265), (255, 35271), (270, 35451), (272, 35457), (274, 35511), (281, 35568), (298, 35718), (306, 35757), (315, 35805),

Gene: ChewChew_45 Start: 32776, Stop: 34881, Start Num: 28

Candidate Starts for ChewChew_45:

(Start: 28 @32776 has 86 MA's), (45, 32830), (47, 32848), (57, 32923), (65, 33001), (67, 33028), (97, 33166), (98, 33169), (100, 33193), (101, 33202), (115, 33277), (121, 33310), (130, 33415), (135, 33454), (145, 33511), (151, 33559), (154, 33580), (158, 33610), (159, 33616), (164, 33637), (184, 33754), (197, 33820), (206, 33883), (210, 33904), (228, 34096), (238, 34138), (240, 34147), (244, 34162), (247, 34192), (248, 34198), (251, 34228), (252, 34231), (253, 34237), (254, 34252), (270, 34438), (271, 34441), (272, 34444), (274, 34498), (281, 34555), (295, 34687), (296, 34690), (302, 34723), (306, 34744), (312, 34777), (315, 34792), (317, 34807), (324, 34849),

Gene: Cholula_47 Start: 33822, Stop: 35933, Start Num: 28

Candidate Starts for Cholula_47:

(14, 33714), (Start: 24 @33795 has 4 MA's), (Start: 28 @33822 has 86 MA's), (47, 33906), (67, 34086), (74, 34119), (89, 34182), (92, 34200), (98, 34227), (100, 34251), (102, 34278), (114, 34326), (121, 34368), (132, 34488), (135, 34512), (145, 34569), (147, 34584), (149, 34596), (151, 34617),

(154, 34638), (158, 34668), (159, 34674), (164, 34695), (184, 34812), (228, 35154), (238, 35196), (240, 35205), (244, 35220), (246, 35235), (247, 35250), (248, 35256), (251, 35286), (253, 35295), (254, 35310), (255, 35316), (270, 35496), (272, 35502), (274, 35556), (281, 35613), (298, 35763), (302, 35781), (306, 35802), (310, 35814), (315, 35850),

Gene: Chridison_44 Start: 33723, Stop: 35822, Start Num: 28

Candidate Starts for Chridison_44:

(7, 33585), (14, 33612), (Start: 28 @33723 has 86 MA's), (36, 33738), (47, 33795), (49, 33822), (67, 33975), (74, 34008), (94, 34098), (98, 34116), (99, 34128), (102, 34167), (121, 34257), (135, 34401), (142, 34446), (146, 34467), (151, 34506), (154, 34527), (158, 34557), (159, 34563), (164, 34584), (166, 34599), (167, 34611), (184, 34701), (194, 34743), (197, 34767), (213, 34887), (217, 34935), (228, 35043), (238, 35085), (240, 35094), (244, 35109), (248, 35145), (251, 35175), (253, 35184), (254, 35199), (268, 35364), (272, 35391), (274, 35445), (281, 35502), (286, 35568), (302, 35670), (306, 35691), (315, 35739), (317, 35754), (318, 35760), (324, 35796),

Gene: Christian_45 Start: 32634, Stop: 34748, Start Num: 28

Candidate Starts for Christian_45:

(Start: 28 @32634 has 86 MA's), (36, 32661), (42, 32694), (44, 32700), (47, 32721), (48, 32727), (59, 32823), (100, 33066), (102, 33093), (114, 33141), (121, 33183), (135, 33327), (145, 33384), (151, 33432), (154, 33453), (158, 33483), (159, 33489), (164, 33510), (184, 33627), (197, 33693), (210, 33777), (228, 33969), (238, 34011), (240, 34020), (244, 34035), (247, 34065), (248, 34071), (251, 34101), (253, 34110), (254, 34125), (272, 34317), (274, 34371), (281, 34428), (295, 34560), (302, 34596), (306, 34617), (310, 34629), (318, 34686), (324, 34722),

Gene: Cicada_53 Start: 35628, Stop: 37922, Start Num: 28

Candidate Starts for Cicada_53:

(20, 35574), (23, 35595), (Start: 28 @35628 has 86 MA's), (46, 35700), (47, 35709), (Start: 51 @35742 has 2 MA's), (58, 35787), (69, 35925), (83, 36036), (98, 36138), (100, 36162), (103, 36192), (115, 36243), (129, 36375), (135, 36429), (158, 36597), (160, 36606), (161, 36612), (164, 36624), (166, 36639), (168, 36657), (180, 36711), (181, 36735), (184, 36750), (194, 36807), (199, 36858), (200, 36861), (203, 36885), (209, 36909), (221, 37047), (227, 37098), (238, 37143), (245, 37170), (248, 37197), (249, 37206), (250, 37209), (251, 37227), (258, 37329), (266, 37410), (268, 37416), (276, 37506), (277, 37509), (279, 37533), (302, 37764), (304, 37770), (305, 37773), (307, 37788), (316, 37842),

Gene: CristinaYang_45 Start: 32772, Stop: 34877, Start Num: 28

Candidate Starts for CristinaYang_45:

(Start: 28 @32772 has 86 MA's), (45, 32826), (47, 32844), (57, 32919), (65, 32997), (67, 33024), (97, 33162), (98, 33165), (100, 33189), (101, 33198), (115, 33273), (121, 33306), (130, 33411), (135, 33450), (145, 33507), (151, 33555), (154, 33576), (158, 33606), (159, 33612), (164, 33633), (184, 33750), (197, 33816), (206, 33879), (210, 33900), (228, 34092), (238, 34134), (240, 34143), (244, 34158), (247, 34188), (248, 34194), (251, 34224), (252, 34227), (253, 34233), (254, 34248), (270, 34434), (271, 34437), (272, 34440), (274, 34494), (281, 34551), (295, 34683), (296, 34686), (302, 34719), (306, 34740), (312, 34773), (315, 34788), (317, 34803), (324, 34845),

Gene: Crosby_62 Start: 43605, Stop: 45617, Start Num: 56

Candidate Starts for Crosby_62:

(Start: 56 @43605 has 11 MA's), (60, 43656), (66, 43722), (68, 43746), (75, 43788), (92, 43893), (100, 43932), (102, 43959), (103, 43962), (115, 44025), (126, 44115), (128, 44133), (130, 44169), (135, 44211), (136, 44220), (138, 44226), (140, 44244), (141, 44253), (146, 44277), (158, 44337), (160, 44346), (164, 44364), (166, 44379), (168, 44397), (174, 44418), (179, 44442), (193, 44526), (214, 44688), (220, 44784), (222, 44826), (232, 44871), (251, 44997), (259, 45078), (262, 45123), (263, 45132), (273, 45228), (280, 45270), (286, 45351), (294, 45423), (296, 45429), (303, 45471), (312,

45522), (314, 45528), (321, 45570), (324, 45594),

Gene: Daiboju_45 Start: 33788, Stop: 35887, Start Num: 28

Candidate Starts for Daiboju_45:

(Start: 28 @33788 has 86 MA's), (47, 33860), (49, 33887), (65, 34013), (67, 34040), (74, 34073), (121, 34322), (135, 34466), (137, 34478), (142, 34511), (151, 34571), (154, 34592), (158, 34622), (159, 34628), (164, 34649), (166, 34664), (167, 34676), (169, 34688), (184, 34766), (194, 34808), (197, 34832), (207, 34901), (228, 35108), (235, 35135), (238, 35150), (240, 35159), (244, 35174), (248, 35210), (251, 35240), (253, 35249), (254, 35264), (270, 35450), (274, 35510), (281, 35567), (286, 35633), (302, 35735), (306, 35756), (312, 35789), (317, 35819), (323, 35849), (324, 35861),

Gene: Dino_48 Start: 33923, Stop: 36034, Start Num: 28

Candidate Starts for Dino_48:

(7, 33788), (14, 33815), (Start: 24 @33896 has 4 MA's), (Start: 28 @33923 has 86 MA's), (47, 34007), (59, 34109), (67, 34187), (98, 34328), (100, 34352), (102, 34379), (114, 34427), (121, 34469), (135, 34613), (145, 34670), (147, 34685), (149, 34697), (151, 34718), (154, 34739), (158, 34769), (159, 34775), (164, 34796), (173, 34847), (183, 34907), (184, 34913), (205, 35039), (210, 35063), (228, 35255), (235, 35282), (238, 35297), (240, 35306), (244, 35321), (246, 35336), (247, 35351), (248, 35357), (251, 35387), (253, 35396), (254, 35411), (272, 35603), (274, 35657), (281, 35714), (302, 35882), (306, 35903), (315, 35951),

Gene: DrRobert_44 Start: 32414, Stop: 34528, Start Num: 28

Candidate Starts for DrRobert_44:

(Start: 28 @32414 has 86 MA's), (36, 32441), (42, 32474), (44, 32480), (47, 32501), (59, 32603), (100, 32846), (102, 32873), (114, 32921), (121, 32963), (135, 33107), (145, 33164), (149, 33191), (151, 33212), (154, 33233), (158, 33263), (159, 33269), (161, 33278), (164, 33290), (184, 33407), (197, 33473), (205, 33533), (210, 33557), (228, 33749), (238, 33791), (240, 33800), (244, 33815), (246, 33830), (247, 33845), (248, 33851), (251, 33881), (252, 33884), (253, 33890), (254, 33905), (272, 34097), (274, 34151), (281, 34208), (295, 34340), (302, 34376), (306, 34397), (308, 34403), (310, 34409), (318, 34466), (324, 34502),

Gene: DreamTeam_45 Start: 32739, Stop: 34853, Start Num: 28

Candidate Starts for DreamTeam_45:

(7, 32604), (14, 32631), (Start: 28 @32739 has 86 MA's), (30, 32751), (42, 32799), (44, 32805), (47, 32826), (67, 33006), (74, 33039), (98, 33147), (100, 33171), (108, 33231), (114, 33246), (115, 33255), (121, 33288), (135, 33432), (145, 33489), (149, 33516), (150, 33528), (151, 33537), (154, 33558), (158, 33588), (159, 33594), (164, 33615), (184, 33732), (194, 33774), (196, 33783), (210, 33882), (228, 34074), (240, 34125), (244, 34140), (248, 34176), (251, 34206), (252, 34209), (253, 34215), (254, 34230), (270, 34416), (274, 34476), (281, 34533), (302, 34701), (306, 34722), (315, 34770), (317, 34785),

Gene: EstebanJulior_46 Start: 33791, Stop: 35905, Start Num: 28

Candidate Starts for EstebanJulior_46:

(14, 33680), (Start: 24 @33764 has 4 MA's), (Start: 28 @33791 has 86 MA's), (47, 33878), (48, 33884), (67, 34058), (74, 34091), (98, 34199), (100, 34223), (102, 34250), (114, 34298), (121, 34340), (127, 34397), (135, 34484), (145, 34541), (151, 34589), (154, 34610), (158, 34640), (159, 34646), (161, 34655), (164, 34667), (167, 34694), (184, 34784), (194, 34826), (228, 35126), (238, 35168), (239, 35174), (240, 35177), (244, 35192), (246, 35207), (247, 35222), (248, 35228), (251, 35258), (253, 35267), (254, 35282), (274, 35528), (281, 35585), (288, 35663), (291, 35693), (306, 35774), (315, 35822), (317, 35837),

Gene: Eunoia_45 Start: 33793, Stop: 35892, Start Num: 28

Candidate Starts for Eunoia_45:

(Start: 28 @33793 has 86 MA's), (36, 33808), (47, 33865), (49, 33892), (67, 34045), (74, 34078), (94, 34168), (98, 34186), (99, 34198), (102, 34237), (121, 34327), (135, 34471), (142, 34516), (143, 34522), (146, 34537), (151, 34576), (154, 34597), (158, 34627), (159, 34633), (162, 34645), (164, 34654), (166, 34669), (167, 34681), (184, 34771), (194, 34813), (197, 34837), (213, 34957), (217, 35005), (228, 35113), (238, 35155), (240, 35164), (244, 35179), (248, 35215), (251, 35245), (253, 35254), (254, 35269), (268, 35434), (272, 35461), (274, 35515), (281, 35572), (286, 35638), (302, 35740), (306, 35761), (315, 35809), (317, 35824), (318, 35830), (324, 35866),

Gene: FireCastle_51 Start: 36042, Stop: 38324, Start Num: 28

Candidate Starts for FireCastle_51:

(5, 35883), (13, 35934), (20, 35991), (23, 36012), (Start: 28 @36042 has 86 MA's), (55, 36177), (59, 36222), (69, 36327), (76, 36378), (83, 36438), (86, 36480), (99, 36552), (100, 36564), (103, 36594), (105, 36606), (129, 36777), (135, 36831), (158, 36999), (160, 37008), (161, 37014), (166, 37041), (168, 37059), (179, 37104), (184, 37152), (199, 37260), (200, 37263), (203, 37287), (209, 37311), (216, 37383), (221, 37449), (238, 37545), (245, 37572), (248, 37599), (250, 37611), (251, 37629), (257, 37692), (258, 37731), (277, 37911), (283, 37992), (286, 38058), (302, 38166), (304, 38172), (305, 38175), (307, 38190), (316, 38244), (318, 38256), (325, 38298),

Gene: Fluke_48 Start: 34039, Stop: 36150, Start Num: 28

Candidate Starts for Fluke_48:

(7, 33904), (14, 33931), (Start: 24 @34012 has 4 MA's), (Start: 28 @34039 has 86 MA's), (47, 34123), (59, 34225), (67, 34303), (98, 34444), (100, 34468), (102, 34495), (114, 34543), (121, 34585), (135, 34729), (145, 34786), (147, 34801), (149, 34813), (151, 34834), (154, 34855), (158, 34885), (159, 34891), (164, 34912), (184, 35029), (205, 35155), (210, 35179), (228, 35371), (238, 35413), (240, 35422), (244, 35437), (246, 35452), (247, 35467), (248, 35473), (251, 35503), (253, 35512), (254, 35527), (272, 35719), (274, 35773), (281, 35830), (302, 35998), (306, 36019), (315, 36067),

Gene: Frizzle_40 Start: 34306, Stop: 36231, Start Num: 51

Candidate Starts for Frizzle_40:

(50, 34300), (Start: 51 @34306 has 2 MA's), (52, 34315), (59, 34369), (61, 34381), (75, 34471), (87, 34540), (101, 34621), (118, 34711), (119, 34714), (126, 34765), (137, 34864), (138, 34867), (148, 34930), (159, 34981), (163, 34996), (164, 35002), (167, 35029), (177, 35071), (178, 35077), (179, 35080), (202, 35209), (224, 35419), (232, 35458), (238, 35491), (248, 35554), (256, 35638), (260, 35728), (264, 35746), (265, 35749), (266, 35767), (271, 35797), (272, 35800), (280, 35881), (281, 35887), (286, 35953), (290, 35989), (293, 36013), (297, 36034), (305, 36073), (307, 36088), (309, 36094), (313, 36121), (323, 36178),

Gene: Galactica_54 Start: 40966, Stop: 43338, Start Num: 24

Candidate Starts for Galactica_54:

(1, 40636), (2, 40702), (Start: 24 @40966 has 4 MA's), (26, 40990), (43, 41065), (48, 41098), (55, 41167), (62, 41245), (74, 41380), (77, 41386), (81, 41422), (82, 41425), (90, 41476), (106, 41587), (109, 41614), (110, 41617), (116, 41653), (120, 41677), (122, 41683), (152, 41953), (153, 41965), (155, 41992), (157, 42007), (186, 42163), (204, 42301), (211, 42334), (232, 42568), (233, 42577), (237, 42601), (242, 42634), (248, 42682), (249, 42691), (255, 42742), (265, 42877), (268, 42901), (269, 42916), (274, 42982), (278, 43003), (281, 43027), (289, 43117), (290, 43129), (313, 43258), (319, 43291), (320, 43294),

Gene: Ghobes_39 Start: 34306, Stop: 36231, Start Num: 51

Candidate Starts for Ghobes_39:

(39, 34231), (Start: 51 @34306 has 2 MA's), (52, 34315), (59, 34369), (61, 34381), (75, 34471), (87, 34540), (101, 34621), (118, 34711), (119, 34714), (126, 34765), (137, 34864), (138, 34867), (148, 34930), (159, 34981), (162, 34993), (163, 34996), (164, 35002), (167, 35029), (177, 35071), (178, 35077), (200, 35194), (202, 35209), (204, 35221), (226, 35428), (232, 35458), (238, 35491), (248,

35554), (256, 35638), (260, 35728), (264, 35746), (265, 35749), (266, 35767), (271, 35797), (272, 35800), (280, 35881), (281, 35887), (286, 35953), (290, 35989), (302, 36064), (304, 36070), (305, 36073), (309, 36094), (313, 36121), (314, 36124), (323, 36178),

Gene: Gisselle_45 Start: 32739, Stop: 34853, Start Num: 28

Candidate Starts for Gisselle_45:

(7, 32604), (14, 32631), (Start: 28 @32739 has 86 MA's), (30, 32751), (42, 32799), (44, 32805), (47, 32826), (67, 33006), (74, 33039), (98, 33147), (100, 33171), (108, 33231), (114, 33246), (115, 33255), (121, 33288), (135, 33432), (145, 33489), (149, 33516), (150, 33528), (151, 33537), (154, 33558), (158, 33588), (159, 33594), (164, 33615), (184, 33732), (194, 33774), (196, 33783), (210, 33882), (228, 34074), (240, 34125), (244, 34140), (248, 34176), (251, 34206), (252, 34209), (253, 34215), (254, 34230), (270, 34416), (274, 34476), (281, 34533), (302, 34701), (306, 34722), (315, 34770), (317, 34785),

Gene: Glenn_48 Start: 34030, Stop: 36141, Start Num: 28

Candidate Starts for Glenn_48:

(7, 33895), (14, 33922), (Start: 24 @34003 has 4 MA's), (Start: 28 @34030 has 86 MA's), (47, 34114), (59, 34216), (67, 34294), (98, 34435), (100, 34459), (102, 34486), (114, 34534), (121, 34576), (135, 34720), (145, 34777), (147, 34792), (149, 34804), (151, 34825), (154, 34846), (158, 34876), (159, 34882), (164, 34903), (173, 34954), (184, 35020), (205, 35146), (210, 35170), (228, 35362), (238, 35404), (240, 35413), (244, 35428), (246, 35443), (247, 35458), (248, 35464), (251, 35494), (253, 35503), (254, 35518), (272, 35710), (274, 35764), (281, 35821), (302, 35989), (306, 36010), (315, 36058),

Gene: Goodman_52 Start: 35612, Stop: 37909, Start Num: 28

Candidate Starts for Goodman_52:

(Start: 28 @35612 has 86 MA's), (Start: 51 @35729 has 2 MA's), (53, 35747), (54, 35756), (58, 35774), (59, 35807), (83, 36023), (84, 36044), (99, 36137), (100, 36149), (103, 36179), (114, 36221), (129, 36362), (131, 36386), (135, 36416), (158, 36584), (160, 36593), (161, 36599), (164, 36611), (166, 36626), (168, 36644), (180, 36698), (182, 36725), (184, 36737), (194, 36794), (198, 36824), (200, 36848), (202, 36863), (203, 36872), (207, 36887), (216, 36968), (221, 37034), (238, 37130), (245, 37157), (248, 37184), (251, 37214), (258, 37316), (268, 37403), (269, 37418), (277, 37496), (299, 37736), (302, 37751), (304, 37757), (305, 37760), (307, 37775), (316, 37829),

Gene: GreenHearts_49 Start: 34687, Stop: 36795, Start Num: 27

Candidate Starts for GreenHearts_49:

(11, 34573), (14, 34579), (Start: 27 @34687 has 11 MA's), (29, 34696), (41, 34735), (92, 35062), (96, 35083), (100, 35113), (101, 35122), (114, 35188), (129, 35320), (135, 35374), (137, 35386), (151, 35479), (154, 35500), (156, 35518), (158, 35530), (159, 35536), (164, 35557), (184, 35674), (194, 35716), (197, 35740), (215, 35881), (228, 36016), (238, 36058), (240, 36067), (244, 36082), (246, 36097), (247, 36112), (248, 36118), (251, 36148), (253, 36157), (254, 36172), (267, 36334), (272, 36364), (274, 36418), (281, 36475), (286, 36541), (302, 36643), (306, 36664), (307, 36667), (308, 36670), (315, 36712), (324, 36769),

Gene: Greenhouse_49 Start: 34404, Stop: 36512, Start Num: 27

Candidate Starts for Greenhouse_49:

(11, 34290), (14, 34296), (Start: 27 @34404 has 11 MA's), (29, 34413), (41, 34452), (74, 34698), (92, 34779), (96, 34800), (100, 34830), (101, 34839), (114, 34905), (135, 35091), (137, 35103), (151, 35196), (154, 35217), (156, 35235), (158, 35247), (159, 35253), (162, 35265), (164, 35274), (184, 35391), (194, 35433), (197, 35457), (200, 35487), (215, 35598), (228, 35733), (238, 35775), (240, 35784), (244, 35799), (246, 35814), (247, 35829), (248, 35835), (251, 35865), (253, 35874), (254, 35889), (267, 36051), (272, 36081), (274, 36135), (281, 36192), (302, 36360), (306, 36381), (307, 36384), (308, 36387), (315, 36429), (322, 36468), (324, 36486),

Gene: HeadNerd_45 Start: 32580, Stop: 34688, Start Num: 28

Candidate Starts for HeadNerd_45:

(7, 32445), (14, 32472), (Start: 28 @32580 has 86 MA's), (47, 32661), (59, 32763), (63, 32805), (67, 32841), (92, 32955), (98, 32982), (100, 33006), (102, 33033), (114, 33081), (121, 33123), (135, 33267), (151, 33372), (154, 33393), (158, 33423), (159, 33429), (164, 33450), (167, 33477), (173, 33501), (184, 33567), (194, 33609), (197, 33633), (228, 33909), (238, 33951), (240, 33960), (244, 33975), (246, 33990), (247, 34005), (248, 34011), (251, 34041), (253, 34050), (254, 34065), (274, 34311), (281, 34368), (288, 34446), (306, 34557), (312, 34590), (315, 34605), (317, 34620),

Gene: Henococcus_61 Start: 43248, Stop: 45260, Start Num: 56

Candidate Starts for Henococcus_61:

(Start: 56 @43248 has 11 MA's), (60, 43299), (66, 43365), (68, 43389), (75, 43431), (100, 43575), (102, 43602), (103, 43605), (113, 43653), (115, 43668), (117, 43683), (128, 43776), (135, 43854), (136, 43863), (138, 43869), (140, 43887), (141, 43896), (145, 43911), (158, 43980), (160, 43989), (164, 44007), (166, 44022), (172, 44055), (174, 44061), (179, 44085), (192, 44166), (195, 44190), (201, 44250), (203, 44262), (207, 44277), (208, 44280), (214, 44331), (220, 44427), (222, 44469), (230, 44508), (232, 44514), (251, 44640), (259, 44721), (261, 44757), (262, 44766), (263, 44775), (266, 44799), (272, 44832), (273, 44871), (276, 44895), (286, 44994), (294, 45066), (303, 45114), (305, 45120), (312, 45165), (314, 45171), (321, 45213), (324, 45237),

Gene: Herb_45 Start: 33787, Stop: 35886, Start Num: 28

Candidate Starts for Herb_45:

(Start: 28 @33787 has 86 MA's), (47, 33859), (49, 33886), (65, 34012), (67, 34039), (74, 34072), (121, 34321), (135, 34465), (137, 34477), (142, 34510), (151, 34570), (154, 34591), (158, 34621), (159, 34627), (164, 34648), (166, 34663), (167, 34675), (169, 34687), (184, 34765), (194, 34807), (197, 34831), (207, 34900), (228, 35107), (235, 35134), (238, 35149), (240, 35158), (244, 35173), (248, 35209), (251, 35239), (253, 35248), (254, 35263), (270, 35449), (274, 35509), (281, 35566), (286, 35632), (302, 35734), (306, 35755), (312, 35788), (317, 35818), (323, 35848), (324, 35860),

Gene: Hiyaa_56 Start: 42523, Stop: 44913, Start Num: 24

Candidate Starts for Hiyaa_56:

(Start: 24 @42523 has 4 MA's), (48, 42655), (55, 42724), (62, 42802), (71, 42925), (74, 42937), (77, 42943), (80, 42973), (81, 42979), (82, 42982), (90, 43033), (106, 43144), (109, 43171), (110, 43174), (120, 43234), (122, 43240), (153, 43522), (155, 43549), (157, 43564), (188, 43747), (211, 43909), (225, 44110), (226, 44113), (229, 44134), (232, 44143), (235, 44170), (248, 44257), (249, 44266), (254, 44311), (255, 44317), (260, 44431), (265, 44452), (266, 44470), (268, 44476), (274, 44557), (278, 44578), (281, 44602), (289, 44692), (290, 44704), (297, 44749), (299, 44764), (310, 44812), (316, 44854), (319, 44866), (320, 44869),

Gene: Htur_54 Start: 36277, Stop: 38571, Start Num: 28

Candidate Starts for Htur_54:

(10, 36160), (12, 36166), (20, 36226), (23, 36247), (Start: 28 @36277 has 86 MA's), (35, 36292), (Start: 51 @36391 has 2 MA's), (54, 36418), (55, 36424), (83, 36685), (84, 36706), (98, 36787), (100, 36811), (103, 36841), (114, 36883), (115, 36892), (135, 37078), (158, 37246), (160, 37255), (161, 37261), (164, 37273), (166, 37288), (168, 37306), (184, 37399), (191, 37432), (194, 37456), (198, 37486), (199, 37507), (200, 37510), (203, 37534), (209, 37558), (216, 37630), (221, 37696), (227, 37747), (238, 37792), (245, 37819), (248, 37846), (251, 37876), (266, 38059), (268, 38065), (276, 38155), (277, 38158), (279, 38182), (283, 38239), (304, 38419), (305, 38422), (313, 38470), (316, 38491), (318, 38503),

Gene: Huckleberry_45 Start: 32564, Stop: 34672, Start Num: 28

Candidate Starts for Huckleberry_45:

(7, 32429), (14, 32456), (Start: 28 @32564 has 86 MA's), (47, 32645), (59, 32747), (63, 32789), (67, 32825), (92, 32939), (98, 32966), (100, 32990), (102, 33017), (114, 33065), (121, 33107), (135, 33251), (151, 33356), (154, 33377), (158, 33407), (159, 33413), (164, 33434), (167, 33461), (173, 33485), (184, 33551), (194, 33593), (197, 33617), (228, 33893), (238, 33935), (240, 33944), (244, 33959), (246, 33974), (248, 33995), (249, 34004), (251, 34025), (253, 34034), (254, 34049), (274, 34295), (280, 34346), (281, 34352), (288, 34430), (306, 34541), (312, 34574), (315, 34589), (317, 34604),

Gene: HunterDalle_45 Start: 33721, Stop: 35820, Start Num: 28

Candidate Starts for HunterDalle_45:

(Start: 28 @33721 has 86 MA's), (36, 33736), (47, 33793), (49, 33820), (67, 33973), (74, 34006), (94, 34096), (98, 34114), (99, 34126), (102, 34165), (121, 34255), (135, 34399), (142, 34444), (143, 34450), (146, 34465), (151, 34504), (154, 34525), (158, 34555), (159, 34561), (164, 34582), (166, 34597), (167, 34609), (184, 34699), (194, 34741), (197, 34765), (213, 34885), (217, 34933), (228, 35041), (238, 35083), (240, 35092), (244, 35107), (248, 35143), (251, 35173), (253, 35182), (254, 35197), (268, 35362), (271, 35386), (272, 35389), (274, 35443), (281, 35500), (286, 35566), (302, 35668), (306, 35689), (315, 35737), (317, 35752), (318, 35758), (322, 35776), (324, 35794),

Gene: Huntingdon_47 Start: 34218, Stop: 36323, Start Num: 27

Candidate Starts for Huntingdon_47:

(11, 34104), (14, 34110), (Start: 27 @34218 has 11 MA's), (29, 34227), (47, 34296), (48, 34302), (Start: 51 @34329 has 2 MA's), (57, 34371), (63, 34440), (67, 34476), (74, 34509), (100, 34641), (114, 34716), (121, 34758), (127, 34815), (135, 34902), (145, 34959), (149, 34986), (151, 35007), (154, 35028), (158, 35058), (159, 35064), (164, 35085), (184, 35202), (194, 35244), (197, 35268), (200, 35298), (215, 35409), (228, 35544), (238, 35586), (240, 35595), (244, 35610), (246, 35625), (247, 35640), (248, 35646), (251, 35676), (253, 35685), (254, 35700), (267, 35862), (274, 35946), (281, 36003), (286, 36069), (288, 36081), (298, 36153), (306, 36192), (307, 36195), (308, 36198), (318, 36261), (324, 36297),

Gene: Immaculata_47 Start: 33822, Stop: 35933, Start Num: 28

Candidate Starts for Immaculata_47:

(7, 33687), (14, 33714), (Start: 24 @33795 has 4 MA's), (Start: 28 @33822 has 86 MA's), (47, 33906), (48, 33912), (67, 34086), (74, 34119), (92, 34200), (98, 34227), (100, 34251), (102, 34278), (114, 34326), (121, 34368), (135, 34512), (145, 34569), (147, 34584), (149, 34596), (151, 34617), (158, 34668), (159, 34674), (164, 34695), (184, 34812), (228, 35154), (238, 35196), (240, 35205), (244, 35220), (246, 35235), (247, 35250), (248, 35256), (251, 35286), (253, 35295), (254, 35310), (255, 35316), (270, 35496), (272, 35502), (274, 35556), (281, 35613), (298, 35763), (302, 35781), (306, 35802), (310, 35814), (315, 35850),

Gene: IndiRoo_56 Start: 35406, Stop: 37691, Start Num: 31

Candidate Starts for IndiRoo_56:

(17, 35328), (25, 35388), (Start: 31 @35406 has 2 MA's), (64, 35649), (99, 35913), (100, 35925), (103, 35955), (122, 36048), (135, 36198), (137, 36210), (158, 36366), (160, 36375), (161, 36381), (164, 36393), (168, 36426), (175, 36456), (180, 36480), (184, 36519), (199, 36627), (200, 36630), (202, 36645), (203, 36654), (221, 36816), (238, 36912), (245, 36939), (248, 36966), (251, 36996), (257, 37059), (258, 37098), (277, 37278), (286, 37425), (299, 37518), (304, 37539), (305, 37542), (313, 37590), (316, 37611), (325, 37665),

Gene: Intolerant_58 Start: 43254, Stop: 45266, Start Num: 56

Candidate Starts for Intolerant_58:

(Start: 56 @43254 has 11 MA's), (60, 43305), (66, 43371), (68, 43395), (75, 43437), (92, 43542), (100, 43581), (102, 43608), (103, 43611), (112, 43656), (115, 43674), (126, 43764), (128, 43782), (130, 43818), (133, 43836), (135, 43860), (136, 43869), (138, 43875), (140, 43893), (141, 43902), (146,

43926), (158, 43986), (160, 43995), (164, 44013), (166, 44028), (168, 44046), (179, 44091), (190, 44157), (192, 44172), (214, 44337), (220, 44433), (222, 44475), (232, 44520), (251, 44646), (259, 44727), (262, 44772), (263, 44781), (273, 44877), (280, 44919), (286, 45000), (294, 45072), (296, 45078), (303, 45120), (312, 45171), (314, 45177), (321, 45219), (324, 45243),

Gene: JackieB_61 Start: 43080, Stop: 45092, Start Num: 56

Candidate Starts for JackieB_61:

(Start: 56 @43080 has 11 MA's), (60, 43131), (66, 43197), (68, 43221), (75, 43263), (100, 43407), (102, 43434), (103, 43437), (113, 43485), (115, 43500), (117, 43515), (128, 43608), (135, 43686), (136, 43695), (138, 43701), (140, 43719), (141, 43728), (145, 43743), (158, 43812), (160, 43821), (164, 43839), (166, 43854), (172, 43887), (179, 43917), (192, 43998), (195, 44022), (201, 44082), (203, 44094), (207, 44109), (208, 44112), (214, 44163), (220, 44259), (222, 44301), (230, 44340), (232, 44346), (251, 44472), (259, 44553), (261, 44589), (262, 44598), (263, 44607), (266, 44631), (272, 44664), (273, 44703), (276, 44727), (286, 44826), (294, 44898), (303, 44946), (305, 44952), (312, 44997), (314, 45003), (321, 45045), (324, 45069),

Gene: Jera_51 Start: 34302, Stop: 36599, Start Num: 28

Candidate Starts for Jera_51:

(20, 34251), (23, 34272), (Start: 28 @34302 has 86 MA's), (Start: 51 @34419 has 2 MA's), (53, 34437), (54, 34446), (58, 34464), (59, 34497), (83, 34713), (84, 34734), (98, 34815), (99, 34827), (100, 34839), (103, 34869), (114, 34911), (131, 35076), (135, 35106), (158, 35274), (160, 35283), (161, 35289), (164, 35301), (168, 35334), (180, 35388), (182, 35415), (184, 35427), (191, 35460), (194, 35484), (198, 35514), (200, 35538), (202, 35553), (203, 35562), (207, 35577), (216, 35658), (221, 35724), (238, 35820), (245, 35847), (248, 35874), (251, 35904), (258, 36006), (268, 36093), (269, 36108), (277, 36186), (301, 36438), (302, 36441), (304, 36447), (305, 36450), (316, 36519),

Gene: Joann_49 Start: 34479, Stop: 36587, Start Num: 27

Candidate Starts for Joann_49:

(11, 34365), (14, 34371), (Start: 27 @34479 has 11 MA's), (29, 34488), (41, 34527), (74, 34773), (92, 34854), (96, 34875), (100, 34905), (101, 34914), (114, 34980), (130, 35127), (135, 35166), (137, 35178), (151, 35271), (154, 35292), (156, 35310), (158, 35322), (159, 35328), (164, 35349), (184, 35466), (194, 35508), (197, 35532), (200, 35562), (215, 35673), (228, 35808), (238, 35850), (240, 35859), (244, 35874), (246, 35889), (247, 35904), (248, 35910), (251, 35940), (253, 35949), (254, 35964), (267, 36126), (272, 36156), (274, 36210), (281, 36267), (286, 36333), (302, 36435), (306, 36456), (308, 36462), (315, 36504), (322, 36543),

Gene: Johann_52 Start: 35612, Stop: 37909, Start Num: 28

Candidate Starts for Johann_52:

(Start: 28 @35612 has 86 MA's), (Start: 51 @35729 has 2 MA's), (53, 35747), (54, 35756), (58, 35774), (59, 35807), (83, 36023), (84, 36044), (99, 36137), (100, 36149), (103, 36179), (114, 36221), (129, 36362), (131, 36386), (135, 36416), (158, 36584), (160, 36593), (161, 36599), (164, 36611), (166, 36626), (168, 36644), (180, 36698), (182, 36725), (184, 36737), (194, 36794), (198, 36824), (200, 36848), (202, 36863), (203, 36872), (207, 36887), (216, 36968), (221, 37034), (238, 37130), (245, 37157), (248, 37184), (251, 37214), (258, 37316), (268, 37403), (269, 37418), (277, 37496), (299, 37736), (302, 37751), (304, 37757), (305, 37760), (307, 37775), (316, 37829),

Gene: Jumboset_48 Start: 33935, Stop: 36046, Start Num: 28

Candidate Starts for Jumboset_48:

(7, 33800), (14, 33827), (Start: 24 @33908 has 4 MA's), (Start: 28 @33935 has 86 MA's), (47, 34019), (59, 34121), (67, 34199), (98, 34340), (100, 34364), (102, 34391), (114, 34439), (121, 34481), (135, 34625), (145, 34682), (147, 34697), (149, 34709), (151, 34730), (154, 34751), (158, 34781), (159, 34787), (164, 34808), (173, 34859), (184, 34925), (205, 35051), (210, 35075), (228, 35267), (238, 35309), (240, 35318), (244, 35333), (248, 35369), (251, 35399), (253, 35408), (254, 35423), (267,

35585), (272, 35615), (274, 35669), (281, 35726), (302, 35894), (306, 35915), (315, 35963),

Gene: Kalizoi_47 Start: 33763, Stop: 35874, Start Num: 28

Candidate Starts for Kalizoi_47:

(7, 33628), (14, 33655), (Start: 24 @33736 has 4 MA's), (Start: 28 @33763 has 86 MA's), (47, 33847), (59, 33949), (67, 34027), (98, 34168), (100, 34192), (102, 34219), (114, 34267), (121, 34309), (135, 34453), (145, 34510), (147, 34525), (149, 34537), (151, 34558), (154, 34579), (158, 34609), (159, 34615), (164, 34636), (173, 34687), (184, 34753), (205, 34879), (210, 34903), (228, 35095), (238, 35137), (240, 35146), (244, 35161), (246, 35176), (247, 35191), (248, 35197), (251, 35227), (253, 35236), (254, 35251), (272, 35443), (274, 35497), (281, 35554), (302, 35722), (306, 35743), (315, 35791),

Gene: Keanu_54 Start: 41994, Stop: 44366, Start Num: 24

Candidate Starts for Keanu_54:

(2, 41730), (Start: 24 @41994 has 4 MA's), (34, 42051), (55, 42195), (74, 42408), (81, 42450), (82, 42453), (90, 42504), (92, 42519), (106, 42615), (109, 42642), (110, 42645), (120, 42705), (122, 42711), (138, 42879), (153, 42993), (155, 43020), (157, 43035), (165, 43077), (189, 43212), (202, 43317), (232, 43596), (243, 43671), (248, 43710), (249, 43719), (255, 43770), (260, 43884), (265, 43905), (266, 43923), (268, 43929), (269, 43944), (274, 44010), (278, 44031), (281, 44055), (285, 44100), (288, 44133), (289, 44145), (290, 44157), (292, 44178), (299, 44217), (310, 44265), (316, 44307), (319, 44319), (320, 44322),

Gene: KingBob_45 Start: 33788, Stop: 35887, Start Num: 28

Candidate Starts for KingBob_45:

(Start: 28 @33788 has 86 MA's), (47, 33860), (49, 33887), (65, 34013), (67, 34040), (74, 34073), (121, 34322), (135, 34466), (137, 34478), (142, 34511), (151, 34571), (154, 34592), (158, 34622), (159, 34628), (164, 34649), (166, 34664), (167, 34676), (169, 34688), (184, 34766), (194, 34808), (197, 34832), (207, 34901), (228, 35108), (235, 35135), (238, 35150), (240, 35159), (244, 35174), (248, 35210), (251, 35240), (253, 35249), (254, 35264), (270, 35450), (274, 35510), (281, 35567), (286, 35633), (302, 35735), (306, 35756), (312, 35789), (317, 35819), (323, 35849), (324, 35861),

Gene: Kittykat_48 Start: 33034, Stop: 35148, Start Num: 28

Candidate Starts for Kittykat_48:

(7, 32899), (14, 32926), (Start: 28 @33034 has 86 MA's), (30, 33046), (42, 33094), (44, 33100), (47, 33121), (67, 33301), (74, 33334), (98, 33442), (100, 33466), (108, 33526), (114, 33541), (115, 33550), (121, 33583), (135, 33727), (145, 33784), (149, 33811), (150, 33823), (151, 33832), (154, 33853), (158, 33883), (159, 33889), (164, 33910), (184, 34027), (194, 34069), (196, 34078), (210, 34177), (228, 34369), (240, 34420), (244, 34435), (248, 34471), (251, 34501), (252, 34504), (253, 34510), (254, 34525), (270, 34711), (274, 34771), (281, 34828), (302, 34996), (306, 35017), (315, 35065), (317, 35080),

Gene: Korra_47 Start: 33774, Stop: 35885, Start Num: 28

Candidate Starts for Korra_47:

(7, 33639), (14, 33666), (Start: 24 @33747 has 4 MA's), (Start: 28 @33774 has 86 MA's), (47, 33858), (67, 34038), (74, 34071), (98, 34179), (100, 34203), (102, 34230), (114, 34278), (121, 34320), (135, 34464), (145, 34521), (147, 34536), (149, 34548), (151, 34569), (154, 34590), (158, 34620), (159, 34626), (164, 34647), (184, 34764), (205, 34890), (210, 34914), (228, 35106), (238, 35148), (240, 35157), (244, 35172), (246, 35187), (247, 35202), (248, 35208), (251, 35238), (253, 35247), (254, 35262), (272, 35454), (274, 35508), (281, 35565), (302, 35733), (306, 35754), (315, 35802),

Gene: Lakshmi_48 Start: 34368, Stop: 36476, Start Num: 27

Candidate Starts for Lakshmi_48:

(11, 34254), (14, 34260), (Start: 27 @34368 has 11 MA's), (29, 34377), (41, 34416), (74, 34662), (92, 34743), (96, 34764), (100, 34794), (101, 34803), (114, 34869), (129, 35001), (135, 35055), (137, 35067), (151, 35160), (154, 35181), (156, 35199), (158, 35211), (159, 35217), (164, 35238), (184, 35355), (194, 35397), (197, 35421), (215, 35562), (228, 35697), (238, 35739), (240, 35748), (244, 35763), (246, 35778), (247, 35793), (248, 35799), (251, 35829), (253, 35838), (254, 35853), (267, 36015), (272, 36045), (274, 36099), (281, 36156), (286, 36222), (302, 36324), (306, 36345), (307, 36348), (308, 36351), (315, 36393), (322, 36432), (324, 36450),

Gene: Lasagna_44 Start: 32411, Stop: 34510, Start Num: 28

Candidate Starts for Lasagna_44:

(Start: 28 @32411 has 86 MA's), (45, 32465), (47, 32483), (57, 32558), (65, 32636), (67, 32663), (97, 32801), (98, 32804), (100, 32828), (101, 32837), (115, 32912), (121, 32945), (130, 33050), (135, 33089), (145, 33146), (151, 33194), (154, 33215), (158, 33245), (159, 33251), (164, 33272), (184, 33389), (197, 33455), (206, 33518), (210, 33539), (228, 33731), (238, 33773), (240, 33782), (244, 33797), (247, 33827), (248, 33833), (251, 33863), (252, 33866), (253, 33872), (254, 33887), (270, 34073), (271, 34076), (272, 34079), (274, 34133), (281, 34190), (295, 34322), (296, 34325), (302, 34358), (306, 34379), (312, 34412), (315, 34427), (317, 34442), (324, 34484),

Gene: LazerLemon_61 Start: 43776, Stop: 45788, Start Num: 56

Candidate Starts for LazerLemon_61:

(40, 43671), (Start: 56 @43776 has 11 MA's), (60, 43827), (66, 43893), (68, 43917), (72, 43950), (75, 43959), (95, 44076), (100, 44103), (102, 44130), (103, 44133), (115, 44196), (128, 44304), (135, 44382), (136, 44391), (138, 44397), (140, 44415), (141, 44424), (158, 44508), (160, 44517), (164, 44535), (166, 44550), (172, 44583), (179, 44613), (192, 44694), (195, 44718), (203, 44790), (207, 44805), (208, 44808), (214, 44859), (220, 44955), (222, 44997), (225, 45015), (232, 45042), (234, 45051), (236, 45063), (248, 45138), (251, 45168), (259, 45249), (261, 45285), (262, 45294), (263, 45303), (266, 45327), (273, 45399), (286, 45522), (296, 45600), (303, 45642), (312, 45693), (314, 45699), (321, 45741), (324, 45765),

Gene: Lennox_45 Start: 32620, Stop: 34734, Start Num: 28

Candidate Starts for Lennox_45:

(Start: 28 @32620 has 86 MA's), (36, 32647), (42, 32680), (44, 32686), (47, 32707), (59, 32809), (100, 33052), (102, 33079), (114, 33127), (121, 33169), (135, 33313), (145, 33370), (151, 33418), (154, 33439), (158, 33469), (159, 33475), (164, 33496), (184, 33613), (197, 33679), (210, 33763), (228, 33955), (238, 33997), (240, 34006), (244, 34021), (247, 34051), (248, 34057), (251, 34087), (253, 34096), (254, 34111), (272, 34303), (274, 34357), (281, 34414), (295, 34546), (302, 34582), (306, 34603), (312, 34636), (315, 34651), (317, 34666), (324, 34708),

Gene: LilStuart_45 Start: 32760, Stop: 34859, Start Num: 28

Candidate Starts for LilStuart_45:

(Start: 28 @32760 has 86 MA's), (45, 32814), (47, 32832), (57, 32907), (65, 32985), (67, 33012), (97, 33150), (98, 33153), (100, 33177), (101, 33186), (115, 33261), (121, 33294), (130, 33399), (135, 33438), (145, 33495), (151, 33543), (154, 33564), (158, 33594), (159, 33600), (164, 33621), (184, 33738), (197, 33804), (206, 33867), (210, 33888), (228, 34080), (238, 34122), (240, 34131), (244, 34146), (247, 34176), (248, 34182), (251, 34212), (252, 34215), (253, 34221), (254, 34236), (270, 34422), (271, 34425), (272, 34428), (274, 34482), (281, 34539), (295, 34671), (296, 34674), (302, 34707), (306, 34728), (312, 34761), (315, 34776), (317, 34791), (324, 34833),

Gene: Litotes_47 Start: 33809, Stop: 35902, Start Num: 28

Candidate Starts for Litotes_47:

(6, 33662), (7, 33674), (14, 33701), (Start: 28 @33809 has 86 MA's), (33, 33818), (45, 33863), (47, 33881), (67, 34061), (92, 34175), (100, 34226), (101, 34235), (121, 34343), (130, 34448), (135, 34487), (137, 34499), (143, 34538), (145, 34544), (151, 34592), (154, 34613), (158, 34643), (159,

34649), (164, 34670), (184, 34787), (194, 34829), (205, 34913), (217, 35021), (228, 35129), (238, 35171), (240, 35180), (244, 35195), (248, 35231), (251, 35261), (253, 35270), (254, 35285), (267, 35447), (270, 35471), (274, 35531), (281, 35582), (300, 35738), (306, 35771), (307, 35774), (309, 35780), (315, 35819), (317, 35834),

Gene: Lucy_45 Start: 32758, Stop: 34857, Start Num: 28

Candidate Starts for Lucy_45:

(Start: 28 @32758 has 86 MA's), (45, 32812), (47, 32830), (57, 32905), (67, 33010), (97, 33148), (98, 33151), (100, 33175), (101, 33184), (115, 33259), (121, 33292), (130, 33397), (135, 33436), (145, 33493), (151, 33541), (154, 33562), (158, 33592), (159, 33598), (164, 33619), (184, 33736), (197, 33802), (210, 33886), (228, 34078), (238, 34120), (240, 34129), (244, 34144), (247, 34174), (248, 34180), (251, 34210), (252, 34213), (253, 34219), (254, 34234), (272, 34426), (274, 34480), (281, 34537), (295, 34669), (302, 34705), (306, 34726), (310, 34738), (318, 34795), (324, 34831),

Gene: Makoto_45 Start: 32631, Stop: 34745, Start Num: 28

Candidate Starts for Makoto_45:

(Start: 28 @32631 has 86 MA's), (36, 32658), (42, 32691), (44, 32697), (47, 32718), (59, 32820), (100, 33063), (102, 33090), (114, 33138), (121, 33180), (135, 33324), (145, 33381), (151, 33429), (154, 33450), (158, 33480), (159, 33486), (164, 33507), (184, 33624), (196, 33675), (197, 33690), (210, 33774), (228, 33966), (238, 34008), (240, 34017), (244, 34032), (246, 34047), (247, 34062), (248, 34068), (251, 34098), (253, 34107), (254, 34122), (272, 34314), (274, 34368), (281, 34425), (295, 34557), (306, 34614), (310, 34626), (318, 34683), (324, 34719),

Gene: MamaPearl_46 Start: 33791, Stop: 35905, Start Num: 28

Candidate Starts for MamaPearl_46:

(14, 33680), (Start: 24 @33764 has 4 MA's), (Start: 28 @33791 has 86 MA's), (47, 33878), (48, 33884), (67, 34058), (74, 34091), (98, 34199), (100, 34223), (102, 34250), (114, 34298), (121, 34340), (127, 34397), (135, 34484), (145, 34541), (151, 34589), (154, 34610), (158, 34640), (159, 34646), (161, 34655), (164, 34667), (167, 34694), (184, 34784), (194, 34826), (228, 35126), (238, 35168), (239, 35174), (240, 35177), (244, 35192), (246, 35207), (247, 35222), (248, 35228), (251, 35258), (253, 35267), (254, 35282), (274, 35528), (281, 35585), (288, 35663), (291, 35693), (306, 35774), (315, 35822), (317, 35837),

Gene: Maria1952_44 Start: 33787, Stop: 35886, Start Num: 28

Candidate Starts for Maria1952_44:

(Start: 28 @33787 has 86 MA's), (47, 33859), (49, 33886), (65, 34012), (67, 34039), (74, 34072), (121, 34321), (135, 34465), (137, 34477), (142, 34510), (151, 34570), (154, 34591), (158, 34621), (159, 34627), (164, 34648), (166, 34663), (167, 34675), (169, 34687), (184, 34765), (194, 34807), (197, 34831), (207, 34900), (228, 35107), (235, 35134), (238, 35149), (240, 35158), (244, 35173), (248, 35209), (251, 35239), (253, 35248), (254, 35263), (270, 35449), (274, 35509), (281, 35566), (286, 35632), (302, 35734), (306, 35755), (312, 35788), (317, 35818), (323, 35848), (324, 35860),

Gene: Marky_64 Start: 44188, Stop: 46197, Start Num: 56

Candidate Starts for Marky_64:

(32, 44050), (37, 44065), (40, 44083), (Start: 56 @44188 has 11 MA's), (63, 44290), (65, 44299), (66, 44305), (79, 44410), (88, 44467), (94, 44500), (100, 44530), (102, 44557), (107, 44578), (111, 44605), (115, 44623), (117, 44638), (135, 44809), (136, 44818), (138, 44824), (141, 44851), (145, 44866), (158, 44935), (160, 44944), (164, 44962), (172, 45010), (174, 45016), (187, 45082), (201, 45190), (214, 45271), (220, 45367), (222, 45409), (232, 45454), (235, 45472), (238, 45487), (248, 45550), (249, 45559), (251, 45580), (259, 45661), (263, 45715), (273, 45811), (280, 45853), (282, 45871), (294, 45997), (295, 46000), (303, 46045), (305, 46051), (311, 46093), (314, 46102), (321, 46144), (323, 46156), (324, 46168),

Gene: MeganNoll_47 Start: 33995, Stop: 36112, Start Num: 28

Candidate Starts for MeganNoll_47:

(7, 33860), (14, 33887), (Start: 24 @33968 has 4 MA's), (Start: 28 @33995 has 86 MA's), (47, 34079), (67, 34259), (74, 34292), (98, 34400), (100, 34424), (102, 34451), (114, 34499), (121, 34541), (135, 34685), (145, 34742), (147, 34757), (149, 34769), (151, 34790), (158, 34841), (159, 34847), (164, 34868), (184, 34985), (228, 35327), (238, 35369), (240, 35378), (244, 35393), (246, 35408), (247, 35423), (248, 35429), (251, 35459), (253, 35468), (254, 35483), (272, 35675), (274, 35729), (281, 35786), (302, 35954), (306, 35975), (315, 36023),

Gene: Microdon_60 Start: 43323, Stop: 45344, Start Num: 56

Candidate Starts for Microdon_60:

(Start: 56 @43323 has 11 MA's), (66, 43440), (72, 43497), (73, 43500), (75, 43506), (100, 43650), (102, 43677), (103, 43680), (115, 43752), (123, 43794), (128, 43860), (133, 43914), (135, 43938), (136, 43947), (138, 43953), (140, 43971), (141, 43980), (146, 44004), (158, 44064), (160, 44073), (164, 44091), (166, 44106), (168, 44124), (174, 44145), (179, 44169), (192, 44250), (195, 44274), (202, 44337), (214, 44415), (220, 44511), (222, 44553), (232, 44598), (234, 44607), (248, 44694), (251, 44724), (259, 44805), (262, 44850), (263, 44859), (273, 44955), (280, 44997), (286, 45078), (294, 45150), (296, 45156), (303, 45198), (312, 45249), (314, 45255), (321, 45297), (324, 45321),

Gene: Milani_50 Start: 35225, Stop: 37510, Start Num: 31

Candidate Starts for Milani_50:

(17, 35147), (25, 35207), (Start: 31 @35225 has 2 MA's), (54, 35357), (64, 35468), (69, 35513), (98, 35720), (100, 35744), (103, 35774), (122, 35867), (135, 36017), (137, 36029), (158, 36185), (160, 36194), (161, 36200), (164, 36212), (168, 36245), (175, 36275), (180, 36299), (184, 36338), (199, 36446), (200, 36449), (202, 36464), (203, 36473), (207, 36488), (209, 36497), (221, 36635), (238, 36731), (245, 36758), (248, 36785), (251, 36815), (257, 36878), (258, 36917), (276, 37094), (277, 37097), (283, 37178), (286, 37244), (293, 37301), (299, 37337), (302, 37352), (304, 37358), (305, 37361), (307, 37376), (313, 37409), (316, 37430), (325, 37484),

Gene: Misaeng_47 Start: 34348, Stop: 36453, Start Num: 27

Candidate Starts for Misaeng_47:

(11, 34234), (14, 34240), (Start: 27 @34348 has 11 MA's), (29, 34357), (47, 34426), (48, 34432), (Start: 51 @34459 has 2 MA's), (57, 34501), (63, 34570), (67, 34606), (74, 34639), (100, 34771), (114, 34846), (121, 34888), (124, 34900), (135, 35032), (145, 35089), (149, 35116), (151, 35137), (154, 35158), (158, 35188), (159, 35194), (164, 35215), (184, 35332), (194, 35374), (197, 35398), (215, 35539), (228, 35674), (238, 35716), (240, 35725), (244, 35740), (246, 35755), (247, 35770), (248, 35776), (251, 35806), (253, 35815), (254, 35830), (267, 35992), (274, 36076), (281, 36133), (286, 36199), (288, 36211), (298, 36283), (306, 36322), (307, 36325), (308, 36328), (318, 36391), (324, 36427),

Gene: Moki_45 Start: 32728, Stop: 34836, Start Num: 28

Candidate Starts for Moki_45:

(7, 32593), (14, 32620), (Start: 28 @32728 has 86 MA's), (47, 32809), (59, 32911), (63, 32953), (67, 32989), (92, 33103), (98, 33130), (100, 33154), (102, 33181), (114, 33229), (121, 33271), (135, 33415), (151, 33520), (154, 33541), (158, 33571), (159, 33577), (164, 33598), (167, 33625), (173, 33649), (184, 33715), (194, 33757), (197, 33781), (228, 34057), (238, 34099), (240, 34108), (244, 34123), (246, 34138), (248, 34159), (249, 34168), (251, 34189), (253, 34198), (254, 34213), (274, 34459), (280, 34510), (281, 34516), (288, 34594), (306, 34705), (315, 34753), (317, 34768),

Gene: MrGloopy_48 Start: 33924, Stop: 36035, Start Num: 28

Candidate Starts for MrGloopy_48:

(7, 33789), (14, 33816), (Start: 24 @33897 has 4 MA's), (Start: 28 @33924 has 86 MA's), (47, 34008), (59, 34110), (67, 34188), (98, 34329), (100, 34353), (102, 34380), (114, 34428), (121, 34470), (135,

34614), (145, 34671), (147, 34686), (149, 34698), (151, 34719), (154, 34740), (158, 34770), (159, 34776), (164, 34797), (184, 34914), (210, 35064), (228, 35256), (238, 35298), (240, 35307), (244, 35322), (246, 35337), (247, 35352), (248, 35358), (251, 35388), (253, 35397), (254, 35412), (270, 35598), (272, 35604), (274, 35658), (281, 35715), (298, 35865), (306, 35904), (315, 35952),

Gene: Nancia_45 Start: 32645, Stop: 34750, Start Num: 28

Candidate Starts for Nancia_45:

(Start: 28 @32645 has 86 MA's), (45, 32699), (47, 32717), (57, 32792), (65, 32870), (67, 32897), (97, 33035), (98, 33038), (100, 33062), (101, 33071), (115, 33146), (121, 33179), (130, 33284), (135, 33323), (145, 33380), (151, 33428), (154, 33449), (158, 33479), (159, 33485), (164, 33506), (184, 33623), (197, 33689), (206, 33752), (210, 33773), (228, 33965), (238, 34007), (240, 34016), (244, 34031), (247, 34061), (248, 34067), (251, 34097), (252, 34100), (253, 34106), (254, 34121), (270, 34307), (271, 34310), (272, 34313), (274, 34367), (281, 34424), (295, 34556), (296, 34559), (302, 34592), (306, 34613), (312, 34646), (315, 34661), (317, 34676), (324, 34718),

Gene: Nubia_48 Start: 34312, Stop: 36420, Start Num: 27

Candidate Starts for Nubia_48:

(11, 34198), (14, 34204), (Start: 27 @34312 has 11 MA's), (29, 34321), (41, 34360), (92, 34687), (96, 34708), (100, 34738), (101, 34747), (114, 34813), (135, 34999), (137, 35011), (151, 35104), (154, 35125), (156, 35143), (158, 35155), (159, 35161), (161, 35170), (164, 35182), (184, 35299), (194, 35341), (197, 35365), (215, 35506), (228, 35641), (238, 35683), (240, 35692), (244, 35707), (246, 35722), (247, 35737), (248, 35743), (251, 35773), (253, 35782), (254, 35797), (267, 35959), (272, 35989), (274, 36043), (281, 36100), (286, 36166), (305, 36277), (306, 36289), (307, 36292), (308, 36295), (315, 36337), (322, 36376),

Gene: OMalley_45 Start: 33793, Stop: 35892, Start Num: 28

Candidate Starts for OMalley_45:

(Start: 28 @33793 has 86 MA's), (36, 33808), (47, 33865), (49, 33892), (67, 34045), (74, 34078), (94, 34168), (98, 34186), (99, 34198), (102, 34237), (121, 34327), (135, 34471), (142, 34516), (143, 34522), (146, 34537), (151, 34576), (154, 34597), (158, 34627), (159, 34633), (162, 34645), (164, 34654), (166, 34669), (167, 34681), (184, 34771), (194, 34813), (197, 34837), (213, 34957), (217, 35005), (228, 35113), (238, 35155), (240, 35164), (244, 35179), (248, 35215), (251, 35245), (253, 35254), (254, 35269), (268, 35434), (272, 35461), (274, 35515), (281, 35572), (286, 35638), (302, 35740), (306, 35761), (315, 35809), (317, 35824), (318, 35830), (324, 35866),

Gene: OurGirlNessie_44 Start: 32374, Stop: 34473, Start Num: 28

Candidate Starts for OurGirlNessie_44:

(Start: 28 @32374 has 86 MA's), (45, 32428), (47, 32446), (57, 32521), (65, 32599), (67, 32626), (97, 32764), (98, 32767), (100, 32791), (101, 32800), (115, 32875), (121, 32908), (130, 33013), (135, 33052), (145, 33109), (151, 33157), (154, 33178), (158, 33208), (159, 33214), (164, 33235), (184, 33352), (197, 33418), (206, 33481), (210, 33502), (228, 33694), (238, 33736), (240, 33745), (244, 33760), (247, 33790), (248, 33796), (251, 33826), (252, 33829), (253, 33835), (254, 33850), (272, 34042), (274, 34096), (281, 34153), (295, 34285), (302, 34321), (306, 34342), (310, 34354), (318, 34411), (324, 34447),

Gene: Oxynfrius_48 Start: 34334, Stop: 36442, Start Num: 27

Candidate Starts for Oxynfrius_48:

(11, 34220), (14, 34226), (Start: 27 @34334 has 11 MA's), (29, 34343), (41, 34382), (92, 34709), (96, 34730), (100, 34760), (101, 34769), (114, 34835), (135, 35021), (137, 35033), (151, 35126), (154, 35147), (156, 35165), (158, 35177), (159, 35183), (164, 35204), (184, 35321), (194, 35363), (197, 35387), (215, 35528), (228, 35663), (238, 35705), (240, 35714), (244, 35729), (246, 35744), (247, 35759), (248, 35765), (251, 35795), (253, 35804), (254, 35819), (267, 35981), (272, 36011), (274, 36065), (281, 36122), (286, 36188), (302, 36290), (306, 36311), (307, 36314), (308, 36317), (315,

36359), (322, 36398), (324, 36416),

Gene: PartyCup_52 Start: 34035, Stop: 36128, Start Num: 28

Candidate Starts for PartyCup_52:

(6, 33888), (7, 33900), (14, 33927), (Start: 28 @34035 has 86 MA's), (33, 34044), (45, 34089), (47, 34107), (67, 34287), (100, 34452), (101, 34461), (121, 34569), (130, 34674), (135, 34713), (137, 34725), (143, 34764), (145, 34770), (151, 34818), (154, 34839), (158, 34869), (159, 34875), (164, 34896), (184, 35013), (194, 35055), (205, 35139), (217, 35247), (228, 35355), (238, 35397), (240, 35406), (244, 35421), (248, 35457), (251, 35487), (253, 35496), (254, 35511), (256, 35541), (267, 35673), (270, 35697), (274, 35757), (281, 35808), (300, 35964), (306, 35997), (307, 36000), (308, 36003), (315, 36045), (317, 36060),

Gene: PermaG_52 Start: 35552, Stop: 37846, Start Num: 28

Candidate Starts for PermaG_52:

(8, 35420), (9, 35432), (15, 35459), (22, 35513), (Start: 28 @35552 has 86 MA's), (35, 35567), (Start: 51 @35666 has 2 MA's), (54, 35693), (78, 35915), (83, 35960), (99, 36074), (100, 36086), (103, 36116), (129, 36299), (135, 36353), (158, 36521), (160, 36530), (161, 36536), (164, 36548), (166, 36563), (168, 36581), (180, 36635), (181, 36659), (184, 36674), (194, 36731), (200, 36785), (203, 36809), (209, 36833), (216, 36905), (221, 36971), (227, 37022), (235, 37052), (238, 37067), (245, 37094), (248, 37121), (251, 37151), (258, 37253), (268, 37340), (269, 37355), (277, 37433), (279, 37457), (284, 37550), (302, 37688), (304, 37694), (305, 37697), (307, 37712), (316, 37766),

Gene: PinkFriday_45 Start: 32897, Stop: 34996, Start Num: 28

Candidate Starts for PinkFriday_45:

(7, 32762), (14, 32789), (Start: 28 @32897 has 86 MA's), (47, 32969), (49, 32996), (65, 33122), (67, 33149), (74, 33182), (121, 33431), (135, 33575), (137, 33587), (142, 33620), (149, 33659), (151, 33680), (154, 33701), (158, 33731), (159, 33737), (164, 33758), (166, 33773), (167, 33785), (184, 33875), (194, 33917), (197, 33941), (207, 34010), (228, 34217), (238, 34259), (240, 34268), (244, 34283), (246, 34298), (247, 34313), (248, 34319), (251, 34349), (253, 34358), (254, 34373), (274, 34619), (281, 34676), (286, 34742), (298, 34826), (302, 34844), (306, 34865), (312, 34898), (315, 34913), (317, 34928), (323, 34958), (324, 34970),

Gene: PitaDog_46 Start: 32770, Stop: 34869, Start Num: 28

Candidate Starts for PitaDog_46:

(Start: 28 @32770 has 86 MA's), (45, 32824), (47, 32842), (65, 32995), (67, 33022), (97, 33160), (98, 33163), (100, 33187), (101, 33196), (115, 33271), (121, 33304), (130, 33409), (135, 33448), (145, 33505), (151, 33553), (154, 33574), (158, 33604), (159, 33610), (164, 33631), (184, 33748), (196, 33799), (197, 33814), (206, 33877), (210, 33898), (228, 34090), (238, 34132), (240, 34141), (244, 34156), (247, 34186), (248, 34192), (251, 34222), (253, 34231), (254, 34246), (272, 34438), (274, 34492), (281, 34549), (295, 34681), (302, 34717), (306, 34738), (310, 34750), (317, 34801), (324, 34843),

Gene: Potatoes_47 Start: 33822, Stop: 35933, Start Num: 28

Candidate Starts for Potatoes_47:

(14, 33714), (Start: 24 @33795 has 4 MA's), (Start: 28 @33822 has 86 MA's), (47, 33906), (67, 34086), (74, 34119), (89, 34182), (92, 34200), (98, 34227), (100, 34251), (102, 34278), (114, 34326), (121, 34368), (132, 34488), (135, 34512), (145, 34569), (147, 34584), (149, 34596), (151, 34617), (154, 34638), (158, 34668), (159, 34674), (164, 34695), (184, 34812), (228, 35154), (238, 35196), (240, 35205), (244, 35220), (246, 35235), (247, 35250), (248, 35256), (251, 35286), (253, 35295), (254, 35310), (255, 35316), (270, 35496), (272, 35502), (274, 35556), (281, 35613), (298, 35763), (302, 35781), (306, 35802), (310, 35814), (315, 35850),

Gene: Preamble_47 Start: 32899, Stop: 35013, Start Num: 28

Candidate Starts for Preamble_47:

(7, 32764), (14, 32791), (Start: 28 @32899 has 86 MA's), (30, 32911), (42, 32959), (44, 32965), (47, 32986), (67, 33166), (74, 33199), (98, 33307), (100, 33331), (108, 33391), (114, 33406), (115, 33415), (121, 33448), (135, 33592), (149, 33676), (150, 33688), (151, 33697), (154, 33718), (158, 33748), (159, 33754), (164, 33775), (184, 33892), (194, 33934), (196, 33943), (210, 34042), (228, 34234), (240, 34285), (244, 34300), (248, 34336), (251, 34366), (253, 34375), (254, 34390), (270, 34576), (274, 34636), (281, 34693), (302, 34861), (306, 34882), (315, 34930), (317, 34945), (324, 34987),

Gene: Pterodactyl_45 Start: 32612, Stop: 34711, Start Num: 28

Candidate Starts for Pterodactyl_45:

(Start: 28 @32612 has 86 MA's), (45, 32666), (47, 32684), (57, 32759), (65, 32837), (67, 32864), (74, 32897), (98, 33005), (100, 33029), (101, 33038), (121, 33146), (135, 33290), (145, 33347), (151, 33395), (154, 33416), (158, 33446), (159, 33452), (164, 33473), (184, 33590), (196, 33641), (197, 33656), (210, 33740), (228, 33932), (238, 33974), (240, 33983), (244, 33998), (247, 34028), (248, 34034), (251, 34064), (253, 34073), (254, 34088), (272, 34280), (274, 34334), (281, 34391), (295, 34523), (302, 34559), (306, 34580), (310, 34592), (318, 34649), (324, 34685),

Gene: Pumancara_45 Start: 32810, Stop: 34909, Start Num: 28

Candidate Starts for Pumancara_45:

(7, 32675), (14, 32702), (Start: 28 @32810 has 86 MA's), (47, 32882), (49, 32909), (65, 33035), (67, 33062), (74, 33095), (94, 33185), (121, 33344), (135, 33488), (137, 33500), (142, 33533), (149, 33572), (151, 33593), (154, 33614), (158, 33644), (159, 33650), (164, 33671), (166, 33686), (167, 33698), (184, 33788), (194, 33830), (197, 33854), (207, 33923), (228, 34130), (238, 34172), (240, 34181), (244, 34196), (246, 34211), (247, 34226), (248, 34232), (251, 34262), (253, 34271), (254, 34286), (274, 34532), (281, 34589), (286, 34655), (298, 34739), (302, 34757), (306, 34778), (312, 34811), (315, 34826), (323, 34871), (324, 34883),

Gene: RAP15_48 Start: 33996, Stop: 36113, Start Num: 28

Candidate Starts for RAP15_48:

(7, 33861), (14, 33888), (Start: 24 @33969 has 4 MA's), (Start: 28 @33996 has 86 MA's), (47, 34080), (67, 34260), (74, 34293), (98, 34401), (100, 34425), (102, 34452), (114, 34500), (121, 34542), (135, 34686), (145, 34743), (147, 34758), (149, 34770), (151, 34791), (158, 34842), (159, 34848), (164, 34869), (184, 34986), (228, 35328), (238, 35370), (240, 35379), (244, 35394), (246, 35409), (247, 35424), (248, 35430), (251, 35460), (253, 35469), (254, 35484), (272, 35676), (274, 35730), (281, 35787), (302, 35955), (306, 35976), (315, 36024), (324, 36081),

Gene: Rasovi_54 Start: 36277, Stop: 38571, Start Num: 28

Candidate Starts for Rasovi_54:

(10, 36160), (12, 36166), (20, 36226), (23, 36247), (Start: 28 @36277 has 86 MA's), (35, 36292), (Start: 51 @36391 has 2 MA's), (54, 36418), (55, 36424), (83, 36685), (84, 36706), (98, 36787), (100, 36811), (103, 36841), (114, 36883), (115, 36892), (135, 37078), (158, 37246), (160, 37255), (161, 37261), (164, 37273), (166, 37288), (168, 37306), (184, 37399), (191, 37432), (194, 37456), (198, 37486), (199, 37507), (200, 37510), (203, 37534), (209, 37558), (216, 37630), (221, 37696), (227, 37747), (238, 37792), (245, 37819), (248, 37846), (251, 37876), (266, 38059), (268, 38065), (276, 38155), (277, 38158), (279, 38182), (283, 38239), (304, 38419), (305, 38422), (313, 38470), (316, 38491), (318, 38503),

Gene: RcigaStruga_47 Start: 34218, Stop: 36323, Start Num: 27

Candidate Starts for RcigaStruga_47:

(11, 34104), (14, 34110), (Start: 27 @34218 has 11 MA's), (29, 34227), (47, 34296), (48, 34302), (Start: 51 @34329 has 2 MA's), (57, 34371), (63, 34440), (67, 34476), (74, 34509), (100, 34641), (114, 34716), (121, 34758), (127, 34815), (135, 34902), (145, 34959), (149, 34986), (151, 35007), (154, 35028), (158, 35058), (159, 35064), (164, 35085), (184, 35202), (194, 35244), (197, 35268), (200,

35298), (215, 35409), (228, 35544), (238, 35586), (240, 35595), (244, 35610), (246, 35625), (247, 35640), (248, 35646), (251, 35676), (253, 35685), (254, 35700), (267, 35862), (274, 35946), (281, 36003), (286, 36069), (288, 36081), (298, 36153), (306, 36192), (307, 36195), (308, 36198), (318, 36261), (324, 36297),

Gene: Riovina_45 Start: 33793, Stop: 35892, Start Num: 28

Candidate Starts for Riovina_45:

(Start: 28 @33793 has 86 MA's), (36, 33808), (47, 33865), (49, 33892), (67, 34045), (74, 34078), (94, 34168), (98, 34186), (99, 34198), (102, 34237), (121, 34327), (135, 34471), (142, 34516), (143, 34522), (146, 34537), (151, 34576), (154, 34597), (158, 34627), (159, 34633), (162, 34645), (164, 34654), (166, 34669), (167, 34681), (184, 34771), (194, 34813), (197, 34837), (213, 34957), (217, 35005), (228, 35113), (238, 35155), (240, 35164), (244, 35179), (248, 35215), (251, 35245), (253, 35254), (254, 35269), (268, 35434), (272, 35461), (274, 35515), (281, 35572), (286, 35638), (302, 35740), (306, 35761), (315, 35809), (317, 35824), (318, 35830), (324, 35866),

Gene: Riverdale_48 Start: 33961, Stop: 36072, Start Num: 28

Candidate Starts for Riverdale_48:

(7, 33826), (14, 33853), (Start: 24 @33934 has 4 MA's), (Start: 28 @33961 has 86 MA's), (47, 34045), (48, 34051), (67, 34225), (74, 34258), (92, 34339), (98, 34366), (100, 34390), (102, 34417), (114, 34465), (121, 34507), (135, 34651), (145, 34708), (147, 34723), (149, 34735), (151, 34756), (158, 34807), (159, 34813), (164, 34834), (184, 34951), (210, 35101), (228, 35293), (238, 35335), (240, 35344), (244, 35359), (246, 35374), (247, 35389), (248, 35395), (251, 35425), (253, 35434), (254, 35449), (270, 35635), (272, 35641), (274, 35695), (281, 35752), (302, 35920), (306, 35941), (315, 35989),

Gene: Rozby_47 Start: 33751, Stop: 35862, Start Num: 28

Candidate Starts for Rozby_47:

(7, 33616), (14, 33643), (Start: 24 @33724 has 4 MA's), (Start: 28 @33751 has 86 MA's), (47, 33835), (48, 33841), (67, 34015), (74, 34048), (98, 34156), (100, 34180), (102, 34207), (114, 34255), (121, 34297), (135, 34441), (145, 34498), (147, 34513), (149, 34525), (151, 34546), (154, 34567), (158, 34597), (159, 34603), (164, 34624), (184, 34741), (210, 34891), (228, 35083), (238, 35125), (240, 35134), (244, 35149), (246, 35164), (247, 35179), (248, 35185), (251, 35215), (253, 35224), (254, 35239), (270, 35425), (272, 35431), (274, 35485), (281, 35542), (298, 35692), (302, 35710), (306, 35731), (310, 35743), (315, 35779),

Gene: SBlackberry_49 Start: 35349, Stop: 37646, Start Num: 28

Candidate Starts for SBlackberry_49:

(Start: 28 @35349 has 86 MA's), (Start: 51 @35466 has 2 MA's), (53, 35484), (54, 35493), (58, 35511), (59, 35544), (83, 35760), (84, 35781), (99, 35874), (100, 35886), (103, 35916), (114, 35958), (129, 36099), (131, 36123), (135, 36153), (158, 36321), (160, 36330), (161, 36336), (166, 36363), (168, 36381), (180, 36435), (182, 36462), (184, 36474), (191, 36507), (194, 36531), (198, 36561), (200, 36585), (202, 36600), (203, 36609), (207, 36624), (216, 36705), (221, 36771), (238, 36867), (245, 36894), (248, 36921), (251, 36951), (258, 37053), (268, 37140), (269, 37155), (277, 37233), (299, 37473), (302, 37488), (304, 37494), (305, 37497), (316, 37566),

Gene: Sapo_38 Start: 34342, Stop: 36285, Start Num: 51

Candidate Starts for Sapo_38:

(Start: 51 @34342 has 2 MA's), (67, 34486), (75, 34519), (87, 34588), (101, 34669), (103, 34690), (118, 34759), (126, 34813), (135, 34900), (137, 34912), (138, 34915), (139, 34930), (159, 35029), (164, 35050), (170, 35089), (217, 35380), (218, 35392), (223, 35461), (226, 35476), (231, 35500), (232, 35506), (235, 35524), (238, 35539), (248, 35602), (251, 35632), (257, 35695), (258, 35734), (260, 35776), (264, 35794), (271, 35845), (280, 35929), (292, 36058), (293, 36061), (305, 36121), (307, 36136), (317, 36196), (318, 36202),

Gene: Savage2526_48 Start: 33989, Stop: 36100, Start Num: 28

Candidate Starts for Savage2526_48:

(7, 33854), (14, 33881), (Start: 24 @33962 has 4 MA's), (Start: 28 @33989 has 86 MA's), (47, 34073), (59, 34175), (67, 34253), (98, 34394), (100, 34418), (102, 34445), (114, 34493), (121, 34535), (135, 34679), (145, 34736), (147, 34751), (149, 34763), (151, 34784), (154, 34805), (158, 34835), (159, 34841), (164, 34862), (173, 34913), (184, 34979), (205, 35105), (210, 35129), (228, 35321), (238, 35363), (240, 35372), (244, 35387), (246, 35402), (247, 35417), (248, 35423), (251, 35453), (253, 35462), (254, 35477), (272, 35669), (274, 35723), (281, 35780), (302, 35948), (306, 35969), (315, 36017),

Gene: Scuttle_47 Start: 33950, Stop: 36061, Start Num: 28

Candidate Starts for Scuttle_47:

(7, 33815), (14, 33842), (Start: 24 @33923 has 4 MA's), (Start: 28 @33950 has 86 MA's), (47, 34034), (48, 34040), (67, 34214), (74, 34247), (92, 34328), (98, 34355), (100, 34379), (102, 34406), (114, 34454), (121, 34496), (135, 34640), (145, 34697), (147, 34712), (149, 34724), (151, 34745), (154, 34766), (158, 34796), (159, 34802), (164, 34823), (184, 34940), (210, 35090), (228, 35282), (238, 35324), (240, 35333), (244, 35348), (246, 35363), (247, 35378), (248, 35384), (251, 35414), (253, 35423), (254, 35438), (270, 35624), (272, 35630), (274, 35684), (281, 35741), (298, 35891), (302, 35909), (306, 35930), (310, 35942), (315, 35978),

Gene: Sergei_45 Start: 33788, Stop: 35887, Start Num: 28

Candidate Starts for Sergei_45:

(Start: 28 @33788 has 86 MA's), (47, 33860), (49, 33887), (65, 34013), (67, 34040), (74, 34073), (121, 34322), (135, 34466), (137, 34478), (142, 34511), (151, 34571), (154, 34592), (158, 34622), (159, 34628), (164, 34649), (166, 34664), (167, 34676), (169, 34688), (184, 34766), (194, 34808), (197, 34832), (207, 34901), (228, 35108), (235, 35135), (238, 35150), (240, 35159), (244, 35174), (248, 35210), (251, 35240), (253, 35249), (254, 35264), (270, 35450), (274, 35510), (281, 35567), (286, 35633), (302, 35735), (306, 35756), (312, 35789), (317, 35819), (323, 35849), (324, 35861),

Gene: Spocter_55 Start: 42564, Stop: 44954, Start Num: 24

Candidate Starts for Spocter_55:

(Start: 24 @42564 has 4 MA's), (48, 42696), (55, 42765), (71, 42966), (81, 43020), (82, 43023), (88, 43065), (90, 43074), (106, 43185), (109, 43212), (110, 43215), (120, 43275), (122, 43281), (153, 43563), (155, 43590), (157, 43605), (176, 43704), (185, 43770), (188, 43788), (211, 43950), (226, 44154), (229, 44175), (232, 44184), (235, 44211), (248, 44298), (249, 44307), (254, 44352), (255, 44358), (260, 44472), (265, 44493), (266, 44511), (268, 44517), (274, 44598), (278, 44619), (281, 44643), (289, 44733), (290, 44745), (292, 44766), (297, 44790), (299, 44805), (310, 44853), (316, 44895), (319, 44907), (320, 44910),

Gene: Stuff_60 Start: 43554, Stop: 45566, Start Num: 56

Candidate Starts for Stuff_60:

(Start: 56 @43554 has 11 MA's), (60, 43605), (75, 43737), (92, 43842), (100, 43881), (102, 43908), (103, 43911), (112, 43956), (115, 43974), (126, 44064), (128, 44082), (130, 44118), (133, 44136), (135, 44160), (136, 44169), (138, 44175), (140, 44193), (141, 44202), (146, 44226), (158, 44286), (160, 44295), (164, 44313), (166, 44328), (168, 44346), (174, 44367), (179, 44391), (192, 44472), (214, 44637), (220, 44733), (222, 44775), (232, 44820), (251, 44946), (259, 45027), (262, 45072), (263, 45081), (273, 45177), (280, 45219), (286, 45300), (294, 45372), (296, 45378), (303, 45420), (312, 45471), (314, 45477), (317, 45501), (321, 45519), (324, 45543),

Gene: Sucha_50 Start: 34417, Stop: 36708, Start Num: 28

Candidate Starts for Sucha_50:

(19, 34366), (23, 34387), (Start: 28 @34417 has 86 MA's), (54, 34555), (55, 34561), (64, 34666), (69, 34711), (94, 34900), (99, 34930), (100, 34942), (103, 34972), (122, 35065), (129, 35161), (135, 35215), (158, 35383), (160, 35392), (161, 35398), (164, 35410), (175, 35473), (180, 35497), (184, 35536), (199, 35644), (200, 35647), (202, 35662), (203, 35671), (209, 35695), (221, 35833), (238, 35929), (245, 35956), (248, 35983), (251, 36013), (257, 36076), (258, 36115), (277, 36295), (302, 36550), (304, 36556), (305, 36559), (316, 36628), (325, 36682),

Gene: Supakev_45 Start: 33793, Stop: 35892, Start Num: 28

Candidate Starts for Supakev_45:

(7, 33655), (14, 33682), (Start: 28 @33793 has 86 MA's), (36, 33808), (47, 33865), (49, 33892), (67, 34045), (74, 34078), (91, 34147), (94, 34168), (98, 34186), (99, 34198), (102, 34237), (121, 34327), (134, 34468), (135, 34471), (142, 34516), (143, 34522), (146, 34537), (151, 34576), (154, 34597), (158, 34627), (159, 34633), (164, 34654), (166, 34669), (167, 34681), (184, 34771), (194, 34813), (197, 34837), (213, 34957), (217, 35005), (228, 35113), (238, 35155), (240, 35164), (244, 35179), (248, 35215), (251, 35245), (253, 35254), (254, 35269), (267, 35431), (268, 35434), (272, 35461), (274, 35515), (281, 35572), (286, 35638), (302, 35740), (306, 35761), (315, 35809), (317, 35824), (318, 35830), (322, 35848), (324, 35866),

Gene: Suppi_47 Start: 33856, Stop: 35955, Start Num: 28

Candidate Starts for Suppi_47:

(6, 33709), (7, 33721), (14, 33748), (Start: 28 @33856 has 86 MA's), (33, 33865), (45, 33910), (47, 33928), (67, 34108), (100, 34273), (101, 34282), (121, 34390), (130, 34495), (135, 34534), (137, 34546), (143, 34585), (145, 34591), (151, 34639), (154, 34660), (158, 34690), (159, 34696), (164, 34717), (184, 34834), (194, 34876), (205, 34960), (217, 35068), (228, 35176), (238, 35218), (240, 35227), (244, 35242), (248, 35278), (251, 35308), (253, 35317), (254, 35332), (267, 35494), (274, 35578), (281, 35629), (300, 35785), (306, 35818), (307, 35821), (309, 35827), (315, 35866), (317, 35881),

Gene: TattModd_46 Start: 33610, Stop: 35721, Start Num: 28

Candidate Starts for TattModd_46:

(7, 33475), (14, 33502), (Start: 24 @33583 has 4 MA's), (Start: 28 @33610 has 86 MA's), (47, 33694), (59, 33796), (67, 33874), (74, 33907), (92, 33988), (98, 34015), (100, 34039), (102, 34066), (114, 34114), (121, 34156), (135, 34300), (145, 34357), (147, 34372), (149, 34384), (151, 34405), (154, 34426), (158, 34456), (159, 34462), (164, 34483), (184, 34600), (210, 34750), (228, 34942), (238, 34984), (240, 34993), (244, 35008), (246, 35023), (247, 35038), (248, 35044), (251, 35074), (253, 35083), (254, 35098), (270, 35284), (272, 35290), (274, 35344), (281, 35401), (302, 35569), (306, 35590), (315, 35638),

Gene: Temper16_45 Start: 33788, Stop: 35887, Start Num: 28

Candidate Starts for Temper16_45:

(Start: 28 @33788 has 86 MA's), (47, 33860), (49, 33887), (65, 34013), (67, 34040), (74, 34073), (121, 34322), (135, 34466), (137, 34478), (142, 34511), (151, 34571), (154, 34592), (158, 34622), (159, 34628), (164, 34649), (166, 34664), (167, 34676), (169, 34688), (184, 34766), (194, 34808), (197, 34832), (207, 34901), (228, 35108), (235, 35135), (238, 35150), (240, 35159), (244, 35174), (248, 35210), (251, 35240), (253, 35249), (254, 35264), (270, 35450), (274, 35510), (281, 35567), (286, 35633), (302, 35735), (306, 35756), (312, 35789), (317, 35819), (323, 35849), (324, 35861),

Gene: Theresita_51 Start: 34320, Stop: 36620, Start Num: 28

Candidate Starts for Theresita_51:

(Start: 28 @34320 has 86 MA's), (41, 34359), (59, 34503), (70, 34632), (76, 34668), (85, 34746), (98, 34824), (100, 34848), (102, 34875), (103, 34878), (105, 34890), (135, 35118), (137, 35130), (158, 35289), (160, 35298), (161, 35304), (164, 35316), (171, 35361), (182, 35427), (184, 35439), (194, 35505), (203, 35583), (211, 35619), (216, 35679), (238, 35844), (245, 35871), (248, 35898), (250,

35910), (251, 35928), (253, 35937), (257, 35991), (258, 36030), (266, 36111), (271, 36141), (275, 36204), (276, 36207), (277, 36210), (304, 36468), (305, 36471), (313, 36519), (316, 36540),

Gene: TurboVicky_51 Start: 35567, Stop: 37864, Start Num: 28

Candidate Starts for TurboVicky_51:

(3, 35348), (4, 35357), (8, 35435), (20, 35516), (23, 35537), (Start: 28 @35567 has 86 MA's), (Start: 51 @35684 has 2 MA's), (53, 35702), (54, 35711), (58, 35729), (59, 35762), (83, 35978), (84, 35999), (99, 36092), (100, 36104), (103, 36134), (114, 36176), (129, 36317), (131, 36341), (135, 36371), (158, 36539), (160, 36548), (161, 36554), (164, 36566), (168, 36599), (180, 36653), (182, 36680), (184, 36692), (191, 36725), (194, 36749), (198, 36779), (200, 36803), (202, 36818), (203, 36827), (207, 36842), (216, 36923), (221, 36989), (238, 37085), (245, 37112), (248, 37139), (251, 37169), (258, 37271), (268, 37358), (269, 37373), (277, 37451), (302, 37706), (304, 37712), (305, 37715), (316, 37784),

Gene: Typher_51 Start: 35125, Stop: 37422, Start Num: 28

Candidate Starts for Typher_51:

(Start: 28 @35125 has 86 MA's), (Start: 51 @35242 has 2 MA's), (53, 35260), (54, 35269), (58, 35287), (59, 35320), (83, 35536), (84, 35557), (99, 35650), (100, 35662), (103, 35692), (114, 35734), (129, 35875), (131, 35899), (135, 35929), (158, 36097), (160, 36106), (161, 36112), (166, 36139), (168, 36157), (180, 36211), (182, 36238), (184, 36250), (194, 36307), (198, 36337), (200, 36361), (202, 36376), (203, 36385), (207, 36400), (216, 36481), (221, 36547), (238, 36643), (245, 36670), (248, 36697), (251, 36727), (258, 36829), (268, 36916), (269, 36931), (277, 37009), (299, 37249), (302, 37264), (304, 37270), (305, 37273), (307, 37288), (316, 37342),

Gene: UNTPL_62 Start: 43585, Stop: 45597, Start Num: 56

Candidate Starts for UNTPL_62:

(Start: 56 @43585 has 11 MA's), (60, 43636), (66, 43702), (68, 43726), (75, 43768), (92, 43873), (100, 43912), (102, 43939), (103, 43942), (112, 43987), (115, 44005), (126, 44095), (128, 44113), (135, 44191), (136, 44200), (138, 44206), (140, 44224), (141, 44233), (146, 44257), (158, 44317), (160, 44326), (164, 44344), (166, 44359), (168, 44377), (174, 44398), (179, 44422), (192, 44503), (214, 44668), (220, 44764), (222, 44806), (232, 44851), (251, 44977), (259, 45058), (262, 45103), (263, 45112), (273, 45208), (280, 45250), (286, 45331), (294, 45403), (296, 45409), (303, 45451), (312, 45502), (314, 45508), (321, 45550), (324, 45574),

Gene: Urla_46 Start: 33785, Stop: 35893, Start Num: 28

Candidate Starts for Urla_46:

(11, 33668), (14, 33674), (Start: 28 @33785 has 86 MA's), (47, 33866), (48, 33872), (67, 34046), (98, 34187), (100, 34211), (102, 34238), (114, 34286), (121, 34328), (135, 34472), (151, 34577), (154, 34598), (158, 34628), (159, 34634), (164, 34655), (167, 34682), (173, 34706), (184, 34772), (194, 34814), (197, 34838), (228, 35114), (238, 35156), (239, 35162), (240, 35165), (244, 35180), (246, 35195), (247, 35210), (248, 35216), (251, 35246), (253, 35255), (254, 35270), (272, 35462), (274, 35516), (281, 35573), (288, 35651), (306, 35762), (315, 35810), (317, 35825),

Gene: Vallejo_48 Start: 33964, Stop: 36075, Start Num: 28

Candidate Starts for Vallejo_48:

(7, 33829), (14, 33856), (Start: 24 @33937 has 4 MA's), (Start: 28 @33964 has 86 MA's), (47, 34048), (59, 34150), (67, 34228), (98, 34369), (100, 34393), (102, 34420), (114, 34468), (121, 34510), (135, 34654), (145, 34711), (147, 34726), (149, 34738), (151, 34759), (154, 34780), (158, 34810), (159, 34816), (164, 34837), (173, 34888), (184, 34954), (205, 35080), (210, 35104), (228, 35296), (238, 35338), (240, 35347), (244, 35362), (246, 35377), (247, 35392), (248, 35398), (251, 35428), (253, 35437), (254, 35452), (272, 35644), (274, 35698), (281, 35755), (302, 35923), (306, 35944), (315, 35992),

Gene: Vulture_45 Start: 33721, Stop: 35820, Start Num: 28

Candidate Starts for Vulture_45:

(Start: 28 @33721 has 86 MA's), (36, 33736), (47, 33793), (49, 33820), (67, 33973), (74, 34006), (94, 34096), (98, 34114), (99, 34126), (102, 34165), (121, 34255), (135, 34399), (142, 34444), (143, 34450), (146, 34465), (151, 34504), (154, 34525), (158, 34555), (159, 34561), (164, 34582), (166, 34597), (167, 34609), (184, 34699), (194, 34741), (197, 34765), (213, 34885), (217, 34933), (228, 35041), (238, 35083), (240, 35092), (244, 35107), (248, 35143), (251, 35173), (253, 35182), (254, 35197), (268, 35362), (271, 35386), (272, 35389), (274, 35443), (281, 35500), (286, 35566), (302, 35668), (306, 35689), (315, 35737), (317, 35752), (318, 35758), (322, 35776), (324, 35794),

Gene: Wawa_47 Start: 33797, Stop: 35914, Start Num: 28

Candidate Starts for Wawa_47:

(7, 33662), (14, 33689), (Start: 24 @33770 has 4 MA's), (Start: 28 @33797 has 86 MA's), (47, 33881), (59, 33983), (67, 34061), (98, 34202), (100, 34226), (102, 34253), (114, 34301), (121, 34343), (135, 34487), (145, 34544), (147, 34559), (149, 34571), (151, 34592), (154, 34613), (158, 34643), (159, 34649), (164, 34670), (173, 34721), (184, 34787), (205, 34913), (210, 34937), (228, 35129), (238, 35171), (240, 35180), (244, 35195), (246, 35210), (247, 35225), (248, 35231), (251, 35261), (253, 35270), (254, 35285), (270, 35471), (272, 35477), (274, 35531), (281, 35588), (298, 35738), (302, 35756), (306, 35777), (315, 35825),

Gene: Wayne_47 Start: 33902, Stop: 35995, Start Num: 28

Candidate Starts for Wayne_47:

(6, 33755), (7, 33767), (14, 33794), (Start: 28 @33902 has 86 MA's), (33, 33911), (45, 33956), (47, 33974), (67, 34154), (100, 34319), (101, 34328), (121, 34436), (130, 34541), (135, 34580), (137, 34592), (143, 34631), (145, 34637), (151, 34685), (154, 34706), (158, 34736), (159, 34742), (164, 34763), (184, 34880), (194, 34922), (205, 35006), (217, 35114), (228, 35222), (238, 35264), (240, 35273), (244, 35288), (248, 35324), (251, 35354), (253, 35363), (254, 35378), (267, 35540), (274, 35624), (281, 35675), (300, 35831), (306, 35864), (307, 35867), (309, 35873), (315, 35912), (317, 35927),

Gene: WonderBoy_44 Start: 32596, Stop: 34695, Start Num: 28

Candidate Starts for WonderBoy_44:

(7, 32461), (14, 32488), (Start: 28 @32596 has 86 MA's), (45, 32650), (47, 32668), (48, 32674), (57, 32743), (63, 32812), (67, 32848), (98, 32989), (100, 33013), (121, 33130), (135, 33274), (145, 33331), (151, 33379), (154, 33400), (158, 33430), (159, 33436), (164, 33457), (184, 33574), (197, 33640), (205, 33700), (210, 33724), (228, 33916), (238, 33958), (240, 33967), (244, 33982), (247, 34012), (248, 34018), (251, 34048), (253, 34057), (254, 34072), (272, 34264), (274, 34318), (281, 34375), (288, 34453), (302, 34543), (306, 34564), (312, 34597), (315, 34612), (317, 34627), (324, 34669),

Gene: Zanella_50 Start: 35370, Stop: 37667, Start Num: 28

Candidate Starts for Zanella_50:

(16, 35277), (18, 35313), (22, 35331), (Start: 28 @35370 has 86 MA's), (53, 35505), (54, 35514), (58, 35532), (83, 35781), (84, 35802), (98, 35883), (99, 35895), (100, 35907), (103, 35937), (114, 35979), (129, 36120), (131, 36144), (135, 36174), (158, 36342), (160, 36351), (161, 36357), (164, 36369), (168, 36402), (180, 36456), (182, 36483), (184, 36495), (191, 36528), (194, 36552), (198, 36582), (200, 36606), (202, 36621), (203, 36630), (207, 36645), (216, 36726), (221, 36792), (238, 36888), (245, 36915), (248, 36942), (251, 36972), (258, 37074), (268, 37161), (269, 37176), (277, 37254), (302, 37509), (304, 37515), (305, 37518), (316, 37587),

Gene: Zorro_48 Start: 33923, Stop: 36034, Start Num: 28

Candidate Starts for Zorro_48:

(7, 33788), (14, 33815), (Start: 24 @33896 has 4 MA's), (Start: 28 @33923 has 86 MA's), (47, 34007), (59, 34109), (67, 34187), (98, 34328), (100, 34352), (102, 34379), (114, 34427), (121, 34469), (135,

34613), (145, 34670), (147, 34685), (149, 34697), (151, 34718), (154, 34739), (158, 34769), (159, 34775), (164, 34796), (173, 34847), (183, 34907), (184, 34913), (205, 35039), (210, 35063), (228, 35255), (235, 35282), (238, 35297), (240, 35306), (244, 35321), (246, 35336), (247, 35351), (248, 35357), (251, 35387), (253, 35396), (254, 35411), (272, 35603), (274, 35657), (281, 35714), (302, 35882), (306, 35903), (315, 35951),