

Zoomed Pham 271516

[illegible]

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	11	239	58	106	119	124	136	144	147	150	159	166	185	190	194	202	213	235	254	257	263	304	310	316	323	384	388	393	395	397
51. Ailee_31	1	239	58	106	119	124	136	144	147	150	159	166	185	190	194	202	213	235	254	257	263	304	310	316	323	384	388	393	395	397
52. Bidwil_32	1	239	58	106	119	124	136	144	147	150	159	166	185	190	194	202	213	235	254	257	263	304	310	316	323	384	388	393	395	397
53. Tychon_32	1	239	58	106	119	124	136	144	147	150	159	166	185	190	194	202	213	235	254	257	263	304	310	316	323	384	388	393	395	397
54. Viviz_35	1	239	58	106	119	124	136	144	147	150	159	166	185	190	194	202	213	235	254	257	263	304	310	316	323	384	388	393	395	397
55. Leonard_31	1	239	58	106	119	124	136	144	147	150	159	166	185	190	194	202	213	235	254	257	263	304	310	316	323	384	388	393	395	397
56. Inspectmech_32	1	239	58	106	119	124	136	144	147	150	159	166	185	190	194	202	213	235	254	257	263	304	310	316	323	384	388	393	395	397
57. EMOORE_29	1	239	58	106	119	124	136	144	147	150	159	166	185	190	194	202	213	235	254	257	263	304	310	316	323	384	388	393	395	397
58. Hans_33	1	239	58	106	119	124	136	144	147	150	159	166	185	190	194	202	213	235	254	257	263	304	310	316	323	384	388	393	395	397
59. All7_29	1	239	58	106	119	124	136	144	147	150	159	166	185	190	194	202	213	235	254	257	263	304	310	316	323	384	388	393	395	397
60. MelBins_32	1	239	58	106	119	124	136	144	147	150	159	166	185	190	194	202	213	235	254	257	263	304	310	316	323	384	388	393	395	397
61. Beipnegor_31	1	239	58	106	119	124	136	144	147	150	159	166	185	190	194	202	213	235	254	257	263	304	310	316	323	384	388	393	395	397
62. Kwekei_30	1	239	58	106	119	124	136	144	147	150	159	166	185	190	194	202	213	235	254	257	263	304	310	316	323	384	388	393	395	397
63. Iwonio_28	1	239	58	106	119	124	136	144	147	150	159	166	185	190	194	202	213	235	254	257	263	304	310	316	323	384	388	393	395	397
64. GTE6_30	1	239	58	106	119	124	136	144	147	150	159	166	185	190	194	202	213	235	254	257	263	304	310	316	323	384	388	393	395	397
65. Roadkill_28	1	239	58	106	119	124	136	144	147	150	159	166	185	190	194	202	213	235	254	257	263	304	310	316	323	384	388	393	395	397
66. Dexderf_31	1	239	58	106	119	124	136	144	147	150	159	166	185	190	194	202	213	235	254	257	263	304	310	316	323	384	388	393	395	397
67. EdmundFerry_29	1	239	58	106	119	124	136	144	147	150	159	166	185	190	194	202	213	235	254	257	263	304	310	316	323	384	388	393	395	397
68. Scioto_33	1	239	58	106	119	124	136	144	147	150	159	166	185	190	194	202	213	235	254	257	263	304	310	316	323	384	388	393	395	397
69. DoctorFrogg_32	1	239	58	106	119	124	136	144	147	150	159	166	185	190	194	202	213	235	254	257	263	304	310	316	323	384	388	393	395	397
70. ViaConnectus_33	1	239	58	106	119	124	136	144	147	150	159	166	185	190	194	202	213	235	254	257	263	304	310	316	323	384	388	393	395	397
71. Zipp_32	1	239	58	106	119	124	136	144	147	150	159	166	185	190	194	202	213	235	254	257	263	304	310	316	323	384	388	393	395	397
72. Pumpkiney_34	1	239	58	106	119	124	136	144	147	150	159	166	185	190	194	202	213	235	254	257	263	304	310	316	323	384	388	393	395	397
73. Tardus_34	1	239	58	106	119	124	136	144	147	150	159	166	185	190	194	202	213	235	254	257	263	304	310	316	323	384	388	393	395	397
74. Zitch_34	1	239	58	106	119	124	136	144	147	150	159	166	185	190	194	202	213	235	254	257	263	304	310	316	323	384	388	393	395	397
75. BigHunkEve_13	1	239	58	106	119	124	136	144	147	150	159	166	185	190	194	202	213	235	254	257	263	304	310	316	323	384	388	393	395	397
76. Lilbeanie_28	1	239	58	106	119	124	136	144	147	150	159	166	185	190	194	202	213	235	254	257	263	304	310	316	323	384	388	393	395	397

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 271516 Report

This analysis was run 02/07/26 on database version 634.

Pham number 271516 has 120 members, 10 are drafts.

Phages represented in each track:

- Track 1 : VanDeWege_32
- Track 2 : Togo_29, Portcullis_29, SmokingBunny_29, Shinji_29
- Track 3 : Savbucketdawg_29, Jambalaya_29, PinkCoffee_31, CoveyB_31
- Track 4 : Halo3_30, ClamChowder_31, Gezellig_29, PullumCavea_29, KimmyK_31, Fugax_31, Barb_31, Salvador_29, Phlop_29, Evamon_29, Wizard_29, Twister6_31, Arri_32, Danyall_31
- Track 5 : TillyBobJoe_29
- Track 6 : YungMoney_31
- Track 7 : Egi03_29
- Track 8 : Mutzi_31
- Track 9 : Fireball_30
- Track 10 : RogerDodger_32
- Track 11 : Nubi_29
- Track 12 : Valary_32, CherryCola_33
- Track 13 : Bakery_30
- Track 14 : Clown_33
- Track 15 : Nordenberg_27
- Track 16 : ChadMasterC_33
- Track 17 : LilHam_30, SchottB_31, Ashertheman_33, Baumdotcom_32
- Track 18 : Bizzy_33
- Track 19 : Brandonk123_34
- Track 20 : Barsten_33
- Track 21 : Shivanishola_34
- Track 22 : Lennon_33, Sitar_33
- Track 23 : Geodirt_30
- Track 24 : McCrothy_33, Love_36
- Track 25 : RiverRaider_33
- Track 26 : Gaea_32
- Track 27 : McKinley_35
- Track 28 : BobBob_30, Tangent_33
- Track 29 : Kewpiedoll_32
- Track 30 : Fosterous_31
- Track 31 : Fitzgerald_31
- Track 32 : FuegoCuervo_35
- Track 33 : Ribeye_33, Derg_28, Baddon_32
- Track 34 : YorkOnyx_33
- Track 35 : Saronaya_32, Gustavo_32

- Track 36 : Sedona_33, Keitabear_33
- Track 37 : Galadriel_33
- Track 38 : Charming_33
- Track 39 : StorminNorm_32
- Track 40 : Flatwoods_33
- Track 41 : Tangerine_32
- Track 42 : Kamashten_32, Thing3_32
- Track 43 : Affeca_31, Angelicage_31
- Track 44 : Rofo_33, Paries_35
- Track 45 : JKSyngboy_30
- Track 46 : Jabberwocky_31, Sanjuju_31
- Track 47 : Kroos_33
- Track 48 : Kwobi_34
- Track 49 : Stultus_31
- Track 50 : MoontowerMania_32
- Track 51 : Ailee_31
- Track 52 : Bibwit_32
- Track 53 : Tycho_32
- Track 54 : Vivi2_35
- Track 55 : Leonard_31, Phinally_31
- Track 56 : Inspectinfecti_32
- Track 57 : EMOore_29
- Track 58 : Hans_33, Phauci_24
- Track 59 : Ali17_29
- Track 60 : MelBins_32
- Track 61 : Belphegor_31
- Track 62 : Kwekel_30
- Track 63 : Twonlo_28, Chickadee_30, Tiamoceli_31
- Track 64 : GTE6_30
- Track 65 : RoadKill_28
- Track 66 : Dextert_31
- Track 67 : EdmundFerry_29
- Track 68 : Scioto_33, Natkenzie_33, Abblin_33, Sampson_33
- Track 69 : DoctorFroggo_32, Verity_32, Delrey21_32
- Track 70 : ViaConlectus_33, APunk_34
- Track 71 : Zipp_32
- Track 72 : Pumpkiney_34
- Track 73 : Tardus_34
- Track 74 : Zitch_34
- Track 75 : BigHunkinEater_35
- Track 76 : Lilbeanie_28

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

The start number called the most often in the published annotations is 11, it was called in 69 of the 110 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

• APunk_34, Abblin_33, Affeca_31, Ailee_31, Angelicage_31, Ashertheman_33, Baddon_32, Barsten_33, Baumdotcom_32, Bibwit_32, BigHunkinEater_35, Bizzy_33,

BobBob_30, Brandonk123_34, ChadMasterC_33, Charming_33, Chickadee_30, Delrey21_32, Derg_28, Dexdert_31, DoctorFroggo_32, EdmundFerry_29, Fitzgerald_31, Flatwoods_33, Fosterous_31, FuegoCuervo_35, GTE6_30, Gaea_32, Galadriel_33, Geodirt_30, Gustavo_32, JKSyngboy_30, Jabberwocky_31, Kamashten_32, Keitabear_33, Kewpiedoll_32, Kroos_33, Kwekel_30, Kwobi_34, Lennon_33, LilHam_30, Lilbeanie_28, Love_36, McCrothy_33, McKinley_35, MoontowerMania_32, Natkenzie_33, Nordenberg_27, Paries_35, Pumpkiney_34, Ribeye_33, RiverRaider_33, RoadKill_28, Rofo_33, Sampson_33, Sanjuju_31, Saronaya_32, SchottB_31, Scioto_33, Sedona_33, Shivanishola_34, Sitar_33, StorminNorm_32, Stultus_31, Tangent_33, Tangerine_32, Tardus_34, Thing3_32, Tiamoceli_31, Twonlo_28, Tycho_32, Verity_32, ViaConlectus_33, Vivi2_35, YorkOnyx_33, Zipp_32, Zitch_34,

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:

- Ali17_29, Arri_32, Bakery_30, Barb_31, Belphegor_31, CherryCola_33, ClamChowder_31, Clown_33, CoveyB_31, Danyall_31, EMOore_29, Egi03_29, Evamon_29, Fireball_30, Fugax_31, Gezellig_29, Halo3_30, Hans_33, Inspectinfecti_32, Jambalaya_29, KimmyK_31, Leonard_31, MelBins_32, Mutzi_31, Nubi_29, Phauci_24, Phinally_31, Phlop_29, PinkCoffee_31, Portcullis_29, PullumCavea_29, RogerDodger_32, Salvador_29, Savbucketdawg_29, Shinji_29, SmokingBunny_29, TillyBobJoe_29, Togo_29, Twister6_31, Valary_32, VanDeWege_32, Wizard_29, YungMoney_31,

Summary by start number:

Start 1:

- Found in 34 of 120 (28.3%) of genes in pham
- Manual Annotations of this start: 32 of 110
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Arri_32 (DC1), Bakery_30 (DC1), Barb_31 (DC1), CherryCola_33 (DC1), ClamChowder_31 (DC1), Clown_33 (DC2), CoveyB_31 (DC1), Danyall_31 (DC1), Egi03_29 (DC1), Evamon_29 (DC1), Fireball_30 (DC1), Fugax_31 (DC1), Gezellig_29 (DC1), Halo3_30 (DC1), Jambalaya_29 (DC1), KimmyK_31 (DC1), Mutzi_31 (DC1), Nubi_29 (DC1), Phlop_29 (DC1), PinkCoffee_31 (DC1), Portcullis_29 (DC1), PullumCavea_29 (DC1), RogerDodger_32 (DC1), Salvador_29 (DC1), Savbucketdawg_29 (DC1), Shinji_29 (DC1), SmokingBunny_29 (DC1), TillyBobJoe_29 (DC1), Togo_29 (DC1), Twister6_31 (DC1), Valary_32 (DC1), VanDeWege_32 (DC1), Wizard_29 (DC1), YungMoney_31 (DC1),

Start 11:

- Found in 77 of 120 (64.2%) of genes in pham
- Manual Annotations of this start: 69 of 110
- Called 100.0% of time when present
- Phage (with cluster) where this start called: APunk_34 (DE4), Abblin_33 (DE4), Affeca_31 (DE1), Ailee_31 (DE1), Angelicage_31 (DE1), Ashertheman_33 (DE1), Baddon_32 (DE1), Barsten_33 (DE1), Baumdotcom_32 (DE1), Bibwit_32 (DE1), BigHunkinEater_35 (DE4), Bizzy_33 (DE1), BobBob_30 (DE1), Brandonk123_34 (DE1), ChadMasterC_33 (DE1), Charming_33 (DE1), Chickadee_30 (DE3), Delrey21_32 (DE4), Derg_28 (DE1), Dexdert_31 (DE3), DoctorFroggo_32 (DE4),

EdmundFerry_29 (DE3), Fitzgerald_31 (DE1), Flatwoods_33 (DE1), Fosterous_31 (DE1), FuegoCuervo_35 (DE1), GTE6_30 (DE3), Gaea_32 (DE1), Galadriel_33 (DE1), Geodirt_30 (DE1), Gustavo_32 (DE1), JKSyngboy_30 (DE1), Jabberwocky_31 (DE1), Kamashten_32 (DE1), Keitabear_33 (DE1), Kewpiedoll_32 (DE1), Kroos_33 (DE1), Kwekel_30 (DE3), Kwobi_34 (DE1), Lennon_33 (DE1), LilHam_30 (DE1), Lilbeanie_28 (DE5), Love_36 (DE1), McCrothy_33 (DE1), McKinley_35 (DE1), MoontowerMania_32 (DE1), Natkenzie_33 (DE4), Nordenberg_27 (DE1), Paries_35 (DE1), Pumpkiney_34 (DE4), Ribeye_33 (DE1), RiverRaider_33 (DE1), RoadKill_28 (DE3), Rofo_33 (DE1), Sampson_33 (DE4), Sanjuju_31 (DE1), Saronaya_32 (DE1), SchottB_31 (DE1), Scioto_33 (DE4), Sedona_33 (DE1), Shivanishola_34 (DE1), Sitar_33 (DE1), StorminNorm_32 (DE1), Stultus_31 (DE1), Tangent_33 (DE1), Tangerine_32 (DE1), Tardus_34 (DE4), Thing3_32 (DE1), Tiamoceli_31 (DE3), Twonlo_28 (DE3), Tycho_32 (DE1), Verity_32 (DE4), ViaConlectus_33 (DE4), Vivi2_35 (DE1), YorkOnyx_33 (DE1), Zipp_32 (DE4), Zitch_34 (DE4),

Start 12:

- Found in 9 of 120 (7.5%) of genes in pham
- Manual Annotations of this start: 9 of 110
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ali17_29 (DE2), Belphegor_31 (DE2), EMOore_29 (DE2), Hans_33 (DE2), Inspectinfecti_32 (DE2), Leonard_31 (DE2), MelBins_32 (DE2), Phauci_24 (DE2), Phinally_31 (DE2),

Summary by clusters:

There are 7 clusters represented in this pham: DE1, DE2, DE3, DE4, DE5, DC2, DC1,

Info for manual annotations of cluster DC1:

- Start number 1 was manually annotated 31 times for cluster DC1.

Info for manual annotations of cluster DC2:

- Start number 1 was manually annotated 1 time for cluster DC2.

Info for manual annotations of cluster DE1:

- Start number 11 was manually annotated 52 times for cluster DE1.

Info for manual annotations of cluster DE2:

- Start number 12 was manually annotated 9 times for cluster DE2.

Info for manual annotations of cluster DE3:

- Start number 11 was manually annotated 7 times for cluster DE3.

Info for manual annotations of cluster DE4:

- Start number 11 was manually annotated 9 times for cluster DE4.

Info for manual annotations of cluster DE5:

- Start number 11 was manually annotated 1 time for cluster DE5.

Gene Information:

Gene: APunk_34 Start: 24307, Stop: 29232, Start Num: 11

Candidate Starts for APunk_34:

(Start: 11 @24307 has 69 MA's), (22, 24427), (23, 24439), (27, 24481), (29, 24505), (37, 24571), (38, 24580), (45, 24652), (50, 24685), (54, 24754), (56, 24763), (59, 24781), (69, 24847), (72, 24862), (76, 24871), (83, 24934), (85, 24940), (90, 24967), (95, 24997), (97, 25006), (106, 25069), (108, 25081), (114, 25168), (117, 25180), (124, 25303), (126, 25327), (127, 25345), (128, 25357), (134, 25417), (135, 25423), (137, 25435), (144, 25546), (145, 25582), (146, 25621), (147, 25633), (150, 25675), (152, 25705), (155, 25747), (156, 25756), (157, 25759), (159, 25789), (160, 25822), (169, 25915), (172, 25936), (176, 25951), (183, 26038), (185, 26059), (186, 26080), (188, 26134), (191, 26167), (194, 26218), (201, 26266), (202, 26275), (206, 26335), (207, 26347), (209, 26368), (211, 26374), (223, 26416), (224, 26422), (226, 26437), (227, 26443), (234, 26524), (235, 26527), (237, 26548), (241, 26602), (245, 26665), (253, 26722), (268, 26809), (277, 26875), (300, 26932), (301, 26935), (304, 26959), (315, 27049), (321, 27097), (352, 27325), (355, 27343), (358, 27400), (368, 27490), (373, 27553), (385, 27634), (387, 27661), (392, 27733), (393, 27742), (397, 27802), (405, 27913), (417, 28141), (419, 28150), (422, 28177), (425, 28219), (427, 28279), (435, 28441), (436, 28468), (439, 28540), (440, 28579), (456, 28786), (461, 28858), (469, 28924), (484, 29059), (488, 29122), (489, 29125), (491, 29143), (493, 29158), (498, 29185), (500, 29197),

Gene: Abblin_33 Start: 24850, Stop: 29775, Start Num: 11

Candidate Starts for Abblin_33:

(Start: 11 @24850 has 69 MA's), (22, 24970), (23, 24982), (27, 25024), (29, 25048), (37, 25114), (38, 25123), (43, 25168), (45, 25195), (54, 25297), (56, 25306), (59, 25324), (69, 25390), (72, 25405), (76, 25414), (83, 25477), (85, 25483), (90, 25510), (95, 25540), (97, 25549), (104, 25597), (106, 25612), (108, 25624), (114, 25711), (117, 25723), (124, 25846), (126, 25870), (127, 25888), (134, 25960), (135, 25966), (137, 25978), (144, 26089), (145, 26125), (146, 26164), (147, 26176), (150, 26218), (152, 26248), (155, 26290), (156, 26299), (157, 26302), (159, 26332), (160, 26365), (169, 26458), (176, 26494), (180, 26551), (183, 26581), (186, 26623), (188, 26677), (189, 26683), (191, 26710), (194, 26761), (200, 26797), (201, 26809), (202, 26818), (206, 26878), (207, 26890), (209, 26911), (211, 26917), (223, 26959), (224, 26965), (226, 26980), (227, 26986), (230, 27031), (234, 27067), (235, 27070), (241, 27145), (245, 27208), (253, 27265), (267, 27346), (274, 27397), (293, 27454), (300, 27475), (301, 27478), (304, 27502), (321, 27640), (325, 27661), (352, 27868), (355, 27886), (358, 27943), (368, 28033), (373, 28096), (385, 28177), (387, 28204), (392, 28276), (393, 28285), (397, 28345), (405, 28456), (417, 28687), (419, 28696), (422, 28723), (425, 28765), (435, 28984), (436, 29011), (439, 29083), (440, 29122), (456, 29329), (461, 29401), (469, 29467), (484, 29602), (488, 29665), (489, 29668), (491, 29686), (493, 29701), (498, 29728), (500, 29740),

Gene: Affeca_31 Start: 24649, Stop: 29682, Start Num: 11

Candidate Starts for Affeca_31:

(Start: 11 @24649 has 69 MA's), (27, 24823), (29, 24847), (31, 24856), (32, 24889), (34, 24907), (38, 24922), (49, 25021), (54, 25096), (55, 25102), (56, 25105), (63, 25162), (64, 25180), (66, 25189), (68, 25204), (96, 25369), (100, 25387), (101, 25399), (106, 25438), (119, 25579), (122, 25639), (124, 25672), (127, 25714), (134, 25786), (136, 25801), (137, 25804), (144, 25915), (145, 25951), (147, 26002), (150, 26044), (152, 26074), (156, 26125), (159, 26158), (160, 26191), (161, 26203), (169, 26284), (172, 26305), (175, 26317), (184, 26413), (185, 26428), (186, 26449), (187, 26500), (189, 26509), (194, 26587), (201, 26635), (202, 26644), (206, 26704), (212, 26749), (215, 26758), (223, 26785), (227, 26812), (229, 26833), (232, 26869), (239, 26935), (241, 26971), (246, 27058), (247, 27061), (251, 27088), (261, 27139), (264, 27145), (282, 27271), (300, 27346), (304, 27373), (310, 27406), (316, 27469), (323, 27523), (329, 27586), (344, 27697), (350, 27724), (351, 27730), (361, 27832), (368, 27898), (371, 27925), (375, 27952), (379, 27991), (382, 28015), (387, 28057), (392, 28129), (393, 28138), (397, 28198), (400, 28243), (419, 28558), (420, 28564), (421, 28582), (428, 28678), (432, 28783), (438, 28882), (450, 29026), (453, 29101), (455, 29113), (459, 29197), (495, 29536), (502, 29575), (503, 29581), (506, 29587), (510, 29614), (513, 29650), (515, 29662),

Gene: Ailee_31 Start: 25358, Stop: 30172, Start Num: 11

Candidate Starts for Ailee_31:

(Start: 11 @25358 has 69 MA's), (27, 25532), (29, 25556), (58, 25694), (68, 25733), (70, 25739), (73, 25751), (77, 25769), (81, 25781), (82, 25808), (86, 25826), (89, 25838), (106, 25937), (119, 26078), (122, 26138), (124, 26171), (127, 26213), (134, 26285), (136, 26300), (137, 26303), (144, 26414), (145, 26450), (147, 26501), (150, 26543), (152, 26573), (156, 26624), (159, 26657), (160, 26690), (161, 26702), (169, 26783), (172, 26804), (175, 26816), (184, 26912), (185, 26927), (186, 26948), (187, 26999), (189, 27008), (194, 27086), (201, 27134), (202, 27143), (211, 27242), (212, 27248), (214, 27254), (215, 27257), (227, 27311), (229, 27332), (231, 27362), (232, 27368), (235, 27395), (253, 27590), (255, 27623), (261, 27638), (264, 27644), (271, 27689), (273, 27698), (275, 27713), (277, 27731), (282, 27770), (283, 27776), (300, 27845), (304, 27872), (310, 27905), (316, 27968), (323, 28022), (350, 28223), (351, 28229), (361, 28331), (363, 28343), (368, 28397), (371, 28424), (375, 28451), (379, 28490), (385, 28529), (387, 28556), (392, 28628), (393, 28637), (397, 28697), (400, 28742), (419, 29057), (420, 29063), (421, 29081), (428, 29177), (432, 29282), (438, 29381), (450, 29525), (453, 29600), (455, 29612), (459, 29687), (495, 30026), (502, 30065), (503, 30071), (506, 30077), (510, 30104), (513, 30140), (515, 30152),

Gene: Ali17_29 Start: 22538, Stop: 27427, Start Num: 12

Candidate Starts for Ali17_29:

(Start: 12 @22538 has 9 MA's), (22, 22658), (27, 22712), (29, 22736), (38, 22811), (39, 22814), (49, 22910), (54, 22985), (55, 22991), (57, 22997), (60, 23021), (62, 23030), (71, 23090), (72, 23096), (76, 23105), (81, 23135), (88, 23192), (95, 23231), (97, 23240), (98, 23243), (106, 23303), (107, 23306), (113, 23381), (114, 23390), (124, 23525), (125, 23534), (127, 23567), (129, 23591), (137, 23657), (139, 23720), (145, 23804), (146, 23843), (147, 23855), (151, 23903), (152, 23927), (156, 23978), (159, 24011), (163, 24062), (166, 24092), (170, 24149), (173, 24161), (176, 24173), (181, 24248), (186, 24302), (188, 24356), (191, 24389), (200, 24476), (201, 24488), (202, 24497), (206, 24557), (207, 24569), (209, 24590), (211, 24596), (212, 24602), (213, 24605), (214, 24608), (222, 24635), (223, 24638), (225, 24647), (226, 24659), (227, 24665), (230, 24710), (234, 24746), (235, 24749), (237, 24770), (245, 24887), (253, 24944), (268, 25031), (277, 25097), (300, 25154), (301, 25157), (304, 25181), (315, 25271), (321, 25319), (337, 25448), (346, 25517), (348, 25526), (352, 25547), (355, 25565), (357, 25583), (371, 25739), (372, 25742), (385, 25847), (393, 25955), (397, 26015), (399, 26045), (405, 26126), (418, 26357), (419, 26363), (423, 26411), (424, 26426), (427, 26492), (433, 26624), (439, 26753), (440, 26792), (469, 27119), (476, 27215), (491, 27338), (498, 27380), (500, 27392),

Gene: Angelicage_31 Start: 25066, Stop: 30099, Start Num: 11

Candidate Starts for Angelicage_31:

(Start: 11 @25066 has 69 MA's), (27, 25240), (29, 25264), (31, 25273), (32, 25306), (34, 25324), (38, 25339), (49, 25438), (54, 25513), (55, 25519), (56, 25522), (63, 25579), (64, 25597), (66, 25606), (68, 25621), (96, 25786), (100, 25804), (101, 25816), (106, 25855), (119, 25996), (122, 26056), (124, 26089), (127, 26131), (134, 26203), (136, 26218), (137, 26221), (144, 26332), (145, 26368), (147, 26419), (150, 26461), (152, 26491), (156, 26542), (159, 26575), (160, 26608), (161, 26620), (169, 26701), (172, 26722), (175, 26734), (184, 26830), (185, 26845), (186, 26866), (187, 26917), (189, 26926), (194, 27004), (201, 27052), (202, 27061), (206, 27121), (212, 27166), (215, 27175), (223, 27202), (227, 27229), (229, 27250), (232, 27286), (239, 27352), (241, 27388), (246, 27475), (247, 27478), (251, 27505), (261, 27556), (264, 27562), (282, 27688), (300, 27763), (304, 27790), (310, 27823), (316, 27886), (323, 27940), (329, 28003), (344, 28114), (350, 28141), (351, 28147), (361, 28249), (368, 28315), (371, 28342), (375, 28369), (379, 28408), (382, 28432), (387, 28474), (392, 28546), (393, 28555), (397, 28615), (400, 28660), (419, 28975), (420, 28981), (421, 28999), (428, 29095), (432, 29200), (438, 29299), (450, 29443), (453, 29518), (455, 29530), (459, 29614), (495, 29953), (502, 29992), (503, 29998), (506, 30004), (510, 30031), (513, 30067), (515, 30079),

Gene: Arri_32 Start: 20088, Stop: 25619, Start Num: 1

Candidate Starts for Arri_32:

(Start: 1 @20088 has 32 MA's), (3, 20175), (4, 20262), (6, 20295), (7, 20319), (13, 20442), (14, 20463), (15, 20469), (16, 20493), (20, 20523), (26, 20562), (33, 20646), (41, 20682), (44, 20706), (49, 20745), (103, 21135), (119, 21303), (122, 21363), (127, 21435), (128, 21447), (131, 21483), (133, 21507), (141, 21606), (142, 21609), (144, 21639), (146, 21714), (147, 21726), (150, 21768), (152, 21798), (156, 21849), (168, 21990), (169, 22008), (170, 22020), (172, 22029), (183, 22131), (185, 22152), (186, 22173), (187, 22224), (188, 22227), (189, 22233), (194, 22311), (198, 22341), (201, 22359), (206, 22428), (209, 22461), (211, 22467), (213, 22476), (216, 22482), (227, 22536), (230, 22581), (233, 22608), (234, 22617), (236, 22638), (241, 22695), (243, 22731), (251, 22812), (253, 22815), (258, 22884), (265, 22956), (276, 23052), (284, 23118), (285, 23121), (291, 23145), (296, 23172), (297, 23175), (298, 23178), (299, 23184), (307, 23253), (309, 23262), (313, 23307), (314, 23316), (325, 23394), (330, 23448), (337, 23502), (343, 23559), (353, 23601), (357, 23637), (361, 23700), (367, 23751), (380, 23862), (386, 23901), (390, 23982), (403, 24156), (404, 24159), (407, 24192), (417, 24399), (419, 24408), (420, 24414), (436, 24726), (449, 24933), (455, 25071), (466, 25221), (473, 25332), (482, 25377), (483, 25386), (484, 25392), (487, 25428), (499, 25521), (502, 25533), (509, 25563), (511, 25596), (514, 25608),

Gene: Ashertheman_33 Start: 23943, Stop: 28961, Start Num: 11

Candidate Starts for Ashertheman_33:

(Start: 11 @23943 has 69 MA's), (18, 24030), (22, 24063), (27, 24117), (29, 24141), (32, 24183), (34, 24201), (38, 24216), (45, 24288), (49, 24315), (54, 24390), (56, 24399), (63, 24456), (64, 24474), (65, 24480), (106, 24732), (111, 24792), (122, 24933), (124, 24966), (127, 25008), (134, 25080), (136, 25095), (137, 25098), (144, 25209), (145, 25245), (147, 25296), (150, 25338), (152, 25368), (156, 25419), (159, 25452), (160, 25485), (161, 25497), (169, 25578), (175, 25611), (176, 25614), (180, 25671), (184, 25707), (185, 25722), (186, 25743), (187, 25794), (201, 25929), (202, 25938), (209, 26031), (211, 26037), (212, 26043), (215, 26052), (220, 26064), (222, 26076), (225, 26088), (227, 26106), (232, 26163), (241, 26265), (242, 26283), (244, 26307), (247, 26355), (253, 26385), (261, 26433), (264, 26439), (281, 26562), (282, 26565), (283, 26571), (296, 26628), (300, 26640), (302, 26661), (304, 26667), (310, 26700), (316, 26763), (323, 26817), (344, 26991), (350, 27018), (351, 27024), (361, 27126), (368, 27192), (387, 27351), (393, 27432), (397, 27492), (400, 27537), (417, 27843), (419, 27852), (422, 27879), (426, 27948), (432, 28077), (438, 28176), (450, 28320), (453, 28392), (454, 28398), (455, 28404), (459, 28479), (462, 28509), (473, 28647), (484, 28707), (487, 28743), (490, 28788), (495, 28815), (502, 28854), (503, 28860), (506, 28866), (510, 28893), (513, 28929), (515, 28941),

Gene: Baddon_32 Start: 24743, Stop: 29758, Start Num: 11

Candidate Starts for Baddon_32:

(Start: 11 @24743 has 69 MA's), (17, 24818), (22, 24863), (27, 24917), (29, 24941), (32, 24983), (34, 25001), (38, 25016), (45, 25088), (49, 25115), (54, 25190), (56, 25199), (63, 25256), (64, 25274), (65, 25280), (68, 25298), (74, 25325), (100, 25481), (106, 25532), (108, 25544), (111, 25592), (122, 25733), (124, 25766), (127, 25808), (134, 25880), (136, 25895), (137, 25898), (144, 26009), (145, 26045), (147, 26096), (150, 26138), (152, 26168), (156, 26219), (159, 26252), (160, 26285), (161, 26297), (169, 26378), (175, 26411), (176, 26414), (180, 26471), (184, 26507), (185, 26522), (186, 26543), (187, 26594), (201, 26729), (206, 26798), (211, 26837), (212, 26843), (215, 26852), (223, 26879), (227, 26906), (229, 26927), (232, 26963), (234, 26987), (235, 26990), (238, 27026), (241, 27065), (247, 27155), (253, 27185), (261, 27233), (264, 27239), (281, 27362), (282, 27365), (283, 27371), (296, 27428), (300, 27440), (304, 27467), (310, 27500), (311, 27506), (316, 27563), (323, 27617), (329, 27680), (344, 27791), (350, 27818), (351, 27824), (361, 27926), (368, 27992), (385, 28124), (387, 28151), (393, 28232), (397, 28292), (400, 28337), (417, 28643), (419, 28652), (422, 28679), (426, 28748), (438, 28976), (450, 29120), (453, 29189), (454, 29195), (455, 29201), (459, 29276), (462, 29306), (473, 29444), (484, 29504), (487, 29540), (490, 29585), (495, 29612), (502, 29651), (503, 29657), (506, 29663), (510, 29690), (513, 29726), (515, 29738),

Gene: Bakery_30 Start: 19326, Stop: 24842, Start Num: 1

Candidate Starts for Bakery_30:

(Start: 1 @19326 has 32 MA's), (4, 19500), (6, 19533), (7, 19557), (13, 19680), (14, 19701), (15, 19707), (16, 19731), (20, 19761), (26, 19800), (41, 19920), (44, 19944), (49, 19983), (114, 20499), (119, 20541), (122, 20601), (127, 20673), (131, 20721), (138, 20775), (142, 20847), (144, 20877), (146, 20952), (147, 20964), (150, 21006), (152, 21036), (156, 21087), (164, 21180), (168, 21228), (169, 21246), (170, 21258), (172, 21267), (182, 21366), (183, 21369), (185, 21390), (186, 21411), (187, 21462), (188, 21465), (194, 21549), (198, 21579), (201, 21597), (203, 21624), (206, 21666), (222, 21744), (223, 21747), (224, 21753), (227, 21774), (228, 21777), (233, 21846), (235, 21858), (241, 21933), (251, 22050), (253, 22053), (256, 22101), (276, 22290), (284, 22356), (285, 22359), (291, 22383), (297, 22413), (298, 22416), (299, 22422), (305, 22467), (307, 22491), (309, 22500), (313, 22545), (314, 22554), (316, 22566), (321, 22611), (322, 22614), (325, 22632), (330, 22686), (337, 22740), (353, 22839), (361, 22938), (367, 22989), (380, 23100), (386, 23139), (387, 23160), (390, 23220), (403, 23394), (404, 23397), (407, 23430), (417, 23640), (420, 23655), (449, 24165), (452, 24261), (455, 24294), (465, 24441), (466, 24444), (473, 24555), (483, 24609), (487, 24651), (499, 24744), (502, 24756), (509, 24786), (511, 24819), (514, 24831),

Gene: Barb_31 Start: 20106, Stop: 25637, Start Num: 1

Candidate Starts for Barb_31:

(Start: 1 @20106 has 32 MA's), (3, 20193), (4, 20280), (6, 20313), (7, 20337), (13, 20460), (14, 20481), (15, 20487), (16, 20511), (20, 20541), (26, 20580), (33, 20664), (41, 20700), (44, 20724), (49, 20763), (103, 21153), (119, 21321), (122, 21381), (127, 21453), (128, 21465), (131, 21501), (133, 21525), (141, 21624), (142, 21627), (144, 21657), (146, 21732), (147, 21744), (150, 21786), (152, 21816), (156, 21867), (168, 22008), (169, 22026), (170, 22038), (172, 22047), (183, 22149), (185, 22170), (186, 22191), (187, 22242), (188, 22245), (189, 22251), (194, 22329), (198, 22359), (201, 22377), (206, 22446), (209, 22479), (211, 22485), (213, 22494), (216, 22500), (227, 22554), (230, 22599), (233, 22626), (234, 22635), (236, 22656), (241, 22713), (243, 22749), (251, 22830), (253, 22833), (258, 22902), (265, 22974), (276, 23070), (284, 23136), (285, 23139), (291, 23163), (296, 23190), (297, 23193), (298, 23196), (299, 23202), (307, 23271), (309, 23280), (313, 23325), (314, 23334), (325, 23412), (330, 23466), (337, 23520), (343, 23577), (353, 23619), (357, 23655), (361, 23718), (367, 23769), (380, 23880), (386, 23919), (390, 24000), (403, 24174), (404, 24177), (407, 24210), (417, 24417), (419, 24426), (420, 24432), (436, 24744), (449, 24951), (455, 25089), (466, 25239), (473, 25350), (482, 25395), (483, 25404), (484, 25410), (487, 25446), (499, 25539), (502, 25551), (509, 25581), (511, 25614), (514, 25626),

Gene: Barsten_33 Start: 24490, Stop: 29313, Start Num: 11

Candidate Starts for Barsten_33:

(Start: 11 @24490 has 69 MA's), (27, 24664), (29, 24688), (58, 24826), (68, 24865), (70, 24871), (73, 24883), (77, 24901), (81, 24913), (82, 24940), (86, 24958), (89, 24970), (106, 25069), (118, 25189), (119, 25210), (122, 25270), (124, 25303), (127, 25345), (130, 25381), (134, 25417), (136, 25432), (137, 25435), (144, 25546), (145, 25582), (147, 25633), (150, 25675), (152, 25705), (156, 25756), (159, 25789), (160, 25822), (161, 25834), (169, 25915), (172, 25936), (175, 25948), (184, 26044), (185, 26059), (186, 26080), (187, 26131), (189, 26140), (194, 26218), (201, 26266), (202, 26275), (206, 26335), (212, 26380), (215, 26389), (223, 26416), (227, 26443), (229, 26464), (232, 26500), (239, 26566), (241, 26602), (246, 26689), (247, 26692), (248, 26701), (251, 26719), (261, 26770), (264, 26776), (282, 26902), (300, 26977), (304, 27004), (310, 27037), (316, 27100), (323, 27154), (329, 27217), (344, 27328), (350, 27355), (351, 27361), (361, 27463), (363, 27475), (368, 27529), (371, 27556), (375, 27583), (379, 27622), (382, 27646), (387, 27688), (392, 27760), (393, 27769), (397, 27829), (400, 27874), (419, 28189), (420, 28195), (421, 28213), (428, 28309), (432, 28414), (438, 28513), (450, 28657), (453, 28732), (455, 28744), (459, 28828), (495, 29167), (502, 29206), (503, 29212), (506, 29218), (510, 29245), (513, 29281), (515, 29293),

Gene: Baumdotcom_32 Start: 23558, Stop: 28582, Start Num: 11

Candidate Starts for Baumdotcom_32:

(Start: 11 @23558 has 69 MA's), (18, 23645), (22, 23678), (27, 23732), (29, 23756), (32, 23798), (34, 23816), (38, 23831), (45, 23903), (49, 23930), (54, 24005), (56, 24014), (63, 24071), (64, 24089), (65, 24095), (106, 24347), (111, 24407), (122, 24548), (124, 24581), (127, 24623), (134, 24695), (136, 24710), (137, 24713), (144, 24824), (145, 24860), (147, 24911), (150, 24953), (152, 24983), (156, 25034), (159, 25067), (160, 25100), (161, 25112), (169, 25193), (175, 25226), (176, 25229), (180, 25286), (184, 25322), (185, 25337), (186, 25358), (187, 25409), (201, 25544), (202, 25553), (209, 25646), (211, 25652), (212, 25658), (215, 25667), (220, 25679), (222, 25691), (225, 25703), (227, 25721), (232, 25778), (241, 25880), (242, 25898), (244, 25922), (247, 25970), (253, 26000), (261, 26048), (264, 26054), (281, 26177), (282, 26180), (283, 26186), (296, 26243), (300, 26255), (302, 26276), (304, 26282), (310, 26315), (316, 26378), (323, 26432), (344, 26606), (350, 26633), (351, 26639), (361, 26741), (368, 26807), (387, 26966), (393, 27047), (397, 27107), (400, 27152), (417, 27464), (419, 27473), (422, 27500), (426, 27569), (432, 27698), (438, 27797), (450, 27941), (453, 28013), (454, 28019), (455, 28025), (459, 28100), (462, 28130), (473, 28268), (484, 28328), (487, 28364), (490, 28409), (495, 28436), (502, 28475), (503, 28481), (506, 28487), (510, 28514), (513, 28550), (515, 28562),

Gene: Belphegor_31 Start: 24145, Stop: 29028, Start Num: 12

Candidate Starts for Belphegor_31:

(Start: 12 @24145 has 9 MA's), (21, 24262), (22, 24265), (25, 24292), (27, 24319), (29, 24343), (32, 24385), (37, 24409), (38, 24418), (39, 24421), (45, 24490), (51, 24553), (54, 24592), (55, 24598), (57, 24604), (62, 24637), (67, 24679), (71, 24697), (72, 24703), (76, 24712), (88, 24799), (106, 24910), (107, 24913), (113, 24988), (114, 24997), (115, 25000), (124, 25132), (127, 25174), (129, 25198), (135, 25252), (137, 25264), (144, 25375), (145, 25411), (146, 25450), (147, 25462), (151, 25510), (152, 25534), (156, 25585), (159, 25618), (163, 25669), (166, 25699), (170, 25756), (173, 25768), (176, 25780), (179, 25819), (181, 25855), (187, 25960), (191, 25996), (194, 26047), (202, 26104), (206, 26164), (207, 26176), (211, 26203), (212, 26209), (213, 26212), (214, 26215), (222, 26242), (223, 26245), (226, 26266), (227, 26272), (233, 26344), (237, 26377), (241, 26431), (245, 26494), (253, 26551), (255, 26584), (268, 26638), (300, 26761), (303, 26785), (304, 26788), (315, 26878), (321, 26926), (337, 27055), (346, 27124), (355, 27172), (357, 27190), (371, 27346), (374, 27376), (385, 27454), (392, 27553), (397, 27622), (399, 27652), (417, 27961), (418, 27964), (419, 27970), (424, 28033), (427, 28099), (433, 28231), (439, 28360), (440, 28399), (469, 28720), (474, 28804), (498, 28981), (500, 28993),

Gene: Bibwit_32 Start: 24677, Stop: 29500, Start Num: 11

Candidate Starts for Bibwit_32:

(Start: 11 @24677 has 69 MA's), (27, 24851), (29, 24875), (58, 25013), (70, 25058), (73, 25070), (77, 25088), (81, 25100), (82, 25127), (86, 25145), (89, 25157), (106, 25256), (118, 25376), (119, 25397), (122, 25457), (124, 25490), (127, 25532), (130, 25568), (134, 25604), (136, 25619), (137, 25622), (144, 25733), (145, 25769), (147, 25820), (150, 25862), (152, 25892), (156, 25943), (159, 25976), (160, 26009), (161, 26021), (169, 26102), (172, 26123), (175, 26135), (184, 26231), (185, 26246), (186, 26267), (187, 26318), (189, 26327), (194, 26405), (201, 26453), (202, 26462), (206, 26522), (212, 26567), (215, 26576), (223, 26603), (227, 26630), (229, 26651), (232, 26687), (239, 26753), (241, 26789), (246, 26876), (247, 26879), (248, 26888), (251, 26906), (261, 26957), (264, 26963), (282, 27089), (304, 27191), (310, 27224), (316, 27287), (323, 27341), (329, 27404), (344, 27515), (350, 27542), (351, 27548), (361, 27650), (368, 27716), (371, 27743), (375, 27770), (379, 27809), (382, 27833), (387, 27875), (392, 27947), (397, 28016), (400, 28061), (419, 28376), (420, 28382), (421, 28400), (428, 28496), (432, 28601), (438, 28700), (450, 28844), (453, 28919), (455, 28931), (459, 29015), (495, 29354), (502, 29393), (503, 29399), (506, 29405), (510, 29432), (513, 29468), (515, 29480),

Gene: BigHunkinEater_35 Start: 24088, Stop: 29013, Start Num: 11

Candidate Starts for BigHunkinEater_35:

(Start: 11 @24088 has 69 MA's), (22, 24208), (23, 24220), (27, 24262), (29, 24286), (31, 24295), (37, 24352), (38, 24361), (45, 24433), (50, 24466), (54, 24535), (56, 24544), (59, 24562), (69, 24628), (72, 24643), (76, 24652), (83, 24715), (85, 24721), (90, 24748), (95, 24778), (97, 24787), (104, 24835), (106, 24850), (110, 24895), (117, 24961), (124, 25084), (126, 25108), (127, 25126), (128, 25138), (134, 25198), (135, 25204), (137, 25216), (140, 25288), (144, 25327), (145, 25363), (146, 25402), (147, 25414), (150, 25456), (152, 25486), (156, 25537), (157, 25540), (159, 25570), (160, 25603), (169, 25696), (176, 25732), (180, 25789), (183, 25819), (186, 25861), (188, 25915), (191, 25948), (194, 25999), (201, 26047), (202, 26056), (206, 26116), (207, 26128), (209, 26149), (211, 26155), (223, 26197), (224, 26203), (226, 26218), (227, 26224), (234, 26305), (235, 26308), (237, 26329), (241, 26383), (245, 26446), (253, 26503), (268, 26590), (277, 26656), (300, 26713), (301, 26716), (304, 26740), (315, 26830), (321, 26878), (352, 27106), (355, 27124), (358, 27181), (368, 27271), (373, 27334), (385, 27415), (387, 27442), (392, 27514), (393, 27523), (397, 27583), (405, 27694), (417, 27925), (419, 27934), (422, 27961), (425, 28003), (435, 28222), (436, 28249), (439, 28321), (440, 28360), (456, 28567), (461, 28639), (469, 28705), (484, 28840), (488, 28903), (489, 28906), (491, 28924), (493, 28939), (498, 28966), (500, 28978),

Gene: Bizzy_33 Start: 23890, Stop: 28905, Start Num: 11

Candidate Starts for Bizzy_33:

(Start: 11 @23890 has 69 MA's), (17, 23965), (22, 24010), (27, 24064), (29, 24088), (32, 24130), (34, 24148), (38, 24163), (45, 24235), (49, 24262), (54, 24337), (56, 24346), (63, 24403), (64, 24421), (65, 24427), (68, 24445), (74, 24472), (106, 24679), (108, 24691), (111, 24739), (122, 24880), (124, 24913), (127, 24955), (134, 25027), (136, 25042), (137, 25045), (144, 25156), (145, 25192), (147, 25243), (150, 25285), (152, 25315), (156, 25366), (159, 25399), (160, 25432), (161, 25444), (169, 25525), (175, 25558), (176, 25561), (180, 25618), (184, 25654), (185, 25669), (186, 25690), (187, 25741), (201, 25876), (202, 25885), (209, 25978), (211, 25984), (212, 25990), (215, 25999), (222, 26023), (225, 26035), (227, 26053), (232, 26110), (241, 26212), (247, 26302), (253, 26332), (261, 26380), (264, 26386), (281, 26509), (282, 26512), (296, 26575), (300, 26587), (302, 26608), (304, 26614), (310, 26647), (316, 26710), (323, 26764), (329, 26827), (344, 26938), (350, 26965), (351, 26971), (361, 27073), (368, 27139), (385, 27271), (387, 27298), (393, 27379), (397, 27439), (400, 27484), (417, 27790), (419, 27799), (422, 27826), (426, 27895), (432, 28024), (438, 28123), (450, 28267), (453, 28336), (454, 28342), (455, 28348), (459, 28423), (462, 28453), (473, 28591), (484, 28651), (487, 28687), (490, 28732), (495, 28759), (502, 28798), (503, 28804), (506, 28810), (510, 28837), (513, 28873), (515, 28885),

Gene: BobBob_30 Start: 23955, Stop: 28781, Start Num: 11

Candidate Starts for BobBob_30:

(Start: 11 @23955 has 69 MA's), (27, 24129), (29, 24153), (58, 24291), (67, 24324), (70, 24336), (73, 24348), (77, 24366), (81, 24378), (86, 24423), (106, 24534), (118, 24654), (119, 24675), (122, 24735), (124, 24768), (127, 24810), (130, 24846), (134, 24882), (136, 24897), (137, 24900), (144, 25011), (145, 25047), (147, 25098), (150, 25140), (152, 25170), (156, 25221), (159, 25254), (160, 25287), (161, 25299), (169, 25380), (175, 25413), (184, 25509), (185, 25524), (186, 25545), (187, 25596), (189, 25605), (194, 25683), (201, 25731), (202, 25740), (206, 25800), (211, 25839), (212, 25845), (215, 25854), (223, 25881), (227, 25908), (229, 25929), (232, 25965), (239, 26031), (240, 26052), (241, 26067), (246, 26154), (247, 26157), (261, 26235), (273, 26295), (282, 26367), (304, 26469), (310, 26502), (316, 26565), (323, 26619), (329, 26682), (344, 26793), (350, 26820), (351, 26826), (361, 26928), (363, 26940), (368, 26994), (371, 27021), (375, 27048), (379, 27087), (382, 27111), (385, 27126), (387, 27153), (392, 27225), (393, 27234), (397, 27294), (400, 27339), (414, 27528), (419, 27657), (420, 27663), (421, 27681), (428, 27777), (432, 27882), (438, 27981), (450, 28125), (453, 28200), (455, 28212), (459, 28296), (495, 28635), (502, 28674), (503, 28680), (506, 28686), (510, 28713), (513, 28749), (515, 28761),

Gene: Brandonk123_34 Start: 25024, Stop: 29847, Start Num: 11

Candidate Starts for Brandonk123_34:

(Start: 11 @25024 has 69 MA's), (27, 25198), (29, 25222), (58, 25360), (68, 25399), (70, 25405), (73, 25417), (77, 25435), (81, 25447), (82, 25474), (86, 25492), (89, 25504), (106, 25603), (118, 25723), (119, 25744), (122, 25804), (124, 25837), (127, 25879), (130, 25915), (134, 25951), (136, 25966), (137, 25969), (144, 26080), (145, 26116), (147, 26167), (150, 26209), (152, 26239), (156, 26290), (159, 26323), (160, 26356), (161, 26368), (169, 26449), (172, 26470), (175, 26482), (184, 26578), (185, 26593), (186, 26614), (187, 26665), (189, 26674), (194, 26752), (201, 26800), (202, 26809), (206, 26869), (212, 26914), (215, 26923), (223, 26950), (227, 26977), (229, 26998), (232, 27034), (239, 27100), (241, 27136), (246, 27223), (247, 27226), (261, 27304), (273, 27364), (282, 27436), (296, 27499), (302, 27532), (304, 27538), (310, 27571), (316, 27634), (323, 27688), (329, 27751), (344, 27862), (350, 27889), (351, 27895), (361, 27997), (363, 28009), (368, 28063), (371, 28090), (375, 28117), (379, 28156), (387, 28222), (392, 28294), (393, 28303), (397, 28363), (400, 28408), (419, 28723), (420, 28729), (421, 28747), (428, 28843), (432, 28948), (438, 29047), (450, 29191), (453, 29266), (455, 29278), (459, 29362), (495, 29701), (502, 29740), (503, 29746), (506, 29752), (510, 29779), (513, 29815), (515, 29827),

Gene: ChadMasterC_33 Start: 25682, Stop: 30712, Start Num: 11

Candidate Starts for ChadMasterC_33:

(Start: 11 @25682 has 69 MA's), (27, 25856), (29, 25880), (31, 25889), (32, 25922), (34, 25940), (38, 25955), (49, 26054), (54, 26129), (55, 26135), (56, 26138), (63, 26195), (64, 26213), (66, 26222), (68, 26237), (96, 26402), (100, 26420), (101, 26432), (106, 26471), (119, 26612), (122, 26672), (124, 26705), (127, 26747), (134, 26819), (136, 26834), (137, 26837), (144, 26948), (145, 26984), (147, 27035), (150, 27077), (152, 27107), (156, 27158), (159, 27191), (160, 27224), (161, 27236), (169, 27317), (172, 27338), (175, 27350), (184, 27446), (185, 27461), (186, 27482), (187, 27533), (189, 27542), (194, 27620), (201, 27668), (202, 27677), (206, 27737), (212, 27782), (215, 27791), (223, 27818), (227, 27845), (229, 27866), (232, 27902), (239, 27968), (241, 28004), (246, 28091), (247, 28094), (251, 28121), (261, 28172), (264, 28178), (282, 28304), (300, 28379), (304, 28406), (310, 28439), (316, 28502), (323, 28556), (329, 28619), (344, 28730), (350, 28757), (351, 28763), (361, 28865), (363, 28877), (368, 28931), (371, 28958), (375, 28985), (379, 29024), (382, 29048), (385, 29063), (387, 29090), (392, 29162), (393, 29171), (397, 29231), (400, 29276), (419, 29594), (420, 29600), (421, 29618), (428, 29714), (432, 29819), (438, 29918), (450, 30062), (453, 30131), (455, 30143), (459, 30227), (495, 30566), (502, 30605), (503, 30611), (506, 30617), (510, 30644), (513, 30680), (515, 30692),

Gene: Charming_33 Start: 24533, Stop: 29347, Start Num: 11

Candidate Starts for Charming_33:

(Start: 11 @24533 has 69 MA's), (27, 24707), (29, 24731), (58, 24869), (67, 24902), (70, 24914), (73, 24926), (77, 24944), (81, 24956), (86, 25001), (89, 25013), (106, 25112), (118, 25232), (119, 25253), (122, 25313), (124, 25346), (127, 25388), (130, 25424), (134, 25460), (136, 25475), (137, 25478), (144, 25589), (145, 25625), (147, 25676), (150, 25718), (152, 25748), (156, 25799), (159, 25832), (160, 25865), (161, 25877), (169, 25958), (172, 25979), (175, 25991), (184, 26087), (185, 26102), (186, 26123), (187, 26174), (189, 26183), (201, 26309), (202, 26318), (206, 26378), (212, 26423), (215, 26432), (223, 26459), (227, 26486), (229, 26507), (232, 26543), (239, 26609), (241, 26645), (246, 26732), (247, 26735), (261, 26813), (264, 26819), (282, 26945), (304, 27047), (310, 27080), (316, 27143), (323, 27197), (329, 27260), (344, 27371), (350, 27398), (351, 27404), (361, 27506), (368, 27572), (369, 27587), (371, 27599), (375, 27626), (379, 27665), (387, 27731), (393, 27812), (397, 27872), (400, 27917), (419, 28232), (420, 28238), (421, 28256), (428, 28352), (438, 28556), (450, 28700), (453, 28775), (459, 28862), (477, 29057), (495, 29201), (502, 29240), (503, 29246), (506, 29252), (510, 29279), (513, 29315), (515, 29327),

Gene: CherryCola_33 Start: 20326, Stop: 25857, Start Num: 1

Candidate Starts for CherryCola_33:

(Start: 1 @20326 has 32 MA's), (3, 20413), (4, 20500), (6, 20533), (13, 20680), (14, 20701), (15, 20707), (16, 20731), (20, 20761), (26, 20800), (33, 20884), (41, 20920), (44, 20944), (49, 20983), (103,

21373), (119, 21541), (122, 21601), (127, 21673), (128, 21685), (131, 21721), (133, 21745), (141, 21844), (142, 21847), (144, 21877), (146, 21952), (147, 21964), (150, 22006), (152, 22036), (156, 22087), (168, 22228), (169, 22246), (170, 22258), (172, 22267), (183, 22369), (185, 22390), (186, 22411), (187, 22462), (188, 22465), (194, 22549), (198, 22579), (201, 22597), (206, 22666), (209, 22699), (211, 22705), (213, 22714), (216, 22720), (227, 22774), (233, 22846), (234, 22855), (236, 22876), (241, 22933), (243, 22969), (251, 23050), (253, 23053), (258, 23122), (276, 23290), (284, 23356), (285, 23359), (291, 23383), (296, 23410), (297, 23413), (298, 23416), (299, 23422), (307, 23491), (309, 23500), (313, 23545), (314, 23554), (325, 23632), (330, 23686), (337, 23740), (343, 23797), (353, 23839), (357, 23875), (361, 23938), (367, 23989), (376, 24073), (380, 24100), (386, 24139), (387, 24160), (390, 24220), (403, 24394), (404, 24397), (407, 24430), (417, 24637), (419, 24646), (420, 24652), (436, 24964), (449, 25171), (455, 25309), (466, 25459), (473, 25570), (482, 25615), (483, 25624), (484, 25630), (487, 25666), (499, 25759), (502, 25771), (509, 25801), (511, 25834), (514, 25846),

Gene: Chickadee_30 Start: 21428, Stop: 26545, Start Num: 11

Candidate Starts for Chickadee_30:

(Start: 11 @21428 has 69 MA's), (22, 21548), (27, 21602), (30, 21635), (36, 21692), (38, 21701), (39, 21704), (45, 21773), (46, 21785), (49, 21800), (51, 21836), (54, 21875), (55, 21881), (57, 21887), (62, 21920), (67, 21962), (69, 21971), (71, 21980), (72, 21986), (85, 22064), (88, 22082), (95, 22121), (104, 22178), (106, 22193), (116, 22286), (127, 22457), (134, 22529), (137, 22547), (141, 22625), (144, 22658), (145, 22694), (146, 22733), (147, 22745), (152, 22817), (156, 22868), (158, 22889), (159, 22901), (163, 22952), (165, 22982), (172, 23048), (183, 23150), (186, 23192), (188, 23246), (190, 23276), (191, 23279), (194, 23330), (197, 23357), (201, 23378), (205, 23444), (209, 23480), (211, 23486), (222, 23525), (225, 23537), (226, 23549), (227, 23555), (229, 23576), (237, 23660), (238, 23675), (240, 23699), (250, 23834), (253, 23846), (262, 23909), (263, 23912), (279, 24017), (280, 24035), (290, 24065), (301, 24116), (310, 24173), (317, 24248), (318, 24257), (319, 24266), (320, 24272), (327, 24323), (331, 24356), (332, 24368), (335, 24389), (336, 24401), (339, 24434), (342, 24455), (359, 24587), (365, 24641), (388, 24848), (396, 24962), (398, 24974), (407, 25100), (410, 25118), (413, 25196), (422, 25385), (424, 25415), (429, 25586), (434, 25613), (444, 25820), (445, 25823), (447, 25841), (464, 26090), (467, 26108), (468, 26120), (479, 26237), (496, 26393), (497, 26396), (505, 26438), (507, 26456), (510, 26471), (512, 26510),

Gene: ClamChowder_31 Start: 20106, Stop: 25637, Start Num: 1

Candidate Starts for ClamChowder_31:

(Start: 1 @20106 has 32 MA's), (3, 20193), (4, 20280), (6, 20313), (7, 20337), (13, 20460), (14, 20481), (15, 20487), (16, 20511), (20, 20541), (26, 20580), (33, 20664), (41, 20700), (44, 20724), (49, 20763), (103, 21153), (119, 21321), (122, 21381), (127, 21453), (128, 21465), (131, 21501), (133, 21525), (141, 21624), (142, 21627), (144, 21657), (146, 21732), (147, 21744), (150, 21786), (152, 21816), (156, 21867), (168, 22008), (169, 22026), (170, 22038), (172, 22047), (183, 22149), (185, 22170), (186, 22191), (187, 22242), (188, 22245), (189, 22251), (194, 22329), (198, 22359), (201, 22377), (206, 22446), (209, 22479), (211, 22485), (213, 22494), (216, 22500), (227, 22554), (230, 22599), (233, 22626), (234, 22635), (236, 22656), (241, 22713), (243, 22749), (251, 22830), (253, 22833), (258, 22902), (265, 22974), (276, 23070), (284, 23136), (285, 23139), (291, 23163), (296, 23190), (297, 23193), (298, 23196), (299, 23202), (307, 23271), (309, 23280), (313, 23325), (314, 23334), (325, 23412), (330, 23466), (337, 23520), (343, 23577), (353, 23619), (357, 23655), (361, 23718), (367, 23769), (380, 23880), (386, 23919), (390, 24000), (403, 24174), (404, 24177), (407, 24210), (417, 24417), (419, 24426), (420, 24432), (436, 24744), (449, 24951), (455, 25089), (466, 25239), (473, 25350), (482, 25395), (483, 25404), (484, 25410), (487, 25446), (499, 25539), (502, 25551), (509, 25581), (511, 25614), (514, 25626),

Gene: Clown_33 Start: 21973, Stop: 27672, Start Num: 1

Candidate Starts for Clown_33:

(Start: 1 @21973 has 32 MA's), (2, 22048), (4, 22147), (5, 22156), (6, 22180), (8, 22249), (9, 22348), (10, 22351), (28, 22606), (35, 22696), (41, 22750), (48, 22807), (53, 22873), (57, 22894), (61, 22915), (84, 23086), (92, 23122), (93, 23128), (102, 23194), (103, 23203), (105, 23224), (112, 23308), (122, 23434), (127, 23506), (128, 23518), (131, 23554), (141, 23677), (142, 23680), (144, 23710), (146, 23785), (147, 23797), (149, 23830), (150, 23839), (153, 23893), (159, 23953), (161, 24001), (166, 24034), (169, 24079), (170, 24091), (172, 24100), (186, 24244), (187, 24295), (188, 24298), (191, 24331), (193, 24373), (195, 24388), (198, 24412), (201, 24430), (202, 24439), (206, 24499), (211, 24538), (212, 24544), (214, 24550), (217, 24556), (218, 24559), (222, 24577), (225, 24589), (227, 24607), (233, 24679), (237, 24712), (238, 24727), (241, 24766), (245, 24829), (253, 24886), (272, 25093), (285, 25192), (291, 25216), (296, 25243), (297, 25246), (298, 25249), (307, 25324), (309, 25333), (313, 25378), (314, 25387), (316, 25399), (325, 25465), (330, 25519), (337, 25573), (345, 25642), (353, 25672), (360, 25753), (361, 25771), (364, 25789), (367, 25822), (369, 25852), (393, 26062), (397, 26122), (400, 26167), (401, 26170), (405, 26233), (414, 26344), (415, 26362), (417, 26461), (418, 26464), (419, 26470), (420, 26476), (427, 26596), (439, 26869), (441, 26926), (442, 26950), (448, 26977), (475, 27400), (487, 27484), (494, 27547), (497, 27562), (502, 27589), (508, 27616), (509, 27619),

Gene: CoveyB_31 Start: 19906, Stop: 25437, Start Num: 1

Candidate Starts for CoveyB_31:

(Start: 1 @19906 has 32 MA's), (3, 19993), (4, 20080), (6, 20113), (7, 20137), (13, 20260), (14, 20281), (15, 20287), (16, 20311), (20, 20341), (26, 20380), (33, 20464), (41, 20500), (44, 20524), (49, 20563), (103, 20953), (119, 21121), (122, 21181), (127, 21253), (128, 21265), (131, 21301), (133, 21325), (141, 21424), (142, 21427), (144, 21457), (146, 21532), (147, 21544), (150, 21586), (152, 21616), (156, 21667), (168, 21808), (169, 21826), (170, 21838), (172, 21847), (183, 21949), (185, 21970), (186, 21991), (187, 22042), (188, 22045), (189, 22051), (194, 22129), (198, 22159), (201, 22177), (206, 22246), (209, 22279), (211, 22285), (213, 22294), (216, 22300), (227, 22354), (230, 22399), (233, 22426), (234, 22435), (236, 22456), (241, 22513), (243, 22549), (251, 22630), (253, 22633), (258, 22702), (265, 22774), (276, 22870), (284, 22936), (285, 22939), (291, 22963), (296, 22990), (297, 22993), (298, 22996), (299, 23002), (307, 23071), (309, 23080), (313, 23125), (314, 23134), (325, 23212), (330, 23266), (337, 23320), (343, 23377), (353, 23419), (357, 23455), (361, 23518), (367, 23569), (380, 23680), (386, 23719), (390, 23800), (403, 23974), (404, 23977), (407, 24010), (417, 24217), (419, 24226), (420, 24232), (436, 24544), (449, 24751), (455, 24889), (466, 25039), (473, 25150), (482, 25195), (483, 25204), (487, 25246), (499, 25339), (502, 25351), (509, 25381), (511, 25414), (514, 25426),

Gene: Danyall_31 Start: 19906, Stop: 25437, Start Num: 1

Candidate Starts for Danyall_31:

(Start: 1 @19906 has 32 MA's), (3, 19993), (4, 20080), (6, 20113), (7, 20137), (13, 20260), (14, 20281), (15, 20287), (16, 20311), (20, 20341), (26, 20380), (33, 20464), (41, 20500), (44, 20524), (49, 20563), (103, 20953), (119, 21121), (122, 21181), (127, 21253), (128, 21265), (131, 21301), (133, 21325), (141, 21424), (142, 21427), (144, 21457), (146, 21532), (147, 21544), (150, 21586), (152, 21616), (156, 21667), (168, 21808), (169, 21826), (170, 21838), (172, 21847), (183, 21949), (185, 21970), (186, 21991), (187, 22042), (188, 22045), (189, 22051), (194, 22129), (198, 22159), (201, 22177), (206, 22246), (209, 22279), (211, 22285), (213, 22294), (216, 22300), (227, 22354), (230, 22399), (233, 22426), (234, 22435), (236, 22456), (241, 22513), (243, 22549), (251, 22630), (253, 22633), (258, 22702), (265, 22774), (276, 22870), (284, 22936), (285, 22939), (291, 22963), (296, 22990), (297, 22993), (298, 22996), (299, 23002), (307, 23071), (309, 23080), (313, 23125), (314, 23134), (325, 23212), (330, 23266), (337, 23320), (343, 23377), (353, 23419), (357, 23455), (361, 23518), (367, 23569), (380, 23680), (386, 23719), (390, 23800), (403, 23974), (404, 23977), (407, 24010), (417, 24217), (419, 24226), (420, 24232), (436, 24544), (449, 24751), (455, 24889), (466, 25039), (473, 25150), (482, 25195), (483, 25204), (484, 25210), (487, 25246), (499, 25339), (502, 25351), (509, 25381), (511, 25414), (514, 25426),

Gene: Delrey21_32 Start: 25053, Stop: 29963, Start Num: 11

Candidate Starts for Delrey21_32:

(Start: 11 @25053 has 69 MA's), (22, 25173), (23, 25185), (26, 25206), (27, 25227), (29, 25251), (37, 25317), (38, 25326), (39, 25329), (50, 25431), (54, 25500), (56, 25509), (76, 25617), (80, 25638), (83, 25680), (85, 25686), (95, 25743), (97, 25752), (106, 25815), (114, 25914), (117, 25926), (121, 25968), (124, 26049), (126, 26073), (128, 26103), (132, 26160), (134, 26163), (135, 26169), (137, 26181), (140, 26253), (144, 26292), (145, 26328), (146, 26367), (147, 26379), (150, 26421), (152, 26451), (159, 26535), (160, 26568), (169, 26661), (172, 26682), (176, 26697), (183, 26784), (186, 26826), (188, 26880), (189, 26886), (191, 26913), (200, 27000), (201, 27012), (202, 27021), (206, 27081), (207, 27093), (211, 27120), (223, 27162), (224, 27168), (226, 27183), (227, 27189), (230, 27234), (233, 27261), (234, 27270), (235, 27273), (245, 27411), (251, 27465), (253, 27468), (268, 27555), (293, 27657), (303, 27702), (304, 27705), (315, 27795), (352, 28071), (354, 28086), (355, 28089), (366, 28212), (368, 28236), (373, 28299), (384, 28356), (393, 28473), (395, 28515), (397, 28533), (405, 28644), (412, 28746), (418, 28878), (419, 28884), (420, 28890), (422, 28911), (425, 28953), (435, 29172), (436, 29199), (439, 29271), (440, 29310), (456, 29517), (460, 29583), (461, 29589), (469, 29655), (476, 29751), (484, 29790), (488, 29853), (489, 29856), (491, 29874), (493, 29889), (498, 29916), (500, 29928),

Gene: Derg_28 Start: 23486, Stop: 28501, Start Num: 11

Candidate Starts for Derg_28:

(Start: 11 @23486 has 69 MA's), (17, 23561), (22, 23606), (27, 23660), (29, 23684), (32, 23726), (34, 23744), (38, 23759), (45, 23831), (49, 23858), (54, 23933), (56, 23942), (63, 23999), (64, 24017), (65, 24023), (68, 24041), (74, 24068), (100, 24224), (106, 24275), (108, 24287), (111, 24335), (122, 24476), (124, 24509), (127, 24551), (134, 24623), (136, 24638), (137, 24641), (144, 24752), (145, 24788), (147, 24839), (150, 24881), (152, 24911), (156, 24962), (159, 24995), (160, 25028), (161, 25040), (169, 25121), (175, 25154), (176, 25157), (180, 25214), (184, 25250), (185, 25265), (186, 25286), (187, 25337), (201, 25472), (206, 25541), (211, 25580), (212, 25586), (215, 25595), (223, 25622), (227, 25649), (229, 25670), (232, 25706), (234, 25730), (235, 25733), (238, 25769), (241, 25808), (247, 25898), (253, 25928), (261, 25976), (264, 25982), (281, 26105), (282, 26108), (283, 26114), (296, 26171), (300, 26183), (304, 26210), (310, 26243), (311, 26249), (316, 26306), (323, 26360), (329, 26423), (344, 26534), (350, 26561), (351, 26567), (361, 26669), (368, 26735), (385, 26867), (387, 26894), (393, 26975), (397, 27035), (400, 27080), (417, 27386), (419, 27395), (422, 27422), (426, 27491), (438, 27719), (450, 27863), (453, 27932), (454, 27938), (455, 27944), (459, 28019), (462, 28049), (473, 28187), (484, 28247), (487, 28283), (490, 28328), (495, 28355), (502, 28394), (503, 28400), (506, 28406), (510, 28433), (513, 28469), (515, 28481),

Gene: Dextert_31 Start: 21862, Stop: 26988, Start Num: 11

Candidate Starts for Dextert_31:

(Start: 11 @21862 has 69 MA's), (27, 22036), (30, 22069), (36, 22126), (38, 22135), (39, 22138), (45, 22207), (46, 22219), (49, 22234), (51, 22270), (54, 22309), (55, 22315), (57, 22321), (62, 22354), (67, 22396), (69, 22405), (71, 22414), (72, 22420), (79, 22447), (85, 22498), (88, 22516), (104, 22612), (106, 22627), (110, 22672), (116, 22720), (127, 22891), (134, 22963), (137, 22981), (141, 23059), (144, 23092), (145, 23128), (146, 23167), (147, 23179), (152, 23251), (156, 23302), (158, 23323), (159, 23335), (163, 23386), (165, 23416), (172, 23482), (183, 23584), (186, 23626), (188, 23680), (190, 23710), (191, 23713), (194, 23764), (197, 23791), (201, 23812), (205, 23878), (209, 23914), (211, 23920), (222, 23959), (223, 23962), (226, 23983), (227, 23989), (229, 24010), (233, 24061), (237, 24094), (238, 24109), (240, 24133), (262, 24343), (263, 24346), (279, 24451), (280, 24469), (290, 24499), (301, 24550), (310, 24607), (317, 24682), (318, 24691), (319, 24700), (320, 24706), (327, 24757), (331, 24790), (332, 24802), (335, 24823), (336, 24835), (339, 24868), (342, 24889), (359, 25021), (365, 25075), (388, 25282), (396, 25396), (398, 25408), (407, 25534), (410, 25552), (413, 25630), (422, 25819), (424, 25849), (434, 26047), (444, 26254), (445, 26257), (447, 26275), (464, 26524), (467, 26542), (468, 26554), (479, 26680), (496, 26836), (497, 26839), (505, 26881), (507, 26899), (510, 26914), (512, 26953),

Gene: DoctorFroggo_32 Start: 25053, Stop: 29963, Start Num: 11

Candidate Starts for DoctorFroggo_32:

(Start: 11 @25053 has 69 MA's), (22, 25173), (23, 25185), (26, 25206), (27, 25227), (29, 25251), (37, 25317), (38, 25326), (39, 25329), (50, 25431), (54, 25500), (56, 25509), (76, 25617), (80, 25638), (83, 25680), (85, 25686), (95, 25743), (97, 25752), (106, 25815), (114, 25914), (117, 25926), (121, 25968), (124, 26049), (126, 26073), (128, 26103), (132, 26160), (134, 26163), (135, 26169), (137, 26181), (140, 26253), (144, 26292), (145, 26328), (146, 26367), (147, 26379), (150, 26421), (152, 26451), (159, 26535), (160, 26568), (169, 26661), (172, 26682), (176, 26697), (183, 26784), (186, 26826), (188, 26880), (189, 26886), (191, 26913), (200, 27000), (201, 27012), (202, 27021), (206, 27081), (207, 27093), (211, 27120), (223, 27162), (224, 27168), (226, 27183), (227, 27189), (230, 27234), (233, 27261), (234, 27270), (235, 27273), (245, 27411), (251, 27465), (253, 27468), (268, 27555), (293, 27657), (303, 27702), (304, 27705), (315, 27795), (352, 28071), (354, 28086), (355, 28089), (366, 28212), (368, 28236), (373, 28299), (384, 28356), (393, 28473), (395, 28515), (397, 28533), (405, 28644), (412, 28746), (418, 28878), (419, 28884), (420, 28890), (422, 28911), (425, 28953), (435, 29172), (436, 29199), (439, 29271), (440, 29310), (456, 29517), (460, 29583), (461, 29589), (469, 29655), (476, 29751), (484, 29790), (488, 29853), (489, 29856), (491, 29874), (493, 29889), (498, 29916), (500, 29928),

Gene: EMoore_29 Start: 23379, Stop: 28523, Start Num: 12

Candidate Starts for EMoore_29:

(Start: 12 @23379 has 9 MA's), (22, 23499), (27, 23553), (29, 23577), (32, 23619), (38, 23652), (39, 23655), (49, 23751), (54, 23826), (55, 23832), (57, 23838), (62, 23871), (67, 23913), (72, 23937), (76, 23946), (81, 23976), (88, 24033), (95, 24072), (97, 24081), (98, 24084), (106, 24144), (107, 24147), (113, 24222), (114, 24231), (124, 24366), (125, 24375), (129, 24432), (135, 24486), (137, 24498), (141, 24576), (144, 24609), (145, 24645), (146, 24684), (147, 24696), (151, 24744), (152, 24768), (159, 24852), (162, 24900), (163, 24903), (170, 24990), (173, 25002), (181, 25089), (186, 25143), (188, 25197), (189, 25203), (191, 25230), (194, 25281), (201, 25329), (202, 25338), (206, 25398), (207, 25410), (209, 25431), (211, 25437), (212, 25443), (213, 25446), (214, 25449), (222, 25476), (227, 25506), (230, 25551), (233, 25578), (235, 25590), (237, 25611), (238, 25626), (241, 25665), (249, 25785), (252, 25839), (259, 25914), (260, 25926), (266, 25989), (270, 26034), (273, 26055), (278, 26100), (280, 26142), (281, 26145), (286, 26169), (287, 26187), (288, 26199), (292, 26220), (295, 26232), (298, 26250), (300, 26277), (301, 26280), (312, 26364), (319, 26430), (325, 26463), (328, 26505), (330, 26517), (341, 26616), (346, 26646), (352, 26673), (357, 26709), (371, 26865), (372, 26868), (377, 26922), (384, 26946), (392, 27054), (393, 27063), (397, 27123), (399, 27153), (400, 27168), (405, 27234), (411, 27270), (418, 27465), (419, 27471), (422, 27498), (424, 27534), (439, 27861), (440, 27900), (458, 28137), (469, 28215), (476, 28311), (491, 28434), (498, 28476), (500, 28488),

Gene: EdmundFerry_29 Start: 21457, Stop: 26574, Start Num: 11

Candidate Starts for EdmundFerry_29:

(Start: 11 @21457 has 69 MA's), (22, 21577), (27, 21631), (30, 21664), (36, 21721), (38, 21730), (39, 21733), (45, 21802), (46, 21814), (49, 21829), (51, 21865), (54, 21904), (55, 21910), (57, 21916), (62, 21949), (67, 21991), (69, 22000), (71, 22009), (72, 22015), (85, 22093), (88, 22111), (95, 22150), (104, 22207), (106, 22222), (116, 22315), (127, 22486), (134, 22558), (137, 22576), (141, 22654), (144, 22687), (145, 22723), (146, 22762), (147, 22774), (152, 22846), (154, 22876), (156, 22897), (158, 22918), (159, 22930), (163, 22981), (165, 23011), (172, 23077), (183, 23179), (186, 23221), (188, 23275), (190, 23305), (191, 23308), (194, 23359), (197, 23386), (201, 23407), (205, 23473), (209, 23509), (211, 23515), (222, 23554), (225, 23566), (226, 23578), (227, 23584), (229, 23605), (237, 23689), (238, 23704), (240, 23728), (250, 23863), (262, 23938), (263, 23941), (279, 24046), (280, 24064), (290, 24094), (301, 24145), (310, 24202), (317, 24277), (318, 24286), (319, 24295), (320, 24301), (327, 24352), (331, 24385), (332, 24397), (335, 24418), (336, 24430), (339, 24463), (342, 24484), (359, 24616), (365, 24670), (388, 24877), (396, 24991), (398, 25003), (407, 25129), (410,

25147), (413, 25225), (422, 25414), (424, 25444), (429, 25615), (434, 25642), (444, 25849), (445, 25852), (447, 25870), (464, 26119), (467, 26137), (468, 26149), (479, 26266), (496, 26422), (497, 26425), (505, 26467), (507, 26485), (510, 26500), (512, 26539),

Gene: Egi03_29 Start: 19614, Stop: 25127, Start Num: 1

Candidate Starts for Egi03_29:

(Start: 1 @19614 has 32 MA's), (3, 19701), (4, 19788), (6, 19821), (7, 19845), (13, 19968), (14, 19989), (15, 19995), (16, 20019), (20, 20049), (26, 20088), (33, 20172), (41, 20208), (44, 20232), (49, 20271), (103, 20661), (119, 20829), (122, 20889), (127, 20961), (128, 20973), (131, 21009), (133, 21033), (141, 21132), (142, 21135), (144, 21165), (146, 21240), (147, 21252), (150, 21294), (152, 21324), (156, 21375), (168, 21516), (169, 21534), (170, 21546), (172, 21555), (183, 21657), (185, 21678), (186, 21699), (187, 21750), (188, 21753), (194, 21837), (198, 21867), (201, 21885), (206, 21954), (209, 21987), (211, 21993), (213, 22002), (216, 22008), (227, 22062), (233, 22134), (234, 22143), (236, 22164), (241, 22221), (243, 22257), (251, 22338), (253, 22341), (258, 22410), (265, 22482), (276, 22578), (284, 22644), (285, 22647), (291, 22671), (296, 22698), (297, 22701), (298, 22704), (299, 22710), (307, 22779), (309, 22788), (313, 22833), (314, 22842), (325, 22920), (330, 22974), (337, 23028), (343, 23085), (353, 23127), (357, 23163), (361, 23226), (367, 23277), (380, 23388), (386, 23427), (390, 23508), (403, 23682), (404, 23685), (407, 23718), (409, 23733), (417, 23925), (419, 23934), (420, 23940), (422, 23961), (436, 24249), (449, 24456), (452, 24546), (466, 24729), (473, 24840), (482, 24885), (483, 24894), (487, 24936), (501, 25035), (502, 25041), (509, 25071), (511, 25104), (514, 25116),

Gene: Evamon_29 Start: 19392, Stop: 24923, Start Num: 1

Candidate Starts for Evamon_29:

(Start: 1 @19392 has 32 MA's), (3, 19479), (4, 19566), (6, 19599), (7, 19623), (13, 19746), (14, 19767), (15, 19773), (16, 19797), (20, 19827), (26, 19866), (33, 19950), (41, 19986), (44, 20010), (49, 20049), (103, 20439), (119, 20607), (122, 20667), (127, 20739), (128, 20751), (131, 20787), (133, 20811), (141, 20910), (142, 20913), (144, 20943), (146, 21018), (147, 21030), (150, 21072), (152, 21102), (156, 21153), (168, 21294), (169, 21312), (170, 21324), (172, 21333), (183, 21435), (185, 21456), (186, 21477), (187, 21528), (188, 21531), (189, 21537), (194, 21615), (198, 21645), (201, 21663), (206, 21732), (209, 21765), (211, 21771), (213, 21780), (216, 21786), (227, 21840), (230, 21885), (233, 21912), (234, 21921), (236, 21942), (241, 21999), (243, 22035), (251, 22116), (253, 22119), (258, 22188), (265, 22260), (276, 22356), (284, 22422), (285, 22425), (291, 22449), (296, 22476), (297, 22479), (298, 22482), (299, 22488), (307, 22557), (309, 22566), (313, 22611), (314, 22620), (325, 22698), (330, 22752), (337, 22806), (343, 22863), (353, 22905), (357, 22941), (361, 23004), (367, 23055), (380, 23166), (386, 23205), (390, 23286), (403, 23460), (404, 23463), (407, 23496), (417, 23703), (419, 23712), (420, 23718), (436, 24030), (449, 24237), (455, 24375), (466, 24525), (473, 24636), (482, 24681), (483, 24690), (484, 24696), (487, 24732), (499, 24825), (502, 24837), (509, 24867), (511, 24900), (514, 24912),

Gene: Fireball_30 Start: 19524, Stop: 25058, Start Num: 1

Candidate Starts for Fireball_30:

(Start: 1 @19524 has 32 MA's), (3, 19611), (4, 19698), (6, 19731), (7, 19755), (13, 19878), (14, 19899), (15, 19905), (16, 19929), (19, 19938), (20, 19959), (26, 19998), (33, 20082), (41, 20118), (44, 20142), (49, 20181), (103, 20571), (119, 20739), (122, 20799), (127, 20871), (128, 20883), (131, 20919), (133, 20943), (141, 21042), (142, 21045), (144, 21075), (146, 21150), (147, 21162), (150, 21204), (152, 21234), (156, 21285), (168, 21426), (169, 21444), (170, 21456), (172, 21465), (183, 21567), (185, 21588), (186, 21609), (187, 21660), (188, 21663), (194, 21747), (198, 21777), (201, 21795), (206, 21864), (209, 21897), (211, 21903), (213, 21912), (216, 21918), (227, 21972), (233, 22044), (234, 22053), (236, 22074), (241, 22131), (243, 22167), (251, 22248), (253, 22251), (258, 22320), (265, 22392), (276, 22488), (284, 22554), (285, 22557), (291, 22581), (296, 22608), (297, 22611), (298, 22614), (299, 22620), (307, 22689), (309, 22698), (313, 22743), (314, 22752), (325, 22830), (338, 22959), (340, 22974), (346, 23016), (353, 23058), (356, 23076), (357, 23094), (361, 23157), (367,

23208), (380, 23319), (386, 23358), (390, 23439), (403, 23613), (404, 23616), (407, 23649), (409, 23664), (417, 23856), (419, 23865), (420, 23871), (427, 23985), (431, 24105), (440, 24285), (455, 24510), (466, 24660), (482, 24816), (483, 24825), (487, 24867), (501, 24966), (502, 24972), (509, 25002), (511, 25035), (514, 25047),

Gene: Fitzgerald_31 Start: 25116, Stop: 29930, Start Num: 11

Candidate Starts for Fitzgerald_31:

(Start: 11 @25116 has 69 MA's), (27, 25290), (29, 25314), (58, 25452), (68, 25491), (70, 25497), (73, 25509), (77, 25527), (81, 25539), (82, 25566), (86, 25584), (89, 25596), (91, 25602), (106, 25695), (118, 25815), (119, 25836), (122, 25896), (124, 25929), (127, 25971), (130, 26007), (134, 26043), (136, 26058), (137, 26061), (144, 26172), (145, 26208), (147, 26259), (150, 26301), (152, 26331), (156, 26382), (159, 26415), (160, 26448), (161, 26460), (169, 26541), (172, 26562), (175, 26574), (184, 26670), (185, 26685), (186, 26706), (187, 26757), (189, 26766), (201, 26892), (202, 26901), (206, 26961), (212, 27006), (215, 27015), (223, 27042), (227, 27069), (229, 27090), (232, 27126), (239, 27192), (241, 27228), (246, 27315), (247, 27318), (251, 27345), (261, 27396), (264, 27402), (282, 27528), (304, 27630), (310, 27663), (316, 27726), (323, 27780), (329, 27843), (344, 27954), (350, 27981), (351, 27987), (361, 28089), (363, 28101), (368, 28155), (371, 28182), (375, 28209), (379, 28248), (382, 28272), (385, 28287), (387, 28314), (392, 28386), (393, 28395), (397, 28455), (400, 28500), (414, 28689), (419, 28815), (420, 28821), (421, 28839), (428, 28935), (432, 29040), (438, 29139), (450, 29283), (453, 29358), (459, 29445), (495, 29784), (502, 29823), (503, 29829), (506, 29835), (510, 29862), (513, 29898), (515, 29910),

Gene: Flatwoods_33 Start: 23847, Stop: 28862, Start Num: 11

Candidate Starts for Flatwoods_33:

(Start: 11 @23847 has 69 MA's), (17, 23922), (22, 23967), (27, 24021), (29, 24045), (32, 24087), (34, 24105), (38, 24120), (45, 24192), (49, 24219), (54, 24294), (56, 24303), (62, 24339), (63, 24360), (64, 24378), (65, 24384), (68, 24402), (74, 24429), (106, 24636), (108, 24648), (111, 24696), (122, 24837), (124, 24870), (127, 24912), (134, 24984), (136, 24999), (137, 25002), (144, 25113), (145, 25149), (147, 25200), (150, 25242), (152, 25272), (156, 25323), (159, 25356), (160, 25389), (161, 25401), (169, 25482), (175, 25515), (176, 25518), (180, 25575), (184, 25611), (185, 25626), (186, 25647), (187, 25698), (201, 25833), (206, 25902), (211, 25941), (212, 25947), (215, 25956), (223, 25983), (227, 26010), (229, 26031), (232, 26067), (234, 26091), (235, 26094), (238, 26130), (241, 26169), (247, 26259), (253, 26289), (261, 26337), (264, 26343), (281, 26466), (282, 26469), (283, 26475), (296, 26532), (300, 26544), (304, 26571), (310, 26604), (311, 26610), (316, 26667), (323, 26721), (329, 26784), (344, 26895), (350, 26922), (351, 26928), (361, 27030), (368, 27096), (385, 27228), (387, 27255), (393, 27336), (397, 27396), (400, 27441), (417, 27747), (419, 27756), (422, 27783), (426, 27852), (432, 27981), (438, 28080), (450, 28224), (453, 28293), (454, 28299), (455, 28305), (459, 28380), (462, 28410), (473, 28548), (484, 28608), (487, 28644), (490, 28689), (495, 28716), (502, 28755), (503, 28761), (506, 28767), (510, 28794), (513, 28830), (515, 28842),

Gene: Fosterous_31 Start: 24949, Stop: 29772, Start Num: 11

Candidate Starts for Fosterous_31:

(Start: 11 @24949 has 69 MA's), (27, 25123), (29, 25147), (58, 25285), (67, 25318), (70, 25330), (73, 25342), (77, 25360), (81, 25372), (86, 25417), (106, 25528), (119, 25669), (122, 25729), (124, 25762), (127, 25804), (130, 25840), (134, 25876), (136, 25891), (137, 25894), (144, 26005), (145, 26041), (147, 26092), (150, 26134), (152, 26164), (156, 26215), (159, 26248), (160, 26281), (161, 26293), (169, 26374), (175, 26407), (184, 26503), (185, 26518), (186, 26539), (187, 26590), (189, 26599), (194, 26677), (201, 26725), (202, 26734), (206, 26794), (211, 26833), (212, 26839), (215, 26848), (223, 26875), (227, 26902), (229, 26923), (232, 26959), (239, 27025), (240, 27046), (241, 27061), (246, 27148), (247, 27151), (261, 27229), (273, 27289), (282, 27361), (304, 27463), (310, 27496), (316, 27559), (323, 27613), (329, 27676), (344, 27787), (350, 27814), (351, 27820), (361, 27922), (363, 27934), (368, 27988), (371, 28015), (375, 28042), (379, 28081), (382, 28105), (385, 28120), (387, 28147), (392, 28219), (393, 28228), (397, 28288), (400, 28333), (419, 28648), (420, 28654),

(421, 28672), (428, 28768), (432, 28873), (438, 28972), (450, 29116), (453, 29191), (455, 29203), (459, 29287), (495, 29626), (502, 29665), (503, 29671), (506, 29677), (510, 29704), (513, 29740), (515, 29752),

Gene: FuegoCuervo_35 Start: 23500, Stop: 28317, Start Num: 11

Candidate Starts for FuegoCuervo_35:

(Start: 11 @23500 has 69 MA's), (27, 23674), (29, 23698), (58, 23836), (67, 23869), (70, 23881), (73, 23893), (77, 23911), (81, 23923), (86, 23968), (89, 23980), (106, 24079), (118, 24199), (119, 24220), (122, 24280), (124, 24313), (127, 24355), (130, 24391), (134, 24427), (136, 24442), (137, 24445), (144, 24556), (145, 24592), (147, 24643), (150, 24685), (152, 24715), (156, 24766), (159, 24799), (160, 24832), (161, 24844), (169, 24925), (172, 24946), (175, 24958), (184, 25054), (185, 25069), (186, 25090), (187, 25141), (189, 25150), (194, 25228), (201, 25276), (202, 25285), (206, 25345), (212, 25390), (215, 25399), (223, 25426), (227, 25453), (229, 25474), (232, 25510), (239, 25576), (241, 25612), (246, 25699), (247, 25702), (248, 25711), (251, 25729), (261, 25780), (264, 25786), (282, 25912), (300, 25987), (304, 26014), (310, 26047), (316, 26110), (323, 26164), (329, 26227), (344, 26338), (350, 26365), (351, 26371), (361, 26473), (363, 26485), (368, 26539), (371, 26566), (375, 26593), (379, 26632), (382, 26656), (385, 26671), (387, 26698), (392, 26770), (393, 26779), (397, 26839), (400, 26884), (414, 27073), (419, 27202), (420, 27208), (421, 27226), (428, 27322), (432, 27427), (438, 27526), (450, 27670), (453, 27745), (455, 27757), (459, 27832), (495, 28171), (502, 28210), (503, 28216), (506, 28222), (510, 28249), (513, 28285), (515, 28297),

Gene: Fugax_31 Start: 20106, Stop: 25637, Start Num: 1

Candidate Starts for Fugax_31:

(Start: 1 @20106 has 32 MA's), (3, 20193), (4, 20280), (6, 20313), (7, 20337), (13, 20460), (14, 20481), (15, 20487), (16, 20511), (20, 20541), (26, 20580), (33, 20664), (41, 20700), (44, 20724), (49, 20763), (103, 21153), (119, 21321), (122, 21381), (127, 21453), (128, 21465), (131, 21501), (133, 21525), (141, 21624), (142, 21627), (144, 21657), (146, 21732), (147, 21744), (150, 21786), (152, 21816), (156, 21867), (168, 22008), (169, 22026), (170, 22038), (172, 22047), (183, 22149), (185, 22170), (186, 22191), (187, 22242), (188, 22245), (189, 22251), (194, 22329), (198, 22359), (201, 22377), (206, 22446), (209, 22479), (211, 22485), (213, 22494), (216, 22500), (227, 22554), (230, 22599), (233, 22626), (234, 22635), (236, 22656), (241, 22713), (243, 22749), (251, 22830), (253, 22833), (258, 22902), (265, 22974), (276, 23070), (284, 23136), (285, 23139), (291, 23163), (296, 23190), (297, 23193), (298, 23196), (299, 23202), (307, 23271), (309, 23280), (313, 23325), (314, 23334), (325, 23412), (330, 23466), (337, 23520), (343, 23577), (353, 23619), (357, 23655), (361, 23718), (367, 23769), (380, 23880), (386, 23919), (390, 24000), (403, 24174), (404, 24177), (407, 24210), (417, 24417), (419, 24426), (420, 24432), (436, 24744), (449, 24951), (455, 25089), (466, 25239), (473, 25350), (482, 25395), (483, 25404), (484, 25410), (487, 25446), (499, 25539), (502, 25551), (509, 25581), (511, 25614), (514, 25626),

Gene: GTE6_30 Start: 21946, Stop: 27066, Start Num: 11

Candidate Starts for GTE6_30:

(Start: 11 @21946 has 69 MA's), (22, 22066), (27, 22120), (30, 22153), (36, 22210), (38, 22219), (39, 22222), (45, 22291), (46, 22303), (49, 22318), (51, 22354), (54, 22393), (55, 22399), (57, 22405), (62, 22438), (67, 22480), (69, 22489), (71, 22498), (72, 22504), (85, 22582), (88, 22600), (95, 22639), (104, 22696), (106, 22711), (127, 22975), (134, 23047), (137, 23065), (141, 23143), (144, 23176), (145, 23212), (146, 23251), (147, 23263), (152, 23335), (153, 23359), (154, 23365), (156, 23386), (158, 23407), (159, 23419), (163, 23470), (165, 23500), (172, 23566), (183, 23668), (186, 23710), (188, 23764), (190, 23794), (191, 23797), (194, 23848), (197, 23875), (201, 23896), (205, 23962), (209, 23998), (211, 24004), (221, 24034), (222, 24043), (225, 24055), (226, 24067), (227, 24073), (229, 24094), (233, 24145), (237, 24178), (238, 24193), (240, 24217), (250, 24352), (262, 24427), (263, 24430), (279, 24535), (280, 24553), (290, 24583), (301, 24634), (310, 24691), (317, 24766), (318, 24775), (319, 24784), (320, 24790), (326, 24832), (327, 24841), (331, 24874), (332, 24886), (335, 24907), (336, 24919), (339, 24952), (342, 24973), (359, 25105), (365, 25159), (388, 25366), (396,

25480), (398, 25492), (402, 25570), (407, 25618), (410, 25636), (413, 25714), (422, 25903), (424, 25933), (429, 26104), (434, 26131), (444, 26338), (445, 26341), (447, 26359), (464, 26608), (467, 26626), (468, 26638), (479, 26758), (496, 26914), (497, 26917), (505, 26959), (507, 26977), (510, 26992), (512, 27031),

Gene: Gaea_32 Start: 23498, Stop: 28510, Start Num: 11

Candidate Starts for Gaea_32:

(Start: 11 @23498 has 69 MA's), (17, 23573), (22, 23618), (27, 23672), (29, 23696), (32, 23738), (34, 23756), (38, 23771), (45, 23843), (49, 23870), (54, 23945), (56, 23954), (63, 24011), (64, 24029), (65, 24035), (106, 24287), (108, 24299), (111, 24347), (122, 24488), (124, 24521), (127, 24563), (134, 24635), (136, 24650), (137, 24653), (144, 24764), (145, 24800), (147, 24851), (150, 24893), (152, 24923), (156, 24974), (159, 25007), (160, 25040), (161, 25052), (169, 25133), (175, 25166), (176, 25169), (180, 25226), (184, 25262), (185, 25277), (186, 25298), (187, 25349), (201, 25484), (202, 25493), (209, 25586), (211, 25592), (212, 25598), (215, 25607), (222, 25631), (225, 25643), (227, 25661), (232, 25718), (241, 25820), (244, 25862), (247, 25910), (253, 25940), (261, 25988), (264, 25994), (282, 26120), (296, 26183), (300, 26195), (302, 26216), (304, 26222), (310, 26255), (316, 26318), (323, 26372), (344, 26546), (350, 26573), (351, 26579), (361, 26681), (368, 26747), (385, 26879), (387, 26906), (393, 26987), (397, 27047), (400, 27092), (417, 27398), (419, 27407), (422, 27434), (438, 27728), (450, 27872), (453, 27941), (454, 27947), (455, 27953), (459, 28028), (462, 28058), (473, 28196), (484, 28256), (487, 28292), (490, 28337), (495, 28364), (502, 28403), (503, 28409), (506, 28415), (510, 28442), (513, 28478), (515, 28490),

Gene: Galadriel_33 Start: 25438, Stop: 30261, Start Num: 11

Candidate Starts for Galadriel_33:

(Start: 11 @25438 has 69 MA's), (27, 25612), (29, 25636), (58, 25774), (70, 25819), (73, 25831), (77, 25849), (81, 25861), (82, 25888), (86, 25906), (89, 25918), (106, 26017), (118, 26137), (119, 26158), (122, 26218), (124, 26251), (127, 26293), (130, 26329), (134, 26365), (136, 26380), (137, 26383), (144, 26494), (145, 26530), (147, 26581), (150, 26623), (152, 26653), (156, 26704), (159, 26737), (160, 26770), (161, 26782), (169, 26863), (171, 26881), (172, 26884), (175, 26896), (184, 26992), (185, 27007), (186, 27028), (187, 27079), (189, 27088), (194, 27166), (201, 27214), (202, 27223), (206, 27283), (212, 27328), (215, 27337), (223, 27364), (227, 27391), (229, 27412), (232, 27448), (239, 27514), (241, 27550), (246, 27637), (247, 27640), (248, 27649), (251, 27667), (261, 27718), (264, 27724), (282, 27850), (300, 27925), (304, 27952), (310, 27985), (316, 28048), (323, 28102), (329, 28165), (344, 28276), (350, 28303), (351, 28309), (361, 28411), (363, 28423), (368, 28477), (371, 28504), (375, 28531), (379, 28570), (382, 28594), (387, 28636), (392, 28708), (393, 28717), (397, 28777), (400, 28822), (419, 29137), (420, 29143), (421, 29161), (428, 29257), (432, 29362), (438, 29461), (450, 29605), (453, 29680), (455, 29692), (459, 29776), (495, 30115), (502, 30154), (503, 30160), (506, 30166), (510, 30193), (513, 30229), (515, 30241),

Gene: Geodirt_30 Start: 24421, Stop: 29247, Start Num: 11

Candidate Starts for Geodirt_30:

(Start: 11 @24421 has 69 MA's), (27, 24595), (29, 24619), (58, 24757), (68, 24796), (70, 24802), (73, 24814), (77, 24832), (81, 24844), (82, 24871), (86, 24889), (106, 25000), (118, 25120), (119, 25141), (122, 25201), (124, 25234), (127, 25276), (130, 25312), (134, 25348), (136, 25363), (137, 25366), (144, 25477), (145, 25513), (147, 25564), (150, 25606), (152, 25636), (156, 25687), (159, 25720), (160, 25753), (161, 25765), (169, 25846), (172, 25867), (175, 25879), (184, 25975), (185, 25990), (186, 26011), (187, 26062), (189, 26071), (194, 26149), (201, 26197), (202, 26206), (206, 26266), (212, 26311), (215, 26320), (223, 26347), (227, 26374), (229, 26395), (232, 26431), (239, 26497), (241, 26533), (246, 26620), (247, 26623), (261, 26701), (273, 26761), (282, 26833), (296, 26896), (302, 26929), (304, 26935), (306, 26944), (310, 26968), (316, 27031), (323, 27085), (329, 27148), (344, 27259), (350, 27286), (351, 27292), (361, 27394), (363, 27406), (368, 27460), (371, 27487), (375, 27514), (379, 27553), (382, 27577), (385, 27592), (387, 27619), (392, 27691), (393, 27700), (397, 27760), (400, 27805), (419, 28123), (420, 28129), (421, 28147), (428, 28243), (438, 28447),

(450, 28591), (453, 28666), (455, 28678), (459, 28762), (495, 29101), (502, 29140), (503, 29146),
(506, 29152), (510, 29179), (513, 29215), (515, 29227),

Gene: Gezellig_29 Start: 19524, Stop: 25055, Start Num: 1

Candidate Starts for Gezellig_29:

(Start: 1 @19524 has 32 MA's), (3, 19611), (4, 19698), (6, 19731), (7, 19755), (13, 19878), (14, 19899),
(15, 19905), (16, 19929), (20, 19959), (26, 19998), (33, 20082), (41, 20118), (44, 20142), (49, 20181),
(103, 20571), (119, 20739), (122, 20799), (127, 20871), (128, 20883), (131, 20919), (133, 20943),
(141, 21042), (142, 21045), (144, 21075), (146, 21150), (147, 21162), (150, 21204), (152, 21234),
(156, 21285), (168, 21426), (169, 21444), (170, 21456), (172, 21465), (183, 21567), (185, 21588),
(186, 21609), (187, 21660), (188, 21663), (189, 21669), (194, 21747), (198, 21777), (201, 21795),
(206, 21864), (209, 21897), (211, 21903), (213, 21912), (216, 21918), (227, 21972), (230, 22017),
(233, 22044), (234, 22053), (236, 22074), (241, 22131), (243, 22167), (251, 22248), (253, 22251),
(258, 22320), (265, 22392), (276, 22488), (284, 22554), (285, 22557), (291, 22581), (296, 22608),
(297, 22611), (298, 22614), (299, 22620), (307, 22689), (309, 22698), (313, 22743), (314, 22752),
(325, 22830), (330, 22884), (337, 22938), (343, 22995), (353, 23037), (357, 23073), (361, 23136),
(367, 23187), (380, 23298), (386, 23337), (390, 23418), (403, 23592), (404, 23595), (407, 23628),
(417, 23835), (419, 23844), (420, 23850), (436, 24162), (449, 24369), (455, 24507), (466, 24657),
(473, 24768), (482, 24813), (483, 24822), (484, 24828), (487, 24864), (499, 24957), (502, 24969),
(509, 24999), (511, 25032), (514, 25044),

Gene: Gustavo_32 Start: 23650, Stop: 28665, Start Num: 11

Candidate Starts for Gustavo_32:

(Start: 11 @23650 has 69 MA's), (18, 23737), (22, 23770), (27, 23824), (29, 23848), (32, 23890), (34,
23908), (38, 23923), (45, 23995), (49, 24022), (54, 24097), (56, 24106), (63, 24163), (64, 24181), (65,
24187), (68, 24205), (74, 24232), (106, 24439), (108, 24451), (111, 24499), (122, 24640), (124,
24673), (127, 24715), (134, 24787), (136, 24802), (137, 24805), (144, 24916), (145, 24952), (147,
25003), (150, 25045), (152, 25075), (154, 25105), (159, 25159), (160, 25192), (169, 25285), (175,
25318), (176, 25321), (180, 25378), (184, 25414), (185, 25429), (186, 25450), (187, 25501), (201,
25636), (202, 25645), (209, 25738), (211, 25744), (212, 25750), (215, 25759), (220, 25771), (222,
25783), (225, 25795), (227, 25813), (232, 25870), (241, 25972), (247, 26062), (253, 26092), (261,
26140), (264, 26146), (281, 26269), (282, 26272), (296, 26335), (300, 26347), (302, 26368), (304,
26374), (310, 26407), (316, 26470), (323, 26524), (344, 26698), (350, 26725), (351, 26731), (361,
26833), (368, 26899), (385, 27031), (387, 27058), (393, 27139), (397, 27199), (400, 27244), (417,
27550), (419, 27559), (422, 27586), (426, 27655), (432, 27784), (438, 27883), (450, 28027), (453,
28096), (454, 28102), (455, 28108), (459, 28183), (462, 28213), (472, 28318), (473, 28351), (484,
28411), (487, 28447), (490, 28492), (495, 28519), (502, 28558), (503, 28564), (506, 28570), (510,
28597), (513, 28633), (515, 28645),

Gene: Halo3_30 Start: 19817, Stop: 25348, Start Num: 1

Candidate Starts for Halo3_30:

(Start: 1 @19817 has 32 MA's), (3, 19904), (4, 19991), (6, 20024), (7, 20048), (13, 20171), (14, 20192),
(15, 20198), (16, 20222), (20, 20252), (26, 20291), (33, 20375), (41, 20411), (44, 20435), (49, 20474),
(103, 20864), (119, 21032), (122, 21092), (127, 21164), (128, 21176), (131, 21212), (133, 21236),
(141, 21335), (142, 21338), (144, 21368), (146, 21443), (147, 21455), (150, 21497), (152, 21527),
(156, 21578), (168, 21719), (169, 21737), (170, 21749), (172, 21758), (183, 21860), (185, 21881),
(186, 21902), (187, 21953), (188, 21956), (189, 21962), (194, 22040), (198, 22070), (201, 22088),
(206, 22157), (209, 22190), (211, 22196), (213, 22205), (216, 22211), (227, 22265), (230, 22310),
(233, 22337), (234, 22346), (236, 22367), (241, 22424), (243, 22460), (251, 22541), (253, 22544),
(258, 22613), (265, 22685), (276, 22781), (284, 22847), (285, 22850), (291, 22874), (296, 22901),
(297, 22904), (298, 22907), (299, 22913), (307, 22982), (309, 22991), (313, 23036), (314, 23045),
(325, 23123), (330, 23177), (337, 23231), (343, 23288), (353, 23330), (357, 23366), (361, 23429),
(367, 23480), (380, 23591), (386, 23630), (390, 23711), (403, 23885), (404, 23888), (407, 23921),

(417, 24128), (419, 24137), (420, 24143), (436, 24455), (449, 24662), (455, 24800), (466, 24950), (473, 25061), (482, 25106), (483, 25115), (484, 25121), (487, 25157), (499, 25250), (502, 25262), (509, 25292), (511, 25325), (514, 25337),

Gene: Hans_33 Start: 23262, Stop: 28151, Start Num: 12

Candidate Starts for Hans_33:

(Start: 12 @23262 has 9 MA's), (22, 23382), (27, 23436), (29, 23460), (38, 23535), (39, 23538), (49, 23634), (54, 23709), (55, 23715), (57, 23721), (60, 23745), (62, 23754), (71, 23814), (72, 23820), (76, 23829), (81, 23859), (88, 23916), (95, 23955), (97, 23964), (106, 24027), (107, 24030), (113, 24105), (114, 24114), (124, 24249), (125, 24258), (127, 24291), (129, 24315), (137, 24381), (139, 24444), (145, 24528), (146, 24567), (147, 24579), (151, 24627), (152, 24651), (156, 24702), (159, 24735), (163, 24786), (166, 24816), (170, 24873), (173, 24885), (176, 24897), (181, 24972), (186, 25026), (188, 25080), (191, 25113), (200, 25200), (201, 25212), (202, 25221), (206, 25281), (207, 25293), (209, 25314), (211, 25320), (212, 25326), (213, 25329), (214, 25332), (222, 25359), (223, 25362), (225, 25371), (226, 25383), (227, 25389), (230, 25434), (234, 25470), (235, 25473), (237, 25494), (245, 25611), (253, 25668), (268, 25755), (277, 25821), (300, 25878), (301, 25881), (304, 25905), (315, 25995), (321, 26043), (337, 26172), (346, 26241), (348, 26250), (352, 26271), (355, 26289), (357, 26307), (371, 26463), (372, 26466), (385, 26571), (393, 26679), (397, 26739), (399, 26769), (405, 26850), (418, 27081), (419, 27087), (423, 27135), (424, 27150), (427, 27216), (433, 27348), (439, 27477), (440, 27516), (469, 27843), (476, 27939), (491, 28062), (498, 28104), (500, 28116),

Gene: Inspectinfecti_32 Start: 23624, Stop: 28513, Start Num: 12

Candidate Starts for Inspectinfecti_32:

(Start: 12 @23624 has 9 MA's), (22, 23744), (27, 23798), (29, 23822), (38, 23897), (39, 23900), (49, 23996), (54, 24071), (55, 24077), (57, 24083), (60, 24107), (62, 24116), (71, 24176), (72, 24182), (76, 24191), (81, 24221), (88, 24278), (95, 24317), (97, 24326), (106, 24389), (107, 24392), (113, 24467), (114, 24476), (124, 24611), (125, 24620), (127, 24653), (129, 24677), (137, 24743), (139, 24806), (145, 24890), (146, 24929), (147, 24941), (151, 24989), (152, 25013), (156, 25064), (159, 25097), (163, 25148), (166, 25178), (170, 25235), (173, 25247), (176, 25259), (181, 25334), (186, 25388), (188, 25442), (189, 25448), (191, 25475), (194, 25526), (200, 25562), (201, 25574), (202, 25583), (206, 25643), (207, 25655), (211, 25682), (212, 25688), (213, 25691), (214, 25694), (222, 25721), (223, 25724), (225, 25733), (226, 25745), (227, 25751), (230, 25796), (234, 25832), (235, 25835), (237, 25856), (245, 25973), (253, 26030), (268, 26117), (277, 26183), (300, 26240), (301, 26243), (304, 26267), (315, 26357), (321, 26405), (337, 26534), (346, 26603), (348, 26612), (352, 26633), (355, 26651), (357, 26669), (371, 26825), (372, 26828), (385, 26933), (393, 27041), (397, 27101), (399, 27131), (405, 27212), (418, 27443), (419, 27449), (423, 27497), (424, 27512), (427, 27578), (433, 27710), (439, 27839), (440, 27878), (469, 28205), (476, 28301), (491, 28424), (498, 28466), (500, 28478),

Gene: JKSyngboy_30 Start: 24222, Stop: 29240, Start Num: 11

Candidate Starts for JKSyngboy_30:

(Start: 11 @24222 has 69 MA's), (17, 24297), (27, 24396), (29, 24420), (32, 24462), (34, 24480), (38, 24495), (45, 24567), (49, 24594), (56, 24678), (64, 24753), (65, 24759), (68, 24777), (106, 25011), (111, 25071), (122, 25212), (124, 25245), (127, 25287), (134, 25359), (136, 25374), (137, 25377), (144, 25488), (145, 25524), (147, 25575), (150, 25617), (152, 25647), (159, 25731), (160, 25764), (161, 25776), (169, 25857), (175, 25890), (176, 25893), (182, 25977), (184, 25986), (185, 26001), (186, 26022), (187, 26073), (194, 26160), (201, 26208), (202, 26217), (209, 26310), (211, 26316), (212, 26322), (215, 26331), (220, 26343), (222, 26355), (225, 26367), (227, 26385), (232, 26442), (241, 26544), (244, 26586), (247, 26634), (253, 26664), (261, 26712), (264, 26718), (276, 26793), (282, 26844), (283, 26850), (296, 26907), (300, 26919), (302, 26940), (304, 26946), (310, 26979), (311, 26985), (316, 27042), (323, 27096), (344, 27270), (350, 27297), (351, 27303), (361, 27405), (368, 27471), (379, 27564), (387, 27630), (392, 27702), (393, 27711), (397, 27771), (400, 27816), (417, 28119), (419, 28128), (420, 28134), (422, 28155), (428, 28254), (432, 28359), (438, 28458),

(450, 28602), (453, 28671), (454, 28677), (455, 28683), (459, 28758), (462, 28788), (473, 28926),
(484, 28986), (487, 29022), (490, 29067), (495, 29094), (502, 29133), (503, 29139), (506, 29145),
(510, 29172), (513, 29208), (515, 29220),

Gene: Jabberwocky_31 Start: 25577, Stop: 30391, Start Num: 11

Candidate Starts for Jabberwocky_31:

(Start: 11 @25577 has 69 MA's), (27, 25751), (29, 25775), (58, 25913), (70, 25958), (73, 25970), (77, 25988), (81, 26000), (82, 26027), (86, 26045), (89, 26057), (106, 26156), (118, 26276), (119, 26297),
(122, 26357), (124, 26390), (127, 26432), (130, 26468), (134, 26504), (136, 26519), (137, 26522),
(144, 26633), (145, 26669), (147, 26720), (150, 26762), (152, 26792), (156, 26843), (159, 26876),
(160, 26909), (161, 26921), (169, 27002), (172, 27023), (175, 27035), (184, 27131), (185, 27146),
(186, 27167), (187, 27218), (189, 27227), (194, 27305), (201, 27353), (202, 27362), (206, 27422),
(212, 27467), (215, 27476), (223, 27503), (227, 27530), (229, 27551), (232, 27587), (239, 27653),
(241, 27689), (246, 27776), (247, 27779), (251, 27806), (261, 27857), (264, 27863), (282, 27989),
(304, 28091), (310, 28124), (316, 28187), (323, 28241), (329, 28304), (344, 28415), (350, 28442),
(351, 28448), (361, 28550), (368, 28616), (371, 28643), (375, 28670), (379, 28709), (382, 28733),
(387, 28775), (392, 28847), (393, 28856), (397, 28916), (400, 28961), (419, 29276), (420, 29282),
(421, 29300), (428, 29396), (432, 29501), (438, 29600), (450, 29744), (453, 29819), (455, 29831),
(459, 29906), (495, 30245), (502, 30284), (503, 30290), (506, 30296), (510, 30323), (513, 30359),
(515, 30371),

Gene: Jambalaya_29 Start: 19171, Stop: 24702, Start Num: 1

Candidate Starts for Jambalaya_29:

(Start: 1 @19171 has 32 MA's), (3, 19258), (4, 19345), (6, 19378), (7, 19402), (13, 19525), (14, 19546),
(15, 19552), (16, 19576), (20, 19606), (26, 19645), (33, 19729), (41, 19765), (44, 19789), (49, 19828),
(103, 20218), (119, 20386), (122, 20446), (127, 20518), (128, 20530), (131, 20566), (133, 20590),
(141, 20689), (142, 20692), (144, 20722), (146, 20797), (147, 20809), (150, 20851), (152, 20881),
(156, 20932), (168, 21073), (169, 21091), (170, 21103), (172, 21112), (183, 21214), (185, 21235),
(186, 21256), (187, 21307), (188, 21310), (189, 21316), (194, 21394), (198, 21424), (201, 21442),
(206, 21511), (209, 21544), (211, 21550), (213, 21559), (216, 21565), (227, 21619), (230, 21664),
(233, 21691), (234, 21700), (236, 21721), (241, 21778), (243, 21814), (251, 21895), (253, 21898),
(258, 21967), (265, 22039), (276, 22135), (284, 22201), (285, 22204), (291, 22228), (296, 22255),
(297, 22258), (298, 22261), (299, 22267), (307, 22336), (309, 22345), (313, 22390), (314, 22399),
(325, 22477), (330, 22531), (337, 22585), (343, 22642), (353, 22684), (357, 22720), (361, 22783),
(367, 22834), (380, 22945), (386, 22984), (390, 23065), (403, 23239), (404, 23242), (407, 23275),
(417, 23482), (419, 23491), (420, 23497), (436, 23809), (449, 24016), (455, 24154), (466, 24304),
(473, 24415), (482, 24460), (483, 24469), (487, 24511), (499, 24604), (502, 24616), (509, 24646),
(511, 24679), (514, 24691),

Gene: Kamashten_32 Start: 25026, Stop: 29843, Start Num: 11

Candidate Starts for Kamashten_32:

(Start: 11 @25026 has 69 MA's), (27, 25200), (29, 25224), (58, 25362), (70, 25407), (73, 25419), (77, 25437), (81, 25449), (82, 25476), (86, 25494), (89, 25506), (106, 25605), (118, 25725), (119, 25746),
(122, 25806), (124, 25839), (127, 25881), (134, 25953), (136, 25968), (137, 25971), (144, 26082),
(145, 26118), (147, 26169), (150, 26211), (152, 26241), (156, 26292), (159, 26325), (160, 26358),
(161, 26370), (169, 26451), (172, 26472), (175, 26484), (184, 26580), (185, 26595), (186, 26616),
(187, 26667), (189, 26676), (194, 26754), (201, 26802), (202, 26811), (206, 26871), (212, 26916),
(215, 26925), (223, 26952), (227, 26979), (229, 27000), (232, 27036), (239, 27102), (241, 27138),
(246, 27225), (247, 27228), (248, 27237), (251, 27255), (261, 27306), (264, 27312), (282, 27438),
(300, 27513), (304, 27540), (310, 27573), (316, 27636), (323, 27690), (329, 27753), (344, 27864),
(350, 27891), (351, 27897), (361, 27999), (363, 28011), (368, 28065), (371, 28092), (375, 28119),
(379, 28158), (382, 28182), (387, 28224), (392, 28296), (393, 28305), (397, 28365), (400, 28410),
(419, 28728), (420, 28734), (421, 28752), (428, 28848), (432, 28953), (438, 29052), (450, 29196),

(453, 29271), (455, 29283), (459, 29358), (477, 29553), (495, 29697), (502, 29736), (503, 29742),
(506, 29748), (510, 29775), (513, 29811), (515, 29823),

Gene: Keitabear_33 Start: 26382, Stop: 31208, Start Num: 11

Candidate Starts for Keitabear_33:

(Start: 11 @26382 has 69 MA's), (27, 26556), (29, 26580), (58, 26718), (70, 26763), (73, 26775), (77, 26793), (81, 26805), (82, 26832), (86, 26850), (89, 26862), (106, 26961), (118, 27081), (119, 27102),
(122, 27162), (124, 27195), (127, 27237), (130, 27273), (134, 27309), (136, 27324), (137, 27327),
(144, 27438), (145, 27474), (147, 27525), (150, 27567), (152, 27597), (156, 27648), (159, 27681),
(160, 27714), (161, 27726), (169, 27807), (172, 27828), (175, 27840), (184, 27936), (185, 27951),
(186, 27972), (187, 28023), (189, 28032), (194, 28110), (201, 28158), (202, 28167), (206, 28227),
(212, 28272), (215, 28281), (223, 28308), (227, 28335), (229, 28356), (232, 28392), (239, 28458),
(241, 28494), (246, 28581), (247, 28584), (248, 28593), (251, 28611), (261, 28662), (264, 28668),
(282, 28794), (304, 28896), (310, 28929), (316, 28992), (323, 29046), (329, 29109), (344, 29220),
(350, 29247), (351, 29253), (361, 29355), (368, 29421), (371, 29448), (375, 29475), (379, 29514),
(382, 29538), (387, 29580), (392, 29652), (397, 29721), (400, 29766), (419, 30084), (420, 30090),
(421, 30108), (428, 30204), (438, 30408), (450, 30552), (453, 30627), (455, 30639), (459, 30723),
(495, 31062), (502, 31101), (503, 31107), (506, 31113), (510, 31140), (513, 31176), (515, 31188),

Gene: Kewpiedoll_32 Start: 24214, Stop: 29250, Start Num: 11

Candidate Starts for Kewpiedoll_32:

(Start: 11 @24214 has 69 MA's), (27, 24388), (29, 24412), (31, 24421), (32, 24454), (34, 24472), (38, 24487), (49, 24586), (54, 24661), (55, 24667), (56, 24670), (63, 24727), (64, 24745), (66, 24754), (68, 24769), (78, 24817), (96, 24934), (100, 24952), (101, 24964), (106, 25003), (119, 25144), (122, 25204), (124, 25237), (127, 25279), (134, 25351), (136, 25366), (137, 25369), (144, 25480), (145, 25516), (147, 25567), (150, 25609), (152, 25639), (156, 25690), (159, 25723), (160, 25756), (161, 25768), (169, 25849), (172, 25870), (175, 25882), (184, 25978), (185, 25993), (186, 26014), (187, 26065), (189, 26074), (194, 26152), (201, 26200), (202, 26209), (206, 26269), (212, 26314), (215, 26323), (223, 26350), (227, 26377), (229, 26398), (232, 26434), (239, 26500), (241, 26536), (246, 26623), (247, 26626), (261, 26704), (273, 26764), (282, 26836), (285, 26854), (296, 26899), (300, 26911), (302, 26932), (304, 26938), (306, 26947), (310, 26971), (316, 27034), (323, 27088), (329, 27151), (344, 27262), (350, 27289), (351, 27295), (361, 27397), (363, 27409), (368, 27463), (371, 27490), (375, 27517), (379, 27556), (385, 27595), (387, 27622), (392, 27694), (393, 27703), (397, 27763), (400, 27808), (414, 27997), (419, 28126), (420, 28132), (421, 28150), (428, 28246), (432, 28351), (438, 28450), (450, 28594), (453, 28669), (455, 28681), (459, 28765), (495, 29104), (502, 29143), (503, 29149), (506, 29155), (510, 29182), (513, 29218), (515, 29230),

Gene: KimmyK_31 Start: 20106, Stop: 25637, Start Num: 1

Candidate Starts for KimmyK_31:

(Start: 1 @20106 has 32 MA's), (3, 20193), (4, 20280), (6, 20313), (7, 20337), (13, 20460), (14, 20481),
(15, 20487), (16, 20511), (20, 20541), (26, 20580), (33, 20664), (41, 20700), (44, 20724), (49, 20763),
(103, 21153), (119, 21321), (122, 21381), (127, 21453), (128, 21465), (131, 21501), (133, 21525),
(141, 21624), (142, 21627), (144, 21657), (146, 21732), (147, 21744), (150, 21786), (152, 21816),
(156, 21867), (168, 22008), (169, 22026), (170, 22038), (172, 22047), (183, 22149), (185, 22170),
(186, 22191), (187, 22242), (188, 22245), (189, 22251), (194, 22329), (198, 22359), (201, 22377),
(206, 22446), (209, 22479), (211, 22485), (213, 22494), (216, 22500), (227, 22554), (230, 22599),
(233, 22626), (234, 22635), (236, 22656), (241, 22713), (243, 22749), (251, 22830), (253, 22833),
(258, 22902), (265, 22974), (276, 23070), (284, 23136), (285, 23139), (291, 23163), (296, 23190),
(297, 23193), (298, 23196), (299, 23202), (307, 23271), (309, 23280), (313, 23325), (314, 23334),
(325, 23412), (330, 23466), (337, 23520), (343, 23577), (353, 23619), (357, 23655), (361, 23718),
(367, 23769), (380, 23880), (386, 23919), (390, 24000), (403, 24174), (404, 24177), (407, 24210),
(417, 24417), (419, 24426), (420, 24432), (436, 24744), (449, 24951), (455, 25089), (466, 25239),
(473, 25350), (482, 25395), (483, 25404), (484, 25410), (487, 25446), (499, 25539), (502, 25551),

(509, 25581), (511, 25614), (514, 25626),

Gene: Kroos_33 Start: 24403, Stop: 29418, Start Num: 11

Candidate Starts for Kroos_33:

(Start: 11 @24403 has 69 MA's), (17, 24478), (22, 24523), (27, 24577), (29, 24601), (32, 24643), (34, 24661), (38, 24676), (45, 24748), (49, 24775), (54, 24850), (56, 24859), (62, 24895), (63, 24916), (64, 24934), (65, 24940), (68, 24958), (74, 24985), (106, 25192), (108, 25204), (111, 25252), (122, 25393), (124, 25426), (127, 25468), (134, 25540), (136, 25555), (137, 25558), (144, 25669), (145, 25705), (147, 25756), (150, 25798), (152, 25828), (156, 25879), (159, 25912), (160, 25945), (161, 25957), (169, 26038), (175, 26071), (176, 26074), (180, 26131), (184, 26167), (185, 26182), (186, 26203), (187, 26254), (201, 26389), (206, 26458), (211, 26497), (212, 26503), (215, 26512), (223, 26539), (227, 26566), (229, 26587), (232, 26623), (234, 26647), (235, 26650), (238, 26686), (241, 26725), (242, 26743), (244, 26767), (247, 26815), (253, 26845), (261, 26893), (264, 26899), (281, 27022), (282, 27025), (283, 27031), (296, 27088), (300, 27100), (302, 27121), (304, 27127), (310, 27160), (311, 27166), (316, 27223), (323, 27277), (329, 27340), (344, 27451), (350, 27478), (351, 27484), (361, 27586), (368, 27652), (385, 27784), (387, 27811), (393, 27892), (397, 27952), (400, 27997), (417, 28303), (419, 28312), (422, 28339), (426, 28408), (432, 28537), (438, 28636), (450, 28780), (453, 28849), (454, 28855), (455, 28861), (459, 28936), (462, 28966), (473, 29104), (484, 29164), (487, 29200), (490, 29245), (495, 29272), (502, 29311), (503, 29317), (506, 29323), (510, 29350), (513, 29386), (515, 29398),

Gene: Kwekel_30 Start: 21376, Stop: 26505, Start Num: 11

Candidate Starts for Kwekel_30:

(Start: 11 @21376 has 69 MA's), (22, 21496), (27, 21550), (30, 21583), (36, 21640), (38, 21649), (39, 21652), (46, 21733), (49, 21748), (51, 21784), (54, 21823), (55, 21829), (57, 21835), (62, 21868), (67, 21910), (69, 21919), (71, 21928), (72, 21934), (85, 22012), (88, 22030), (95, 22069), (106, 22141), (124, 22363), (127, 22405), (134, 22477), (137, 22495), (141, 22573), (144, 22606), (145, 22642), (147, 22693), (152, 22765), (153, 22789), (154, 22795), (156, 22816), (159, 22849), (163, 22900), (165, 22930), (172, 22996), (178, 23041), (183, 23098), (186, 23140), (188, 23194), (191, 23227), (197, 23305), (205, 23392), (209, 23428), (211, 23434), (221, 23464), (222, 23473), (227, 23503), (229, 23524), (233, 23575), (237, 23608), (238, 23623), (250, 23782), (262, 23857), (263, 23860), (269, 23887), (278, 23962), (279, 23965), (280, 23983), (289, 24010), (296, 24049), (304, 24088), (310, 24121), (317, 24196), (318, 24205), (319, 24214), (320, 24220), (326, 24262), (327, 24271), (331, 24304), (332, 24316), (335, 24337), (336, 24349), (339, 24382), (342, 24403), (359, 24535), (365, 24589), (388, 24796), (391, 24835), (396, 24910), (407, 25048), (410, 25066), (413, 25144), (422, 25333), (424, 25363), (429, 25534), (434, 25561), (444, 25768), (445, 25771), (447, 25789), (464, 26038), (468, 26068), (479, 26197), (497, 26356), (505, 26398), (507, 26416), (510, 26431), (512, 26470),

Gene: Kwobi_34 Start: 24389, Stop: 29404, Start Num: 11

Candidate Starts for Kwobi_34:

(Start: 11 @24389 has 69 MA's), (18, 24476), (22, 24509), (27, 24563), (29, 24587), (32, 24629), (34, 24647), (38, 24662), (45, 24734), (49, 24761), (54, 24836), (56, 24845), (63, 24902), (64, 24920), (65, 24926), (106, 25178), (111, 25238), (122, 25379), (124, 25412), (127, 25454), (134, 25526), (136, 25541), (137, 25544), (144, 25655), (145, 25691), (147, 25742), (150, 25784), (152, 25814), (154, 25844), (159, 25898), (160, 25931), (169, 26024), (175, 26057), (176, 26060), (180, 26117), (184, 26153), (185, 26168), (186, 26189), (187, 26240), (201, 26375), (202, 26384), (209, 26477), (211, 26483), (212, 26489), (215, 26498), (222, 26522), (225, 26534), (227, 26552), (232, 26609), (241, 26711), (247, 26801), (253, 26831), (261, 26879), (264, 26885), (281, 27008), (282, 27011), (283, 27017), (296, 27074), (300, 27086), (302, 27107), (304, 27113), (310, 27146), (316, 27209), (323, 27263), (329, 27326), (344, 27437), (350, 27464), (351, 27470), (361, 27572), (368, 27638), (385, 27770), (387, 27797), (393, 27878), (397, 27938), (400, 27983), (417, 28289), (419, 28298), (422, 28325), (426, 28394), (432, 28523), (438, 28622), (450, 28766), (453, 28835), (454, 28841), (455,

28847), (459, 28922), (462, 28952), (473, 29090), (484, 29150), (487, 29186), (490, 29231), (495, 29258), (502, 29297), (503, 29303), (506, 29309), (510, 29336), (513, 29372), (515, 29384),

Gene: Lennon_33 Start: 26184, Stop: 30995, Start Num: 11

Candidate Starts for Lennon_33:

(Start: 11 @26184 has 69 MA's), (27, 26358), (29, 26382), (58, 26520), (68, 26559), (70, 26565), (73, 26577), (77, 26595), (81, 26607), (82, 26634), (86, 26652), (89, 26664), (106, 26763), (118, 26883), (119, 26904), (122, 26964), (124, 26997), (127, 27039), (130, 27075), (134, 27111), (136, 27126), (137, 27129), (144, 27240), (145, 27276), (147, 27327), (150, 27369), (152, 27399), (156, 27450), (159, 27483), (160, 27516), (161, 27528), (169, 27609), (172, 27630), (175, 27642), (184, 27738), (185, 27753), (186, 27774), (187, 27825), (189, 27834), (194, 27912), (201, 27960), (202, 27969), (206, 28029), (211, 28068), (212, 28074), (215, 28083), (223, 28110), (227, 28137), (229, 28158), (232, 28194), (239, 28260), (241, 28296), (246, 28383), (247, 28386), (251, 28413), (261, 28464), (264, 28470), (282, 28596), (304, 28698), (310, 28731), (316, 28794), (323, 28848), (329, 28911), (344, 29022), (350, 29049), (351, 29055), (361, 29157), (363, 29169), (368, 29223), (371, 29250), (375, 29277), (379, 29316), (382, 29340), (387, 29382), (392, 29454), (393, 29463), (397, 29523), (400, 29568), (419, 29883), (420, 29889), (421, 29907), (428, 30003), (432, 30108), (438, 30207), (450, 30351), (453, 30414), (455, 30426), (459, 30510), (495, 30849), (502, 30888), (503, 30894), (506, 30900), (510, 30927), (513, 30963), (515, 30975),

Gene: Leonard_31 Start: 23260, Stop: 28149, Start Num: 12

Candidate Starts for Leonard_31:

(Start: 12 @23260 has 9 MA's), (22, 23380), (27, 23434), (29, 23458), (38, 23533), (39, 23536), (49, 23632), (54, 23707), (55, 23713), (57, 23719), (60, 23743), (62, 23752), (71, 23812), (72, 23818), (76, 23827), (81, 23857), (88, 23914), (95, 23953), (97, 23962), (106, 24025), (107, 24028), (113, 24103), (114, 24112), (124, 24247), (125, 24256), (127, 24289), (129, 24313), (137, 24379), (139, 24442), (145, 24526), (146, 24565), (147, 24577), (151, 24625), (152, 24649), (156, 24700), (159, 24733), (163, 24784), (166, 24814), (170, 24871), (173, 24883), (176, 24895), (181, 24970), (186, 25024), (188, 25078), (189, 25084), (191, 25111), (200, 25198), (201, 25210), (202, 25219), (206, 25279), (207, 25291), (209, 25312), (211, 25318), (212, 25324), (213, 25327), (222, 25357), (223, 25360), (225, 25369), (226, 25381), (227, 25387), (230, 25432), (234, 25468), (235, 25471), (237, 25492), (245, 25609), (253, 25666), (268, 25753), (277, 25819), (300, 25876), (301, 25879), (304, 25903), (315, 25993), (321, 26041), (337, 26170), (346, 26239), (352, 26269), (355, 26287), (371, 26461), (372, 26464), (385, 26569), (392, 26668), (393, 26677), (397, 26737), (399, 26767), (405, 26848), (418, 27079), (419, 27085), (424, 27148), (433, 27346), (439, 27475), (440, 27514), (463, 27796), (469, 27841), (471, 27868), (476, 27937), (491, 28060), (498, 28102), (500, 28114),

Gene: LilHam_30 Start: 22983, Stop: 28007, Start Num: 11

Candidate Starts for LilHam_30:

(Start: 11 @22983 has 69 MA's), (18, 23070), (22, 23103), (27, 23157), (29, 23181), (32, 23223), (34, 23241), (38, 23256), (45, 23328), (49, 23355), (54, 23430), (56, 23439), (63, 23496), (64, 23514), (65, 23520), (106, 23772), (111, 23832), (122, 23973), (124, 24006), (127, 24048), (134, 24120), (136, 24135), (137, 24138), (144, 24249), (145, 24285), (147, 24336), (150, 24378), (152, 24408), (156, 24459), (159, 24492), (160, 24525), (161, 24537), (169, 24618), (175, 24651), (176, 24654), (180, 24711), (184, 24747), (185, 24762), (186, 24783), (187, 24834), (201, 24969), (202, 24978), (209, 25071), (211, 25077), (212, 25083), (215, 25092), (220, 25104), (222, 25116), (225, 25128), (227, 25146), (232, 25203), (241, 25305), (242, 25323), (244, 25347), (247, 25395), (253, 25425), (261, 25473), (264, 25479), (281, 25602), (282, 25605), (283, 25611), (296, 25668), (300, 25680), (302, 25701), (304, 25707), (310, 25740), (316, 25803), (323, 25857), (344, 26031), (350, 26058), (351, 26064), (361, 26166), (368, 26232), (387, 26391), (393, 26472), (397, 26532), (400, 26577), (417, 26889), (419, 26898), (422, 26925), (426, 26994), (432, 27123), (438, 27222), (450, 27366), (453, 27438), (454, 27444), (455, 27450), (459, 27525), (462, 27555), (473, 27693), (484, 27753), (487, 27789), (490, 27834), (495, 27861), (502, 27900), (503, 27906), (506, 27912), (510, 27939), (513,

27975), (515, 27987),

Gene: Lilbeanie_28 Start: 18351, Stop: 23423, Start Num: 11

Candidate Starts for Lilbeanie_28:

(Start: 11 @18351 has 69 MA's), (17, 18426), (24, 18492), (27, 18525), (29, 18549), (31, 18558), (42, 18633), (47, 18663), (52, 18693), (75, 18813), (95, 18930), (99, 18948), (106, 19002), (107, 19005), (109, 19035), (114, 19089), (120, 19140), (123, 19221), (124, 19224), (135, 19347), (137, 19359), (144, 19470), (145, 19506), (146, 19545), (148, 19569), (150, 19599), (152, 19629), (159, 19713), (160, 19749), (169, 19839), (174, 19869), (177, 19902), (178, 19905), (180, 19932), (186, 20004), (187, 20055), (188, 20058), (189, 20064), (191, 20091), (192, 20112), (194, 20142), (196, 20166), (199, 20175), (209, 20292), (211, 20298), (219, 20322), (221, 20328), (225, 20349), (227, 20367), (232, 20424), (238, 20487), (241, 20526), (254, 20649), (277, 20754), (294, 20823), (309, 20898), (323, 21006), (324, 21009), (333, 21066), (338, 21108), (340, 21123), (349, 21162), (353, 21171), (359, 21231), (362, 21255), (367, 21303), (370, 21327), (385, 21408), (387, 21435), (392, 21507), (393, 21516), (396, 21567), (397, 21576), (400, 21621), (419, 21915), (422, 21942), (446, 22335), (451, 22422), (457, 22542), (480, 22785), (485, 22827), (486, 22830), (492, 22911), (504, 22974), (511, 23034), (516, 23079), (517, 23091), (518, 23118), (519, 23181), (520, 23202), (521, 23241), (522, 23265), (523, 23301), (524, 23316), (525, 23349), (526, 23376), (527, 23388),

Gene: Love_36 Start: 25948, Stop: 30777, Start Num: 11

Candidate Starts for Love_36:

(Start: 11 @25948 has 69 MA's), (27, 26122), (29, 26146), (58, 26284), (70, 26329), (73, 26341), (77, 26359), (81, 26371), (82, 26398), (86, 26416), (89, 26428), (106, 26527), (118, 26647), (119, 26668), (122, 26728), (124, 26761), (127, 26803), (130, 26839), (134, 26875), (136, 26890), (137, 26893), (144, 27004), (145, 27040), (147, 27091), (150, 27133), (152, 27163), (156, 27214), (159, 27247), (161, 27292), (169, 27373), (172, 27394), (175, 27406), (184, 27502), (185, 27517), (186, 27538), (187, 27589), (189, 27598), (201, 27724), (202, 27733), (206, 27793), (212, 27838), (215, 27847), (223, 27874), (227, 27901), (229, 27922), (232, 27958), (239, 28024), (241, 28060), (246, 28147), (247, 28150), (248, 28159), (251, 28177), (261, 28228), (264, 28234), (282, 28360), (300, 28435), (304, 28462), (310, 28495), (316, 28558), (323, 28612), (329, 28675), (344, 28786), (350, 28813), (351, 28819), (361, 28921), (363, 28933), (368, 28987), (371, 29014), (375, 29041), (379, 29080), (387, 29146), (392, 29218), (393, 29227), (397, 29287), (400, 29332), (419, 29647), (420, 29653), (421, 29671), (428, 29767), (432, 29872), (438, 29971), (450, 30115), (453, 30196), (455, 30208), (459, 30292), (470, 30382), (495, 30631), (502, 30670), (503, 30676), (506, 30682), (510, 30709), (513, 30745), (515, 30757),

Gene: McCrothy_33 Start: 25756, Stop: 30585, Start Num: 11

Candidate Starts for McCrothy_33:

(Start: 11 @25756 has 69 MA's), (27, 25930), (29, 25954), (58, 26092), (70, 26137), (73, 26149), (77, 26167), (81, 26179), (82, 26206), (86, 26224), (89, 26236), (106, 26335), (118, 26455), (119, 26476), (122, 26536), (124, 26569), (127, 26611), (130, 26647), (134, 26683), (136, 26698), (137, 26701), (144, 26812), (145, 26848), (147, 26899), (150, 26941), (152, 26971), (156, 27022), (159, 27055), (161, 27100), (169, 27181), (172, 27202), (175, 27214), (184, 27310), (185, 27325), (186, 27346), (187, 27397), (189, 27406), (201, 27532), (202, 27541), (206, 27601), (212, 27646), (215, 27655), (223, 27682), (227, 27709), (229, 27730), (232, 27766), (239, 27832), (241, 27868), (246, 27955), (247, 27958), (248, 27967), (251, 27985), (261, 28036), (264, 28042), (282, 28168), (300, 28243), (304, 28270), (310, 28303), (316, 28366), (323, 28420), (329, 28483), (344, 28594), (350, 28621), (351, 28627), (361, 28729), (363, 28741), (368, 28795), (371, 28822), (375, 28849), (379, 28888), (387, 28954), (392, 29026), (393, 29035), (397, 29095), (400, 29140), (419, 29455), (420, 29461), (421, 29479), (428, 29575), (432, 29680), (438, 29779), (450, 29923), (453, 30004), (455, 30016), (459, 30100), (470, 30190), (495, 30439), (502, 30478), (503, 30484), (506, 30490), (510, 30517), (513, 30553), (515, 30565),

Gene: McKinley_35 Start: 25980, Stop: 30803, Start Num: 11

Candidate Starts for McKinley_35:

(Start: 11 @25980 has 69 MA's), (27, 26154), (29, 26178), (58, 26316), (70, 26361), (73, 26373), (77, 26391), (81, 26403), (82, 26430), (86, 26448), (89, 26460), (106, 26559), (118, 26679), (119, 26700), (122, 26760), (124, 26793), (127, 26835), (130, 26871), (134, 26907), (136, 26922), (137, 26925), (144, 27036), (145, 27072), (147, 27123), (150, 27165), (152, 27195), (156, 27246), (159, 27279), (160, 27312), (161, 27324), (169, 27405), (172, 27426), (175, 27438), (184, 27534), (185, 27549), (186, 27570), (187, 27621), (189, 27630), (194, 27708), (201, 27756), (202, 27765), (206, 27825), (211, 27864), (212, 27870), (215, 27879), (223, 27906), (227, 27933), (229, 27954), (232, 27990), (239, 28056), (240, 28077), (241, 28092), (246, 28179), (247, 28182), (261, 28260), (273, 28320), (282, 28392), (304, 28494), (310, 28527), (316, 28590), (323, 28644), (329, 28707), (344, 28818), (350, 28845), (351, 28851), (361, 28953), (363, 28965), (368, 29019), (371, 29046), (375, 29073), (379, 29112), (382, 29136), (385, 29151), (387, 29178), (392, 29250), (393, 29259), (397, 29319), (400, 29364), (414, 29553), (419, 29682), (420, 29688), (421, 29706), (428, 29805), (432, 29910), (437, 29982), (438, 30009), (450, 30153), (453, 30222), (455, 30234), (459, 30318), (495, 30657), (502, 30696), (503, 30702), (506, 30708), (510, 30735), (513, 30771), (515, 30783),

Gene: MelBins_32 Start: 23406, Stop: 28298, Start Num: 12

Candidate Starts for MelBins_32:

(Start: 12 @23406 has 9 MA's), (22, 23526), (27, 23580), (29, 23604), (38, 23679), (39, 23682), (49, 23778), (54, 23853), (55, 23859), (57, 23865), (60, 23889), (62, 23898), (71, 23958), (72, 23964), (76, 23973), (81, 24003), (88, 24060), (95, 24099), (97, 24108), (98, 24111), (106, 24171), (107, 24174), (113, 24249), (114, 24258), (124, 24393), (125, 24402), (127, 24435), (129, 24459), (137, 24525), (139, 24588), (145, 24672), (146, 24711), (147, 24723), (151, 24771), (152, 24795), (159, 24879), (163, 24930), (166, 24960), (170, 25017), (173, 25029), (181, 25116), (186, 25170), (188, 25224), (189, 25230), (191, 25257), (200, 25344), (201, 25356), (202, 25365), (206, 25425), (207, 25437), (209, 25458), (211, 25464), (212, 25470), (213, 25473), (214, 25476), (222, 25503), (223, 25506), (225, 25515), (226, 25527), (227, 25533), (230, 25578), (234, 25614), (235, 25617), (237, 25638), (245, 25755), (253, 25812), (268, 25899), (277, 25965), (300, 26022), (301, 26025), (304, 26049), (315, 26139), (321, 26187), (337, 26316), (346, 26385), (352, 26415), (355, 26433), (357, 26451), (371, 26607), (372, 26610), (385, 26715), (392, 26814), (393, 26823), (397, 26883), (399, 26913), (405, 26994), (418, 27225), (419, 27231), (424, 27294), (430, 27471), (433, 27492), (439, 27621), (440, 27660), (469, 27990), (476, 28086), (478, 28095), (491, 28209), (498, 28251), (500, 28263),

Gene: MoontowerMania_32 Start: 24791, Stop: 29617, Start Num: 11

Candidate Starts for MoontowerMania_32:

(Start: 11 @24791 has 69 MA's), (27, 24965), (29, 24989), (58, 25127), (70, 25172), (73, 25184), (77, 25202), (81, 25214), (86, 25259), (106, 25370), (118, 25490), (119, 25511), (122, 25571), (124, 25604), (127, 25646), (134, 25718), (136, 25733), (137, 25736), (144, 25847), (145, 25883), (147, 25934), (150, 25976), (152, 26006), (156, 26057), (159, 26090), (160, 26123), (161, 26135), (169, 26216), (172, 26237), (175, 26249), (184, 26345), (185, 26360), (186, 26381), (187, 26432), (189, 26441), (194, 26519), (201, 26567), (202, 26576), (206, 26636), (212, 26681), (215, 26690), (223, 26717), (227, 26744), (229, 26765), (232, 26801), (239, 26867), (241, 26903), (246, 26990), (247, 26993), (248, 27002), (251, 27020), (261, 27071), (264, 27077), (282, 27203), (300, 27278), (304, 27305), (310, 27338), (316, 27401), (323, 27455), (329, 27518), (344, 27629), (350, 27656), (351, 27662), (361, 27764), (363, 27776), (368, 27830), (371, 27857), (375, 27884), (379, 27923), (382, 27947), (385, 27962), (387, 27989), (392, 28061), (393, 28070), (397, 28130), (400, 28175), (419, 28493), (420, 28499), (421, 28517), (428, 28613), (432, 28718), (438, 28817), (450, 28961), (453, 29036), (455, 29048), (459, 29132), (495, 29471), (502, 29510), (503, 29516), (506, 29522), (510, 29549), (513, 29585), (515, 29597),

Gene: Mutzi_31 Start: 19848, Stop: 25364, Start Num: 1

Candidate Starts for Mutzi_31:

(Start: 1 @19848 has 32 MA's), (3, 19935), (4, 20022), (6, 20055), (7, 20079), (13, 20202), (14, 20223), (15, 20229), (16, 20253), (20, 20283), (26, 20322), (33, 20406), (41, 20442), (44, 20466), (49, 20505), (87, 20793), (103, 20895), (111, 20982), (119, 21063), (122, 21123), (127, 21195), (131, 21243), (133, 21267), (141, 21366), (142, 21369), (144, 21399), (146, 21474), (147, 21486), (150, 21528), (152, 21558), (156, 21609), (159, 21642), (167, 21747), (168, 21750), (169, 21768), (170, 21780), (172, 21789), (183, 21891), (185, 21912), (186, 21933), (187, 21984), (188, 21987), (194, 22071), (196, 22095), (198, 22101), (201, 22119), (206, 22188), (209, 22221), (211, 22227), (213, 22236), (216, 22242), (227, 22296), (233, 22368), (234, 22377), (236, 22398), (241, 22455), (243, 22491), (251, 22572), (253, 22575), (257, 22629), (258, 22644), (265, 22716), (276, 22812), (284, 22878), (285, 22881), (291, 22905), (296, 22932), (297, 22935), (298, 22938), (307, 23013), (308, 23019), (309, 23022), (313, 23067), (314, 23076), (325, 23154), (330, 23208), (337, 23262), (343, 23319), (353, 23361), (361, 23460), (367, 23511), (380, 23622), (386, 23661), (390, 23742), (394, 23784), (403, 23916), (404, 23919), (406, 23949), (407, 23952), (409, 23967), (417, 24159), (419, 24168), (420, 24174), (436, 24486), (448, 24681), (449, 24693), (466, 24966), (482, 25122), (483, 25131), (484, 25137), (487, 25173), (499, 25266), (502, 25278), (509, 25308), (511, 25341), (514, 25353),

Gene: Natkenzie_33 Start: 24850, Stop: 29775, Start Num: 11

Candidate Starts for Natkenzie_33:

(Start: 11 @24850 has 69 MA's), (22, 24970), (23, 24982), (27, 25024), (29, 25048), (37, 25114), (38, 25123), (43, 25168), (45, 25195), (54, 25297), (56, 25306), (59, 25324), (69, 25390), (72, 25405), (76, 25414), (83, 25477), (85, 25483), (90, 25510), (95, 25540), (97, 25549), (104, 25597), (106, 25612), (108, 25624), (114, 25711), (117, 25723), (124, 25846), (126, 25870), (127, 25888), (134, 25960), (135, 25966), (137, 25978), (144, 26089), (145, 26125), (146, 26164), (147, 26176), (150, 26218), (152, 26248), (155, 26290), (156, 26299), (157, 26302), (159, 26332), (160, 26365), (169, 26458), (176, 26494), (180, 26551), (183, 26581), (186, 26623), (188, 26677), (189, 26683), (191, 26710), (194, 26761), (200, 26797), (201, 26809), (202, 26818), (206, 26878), (207, 26890), (209, 26911), (211, 26917), (223, 26959), (224, 26965), (226, 26980), (227, 26986), (230, 27031), (234, 27067), (235, 27070), (241, 27145), (245, 27208), (253, 27265), (267, 27346), (274, 27397), (293, 27454), (300, 27475), (301, 27478), (304, 27502), (321, 27640), (325, 27661), (352, 27868), (355, 27886), (358, 27943), (368, 28033), (373, 28096), (385, 28177), (387, 28204), (392, 28276), (393, 28285), (397, 28345), (405, 28456), (417, 28687), (419, 28696), (422, 28723), (425, 28765), (435, 28984), (436, 29011), (439, 29083), (440, 29122), (456, 29329), (461, 29401), (469, 29467), (484, 29602), (488, 29665), (489, 29668), (491, 29686), (493, 29701), (498, 29728), (500, 29740),

Gene: Nordenberg_27 Start: 24150, Stop: 28973, Start Num: 11

Candidate Starts for Nordenberg_27:

(Start: 11 @24150 has 69 MA's), (27, 24324), (29, 24348), (58, 24486), (70, 24531), (73, 24543), (77, 24561), (81, 24573), (82, 24600), (86, 24618), (89, 24630), (106, 24729), (118, 24849), (119, 24870), (122, 24930), (124, 24963), (127, 25005), (130, 25041), (134, 25077), (136, 25092), (137, 25095), (144, 25206), (145, 25242), (147, 25293), (150, 25335), (152, 25365), (156, 25416), (159, 25449), (161, 25494), (169, 25575), (175, 25608), (184, 25704), (185, 25719), (186, 25740), (187, 25791), (189, 25800), (201, 25926), (202, 25935), (206, 25995), (211, 26034), (212, 26040), (215, 26049), (223, 26076), (227, 26103), (229, 26124), (232, 26160), (239, 26226), (241, 26262), (246, 26349), (247, 26352), (248, 26361), (251, 26379), (261, 26430), (264, 26436), (282, 26562), (300, 26637), (304, 26664), (310, 26697), (316, 26760), (323, 26814), (329, 26877), (344, 26988), (350, 27015), (351, 27021), (361, 27123), (363, 27135), (368, 27189), (371, 27216), (375, 27243), (379, 27282), (387, 27348), (392, 27420), (393, 27429), (397, 27489), (400, 27534), (419, 27852), (420, 27858), (421, 27876), (428, 27969), (432, 28074), (438, 28173), (450, 28317), (453, 28392), (455, 28404), (459, 28488), (495, 28827), (502, 28866), (503, 28872), (506, 28878), (510, 28905), (513, 28941), (515, 28953),

Gene: Nubi_29 Start: 19412, Stop: 24925, Start Num: 1

Candidate Starts for Nubi_29:

(Start: 1 @19412 has 32 MA's), (3, 19499), (4, 19586), (6, 19619), (7, 19643), (13, 19766), (14, 19787), (15, 19793), (16, 19817), (20, 19847), (26, 19886), (33, 19970), (41, 20006), (44, 20030), (49, 20069), (103, 20459), (119, 20627), (122, 20687), (127, 20759), (128, 20771), (131, 20807), (133, 20831), (141, 20930), (142, 20933), (144, 20963), (146, 21038), (147, 21050), (150, 21092), (152, 21122), (156, 21173), (168, 21314), (169, 21332), (170, 21344), (172, 21353), (183, 21455), (185, 21476), (186, 21497), (187, 21548), (188, 21551), (194, 21635), (198, 21665), (201, 21683), (206, 21752), (209, 21785), (211, 21791), (213, 21800), (216, 21806), (227, 21860), (233, 21932), (236, 21962), (241, 22019), (243, 22055), (251, 22136), (253, 22139), (258, 22208), (276, 22376), (284, 22442), (285, 22445), (291, 22469), (296, 22496), (297, 22499), (298, 22502), (309, 22586), (313, 22631), (314, 22640), (321, 22697), (325, 22718), (330, 22772), (337, 22826), (343, 22883), (353, 22925), (357, 22961), (360, 23006), (361, 23024), (367, 23075), (380, 23186), (386, 23225), (390, 23306), (403, 23480), (404, 23483), (407, 23516), (417, 23720), (419, 23729), (420, 23735), (436, 24044), (449, 24251), (455, 24377), (466, 24527), (473, 24638), (482, 24683), (483, 24692), (484, 24698), (487, 24734), (499, 24827), (502, 24839), (509, 24869), (511, 24902), (514, 24914),

Gene: Paries_35 Start: 25616, Stop: 30439, Start Num: 11

Candidate Starts for Paries_35:

(Start: 11 @25616 has 69 MA's), (27, 25790), (29, 25814), (58, 25952), (67, 25985), (70, 25997), (73, 26009), (77, 26027), (81, 26039), (86, 26084), (106, 26195), (118, 26315), (119, 26336), (122, 26396), (124, 26429), (127, 26471), (130, 26507), (134, 26543), (136, 26558), (137, 26561), (144, 26672), (145, 26708), (147, 26759), (150, 26801), (152, 26831), (156, 26882), (159, 26915), (160, 26948), (161, 26960), (169, 27041), (172, 27062), (175, 27074), (184, 27170), (185, 27185), (186, 27206), (187, 27257), (189, 27266), (194, 27344), (201, 27392), (202, 27401), (206, 27461), (212, 27506), (215, 27515), (223, 27542), (227, 27569), (229, 27590), (232, 27626), (239, 27692), (241, 27728), (246, 27815), (247, 27818), (248, 27827), (251, 27845), (261, 27896), (264, 27902), (282, 28028), (300, 28103), (304, 28130), (310, 28163), (316, 28226), (323, 28280), (329, 28343), (344, 28454), (350, 28481), (351, 28487), (361, 28589), (363, 28601), (368, 28655), (371, 28682), (375, 28709), (379, 28748), (387, 28814), (392, 28886), (393, 28895), (397, 28955), (400, 29000), (419, 29315), (420, 29321), (421, 29339), (428, 29435), (432, 29540), (438, 29639), (450, 29783), (453, 29858), (455, 29870), (459, 29954), (495, 30293), (502, 30332), (503, 30338), (506, 30344), (510, 30371), (513, 30407), (515, 30419),

Gene: Phauci_24 Start: 19849, Stop: 24738, Start Num: 12

Candidate Starts for Phauci_24:

(Start: 12 @19849 has 9 MA's), (22, 19969), (27, 20023), (29, 20047), (38, 20122), (39, 20125), (49, 20221), (54, 20296), (55, 20302), (57, 20308), (60, 20332), (62, 20341), (71, 20401), (72, 20407), (76, 20416), (81, 20446), (88, 20503), (95, 20542), (97, 20551), (106, 20614), (107, 20617), (113, 20692), (114, 20701), (124, 20836), (125, 20845), (127, 20878), (129, 20902), (137, 20968), (139, 21031), (145, 21115), (146, 21154), (147, 21166), (151, 21214), (152, 21238), (156, 21289), (159, 21322), (163, 21373), (166, 21403), (170, 21460), (173, 21472), (176, 21484), (181, 21559), (186, 21613), (188, 21667), (191, 21700), (200, 21787), (201, 21799), (202, 21808), (206, 21868), (207, 21880), (209, 21901), (211, 21907), (212, 21913), (213, 21916), (214, 21919), (222, 21946), (223, 21949), (225, 21958), (226, 21970), (227, 21976), (230, 22021), (234, 22057), (235, 22060), (237, 22081), (245, 22198), (253, 22255), (268, 22342), (277, 22408), (300, 22465), (301, 22468), (304, 22492), (315, 22582), (321, 22630), (337, 22759), (346, 22828), (348, 22837), (352, 22858), (355, 22876), (357, 22894), (371, 23050), (372, 23053), (385, 23158), (393, 23266), (397, 23326), (399, 23356), (405, 23437), (418, 23668), (419, 23674), (423, 23722), (424, 23737), (427, 23803), (433, 23935), (439, 24064), (440, 24103), (469, 24430), (476, 24526), (491, 24649), (498, 24691), (500, 24703),

Gene: Phinally_31 Start: 23257, Stop: 28146, Start Num: 12

Candidate Starts for Phinally_31:

(Start: 12 @23257 has 9 MA's), (22, 23377), (27, 23431), (29, 23455), (38, 23530), (39, 23533), (49, 23629), (54, 23704), (55, 23710), (57, 23716), (60, 23740), (62, 23749), (71, 23809), (72, 23815), (76,

23824), (81, 23854), (88, 23911), (95, 23950), (97, 23959), (106, 24022), (107, 24025), (113, 24100), (114, 24109), (124, 24244), (125, 24253), (127, 24286), (129, 24310), (137, 24376), (139, 24439), (145, 24523), (146, 24562), (147, 24574), (151, 24622), (152, 24646), (156, 24697), (159, 24730), (163, 24781), (166, 24811), (170, 24868), (173, 24880), (176, 24892), (181, 24967), (186, 25021), (188, 25075), (189, 25081), (191, 25108), (200, 25195), (201, 25207), (202, 25216), (206, 25276), (207, 25288), (209, 25309), (211, 25315), (212, 25321), (213, 25324), (222, 25354), (223, 25357), (225, 25366), (226, 25378), (227, 25384), (230, 25429), (234, 25465), (235, 25468), (237, 25489), (245, 25606), (253, 25663), (268, 25750), (277, 25816), (300, 25873), (301, 25876), (304, 25900), (315, 25990), (321, 26038), (337, 26167), (346, 26236), (352, 26266), (355, 26284), (371, 26458), (372, 26461), (385, 26566), (392, 26665), (393, 26674), (397, 26734), (399, 26764), (405, 26845), (418, 27076), (419, 27082), (424, 27145), (433, 27343), (439, 27472), (440, 27511), (463, 27793), (469, 27838), (471, 27865), (476, 27934), (491, 28057), (498, 28099), (500, 28111),

Gene: Phlop_29 Start: 19476, Stop: 25007, Start Num: 1

Candidate Starts for Phlop_29:

(Start: 1 @19476 has 32 MA's), (3, 19563), (4, 19650), (6, 19683), (7, 19707), (13, 19830), (14, 19851), (15, 19857), (16, 19881), (20, 19911), (26, 19950), (33, 20034), (41, 20070), (44, 20094), (49, 20133), (103, 20523), (119, 20691), (122, 20751), (127, 20823), (128, 20835), (131, 20871), (133, 20895), (141, 20994), (142, 20997), (144, 21027), (146, 21102), (147, 21114), (150, 21156), (152, 21186), (156, 21237), (168, 21378), (169, 21396), (170, 21408), (172, 21417), (183, 21519), (185, 21540), (186, 21561), (187, 21612), (188, 21615), (189, 21621), (194, 21699), (198, 21729), (201, 21747), (206, 21816), (209, 21849), (211, 21855), (213, 21864), (216, 21870), (227, 21924), (230, 21969), (233, 21996), (234, 22005), (236, 22026), (241, 22083), (243, 22119), (251, 22200), (253, 22203), (258, 22272), (265, 22344), (276, 22440), (284, 22506), (285, 22509), (291, 22533), (296, 22560), (297, 22563), (298, 22566), (299, 22572), (307, 22641), (309, 22650), (313, 22695), (314, 22704), (325, 22782), (330, 22836), (337, 22890), (343, 22947), (353, 22989), (357, 23025), (361, 23088), (367, 23139), (380, 23250), (386, 23289), (390, 23370), (403, 23544), (404, 23547), (407, 23580), (417, 23787), (419, 23796), (420, 23802), (436, 24114), (449, 24321), (455, 24459), (466, 24609), (473, 24720), (482, 24765), (483, 24774), (484, 24780), (487, 24816), (499, 24909), (502, 24921), (509, 24951), (511, 24984), (514, 24996),

Gene: PinkCoffee_31 Start: 20115, Stop: 25646, Start Num: 1

Candidate Starts for PinkCoffee_31:

(Start: 1 @20115 has 32 MA's), (3, 20202), (4, 20289), (6, 20322), (7, 20346), (13, 20469), (14, 20490), (15, 20496), (16, 20520), (20, 20550), (26, 20589), (33, 20673), (41, 20709), (44, 20733), (49, 20772), (103, 21162), (119, 21330), (122, 21390), (127, 21462), (128, 21474), (131, 21510), (133, 21534), (141, 21633), (142, 21636), (144, 21666), (146, 21741), (147, 21753), (150, 21795), (152, 21825), (156, 21876), (168, 22017), (169, 22035), (170, 22047), (172, 22056), (183, 22158), (185, 22179), (186, 22200), (187, 22251), (188, 22254), (189, 22260), (194, 22338), (198, 22368), (201, 22386), (206, 22455), (209, 22488), (211, 22494), (213, 22503), (216, 22509), (227, 22563), (230, 22608), (233, 22635), (234, 22644), (236, 22665), (241, 22722), (243, 22758), (251, 22839), (253, 22842), (258, 22911), (265, 22983), (276, 23079), (284, 23145), (285, 23148), (291, 23172), (296, 23199), (297, 23202), (298, 23205), (299, 23211), (307, 23280), (309, 23289), (313, 23334), (314, 23343), (325, 23421), (330, 23475), (337, 23529), (343, 23586), (353, 23628), (357, 23664), (361, 23727), (367, 23778), (380, 23889), (386, 23928), (390, 24009), (403, 24183), (404, 24186), (407, 24219), (417, 24426), (419, 24435), (420, 24441), (436, 24753), (449, 24960), (455, 25098), (466, 25248), (473, 25359), (482, 25404), (483, 25413), (487, 25455), (499, 25548), (502, 25560), (509, 25590), (511, 25623), (514, 25635),

Gene: Portcullis_29 Start: 19434, Stop: 24956, Start Num: 1

Candidate Starts for Portcullis_29:

(Start: 1 @19434 has 32 MA's), (3, 19521), (4, 19608), (6, 19641), (7, 19665), (13, 19788), (14, 19809), (15, 19815), (16, 19839), (20, 19869), (26, 19908), (33, 19992), (41, 20028), (44, 20052), (49, 20091),

(103, 20481), (119, 20649), (122, 20709), (127, 20781), (128, 20793), (131, 20829), (133, 20853), (141, 20952), (142, 20955), (144, 20985), (146, 21060), (147, 21072), (150, 21114), (152, 21144), (156, 21195), (168, 21336), (169, 21354), (170, 21366), (172, 21375), (183, 21477), (185, 21498), (186, 21519), (187, 21570), (188, 21573), (194, 21657), (198, 21687), (201, 21705), (206, 21774), (209, 21807), (211, 21813), (213, 21822), (216, 21828), (227, 21882), (233, 21954), (234, 21963), (236, 21984), (241, 22041), (243, 22077), (251, 22158), (253, 22161), (258, 22230), (276, 22398), (284, 22464), (285, 22467), (291, 22491), (296, 22518), (297, 22521), (298, 22524), (299, 22530), (307, 22599), (309, 22608), (313, 22653), (314, 22662), (325, 22740), (330, 22794), (337, 22848), (343, 22905), (353, 22947), (357, 22983), (361, 23046), (367, 23097), (380, 23208), (386, 23247), (390, 23328), (403, 23502), (404, 23505), (407, 23538), (417, 23745), (419, 23754), (420, 23760), (422, 23781), (436, 24075), (449, 24282), (455, 24408), (466, 24558), (473, 24669), (482, 24714), (483, 24723), (484, 24729), (487, 24765), (499, 24858), (502, 24870), (509, 24900), (511, 24933), (514, 24945),

Gene: PullumCavea_29 Start: 19476, Stop: 25007, Start Num: 1

Candidate Starts for PullumCavea_29:

(Start: 1 @19476 has 32 MA's), (3, 19563), (4, 19650), (6, 19683), (7, 19707), (13, 19830), (14, 19851), (15, 19857), (16, 19881), (20, 19911), (26, 19950), (33, 20034), (41, 20070), (44, 20094), (49, 20133), (103, 20523), (119, 20691), (122, 20751), (127, 20823), (128, 20835), (131, 20871), (133, 20895), (141, 20994), (142, 20997), (144, 21027), (146, 21102), (147, 21114), (150, 21156), (152, 21186), (156, 21237), (168, 21378), (169, 21396), (170, 21408), (172, 21417), (183, 21519), (185, 21540), (186, 21561), (187, 21612), (188, 21615), (189, 21621), (194, 21699), (198, 21729), (201, 21747), (206, 21816), (209, 21849), (211, 21855), (213, 21864), (216, 21870), (227, 21924), (230, 21969), (233, 21996), (234, 22005), (236, 22026), (241, 22083), (243, 22119), (251, 22200), (253, 22203), (258, 22272), (265, 22344), (276, 22440), (284, 22506), (285, 22509), (291, 22533), (296, 22560), (297, 22563), (298, 22566), (299, 22572), (307, 22641), (309, 22650), (313, 22695), (314, 22704), (325, 22782), (330, 22836), (337, 22890), (343, 22947), (353, 22989), (357, 23025), (361, 23088), (367, 23139), (380, 23250), (386, 23289), (390, 23370), (403, 23544), (404, 23547), (407, 23580), (417, 23787), (419, 23796), (420, 23802), (436, 24114), (449, 24321), (455, 24459), (466, 24609), (473, 24720), (482, 24765), (483, 24774), (484, 24780), (487, 24816), (499, 24909), (502, 24921), (509, 24951), (511, 24984), (514, 24996),

Gene: Pumpkiney_34 Start: 22170, Stop: 27098, Start Num: 11

Candidate Starts for Pumpkiney_34:

(Start: 11 @22170 has 69 MA's), (22, 22290), (23, 22302), (27, 22344), (29, 22368), (31, 22377), (37, 22434), (38, 22443), (39, 22446), (45, 22515), (50, 22548), (54, 22617), (56, 22626), (59, 22644), (69, 22710), (72, 22725), (76, 22734), (83, 22797), (85, 22803), (90, 22830), (95, 22860), (97, 22869), (104, 22917), (106, 22932), (110, 22977), (117, 23043), (124, 23166), (126, 23190), (127, 23208), (128, 23220), (134, 23280), (137, 23298), (140, 23370), (144, 23409), (145, 23445), (146, 23484), (147, 23496), (150, 23538), (152, 23568), (159, 23652), (160, 23685), (169, 23778), (176, 23814), (180, 23871), (183, 23901), (186, 23943), (188, 23997), (191, 24030), (194, 24081), (201, 24129), (202, 24138), (206, 24198), (207, 24210), (209, 24231), (211, 24237), (223, 24279), (224, 24285), (226, 24300), (227, 24306), (234, 24387), (235, 24390), (237, 24411), (241, 24465), (245, 24528), (253, 24585), (268, 24672), (277, 24738), (300, 24795), (301, 24798), (304, 24822), (315, 24912), (321, 24960), (352, 25188), (355, 25206), (358, 25263), (368, 25353), (373, 25416), (385, 25497), (387, 25524), (392, 25596), (393, 25605), (397, 25665), (405, 25776), (417, 26007), (419, 26016), (422, 26043), (425, 26085), (435, 26304), (436, 26331), (439, 26403), (440, 26442), (456, 26649), (461, 26721), (469, 26790), (484, 26925), (488, 26988), (489, 26991), (491, 27009), (493, 27024), (498, 27051), (500, 27063),

Gene: Ribeye_33 Start: 24804, Stop: 29822, Start Num: 11

Candidate Starts for Ribeye_33:

(Start: 11 @24804 has 69 MA's), (17, 24879), (22, 24924), (27, 24978), (29, 25002), (32, 25044), (34, 25062), (38, 25077), (45, 25149), (49, 25176), (54, 25251), (56, 25260), (63, 25317), (64, 25335), (65, 25341), (68, 25359), (74, 25386), (100, 25542), (106, 25593), (108, 25605), (111, 25653), (122, 25794), (124, 25827), (127, 25869), (134, 25941), (136, 25956), (137, 25959), (144, 26070), (145, 26106), (147, 26157), (150, 26199), (152, 26229), (156, 26280), (159, 26313), (160, 26346), (161, 26358), (169, 26439), (175, 26472), (176, 26475), (180, 26532), (184, 26568), (185, 26583), (186, 26604), (187, 26655), (201, 26790), (206, 26859), (211, 26898), (212, 26904), (215, 26913), (223, 26940), (227, 26967), (229, 26988), (232, 27024), (234, 27048), (235, 27051), (238, 27087), (241, 27126), (247, 27216), (253, 27246), (261, 27294), (264, 27300), (281, 27423), (282, 27426), (283, 27432), (296, 27489), (300, 27501), (304, 27528), (310, 27561), (311, 27567), (316, 27624), (323, 27678), (329, 27741), (344, 27852), (350, 27879), (351, 27885), (361, 27987), (368, 28053), (385, 28185), (387, 28212), (393, 28293), (397, 28353), (400, 28398), (417, 28704), (419, 28713), (422, 28740), (426, 28809), (438, 29037), (450, 29181), (453, 29250), (454, 29256), (455, 29262), (459, 29340), (462, 29370), (473, 29508), (484, 29568), (487, 29604), (490, 29649), (495, 29676), (502, 29715), (503, 29721), (506, 29727), (510, 29754), (513, 29790), (515, 29802),

Gene: RiverRaider_33 Start: 23248, Stop: 28107, Start Num: 11

Candidate Starts for RiverRaider_33:

(Start: 11 @23248 has 69 MA's), (18, 23335), (22, 23368), (27, 23422), (29, 23446), (31, 23455), (40, 23500), (58, 23584), (67, 23617), (70, 23629), (73, 23641), (77, 23659), (81, 23671), (86, 23716), (94, 23755), (106, 23827), (113, 23917), (117, 23938), (122, 24028), (124, 24061), (127, 24103), (134, 24175), (136, 24190), (137, 24193), (144, 24304), (145, 24340), (147, 24391), (150, 24433), (152, 24463), (156, 24514), (159, 24547), (160, 24580), (161, 24592), (169, 24673), (172, 24694), (175, 24706), (178, 24739), (184, 24802), (185, 24817), (186, 24838), (187, 24889), (189, 24898), (194, 24976), (201, 25024), (204, 25072), (208, 25120), (209, 25126), (211, 25132), (215, 25147), (218, 25153), (222, 25171), (224, 25180), (227, 25201), (229, 25222), (232, 25258), (234, 25282), (238, 25321), (246, 25447), (253, 25480), (261, 25528), (264, 25534), (273, 25588), (275, 25603), (277, 25621), (282, 25660), (300, 25735), (304, 25762), (306, 25771), (310, 25795), (316, 25858), (323, 25912), (350, 26113), (351, 26119), (361, 26221), (363, 26233), (368, 26287), (378, 26368), (381, 26383), (383, 26407), (389, 26488), (404, 26665), (406, 26695), (408, 26698), (416, 26830), (419, 26911), (420, 26917), (422, 26938), (424, 26974), (427, 27037), (436, 27226), (439, 27298), (440, 27337), (453, 27532), (455, 27544), (459, 27616), (470, 27706), (481, 27823), (484, 27844), (495, 27961), (503, 28006), (506, 28012), (513, 28075), (515, 28087),

Gene: RoadKill_28 Start: 20943, Stop: 26069, Start Num: 11

Candidate Starts for RoadKill_28:

(Start: 11 @20943 has 69 MA's), (27, 21117), (30, 21150), (36, 21207), (38, 21216), (39, 21219), (45, 21288), (46, 21300), (49, 21315), (51, 21351), (54, 21390), (55, 21396), (57, 21402), (62, 21435), (67, 21477), (69, 21486), (71, 21495), (72, 21501), (79, 21528), (85, 21579), (88, 21597), (104, 21693), (106, 21708), (110, 21753), (116, 21801), (124, 21930), (127, 21972), (134, 22044), (137, 22062), (141, 22140), (143, 22152), (144, 22173), (145, 22209), (146, 22248), (147, 22260), (152, 22332), (153, 22356), (154, 22362), (156, 22383), (158, 22404), (159, 22416), (163, 22467), (165, 22497), (172, 22563), (183, 22665), (186, 22707), (188, 22761), (190, 22791), (191, 22794), (197, 22872), (205, 22959), (209, 22995), (211, 23001), (222, 23040), (223, 23043), (226, 23064), (227, 23070), (229, 23091), (233, 23142), (237, 23175), (238, 23190), (240, 23214), (262, 23424), (263, 23427), (279, 23532), (280, 23550), (290, 23580), (301, 23631), (310, 23688), (317, 23763), (318, 23772), (319, 23781), (320, 23787), (327, 23838), (331, 23871), (332, 23883), (335, 23904), (336, 23916), (339, 23949), (342, 23970), (359, 24102), (365, 24156), (388, 24363), (396, 24477), (398, 24489), (407, 24615), (410, 24633), (413, 24711), (422, 24900), (424, 24930), (434, 25128), (444, 25335), (445, 25338), (447, 25356), (464, 25605), (467, 25623), (468, 25635), (479, 25761), (496, 25917), (497, 25920), (505, 25962), (507, 25980), (510, 25995), (512, 26034),

Gene: Rofo_33 Start: 25011, Stop: 29837, Start Num: 11

Candidate Starts for Rofo_33:

(Start: 11 @25011 has 69 MA's), (27, 25185), (29, 25209), (58, 25347), (67, 25380), (70, 25392), (73, 25404), (77, 25422), (81, 25434), (86, 25479), (106, 25590), (118, 25710), (119, 25731), (122, 25791), (124, 25824), (127, 25866), (130, 25902), (134, 25938), (136, 25953), (137, 25956), (144, 26067), (145, 26103), (147, 26154), (150, 26196), (152, 26226), (156, 26277), (159, 26310), (160, 26343), (161, 26355), (169, 26436), (172, 26457), (175, 26469), (184, 26565), (185, 26580), (186, 26601), (187, 26652), (189, 26661), (194, 26739), (201, 26787), (202, 26796), (206, 26856), (212, 26901), (215, 26910), (223, 26937), (227, 26964), (229, 26985), (232, 27021), (239, 27087), (241, 27123), (246, 27210), (247, 27213), (248, 27222), (251, 27240), (261, 27291), (264, 27297), (282, 27423), (300, 27498), (304, 27525), (310, 27558), (316, 27621), (323, 27675), (329, 27738), (344, 27849), (350, 27876), (351, 27882), (361, 27984), (363, 27996), (368, 28050), (371, 28077), (375, 28104), (379, 28143), (387, 28209), (392, 28281), (393, 28290), (397, 28350), (400, 28395), (419, 28713), (420, 28719), (421, 28737), (428, 28833), (432, 28938), (438, 29037), (450, 29181), (453, 29256), (455, 29268), (459, 29352), (495, 29691), (502, 29730), (503, 29736), (506, 29742), (510, 29769), (513, 29805), (515, 29817),

Gene: RogerDodger_32 Start: 20284, Stop: 25797, Start Num: 1

Candidate Starts for RogerDodger_32:

(Start: 1 @20284 has 32 MA's), (3, 20371), (4, 20458), (6, 20491), (7, 20515), (13, 20638), (14, 20659), (15, 20665), (16, 20689), (20, 20719), (26, 20758), (33, 20842), (41, 20878), (44, 20902), (49, 20941), (103, 21331), (119, 21499), (122, 21559), (127, 21631), (128, 21643), (131, 21679), (133, 21703), (141, 21802), (142, 21805), (144, 21835), (146, 21910), (147, 21922), (150, 21964), (152, 21994), (156, 22045), (168, 22186), (169, 22204), (170, 22216), (172, 22225), (183, 22327), (185, 22348), (186, 22369), (187, 22420), (188, 22423), (189, 22429), (194, 22507), (198, 22537), (201, 22555), (206, 22624), (209, 22657), (211, 22663), (213, 22672), (216, 22678), (227, 22732), (230, 22777), (233, 22804), (234, 22813), (236, 22834), (241, 22891), (243, 22927), (251, 23008), (253, 23011), (258, 23080), (265, 23152), (276, 23248), (284, 23314), (285, 23317), (291, 23341), (296, 23368), (297, 23371), (298, 23374), (299, 23380), (307, 23449), (309, 23458), (313, 23503), (314, 23512), (325, 23590), (330, 23644), (337, 23698), (343, 23755), (353, 23797), (357, 23833), (361, 23896), (367, 23947), (376, 24031), (380, 24058), (386, 24097), (387, 24118), (390, 24178), (403, 24352), (404, 24355), (407, 24388), (417, 24595), (419, 24604), (420, 24610), (427, 24724), (431, 24844), (440, 25024), (455, 25249), (466, 25399), (473, 25510), (482, 25555), (483, 25564), (487, 25606), (501, 25705), (502, 25711), (509, 25741), (511, 25774), (514, 25786),

Gene: Salvador_29 Start: 19390, Stop: 24921, Start Num: 1

Candidate Starts for Salvador_29:

(Start: 1 @19390 has 32 MA's), (3, 19477), (4, 19564), (6, 19597), (7, 19621), (13, 19744), (14, 19765), (15, 19771), (16, 19795), (20, 19825), (26, 19864), (33, 19948), (41, 19984), (44, 20008), (49, 20047), (103, 20437), (119, 20605), (122, 20665), (127, 20737), (128, 20749), (131, 20785), (133, 20809), (141, 20908), (142, 20911), (144, 20941), (146, 21016), (147, 21028), (150, 21070), (152, 21100), (156, 21151), (168, 21292), (169, 21310), (170, 21322), (172, 21331), (183, 21433), (185, 21454), (186, 21475), (187, 21526), (188, 21529), (189, 21535), (194, 21613), (198, 21643), (201, 21661), (206, 21730), (209, 21763), (211, 21769), (213, 21778), (216, 21784), (227, 21838), (230, 21883), (233, 21910), (234, 21919), (236, 21940), (241, 21997), (243, 22033), (251, 22114), (253, 22117), (258, 22186), (265, 22258), (276, 22354), (284, 22420), (285, 22423), (291, 22447), (296, 22474), (297, 22477), (298, 22480), (299, 22486), (307, 22555), (309, 22564), (313, 22609), (314, 22618), (325, 22696), (330, 22750), (337, 22804), (343, 22861), (353, 22903), (357, 22939), (361, 23002), (367, 23053), (380, 23164), (386, 23203), (390, 23284), (403, 23458), (404, 23461), (407, 23494), (417, 23701), (419, 23710), (420, 23716), (436, 24028), (449, 24235), (455, 24373), (466, 24523), (473, 24634), (482, 24679), (483, 24688), (484, 24694), (487, 24730), (499, 24823), (502, 24835), (509, 24865), (511, 24898), (514, 24910),

Gene: Sampson_33 Start: 24795, Stop: 29720, Start Num: 11

Candidate Starts for Sampson_33:

(Start: 11 @24795 has 69 MA's), (22, 24915), (23, 24927), (27, 24969), (29, 24993), (37, 25059), (38, 25068), (43, 25113), (45, 25140), (54, 25242), (56, 25251), (59, 25269), (69, 25335), (72, 25350), (76, 25359), (83, 25422), (85, 25428), (90, 25455), (95, 25485), (97, 25494), (104, 25542), (106, 25557), (108, 25569), (114, 25656), (117, 25668), (124, 25791), (126, 25815), (127, 25833), (134, 25905), (135, 25911), (137, 25923), (144, 26034), (145, 26070), (146, 26109), (147, 26121), (150, 26163), (152, 26193), (155, 26235), (156, 26244), (157, 26247), (159, 26277), (160, 26310), (169, 26403), (176, 26439), (180, 26496), (183, 26526), (186, 26568), (188, 26622), (189, 26628), (191, 26655), (194, 26706), (200, 26742), (201, 26754), (202, 26763), (206, 26823), (207, 26835), (209, 26856), (211, 26862), (223, 26904), (224, 26910), (226, 26925), (227, 26931), (230, 26976), (234, 27012), (235, 27015), (241, 27090), (245, 27153), (253, 27210), (267, 27291), (274, 27342), (293, 27399), (300, 27420), (301, 27423), (304, 27447), (321, 27585), (325, 27606), (352, 27813), (355, 27831), (358, 27888), (368, 27978), (373, 28041), (385, 28122), (387, 28149), (392, 28221), (393, 28230), (397, 28290), (405, 28401), (417, 28632), (419, 28641), (422, 28668), (425, 28710), (435, 28929), (436, 28956), (439, 29028), (440, 29067), (456, 29274), (461, 29346), (469, 29412), (484, 29547), (488, 29610), (489, 29613), (491, 29631), (493, 29646), (498, 29673), (500, 29685),

Gene: Sanjuju_31 Start: 25192, Stop: 30006, Start Num: 11

Candidate Starts for Sanjuju_31:

(Start: 11 @25192 has 69 MA's), (27, 25366), (29, 25390), (58, 25528), (70, 25573), (73, 25585), (77, 25603), (81, 25615), (82, 25642), (86, 25660), (89, 25672), (106, 25771), (118, 25891), (119, 25912), (122, 25972), (124, 26005), (127, 26047), (130, 26083), (134, 26119), (136, 26134), (137, 26137), (144, 26248), (145, 26284), (147, 26335), (150, 26377), (152, 26407), (156, 26458), (159, 26491), (160, 26524), (161, 26536), (169, 26617), (172, 26638), (175, 26650), (184, 26746), (185, 26761), (186, 26782), (187, 26833), (189, 26842), (194, 26920), (201, 26968), (202, 26977), (206, 27037), (212, 27082), (215, 27091), (223, 27118), (227, 27145), (229, 27166), (232, 27202), (239, 27268), (241, 27304), (246, 27391), (247, 27394), (251, 27421), (261, 27472), (264, 27478), (282, 27604), (304, 27706), (310, 27739), (316, 27802), (323, 27856), (329, 27919), (344, 28030), (350, 28057), (351, 28063), (361, 28165), (368, 28231), (371, 28258), (375, 28285), (379, 28324), (382, 28348), (387, 28390), (392, 28462), (393, 28471), (397, 28531), (400, 28576), (419, 28891), (420, 28897), (421, 28915), (428, 29011), (432, 29116), (438, 29215), (450, 29359), (453, 29434), (455, 29446), (459, 29521), (495, 29860), (502, 29899), (503, 29905), (506, 29911), (510, 29938), (513, 29974), (515, 29986),

Gene: Saronaya_32 Start: 23650, Stop: 28665, Start Num: 11

Candidate Starts for Saronaya_32:

(Start: 11 @23650 has 69 MA's), (18, 23737), (22, 23770), (27, 23824), (29, 23848), (32, 23890), (34, 23908), (38, 23923), (45, 23995), (49, 24022), (54, 24097), (56, 24106), (63, 24163), (64, 24181), (65, 24187), (68, 24205), (74, 24232), (106, 24439), (108, 24451), (111, 24499), (122, 24640), (124, 24673), (127, 24715), (134, 24787), (136, 24802), (137, 24805), (144, 24916), (145, 24952), (147, 25003), (150, 25045), (152, 25075), (154, 25105), (159, 25159), (160, 25192), (169, 25285), (175, 25318), (176, 25321), (180, 25378), (184, 25414), (185, 25429), (186, 25450), (187, 25501), (201, 25636), (202, 25645), (209, 25738), (211, 25744), (212, 25750), (215, 25759), (220, 25771), (222, 25783), (225, 25795), (227, 25813), (232, 25870), (241, 25972), (247, 26062), (253, 26092), (261, 26140), (264, 26146), (281, 26269), (282, 26272), (296, 26335), (300, 26347), (302, 26368), (304, 26374), (310, 26407), (316, 26470), (323, 26524), (344, 26698), (350, 26725), (351, 26731), (361, 26833), (368, 26899), (385, 27031), (387, 27058), (393, 27139), (397, 27199), (400, 27244), (417, 27550), (419, 27559), (422, 27586), (426, 27655), (432, 27784), (438, 27883), (450, 28027), (453, 28096), (454, 28102), (455, 28108), (459, 28183), (462, 28213), (472, 28318), (473, 28351), (484, 28411), (487, 28447), (490, 28492), (495, 28519), (502, 28558), (503, 28564), (506, 28570), (510, 28597), (513, 28633), (515, 28645),

Gene: Savbucketdawg_29 Start: 19171, Stop: 24702, Start Num: 1

Candidate Starts for Savbucketdawg_29:

(Start: 1 @19171 has 32 MA's), (3, 19258), (4, 19345), (6, 19378), (7, 19402), (13, 19525), (14, 19546), (15, 19552), (16, 19576), (20, 19606), (26, 19645), (33, 19729), (41, 19765), (44, 19789), (49, 19828), (103, 20218), (119, 20386), (122, 20446), (127, 20518), (128, 20530), (131, 20566), (133, 20590), (141, 20689), (142, 20692), (144, 20722), (146, 20797), (147, 20809), (150, 20851), (152, 20881), (156, 20932), (168, 21073), (169, 21091), (170, 21103), (172, 21112), (183, 21214), (185, 21235), (186, 21256), (187, 21307), (188, 21310), (189, 21316), (194, 21394), (198, 21424), (201, 21442), (206, 21511), (209, 21544), (211, 21550), (213, 21559), (216, 21565), (227, 21619), (230, 21664), (233, 21691), (234, 21700), (236, 21721), (241, 21778), (243, 21814), (251, 21895), (253, 21898), (258, 21967), (265, 22039), (276, 22135), (284, 22201), (285, 22204), (291, 22228), (296, 22255), (297, 22258), (298, 22261), (299, 22267), (307, 22336), (309, 22345), (313, 22390), (314, 22399), (325, 22477), (330, 22531), (337, 22585), (343, 22642), (353, 22684), (357, 22720), (361, 22783), (367, 22834), (380, 22945), (386, 22984), (390, 23065), (403, 23239), (404, 23242), (407, 23275), (417, 23482), (419, 23491), (420, 23497), (436, 23809), (449, 24016), (455, 24154), (466, 24304), (473, 24415), (482, 24460), (483, 24469), (487, 24511), (499, 24604), (502, 24616), (509, 24646), (511, 24679), (514, 24691),

Gene: SchottB_31 Start: 24662, Stop: 29680, Start Num: 11

Candidate Starts for SchottB_31:

(Start: 11 @24662 has 69 MA's), (18, 24749), (22, 24782), (27, 24836), (29, 24860), (32, 24902), (34, 24920), (38, 24935), (45, 25007), (49, 25034), (54, 25109), (56, 25118), (63, 25175), (64, 25193), (65, 25199), (106, 25451), (111, 25511), (122, 25652), (124, 25685), (127, 25727), (134, 25799), (136, 25814), (137, 25817), (144, 25928), (145, 25964), (147, 26015), (150, 26057), (152, 26087), (156, 26138), (159, 26171), (160, 26204), (161, 26216), (169, 26297), (175, 26330), (176, 26333), (180, 26390), (184, 26426), (185, 26441), (186, 26462), (187, 26513), (201, 26648), (202, 26657), (209, 26750), (211, 26756), (212, 26762), (215, 26771), (220, 26783), (222, 26795), (225, 26807), (227, 26825), (232, 26882), (241, 26984), (242, 27002), (244, 27026), (247, 27074), (253, 27104), (261, 27152), (264, 27158), (281, 27281), (282, 27284), (283, 27290), (296, 27347), (300, 27359), (302, 27380), (304, 27386), (310, 27419), (316, 27482), (323, 27536), (344, 27710), (350, 27737), (351, 27743), (361, 27845), (368, 27911), (387, 28070), (393, 28151), (397, 28211), (400, 28256), (417, 28562), (419, 28571), (422, 28598), (426, 28667), (432, 28796), (438, 28895), (450, 29039), (453, 29111), (454, 29117), (455, 29123), (459, 29198), (462, 29228), (473, 29366), (484, 29426), (487, 29462), (490, 29507), (495, 29534), (502, 29573), (503, 29579), (506, 29585), (510, 29612), (513, 29648), (515, 29660),

Gene: Scioto_33 Start: 24850, Stop: 29775, Start Num: 11

Candidate Starts for Scioto_33:

(Start: 11 @24850 has 69 MA's), (22, 24970), (23, 24982), (27, 25024), (29, 25048), (37, 25114), (38, 25123), (43, 25168), (45, 25195), (54, 25297), (56, 25306), (59, 25324), (69, 25390), (72, 25405), (76, 25414), (83, 25477), (85, 25483), (90, 25510), (95, 25540), (97, 25549), (104, 25597), (106, 25612), (108, 25624), (114, 25711), (117, 25723), (124, 25846), (126, 25870), (127, 25888), (134, 25960), (135, 25966), (137, 25978), (144, 26089), (145, 26125), (146, 26164), (147, 26176), (150, 26218), (152, 26248), (155, 26290), (156, 26299), (157, 26302), (159, 26332), (160, 26365), (169, 26458), (176, 26494), (180, 26551), (183, 26581), (186, 26623), (188, 26677), (189, 26683), (191, 26710), (194, 26761), (200, 26797), (201, 26809), (202, 26818), (206, 26878), (207, 26890), (209, 26911), (211, 26917), (223, 26959), (224, 26965), (226, 26980), (227, 26986), (230, 27031), (234, 27067), (235, 27070), (241, 27145), (245, 27208), (253, 27265), (267, 27346), (274, 27397), (293, 27454), (300, 27475), (301, 27478), (304, 27502), (321, 27640), (325, 27661), (352, 27868), (355, 27886), (358, 27943), (368, 28033), (373, 28096), (385, 28177), (387, 28204), (392, 28276), (393, 28285), (397, 28345), (405, 28456), (417, 28687), (419, 28696), (422, 28723), (425, 28765), (435, 28984), (436, 29011), (439, 29083), (440, 29122), (456, 29329), (461, 29401), (469, 29467), (484, 29602), (488, 29665), (489, 29668), (491, 29686), (493, 29701), (498, 29728), (500, 29740),

Gene: Sedona_33 Start: 26117, Stop: 30943, Start Num: 11

Candidate Starts for Sedona_33:

(Start: 11 @26117 has 69 MA's), (27, 26291), (29, 26315), (58, 26453), (70, 26498), (73, 26510), (77, 26528), (81, 26540), (82, 26567), (86, 26585), (89, 26597), (106, 26696), (118, 26816), (119, 26837), (122, 26897), (124, 26930), (127, 26972), (130, 27008), (134, 27044), (136, 27059), (137, 27062), (144, 27173), (145, 27209), (147, 27260), (150, 27302), (152, 27332), (156, 27383), (159, 27416), (160, 27449), (161, 27461), (169, 27542), (172, 27563), (175, 27575), (184, 27671), (185, 27686), (186, 27707), (187, 27758), (189, 27767), (194, 27845), (201, 27893), (202, 27902), (206, 27962), (212, 28007), (215, 28016), (223, 28043), (227, 28070), (229, 28091), (232, 28127), (239, 28193), (241, 28229), (246, 28316), (247, 28319), (248, 28328), (251, 28346), (261, 28397), (264, 28403), (282, 28529), (304, 28631), (310, 28664), (316, 28727), (323, 28781), (329, 28844), (344, 28955), (350, 28982), (351, 28988), (361, 29090), (368, 29156), (371, 29183), (375, 29210), (379, 29249), (382, 29273), (387, 29315), (392, 29387), (397, 29456), (400, 29501), (419, 29819), (420, 29825), (421, 29843), (428, 29939), (438, 30143), (450, 30287), (453, 30362), (455, 30374), (459, 30458), (495, 30797), (502, 30836), (503, 30842), (506, 30848), (510, 30875), (513, 30911), (515, 30923),

Gene: Shinji_29 Start: 19375, Stop: 24897, Start Num: 1

Candidate Starts for Shinji_29:

(Start: 1 @19375 has 32 MA's), (3, 19462), (4, 19549), (6, 19582), (7, 19606), (13, 19729), (14, 19750), (15, 19756), (16, 19780), (20, 19810), (26, 19849), (33, 19933), (41, 19969), (44, 19993), (49, 20032), (103, 20422), (119, 20590), (122, 20650), (127, 20722), (128, 20734), (131, 20770), (133, 20794), (141, 20893), (142, 20896), (144, 20926), (146, 21001), (147, 21013), (150, 21055), (152, 21085), (156, 21136), (168, 21277), (169, 21295), (170, 21307), (172, 21316), (183, 21418), (185, 21439), (186, 21460), (187, 21511), (188, 21514), (194, 21598), (198, 21628), (201, 21646), (206, 21715), (209, 21748), (211, 21754), (213, 21763), (216, 21769), (227, 21823), (233, 21895), (234, 21904), (236, 21925), (241, 21982), (243, 22018), (251, 22099), (253, 22102), (258, 22171), (276, 22339), (284, 22405), (285, 22408), (291, 22432), (296, 22459), (297, 22462), (298, 22465), (299, 22471), (307, 22540), (309, 22549), (313, 22594), (314, 22603), (325, 22681), (330, 22735), (337, 22789), (343, 22846), (353, 22888), (357, 22924), (361, 22987), (367, 23038), (380, 23149), (386, 23188), (390, 23269), (403, 23443), (404, 23446), (407, 23479), (417, 23686), (419, 23695), (420, 23701), (422, 23722), (436, 24016), (449, 24223), (455, 24349), (466, 24499), (473, 24610), (482, 24655), (483, 24664), (484, 24670), (487, 24706), (499, 24799), (502, 24811), (509, 24841), (511, 24874), (514, 24886),

Gene: Shivanishola_34 Start: 25088, Stop: 29905, Start Num: 11

Candidate Starts for Shivanishola_34:

(Start: 11 @25088 has 69 MA's), (27, 25262), (31, 25295), (58, 25424), (67, 25457), (70, 25469), (73, 25481), (81, 25511), (82, 25538), (86, 25556), (106, 25667), (118, 25787), (119, 25808), (122, 25868), (124, 25901), (127, 25943), (130, 25979), (134, 26015), (136, 26030), (137, 26033), (144, 26144), (145, 26180), (147, 26231), (150, 26273), (152, 26303), (156, 26354), (159, 26387), (160, 26420), (161, 26432), (169, 26513), (172, 26534), (175, 26546), (184, 26642), (185, 26657), (186, 26678), (187, 26729), (189, 26738), (194, 26816), (201, 26864), (202, 26873), (206, 26933), (212, 26978), (215, 26987), (223, 27014), (227, 27041), (229, 27062), (232, 27098), (239, 27164), (241, 27200), (246, 27287), (247, 27290), (248, 27299), (251, 27317), (261, 27368), (264, 27374), (282, 27500), (304, 27602), (310, 27635), (316, 27698), (323, 27752), (329, 27815), (344, 27926), (350, 27953), (351, 27959), (361, 28061), (363, 28073), (368, 28127), (371, 28154), (375, 28181), (379, 28220), (387, 28286), (392, 28358), (393, 28367), (397, 28427), (400, 28472), (419, 28787), (420, 28793), (421, 28811), (428, 28907), (438, 29111), (450, 29255), (453, 29324), (459, 29420), (495, 29759), (502, 29798), (503, 29804), (506, 29810), (510, 29837), (513, 29873), (515, 29885),

Gene: Sitar_33 Start: 26184, Stop: 30995, Start Num: 11

Candidate Starts for Sitar_33:

(Start: 11 @26184 has 69 MA's), (27, 26358), (29, 26382), (58, 26520), (68, 26559), (70, 26565), (73, 26577), (77, 26595), (81, 26607), (82, 26634), (86, 26652), (89, 26664), (106, 26763), (118, 26883), (119, 26904), (122, 26964), (124, 26997), (127, 27039), (130, 27075), (134, 27111), (136, 27126), (137, 27129), (144, 27240), (145, 27276), (147, 27327), (150, 27369), (152, 27399), (156, 27450), (159, 27483), (160, 27516), (161, 27528), (169, 27609), (172, 27630), (175, 27642), (184, 27738), (185, 27753), (186, 27774), (187, 27825), (189, 27834), (194, 27912), (201, 27960), (202, 27969), (206, 28029), (211, 28068), (212, 28074), (215, 28083), (223, 28110), (227, 28137), (229, 28158), (232, 28194), (239, 28260), (241, 28296), (246, 28383), (247, 28386), (251, 28413), (261, 28464), (264, 28470), (282, 28596), (304, 28698), (310, 28731), (316, 28794), (323, 28848), (329, 28911), (344, 29022), (350, 29049), (351, 29055), (361, 29157), (363, 29169), (368, 29223), (371, 29250), (375, 29277), (379, 29316), (382, 29340), (387, 29382), (392, 29454), (393, 29463), (397, 29523), (400, 29568), (419, 29883), (420, 29889), (421, 29907), (428, 30003), (432, 30108), (438, 30207), (450, 30351), (453, 30414), (455, 30426), (459, 30510), (495, 30849), (502, 30888), (503, 30894), (506, 30900), (510, 30927), (513, 30963), (515, 30975),

Gene: SmokingBunny_29 Start: 19390, Stop: 24912, Start Num: 1

Candidate Starts for SmokingBunny_29:

(Start: 1 @19390 has 32 MA's), (3, 19477), (4, 19564), (6, 19597), (7, 19621), (13, 19744), (14, 19765), (15, 19771), (16, 19795), (20, 19825), (26, 19864), (33, 19948), (41, 19984), (44, 20008), (49, 20047), (103, 20437), (119, 20605), (122, 20665), (127, 20737), (128, 20749), (131, 20785), (133, 20809), (141, 20908), (142, 20911), (144, 20941), (146, 21016), (147, 21028), (150, 21070), (152, 21100), (156, 21151), (168, 21292), (169, 21310), (170, 21322), (172, 21331), (183, 21433), (185, 21454), (186, 21475), (187, 21526), (188, 21529), (194, 21613), (198, 21643), (201, 21661), (206, 21730), (209, 21763), (211, 21769), (213, 21778), (216, 21784), (227, 21838), (233, 21910), (234, 21919), (236, 21940), (241, 21997), (243, 22033), (251, 22114), (253, 22117), (258, 22186), (276, 22354), (284, 22420), (285, 22423), (291, 22447), (296, 22474), (297, 22477), (298, 22480), (299, 22486), (307, 22555), (309, 22564), (313, 22609), (314, 22618), (325, 22696), (330, 22750), (337, 22804), (343, 22861), (353, 22903), (357, 22939), (361, 23002), (367, 23053), (380, 23164), (386, 23203), (390, 23284), (403, 23458), (404, 23461), (407, 23494), (417, 23701), (419, 23710), (420, 23716), (422, 23737), (436, 24031), (449, 24238), (455, 24364), (466, 24514), (473, 24625), (482, 24670), (483, 24679), (484, 24685), (487, 24721), (499, 24814), (502, 24826), (509, 24856), (511, 24889), (514, 24901),

Gene: StorminNorm_32 Start: 23529, Stop: 28547, Start Num: 11

Candidate Starts for StorminNorm_32:

(Start: 11 @23529 has 69 MA's), (18, 23616), (22, 23649), (27, 23703), (29, 23727), (32, 23769), (34, 23787), (38, 23802), (45, 23874), (49, 23901), (54, 23976), (56, 23985), (63, 24042), (64, 24060), (65, 24066), (106, 24318), (111, 24378), (122, 24519), (124, 24552), (127, 24594), (134, 24666), (136, 24681), (137, 24684), (144, 24795), (145, 24831), (147, 24882), (150, 24924), (152, 24954), (156, 25005), (159, 25038), (160, 25071), (161, 25083), (169, 25164), (175, 25197), (176, 25200), (180, 25257), (184, 25293), (185, 25308), (186, 25329), (187, 25380), (201, 25515), (202, 25524), (209, 25617), (211, 25623), (212, 25629), (215, 25638), (222, 25662), (225, 25674), (227, 25692), (232, 25749), (241, 25851), (247, 25941), (253, 25971), (261, 26019), (264, 26025), (281, 26148), (282, 26151), (283, 26157), (296, 26214), (300, 26226), (302, 26247), (304, 26253), (310, 26286), (316, 26349), (323, 26403), (329, 26466), (344, 26577), (350, 26604), (351, 26610), (361, 26712), (368, 26778), (385, 26910), (387, 26937), (393, 27018), (397, 27078), (400, 27123), (417, 27429), (419, 27438), (422, 27465), (426, 27534), (432, 27663), (438, 27762), (450, 27906), (453, 27978), (454, 27984), (455, 27990), (459, 28065), (462, 28095), (473, 28233), (484, 28293), (487, 28329), (490, 28374), (495, 28401), (502, 28440), (503, 28446), (506, 28452), (510, 28479), (513, 28515), (515, 28527),

Gene: Stultus_31 Start: 24099, Stop: 28922, Start Num: 11

Candidate Starts for Stultus_31:

(Start: 11 @24099 has 69 MA's), (27, 24273), (29, 24297), (58, 24435), (68, 24474), (70, 24480), (73, 24492), (77, 24510), (81, 24522), (82, 24549), (86, 24567), (89, 24579), (106, 24678), (119, 24819), (122, 24879), (124, 24912), (127, 24954), (130, 24990), (134, 25026), (136, 25041), (137, 25044), (144, 25155), (145, 25191), (147, 25242), (150, 25284), (152, 25314), (156, 25365), (159, 25398), (160, 25431), (161, 25443), (169, 25524), (172, 25545), (175, 25557), (184, 25653), (185, 25668), (186, 25689), (187, 25740), (189, 25749), (194, 25827), (201, 25875), (202, 25884), (206, 25944), (212, 25989), (215, 25998), (223, 26025), (227, 26052), (229, 26073), (232, 26109), (239, 26175), (241, 26211), (246, 26298), (247, 26301), (248, 26310), (251, 26328), (261, 26379), (264, 26385), (282, 26511), (300, 26586), (304, 26613), (310, 26646), (316, 26709), (323, 26763), (329, 26826), (344, 26937), (350, 26964), (351, 26970), (361, 27072), (363, 27084), (368, 27138), (371, 27165), (375, 27192), (379, 27231), (382, 27255), (387, 27297), (392, 27369), (393, 27378), (397, 27438), (400, 27483), (419, 27798), (420, 27804), (421, 27822), (428, 27918), (432, 28023), (438, 28122), (450, 28266), (453, 28341), (455, 28353), (459, 28437), (495, 28776), (502, 28815), (503, 28821), (506, 28827), (510, 28854), (513, 28890), (515, 28902),

Gene: Tangent_33 Start: 24533, Stop: 29359, Start Num: 11

Candidate Starts for Tangent_33:

(Start: 11 @24533 has 69 MA's), (27, 24707), (29, 24731), (58, 24869), (67, 24902), (70, 24914), (73, 24926), (77, 24944), (81, 24956), (86, 25001), (106, 25112), (118, 25232), (119, 25253), (122, 25313), (124, 25346), (127, 25388), (130, 25424), (134, 25460), (136, 25475), (137, 25478), (144, 25589), (145, 25625), (147, 25676), (150, 25718), (152, 25748), (156, 25799), (159, 25832), (160, 25865), (161, 25877), (169, 25958), (175, 25991), (184, 26087), (185, 26102), (186, 26123), (187, 26174), (189, 26183), (194, 26261), (201, 26309), (202, 26318), (206, 26378), (211, 26417), (212, 26423), (215, 26432), (223, 26459), (227, 26486), (229, 26507), (232, 26543), (239, 26609), (240, 26630), (241, 26645), (246, 26732), (247, 26735), (261, 26813), (273, 26873), (282, 26945), (304, 27047), (310, 27080), (316, 27143), (323, 27197), (329, 27260), (344, 27371), (350, 27398), (351, 27404), (361, 27506), (363, 27518), (368, 27572), (371, 27599), (375, 27626), (379, 27665), (382, 27689), (385, 27704), (387, 27731), (392, 27803), (393, 27812), (397, 27872), (400, 27917), (414, 28106), (419, 28235), (420, 28241), (421, 28259), (428, 28355), (432, 28460), (438, 28559), (450, 28703), (453, 28778), (455, 28790), (459, 28874), (495, 29213), (502, 29252), (503, 29258), (506, 29264), (510, 29291), (513, 29327), (515, 29339),

Gene: Tangerine_32 Start: 23535, Stop: 28550, Start Num: 11

Candidate Starts for Tangerine_32:

(Start: 11 @23535 has 69 MA's), (18, 23622), (22, 23655), (27, 23709), (29, 23733), (32, 23775), (34, 23793), (38, 23808), (45, 23880), (49, 23907), (54, 23982), (56, 23991), (63, 24048), (64, 24066), (65, 24072), (68, 24090), (74, 24117), (106, 24324), (108, 24336), (111, 24384), (122, 24525), (124, 24558), (127, 24600), (134, 24672), (136, 24687), (137, 24690), (144, 24801), (145, 24837), (147, 24888), (150, 24930), (152, 24960), (154, 24990), (159, 25044), (160, 25077), (169, 25170), (175, 25203), (176, 25206), (180, 25263), (184, 25299), (185, 25314), (186, 25335), (187, 25386), (201, 25521), (202, 25530), (209, 25623), (211, 25629), (212, 25635), (215, 25644), (222, 25668), (225, 25680), (227, 25698), (232, 25755), (241, 25857), (247, 25947), (253, 25977), (261, 26025), (264, 26031), (281, 26154), (282, 26157), (296, 26220), (300, 26232), (302, 26253), (304, 26259), (310, 26292), (316, 26355), (323, 26409), (344, 26583), (350, 26610), (351, 26616), (361, 26718), (368, 26784), (385, 26916), (387, 26943), (393, 27024), (397, 27084), (400, 27129), (417, 27435), (419, 27444), (422, 27471), (426, 27540), (432, 27669), (438, 27768), (450, 27912), (453, 27981), (454, 27987), (455, 27993), (459, 28068), (462, 28098), (473, 28236), (484, 28296), (487, 28332), (490, 28377), (495, 28404), (502, 28443), (503, 28449), (506, 28455), (510, 28482), (513, 28518), (515, 28530),

Gene: Tardus_34 Start: 24199, Stop: 29124, Start Num: 11

Candidate Starts for Tardus_34:

(Start: 11 @24199 has 69 MA's), (22, 24319), (23, 24331), (27, 24373), (29, 24397), (31, 24406), (37, 24463), (38, 24472), (45, 24544), (50, 24577), (54, 24646), (56, 24655), (59, 24673), (72, 24754), (76, 24763), (83, 24826), (85, 24832), (90, 24859), (95, 24889), (97, 24898), (106, 24961), (108, 24973), (110, 25006), (114, 25060), (117, 25072), (121, 25114), (124, 25195), (126, 25219), (127, 25237), (128, 25249), (134, 25309), (137, 25327), (144, 25438), (145, 25474), (146, 25513), (147, 25525), (150, 25567), (152, 25597), (159, 25681), (160, 25714), (169, 25807), (172, 25828), (176, 25843), (183, 25930), (186, 25972), (188, 26026), (191, 26059), (201, 26158), (202, 26167), (206, 26227), (207, 26239), (211, 26266), (223, 26308), (224, 26314), (226, 26329), (227, 26335), (234, 26416), (235, 26419), (237, 26440), (241, 26494), (245, 26557), (253, 26614), (268, 26701), (277, 26767), (300, 26824), (301, 26827), (304, 26851), (315, 26941), (321, 26989), (352, 27217), (355, 27235), (358, 27292), (368, 27382), (373, 27445), (385, 27526), (387, 27553), (392, 27625), (393, 27634), (397, 27694), (405, 27805), (417, 28033), (419, 28042), (422, 28069), (425, 28111), (427, 28171), (435, 28333), (436, 28360), (439, 28432), (440, 28471), (456, 28678), (461, 28750), (469, 28816), (484, 28951), (488, 29014), (489, 29017), (491, 29035), (493, 29050), (498, 29077), (500, 29089),

Gene: Thing3_32 Start: 25026, Stop: 29843, Start Num: 11

Candidate Starts for Thing3_32:

(Start: 11 @25026 has 69 MA's), (27, 25200), (29, 25224), (58, 25362), (70, 25407), (73, 25419), (77, 25437), (81, 25449), (82, 25476), (86, 25494), (89, 25506), (106, 25605), (118, 25725), (119, 25746), (122, 25806), (124, 25839), (127, 25881), (134, 25953), (136, 25968), (137, 25971), (144, 26082), (145, 26118), (147, 26169), (150, 26211), (152, 26241), (156, 26292), (159, 26325), (160, 26358), (161, 26370), (169, 26451), (172, 26472), (175, 26484), (184, 26580), (185, 26595), (186, 26616), (187, 26667), (189, 26676), (194, 26754), (201, 26802), (202, 26811), (206, 26871), (212, 26916), (215, 26925), (223, 26952), (227, 26979), (229, 27000), (232, 27036), (239, 27102), (241, 27138), (246, 27225), (247, 27228), (248, 27237), (251, 27255), (261, 27306), (264, 27312), (282, 27438), (300, 27513), (304, 27540), (310, 27573), (316, 27636), (323, 27690), (329, 27753), (344, 27864), (350, 27891), (351, 27897), (361, 27999), (363, 28011), (368, 28065), (371, 28092), (375, 28119), (379, 28158), (382, 28182), (387, 28224), (392, 28296), (393, 28305), (397, 28365), (400, 28410), (419, 28728), (420, 28734), (421, 28752), (428, 28848), (432, 28953), (438, 29052), (450, 29196), (453, 29271), (455, 29283), (459, 29358), (477, 29553), (495, 29697), (502, 29736), (503, 29742), (506, 29748), (510, 29775), (513, 29811), (515, 29823),

Gene: Tiamoceli_31 Start: 22285, Stop: 27402, Start Num: 11

Candidate Starts for Tiamoceli_31:

(Start: 11 @22285 has 69 MA's), (22, 22405), (27, 22459), (30, 22492), (36, 22549), (38, 22558), (39, 22561), (45, 22630), (46, 22642), (49, 22657), (51, 22693), (54, 22732), (55, 22738), (57, 22744), (62, 22777), (67, 22819), (69, 22828), (71, 22837), (72, 22843), (85, 22921), (88, 22939), (95, 22978), (104, 23035), (106, 23050), (116, 23143), (127, 23314), (134, 23386), (137, 23404), (141, 23482), (144, 23515), (145, 23551), (146, 23590), (147, 23602), (152, 23674), (156, 23725), (158, 23746), (159, 23758), (163, 23809), (165, 23839), (172, 23905), (183, 24007), (186, 24049), (188, 24103), (190, 24133), (191, 24136), (194, 24187), (197, 24214), (201, 24235), (205, 24301), (209, 24337), (211, 24343), (222, 24382), (225, 24394), (226, 24406), (227, 24412), (229, 24433), (237, 24517), (238, 24532), (240, 24556), (250, 24691), (253, 24703), (262, 24766), (263, 24769), (279, 24874), (280, 24892), (290, 24922), (301, 24973), (310, 25030), (317, 25105), (318, 25114), (319, 25123), (320, 25129), (327, 25180), (331, 25213), (332, 25225), (335, 25246), (336, 25258), (339, 25291), (342, 25312), (359, 25444), (365, 25498), (388, 25705), (396, 25819), (398, 25831), (407, 25957), (410, 25975), (413, 26053), (422, 26242), (424, 26272), (429, 26443), (434, 26470), (444, 26677), (445, 26680), (447, 26698), (464, 26947), (467, 26965), (468, 26977), (479, 27094), (496, 27250), (497, 27253), (505, 27295), (507, 27313), (510, 27328), (512, 27367),

Gene: TillyBobJoe_29 Start: 19189, Stop: 24723, Start Num: 1

Candidate Starts for TillyBobJoe_29:

(Start: 1 @19189 has 32 MA's), (3, 19276), (4, 19363), (6, 19396), (7, 19420), (13, 19543), (14, 19564), (15, 19570), (16, 19594), (19, 19603), (20, 19624), (26, 19663), (33, 19747), (41, 19783), (44, 19807), (49, 19846), (103, 20236), (119, 20404), (122, 20464), (127, 20536), (128, 20548), (131, 20584), (133, 20608), (141, 20707), (142, 20710), (144, 20740), (146, 20815), (147, 20827), (150, 20869), (152, 20899), (156, 20950), (168, 21091), (169, 21109), (170, 21121), (172, 21130), (183, 21232), (185, 21253), (186, 21274), (187, 21325), (188, 21328), (189, 21334), (194, 21412), (198, 21442), (201, 21460), (206, 21529), (209, 21562), (211, 21568), (213, 21577), (216, 21583), (227, 21637), (233, 21709), (234, 21718), (236, 21739), (241, 21796), (243, 21832), (251, 21913), (253, 21916), (258, 21985), (265, 22057), (276, 22153), (284, 22219), (285, 22222), (291, 22246), (296, 22273), (297, 22276), (298, 22279), (299, 22285), (307, 22354), (309, 22363), (313, 22408), (314, 22417), (325, 22495), (338, 22624), (340, 22639), (346, 22681), (353, 22723), (356, 22741), (357, 22759), (361, 22822), (367, 22873), (380, 22984), (386, 23023), (390, 23104), (403, 23278), (404, 23281), (407, 23314), (409, 23329), (417, 23521), (419, 23530), (420, 23536), (427, 23650), (431, 23770), (440, 23950), (455, 24175), (466, 24325), (482, 24481), (483, 24490), (487, 24532), (501, 24631), (502, 24637), (509, 24667), (511, 24700), (514, 24712),

Gene: Togo_29 Start: 19390, Stop: 24912, Start Num: 1

Candidate Starts for Togo_29:

(Start: 1 @19390 has 32 MA's), (3, 19477), (4, 19564), (6, 19597), (7, 19621), (13, 19744), (14, 19765), (15, 19771), (16, 19795), (20, 19825), (26, 19864), (33, 19948), (41, 19984), (44, 20008), (49, 20047), (103, 20437), (119, 20605), (122, 20665), (127, 20737), (128, 20749), (131, 20785), (133, 20809), (141, 20908), (142, 20911), (144, 20941), (146, 21016), (147, 21028), (150, 21070), (152, 21100), (156, 21151), (168, 21292), (169, 21310), (170, 21322), (172, 21331), (183, 21433), (185, 21454), (186, 21475), (187, 21526), (188, 21529), (194, 21613), (198, 21643), (201, 21661), (206, 21730), (209, 21763), (211, 21769), (213, 21778), (216, 21784), (227, 21838), (233, 21910), (234, 21919), (236, 21940), (241, 21997), (243, 22033), (251, 22114), (253, 22117), (258, 22186), (276, 22354), (284, 22420), (285, 22423), (291, 22447), (296, 22474), (297, 22477), (298, 22480), (299, 22486), (307, 22555), (309, 22564), (313, 22609), (314, 22618), (325, 22696), (330, 22750), (337, 22804), (343, 22861), (353, 22903), (357, 22939), (361, 23002), (367, 23053), (380, 23164), (386, 23203), (390, 23284), (403, 23458), (404, 23461), (407, 23494), (417, 23701), (419, 23710), (420, 23716), (422, 23737), (436, 24031), (449, 24238), (455, 24364), (466, 24514), (473, 24625), (482, 24670), (483, 24679), (484, 24685), (487, 24721), (499, 24814), (502, 24826), (509, 24856), (511, 24889), (514, 24901),

Gene: Twister6_31 Start: 19817, Stop: 25348, Start Num: 1

Candidate Starts for Twister6_31:

(Start: 1 @19817 has 32 MA's), (3, 19904), (4, 19991), (6, 20024), (7, 20048), (13, 20171), (14, 20192), (15, 20198), (16, 20222), (20, 20252), (26, 20291), (33, 20375), (41, 20411), (44, 20435), (49, 20474), (103, 20864), (119, 21032), (122, 21092), (127, 21164), (128, 21176), (131, 21212), (133, 21236), (141, 21335), (142, 21338), (144, 21368), (146, 21443), (147, 21455), (150, 21497), (152, 21527), (156, 21578), (168, 21719), (169, 21737), (170, 21749), (172, 21758), (183, 21860), (185, 21881), (186, 21902), (187, 21953), (188, 21956), (189, 21962), (194, 22040), (198, 22070), (201, 22088), (206, 22157), (209, 22190), (211, 22196), (213, 22205), (216, 22211), (227, 22265), (230, 22310), (233, 22337), (234, 22346), (236, 22367), (241, 22424), (243, 22460), (251, 22541), (253, 22544), (258, 22613), (265, 22685), (276, 22781), (284, 22847), (285, 22850), (291, 22874), (296, 22901), (297, 22904), (298, 22907), (299, 22913), (307, 22982), (309, 22991), (313, 23036), (314, 23045), (325, 23123), (330, 23177), (337, 23231), (343, 23288), (353, 23330), (357, 23366), (361, 23429), (367, 23480), (380, 23591), (386, 23630), (390, 23711), (403, 23885), (404, 23888), (407, 23921), (417, 24128), (419, 24137), (420, 24143), (436, 24455), (449, 24662), (455, 24800), (466, 24950), (473, 25061), (482, 25106), (483, 25115), (484, 25121), (487, 25157), (499, 25250), (502, 25262), (509, 25292), (511, 25325), (514, 25337),

Gene: Twonlo_28 Start: 20903, Stop: 26020, Start Num: 11

Candidate Starts for Twonlo_28:

(Start: 11 @20903 has 69 MA's), (22, 21023), (27, 21077), (30, 21110), (36, 21167), (38, 21176), (39, 21179), (45, 21248), (46, 21260), (49, 21275), (51, 21311), (54, 21350), (55, 21356), (57, 21362), (62, 21395), (67, 21437), (69, 21446), (71, 21455), (72, 21461), (85, 21539), (88, 21557), (95, 21596), (104, 21653), (106, 21668), (116, 21761), (127, 21932), (134, 22004), (137, 22022), (141, 22100), (144, 22133), (145, 22169), (146, 22208), (147, 22220), (152, 22292), (156, 22343), (158, 22364), (159, 22376), (163, 22427), (165, 22457), (172, 22523), (183, 22625), (186, 22667), (188, 22721), (190, 22751), (191, 22754), (194, 22805), (197, 22832), (201, 22853), (205, 22919), (209, 22955), (211, 22961), (222, 23000), (225, 23012), (226, 23024), (227, 23030), (229, 23051), (237, 23135), (238, 23150), (240, 23174), (250, 23309), (253, 23321), (262, 23384), (263, 23387), (279, 23492), (280, 23510), (290, 23540), (301, 23591), (310, 23648), (317, 23723), (318, 23732), (319, 23741), (320, 23747), (327, 23798), (331, 23831), (332, 23843), (335, 23864), (336, 23876), (339, 23909), (342, 23930), (359, 24062), (365, 24116), (388, 24323), (396, 24437), (398, 24449), (407, 24575), (410, 24593), (413, 24671), (422, 24860), (424, 24890), (429, 25061), (434, 25088), (444, 25295), (445, 25298), (447, 25316), (464, 25565), (467, 25583), (468, 25595), (479, 25712), (496, 25868), (497, 25871), (505, 25913), (507, 25931), (510, 25946), (512, 25985),

Gene: Tycho_32 Start: 23624, Stop: 28639, Start Num: 11

Candidate Starts for Tycho_32:

(Start: 11 @23624 has 69 MA's), (18, 23711), (22, 23744), (27, 23798), (29, 23822), (32, 23864), (34, 23882), (38, 23897), (45, 23969), (49, 23996), (54, 24071), (56, 24080), (63, 24137), (64, 24155), (65, 24161), (106, 24413), (111, 24473), (122, 24614), (124, 24647), (127, 24689), (134, 24761), (136, 24776), (137, 24779), (144, 24890), (145, 24926), (147, 24977), (150, 25019), (152, 25049), (156, 25100), (159, 25133), (160, 25166), (161, 25178), (169, 25259), (175, 25292), (176, 25295), (180, 25352), (184, 25388), (185, 25403), (186, 25424), (187, 25475), (201, 25610), (202, 25619), (209, 25712), (211, 25718), (212, 25724), (215, 25733), (220, 25745), (222, 25757), (225, 25769), (227, 25787), (232, 25844), (241, 25946), (242, 25964), (244, 25988), (247, 26036), (253, 26066), (261, 26114), (264, 26120), (281, 26243), (282, 26246), (283, 26252), (296, 26309), (300, 26321), (302, 26342), (304, 26348), (310, 26381), (316, 26444), (323, 26498), (329, 26561), (344, 26672), (350, 26699), (351, 26705), (361, 26807), (368, 26873), (385, 27005), (387, 27032), (393, 27113), (397, 27173), (400, 27218), (417, 27524), (419, 27533), (422, 27560), (426, 27629), (432, 27758), (438, 27857), (450, 28001), (453, 28070), (454, 28076), (455, 28082), (459, 28157), (462, 28187), (473, 28325), (484, 28385), (487, 28421), (490, 28466), (495, 28493), (502, 28532), (503, 28538), (506, 28544), (510, 28571), (513, 28607), (515, 28619),

Gene: Valary_32 Start: 20326, Stop: 25857, Start Num: 1

Candidate Starts for Valary_32:

(Start: 1 @20326 has 32 MA's), (3, 20413), (4, 20500), (6, 20533), (13, 20680), (14, 20701), (15, 20707), (16, 20731), (20, 20761), (26, 20800), (33, 20884), (41, 20920), (44, 20944), (49, 20983), (103, 21373), (119, 21541), (122, 21601), (127, 21673), (128, 21685), (131, 21721), (133, 21745), (141, 21844), (142, 21847), (144, 21877), (146, 21952), (147, 21964), (150, 22006), (152, 22036), (156, 22087), (168, 22228), (169, 22246), (170, 22258), (172, 22267), (183, 22369), (185, 22390), (186, 22411), (187, 22462), (188, 22465), (194, 22549), (198, 22579), (201, 22597), (206, 22666), (209, 22699), (211, 22705), (213, 22714), (216, 22720), (227, 22774), (233, 22846), (234, 22855), (236, 22876), (241, 22933), (243, 22969), (251, 23050), (253, 23053), (258, 23122), (276, 23290), (284, 23356), (285, 23359), (291, 23383), (296, 23410), (297, 23413), (298, 23416), (299, 23422), (307, 23491), (309, 23500), (313, 23545), (314, 23554), (325, 23632), (330, 23686), (337, 23740), (343, 23797), (353, 23839), (357, 23875), (361, 23938), (367, 23989), (376, 24073), (380, 24100), (386, 24139), (387, 24160), (390, 24220), (403, 24394), (404, 24397), (407, 24430), (417, 24637), (419, 24646), (420, 24652), (436, 24964), (449, 25171), (455, 25309), (466, 25459), (473, 25570), (482, 25615), (483, 25624), (484, 25630), (487, 25666), (499, 25759), (502, 25771), (509, 25801), (511, 25834), (514, 25846),

Gene: VanDeWege_32 Start: 20198, Stop: 25696, Start Num: 1

Candidate Starts for VanDeWege_32:

(Start: 1 @20198 has 32 MA's), (3, 20285), (4, 20372), (6, 20405), (7, 20429), (13, 20552), (14, 20573), (15, 20579), (16, 20603), (20, 20633), (26, 20672), (33, 20756), (41, 20792), (44, 20816), (49, 20855), (103, 21245), (119, 21413), (122, 21473), (127, 21545), (128, 21557), (131, 21593), (133, 21617), (141, 21716), (142, 21719), (144, 21749), (146, 21824), (147, 21836), (150, 21878), (152, 21908), (156, 21959), (168, 22100), (169, 22118), (170, 22130), (172, 22139), (183, 22241), (185, 22262), (186, 22283), (187, 22334), (188, 22337), (189, 22343), (194, 22421), (198, 22451), (201, 22469), (206, 22538), (209, 22571), (211, 22577), (213, 22586), (216, 22592), (227, 22646), (230, 22691), (233, 22718), (234, 22727), (236, 22748), (241, 22805), (243, 22841), (251, 22922), (253, 22925), (258, 22994), (265, 23066), (276, 23162), (284, 23228), (285, 23231), (291, 23255), (296, 23282), (297, 23285), (298, 23288), (299, 23294), (307, 23363), (309, 23372), (313, 23417), (314, 23426), (325, 23504), (330, 23558), (337, 23612), (343, 23669), (353, 23711), (357, 23747), (361, 23810), (367, 23861), (369, 23891), (380, 23972), (386, 24011), (390, 24092), (394, 24134), (403, 24266), (404, 24269), (407, 24302), (419, 24518), (420, 24524), (427, 24638), (430, 24749), (439, 24911), (443, 24992), (448, 25019), (466, 25298), (473, 25409), (482, 25454), (483, 25463), (484, 25469), (487, 25505), (499, 25598), (502, 25610), (509, 25640), (511, 25673), (514, 25685),

Gene: Verity_32 Start: 25053, Stop: 29963, Start Num: 11

Candidate Starts for Verity_32:

(Start: 11 @25053 has 69 MA's), (22, 25173), (23, 25185), (26, 25206), (27, 25227), (29, 25251), (37, 25317), (38, 25326), (39, 25329), (50, 25431), (54, 25500), (56, 25509), (76, 25617), (80, 25638), (83, 25680), (85, 25686), (95, 25743), (97, 25752), (106, 25815), (114, 25914), (117, 25926), (121, 25968), (124, 26049), (126, 26073), (128, 26103), (132, 26160), (134, 26163), (135, 26169), (137, 26181), (140, 26253), (144, 26292), (145, 26328), (146, 26367), (147, 26379), (150, 26421), (152, 26451), (159, 26535), (160, 26568), (169, 26661), (172, 26682), (176, 26697), (183, 26784), (186, 26826), (188, 26880), (189, 26886), (191, 26913), (200, 27000), (201, 27012), (202, 27021), (206, 27081), (207, 27093), (211, 27120), (223, 27162), (224, 27168), (226, 27183), (227, 27189), (230, 27234), (233, 27261), (234, 27270), (235, 27273), (245, 27411), (251, 27465), (253, 27468), (268, 27555), (293, 27657), (303, 27702), (304, 27705), (315, 27795), (352, 28071), (354, 28086), (355, 28089), (366, 28212), (368, 28236), (373, 28299), (384, 28356), (393, 28473), (395, 28515), (397, 28533), (405, 28644), (412, 28746), (418, 28878), (419, 28884), (420, 28890), (422, 28911), (425, 28953), (435, 29172), (436, 29199), (439, 29271), (440, 29310), (456, 29517), (460, 29583), (461, 29589), (469, 29655), (476, 29751), (484, 29790), (488, 29853), (489, 29856), (491, 29874), (493, 29889), (498, 29916), (500, 29928),

Gene: ViaConlectus_33 Start: 23474, Stop: 28399, Start Num: 11

Candidate Starts for ViaConlectus_33:

(Start: 11 @23474 has 69 MA's), (22, 23594), (23, 23606), (27, 23648), (29, 23672), (37, 23738), (38, 23747), (45, 23819), (50, 23852), (54, 23921), (56, 23930), (59, 23948), (69, 24014), (72, 24029), (76, 24038), (83, 24101), (85, 24107), (90, 24134), (95, 24164), (97, 24173), (106, 24236), (108, 24248), (114, 24335), (117, 24347), (124, 24470), (126, 24494), (127, 24512), (128, 24524), (134, 24584), (135, 24590), (137, 24602), (144, 24713), (145, 24749), (146, 24788), (147, 24800), (150, 24842), (152, 24872), (155, 24914), (156, 24923), (157, 24926), (159, 24956), (160, 24989), (169, 25082), (172, 25103), (176, 25118), (183, 25205), (185, 25226), (186, 25247), (188, 25301), (191, 25334), (194, 25385), (201, 25433), (202, 25442), (206, 25502), (207, 25514), (209, 25535), (211, 25541), (223, 25583), (224, 25589), (226, 25604), (227, 25610), (234, 25691), (235, 25694), (237, 25715), (241, 25769), (245, 25832), (253, 25889), (268, 25976), (277, 26042), (300, 26099), (301, 26102), (304, 26126), (315, 26216), (321, 26264), (352, 26492), (355, 26510), (358, 26567), (368, 26657), (373, 26720), (385, 26801), (387, 26828), (392, 26900), (393, 26909), (397, 26969), (405, 27080), (417, 27311), (419, 27320), (422, 27347), (425, 27389), (427, 27446), (435, 27608), (436, 27635), (439, 27707), (440, 27746), (456, 27953), (461, 28025), (469, 28091), (484, 28226), (488, 28289), (489, 28292), (491, 28310), (493, 28325), (498, 28352), (500, 28364),

Gene: Vivi2_35 Start: 25706, Stop: 30517, Start Num: 11

Candidate Starts for Vivi2_35:

(Start: 11 @25706 has 69 MA's), (27, 25880), (29, 25904), (58, 26042), (67, 26075), (70, 26087), (73, 26099), (77, 26117), (81, 26129), (86, 26174), (89, 26186), (106, 26285), (118, 26405), (119, 26426), (122, 26486), (124, 26519), (127, 26561), (130, 26597), (134, 26633), (136, 26648), (137, 26651), (144, 26762), (145, 26798), (147, 26849), (150, 26891), (152, 26921), (156, 26972), (159, 27005), (160, 27038), (161, 27050), (169, 27131), (172, 27152), (175, 27164), (184, 27260), (185, 27275), (186, 27296), (187, 27347), (189, 27356), (201, 27482), (202, 27491), (206, 27551), (212, 27596), (215, 27605), (223, 27632), (227, 27659), (229, 27680), (232, 27716), (239, 27782), (241, 27818), (246, 27905), (247, 27908), (261, 27986), (264, 27992), (282, 28118), (304, 28220), (310, 28253), (316, 28316), (323, 28370), (329, 28433), (344, 28544), (350, 28571), (351, 28577), (361, 28679), (368, 28745), (369, 28760), (371, 28772), (375, 28799), (379, 28838), (387, 28904), (393, 28985), (397, 29045), (400, 29090), (419, 29405), (420, 29411), (421, 29429), (428, 29522), (438, 29726), (450, 29870), (453, 29945), (459, 30032), (495, 30371), (502, 30410), (503, 30416), (506, 30422), (510, 30449), (513, 30485), (515, 30497),

Gene: Wizard_29 Start: 19524, Stop: 25055, Start Num: 1

Candidate Starts for Wizard_29:

(Start: 1 @19524 has 32 MA's), (3, 19611), (4, 19698), (6, 19731), (7, 19755), (13, 19878), (14, 19899), (15, 19905), (16, 19929), (20, 19959), (26, 19998), (33, 20082), (41, 20118), (44, 20142), (49, 20181), (103, 20571), (119, 20739), (122, 20799), (127, 20871), (128, 20883), (131, 20919), (133, 20943), (141, 21042), (142, 21045), (144, 21075), (146, 21150), (147, 21162), (150, 21204), (152, 21234), (156, 21285), (168, 21426), (169, 21444), (170, 21456), (172, 21465), (183, 21567), (185, 21588), (186, 21609), (187, 21660), (188, 21663), (189, 21669), (194, 21747), (198, 21777), (201, 21795), (206, 21864), (209, 21897), (211, 21903), (213, 21912), (216, 21918), (227, 21972), (230, 22017), (233, 22044), (234, 22053), (236, 22074), (241, 22131), (243, 22167), (251, 22248), (253, 22251), (258, 22320), (265, 22392), (276, 22488), (284, 22554), (285, 22557), (291, 22581), (296, 22608), (297, 22611), (298, 22614), (299, 22620), (307, 22689), (309, 22698), (313, 22743), (314, 22752), (325, 22830), (330, 22884), (337, 22938), (343, 22995), (353, 23037), (357, 23073), (361, 23136), (367, 23187), (380, 23298), (386, 23337), (390, 23418), (403, 23592), (404, 23595), (407, 23628), (417, 23835), (419, 23844), (420, 23850), (436, 24162), (449, 24369), (455, 24507), (466, 24657), (473, 24768), (482, 24813), (483, 24822), (484, 24828), (487, 24864), (499, 24957), (502, 24969), (509, 24999), (511, 25032), (514, 25044),

Gene: YorkOnyx_33 Start: 23880, Stop: 28898, Start Num: 11

Candidate Starts for YorkOnyx_33:

(Start: 11 @23880 has 69 MA's), (17, 23955), (22, 24000), (27, 24054), (29, 24078), (32, 24120), (34, 24138), (38, 24153), (45, 24225), (49, 24252), (54, 24327), (56, 24336), (63, 24393), (64, 24411), (65, 24417), (68, 24435), (74, 24462), (96, 24600), (100, 24618), (106, 24669), (108, 24681), (111, 24729), (122, 24870), (124, 24903), (127, 24945), (134, 25017), (136, 25032), (137, 25035), (144, 25146), (145, 25182), (147, 25233), (150, 25275), (152, 25305), (159, 25389), (160, 25422), (169, 25515), (175, 25548), (176, 25551), (180, 25608), (184, 25644), (185, 25659), (186, 25680), (187, 25731), (189, 25740), (194, 25818), (201, 25866), (202, 25875), (209, 25968), (211, 25974), (212, 25980), (215, 25989), (222, 26013), (225, 26025), (227, 26043), (232, 26100), (239, 26166), (241, 26202), (244, 26244), (247, 26292), (253, 26322), (261, 26370), (264, 26376), (281, 26499), (282, 26502), (296, 26565), (300, 26577), (302, 26598), (304, 26604), (310, 26637), (316, 26700), (323, 26754), (329, 26817), (344, 26928), (350, 26955), (351, 26961), (361, 27063), (368, 27129), (385, 27261), (387, 27288), (393, 27369), (397, 27429), (400, 27474), (417, 27780), (419, 27789), (422, 27816), (432, 28014), (438, 28113), (450, 28257), (453, 28329), (454, 28335), (455, 28341), (459, 28416), (462, 28446), (473, 28584), (484, 28644), (487, 28680), (490, 28725), (495, 28752), (502, 28791), (503, 28797), (506, 28803), (510, 28830), (513, 28866), (515, 28878),

Gene: YungMoney_31 Start: 20893, Stop: 26415, Start Num: 1

Candidate Starts for YungMoney_31:

(Start: 1 @20893 has 32 MA's), (4, 21067), (6, 21100), (7, 21124), (13, 21247), (14, 21268), (15, 21274), (16, 21298), (20, 21328), (26, 21367), (41, 21487), (44, 21511), (49, 21550), (114, 22066), (119, 22108), (122, 22168), (127, 22240), (131, 22288), (138, 22342), (142, 22414), (144, 22444), (146, 22519), (147, 22531), (150, 22573), (152, 22603), (156, 22654), (164, 22747), (168, 22795), (169, 22813), (170, 22825), (172, 22834), (182, 22933), (183, 22936), (185, 22957), (186, 22978), (187, 23029), (188, 23032), (194, 23116), (198, 23146), (201, 23164), (203, 23191), (206, 23233), (222, 23311), (223, 23314), (224, 23320), (227, 23341), (228, 23344), (233, 23413), (235, 23425), (241, 23500), (251, 23617), (253, 23620), (256, 23668), (276, 23857), (284, 23923), (285, 23926), (291, 23950), (297, 23980), (298, 23983), (299, 23989), (305, 24034), (307, 24058), (309, 24067), (313, 24112), (314, 24121), (316, 24133), (321, 24178), (322, 24181), (325, 24199), (334, 24274), (347, 24382), (353, 24409), (361, 24508), (367, 24559), (380, 24670), (386, 24709), (390, 24790), (403, 24964), (404, 24967), (407, 25000), (417, 25210), (419, 25219), (423, 25267), (436, 25537), (449, 25744), (452, 25834), (455, 25867), (465, 26014), (466, 26017), (473, 26128), (483, 26182), (487, 26224), (499, 26317), (502, 26329), (509, 26359), (511, 26392), (514, 26404),

Gene: Zipp_32 Start: 24950, Stop: 29863, Start Num: 11

Candidate Starts for Zipp_32:

(Start: 11 @24950 has 69 MA's), (22, 25070), (23, 25082), (26, 25103), (27, 25124), (29, 25148), (37, 25214), (38, 25223), (39, 25226), (45, 25295), (50, 25328), (51, 25358), (54, 25397), (56, 25406), (76, 25514), (80, 25535), (83, 25577), (85, 25583), (95, 25640), (97, 25649), (106, 25712), (114, 25811), (117, 25823), (121, 25865), (124, 25946), (126, 25970), (128, 26000), (132, 26057), (134, 26060), (135, 26066), (137, 26078), (140, 26150), (144, 26189), (145, 26225), (146, 26264), (147, 26276), (150, 26318), (152, 26348), (159, 26432), (160, 26465), (169, 26558), (172, 26579), (176, 26594), (183, 26681), (186, 26723), (188, 26777), (189, 26783), (191, 26810), (196, 26885), (201, 26909), (202, 26918), (206, 26978), (207, 26990), (210, 27014), (211, 27017), (221, 27047), (223, 27059), (224, 27065), (226, 27080), (227, 27086), (230, 27131), (233, 27158), (234, 27167), (235, 27170), (245, 27308), (251, 27362), (253, 27365), (268, 27452), (303, 27599), (304, 27602), (315, 27692), (352, 27968), (354, 27983), (355, 27986), (366, 28109), (368, 28133), (373, 28196), (384, 28253), (393, 28370), (395, 28412), (397, 28430), (405, 28541), (412, 28643), (418, 28775), (420, 28787), (422, 28808), (425, 28853), (435, 29072), (436, 29099), (439, 29171), (440, 29210), (456, 29417), (460, 29483), (461, 29489), (469, 29555), (476, 29651), (484, 29690), (488, 29753), (489, 29756), (491, 29774), (493, 29789), (498, 29816), (500, 29828),

Gene: Zitch_34 Start: 22821, Stop: 27749, Start Num: 11

Candidate Starts for Zitch_34:

(Start: 11 @22821 has 69 MA's), (22, 22941), (23, 22953), (27, 22995), (29, 23019), (31, 23028), (37, 23085), (38, 23094), (45, 23166), (54, 23268), (56, 23277), (59, 23295), (72, 23376), (76, 23385), (83, 23448), (85, 23454), (90, 23481), (95, 23511), (97, 23520), (106, 23583), (110, 23628), (117, 23694), (124, 23817), (126, 23841), (127, 23859), (134, 23931), (137, 23949), (140, 24021), (144, 24060), (145, 24096), (146, 24135), (147, 24147), (150, 24189), (152, 24219), (159, 24303), (160, 24336), (169, 24429), (176, 24465), (180, 24522), (183, 24552), (186, 24594), (188, 24648), (191, 24681), (194, 24732), (201, 24780), (202, 24789), (206, 24849), (207, 24861), (209, 24882), (211, 24888), (223, 24930), (224, 24936), (226, 24951), (227, 24957), (234, 25038), (235, 25041), (237, 25062), (241, 25116), (245, 25179), (253, 25236), (268, 25323), (277, 25389), (300, 25446), (301, 25449), (304, 25473), (315, 25563), (321, 25611), (352, 25839), (355, 25857), (358, 25914), (368, 26004), (373, 26067), (385, 26148), (387, 26175), (392, 26247), (393, 26256), (397, 26316), (405, 26427), (417, 26658), (419, 26667), (422, 26694), (425, 26736), (435, 26955), (436, 26982), (439, 27054), (440, 27093), (456, 27300), (461, 27372), (469, 27441), (484, 27576), (488, 27639), (489, 27642), (491, 27660), (493, 27675), (498, 27702), (500, 27714),