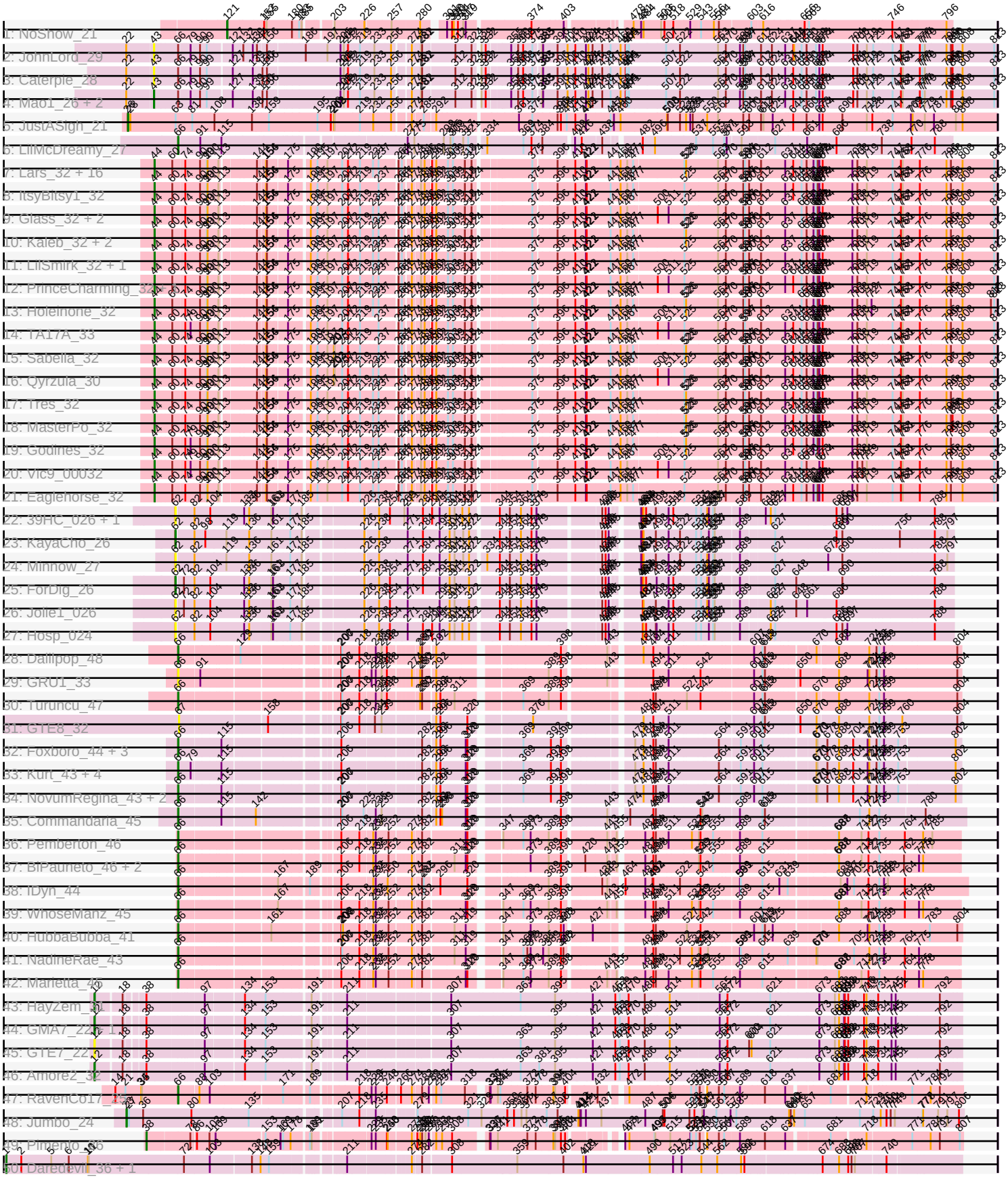
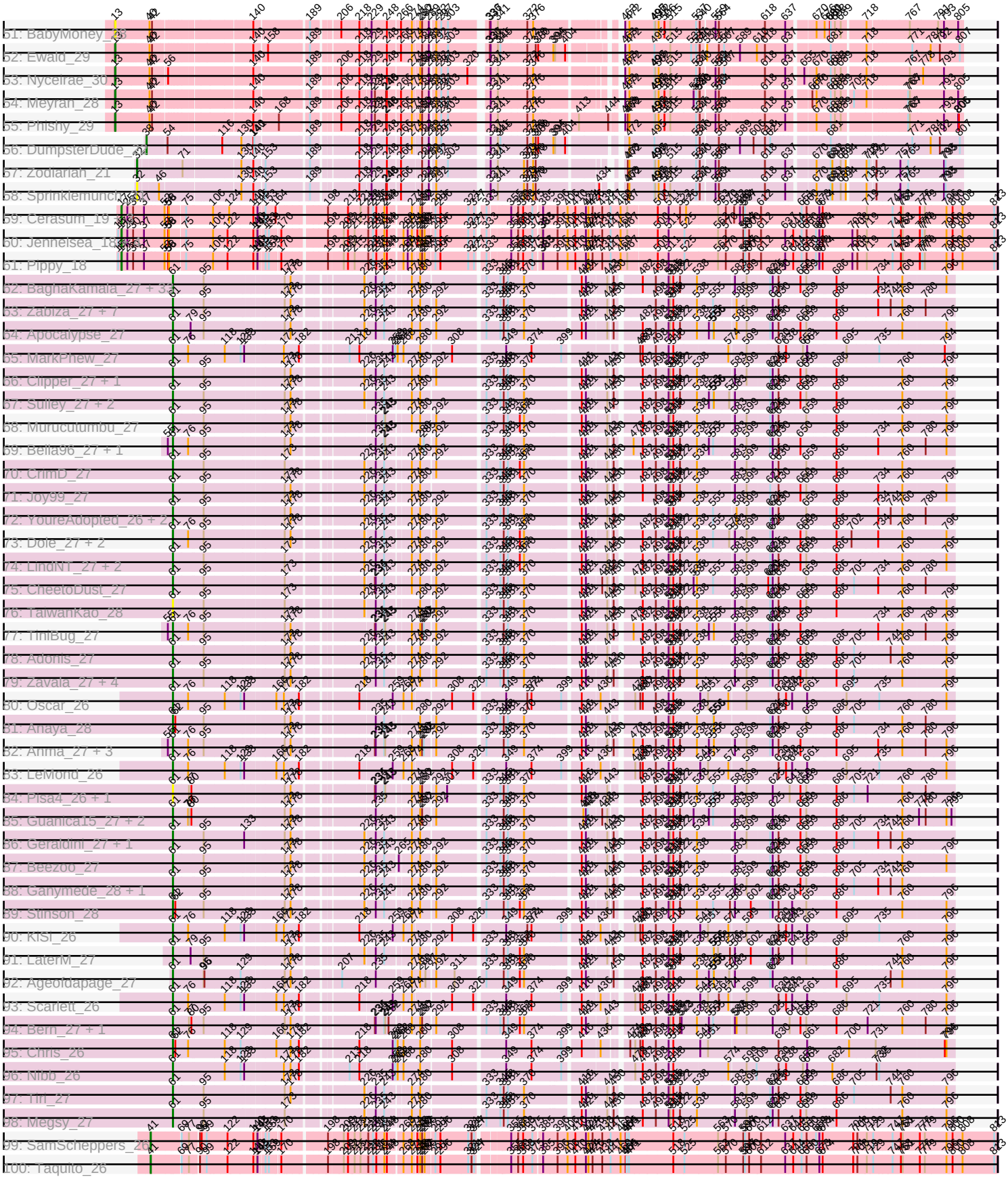
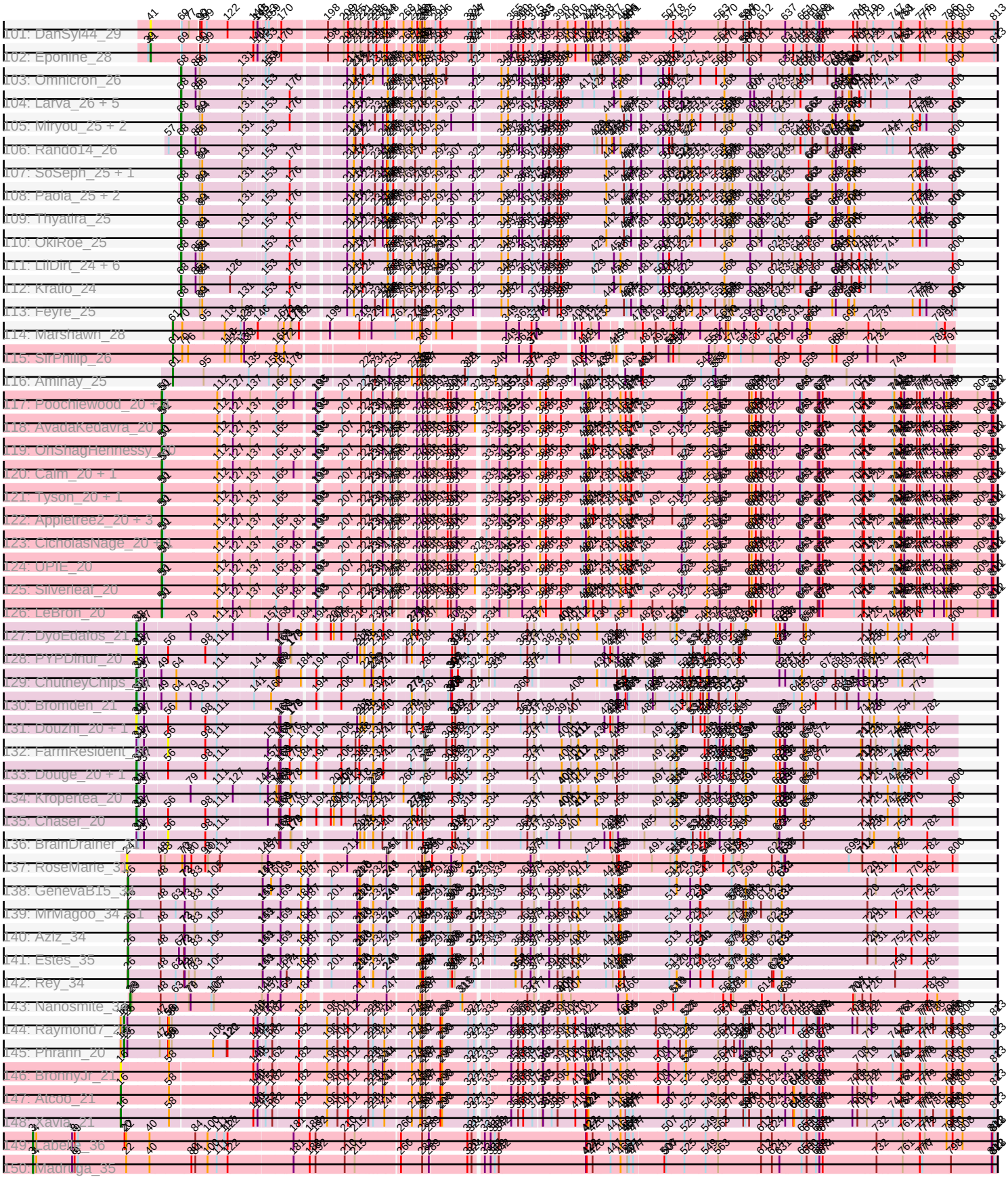
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1: NoShow_21
2: JohnLord_29
3: Caterpie_28
4: Mao1_26 + 2
5: JustASign_21
6: LilMcDreamy_27
7: Lars_32 + 16
8: ItsyBitsy1_32
9: Glass_32 + 2
10: Kaleb_32 + 2
11: LilSmirk_32 + 1
12: PrinceCharming_32
13: Holeinone_32
14: TA17A_33
15: Sabella_32
16: Qyrzula_30
17: Tres_32
18: MasterPo_32
19: Godines_32
20: Vic9_00032
21: Eaglehorse_32
22: 39HC_026 + 1
23: KayaCho_26
24: Minnow_27
25: ForDig_26
26: Jolie1_026
27: Hosp_024
28: Dallpop_48
29: GRO1_33
30: Turuncu_47
31: GTE8_32
32: Foxboro_44 + 3
33: Kurt_43 + 4
34: NovumRegina_43 + 2
35: Commandaria_45
36: Pemberton_46
37: BiPauneto_46 + 2
38: IDyn_44
39: WhoseManz_45
40: HubbaBubba_41
41: NadineRae_43
42: Marietta_45
43: HayZem_31
44: GMA7_22 + 1
45: GTE7_22
46: Amore2_32
47: RavenC017_32
48: Jumbo_24
49: Pinero_46
50: Daredevil_36 + 1

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151: SuperSonics_26
152: Patiekye_37
153: Demilore_37
154: D12_24 + 1
155: GodFather_25
156: Jeon_24

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 347180 Report

This analysis was run 11/14/26 on database version 672.

Pham number 347180 has 294 members, 32 are drafts.

Phages represented in each track:
- Track 1 : NoShow_21
- Track 2 : JohnLord_29
- Track 3 : Caterpie_28
- Track 4 : Mao1_26, Mask_27, Sejanus_27
- Track 5 : JustASigh_21
- Track 6 : LilMcDreamy_27
- Track 7 : Lars_32, Opia_32, Hedgerow_32, Rhinoforte_32, Phantasmagoria_32, Coffee_32, Rosebush_32, West99_32, FrenchFry_32, Blocker23_32, Ares_32, Boyle_32, Tinciduntsolum_33, Faze9_32, Brownie5_32, Arbiter_32, Kheth_32
- Track 8 : ItsyBitsy1_32
- Track 9 : Glass_32, Allegro_32, LizLemon_32
- Track 10 : Kaleb_32, Lephleur_32, Kolhan_32
- Track 11 : LilSmirk_32, Calamitous_32
- Track 12 : PrinceCharming_32, Bananafish_32
- Track 13 : Holeinone_32
- Track 14 : TA17A_33
- Track 15 : Sabella_32
- Track 16 : Qyrzula_30
- Track 17 : Tres_32
- Track 18 : MasterPo_32
- Track 19 : Godines_32
- Track 20 : Vic9_00032
- Track 21 : Eaglehorse_32
- Track 22 : 39HC_026, 40BC_026
- Track 23 : KayaCho_26
- Track 24 : Minnow_27
- Track 25 : ForDig_26
- Track 26 : Jolie1_026
- Track 27 : Hosp_024
- Track 28 : Dalilpop_48
- Track 29 : GRU1_33
- Track 30 : Turuncu_47
- Track 31 : GTE8_32
- Track 32 : Foxboro_44, Wheezy_43, Tracker_43, Arti_43
- Track 33 : Kurt_43, KidneyBean_43, Jifall16_42, Phomeo_42, Emianna_43
- Track 34 : NovumRegina_43, NatB6_43, GrootJr_45
- Track 35 : Commandaria_45

• Track 36 : Pemberton_46
• Track 37 : BiPauneto_46, Yndexa_45, Sukkupi_45
• Track 38 : IDyn_44
• Track 39 : WhoseManz_45
• Track 40 : HubbaBubba_41
• Track 41 : NadineRae_43
• Track 42 : Marietta_45
• Track 43 : HayZem_31
• Track 44 : GMA7_22, Austin_32
• Track 45 : GTE7_22
• Track 46 : Amore2_32
• Track 47 : RavenCo17_25
• Track 48 : Jumbo_24
• Track 49 : Pimento_26
• Track 50 : Daredevil_36, Towmatter_35
• Track 51 : BabyMoney_28
• Track 52 : Ewald_29
• Track 53 : Nyceirae_30
• Track 54 : Meyran_28
• Track 55 : Phishy_29
• Track 56 : DumpsterDude_22
• Track 57 : Zodiariah_21
• Track 58 : Sprinklemunch_21
• Track 59 : Cerasum_19, BigPhil_19, Sarma624_19, Velveteen_19
• Track 60 : Jennelsea_18, LastJedi_18, Clifton_18, Crumble_18, Koella_18
• Track 61 : Pippy_18
• Track 62 : BaghaKamala_27, Durfee_27, Piatt_27, Boiiii_27, Belladonna_27, Pokerus_26, Peel_27, Padfoot_27, JAWS_27, Topper_27, AlishaPH_27, Dalmuri_27, Inky_27, Asayake_27, BarrelRoll_27, Jeckyll_27, Capricorn_27, BGlluviae_27, CREW_27, CallaLilly_27, Rosmarinus_27, Lokum_27, ShiaSurprise_27, Hyperbowlee_27, Jarvi_27, Homura_27, CaseJules_27, BEEST_27, Blizzard_27, Spock_27, Twitch_27, Ramen_27, Lunahalos_27, Llorens_27
• Track 63 : Zabiza_27, Rapunzel97_27, Slimphazie_27, Jayhawk_27, Veliki_27, HedwigODU_27, Adephagia_27, ActinUp_27
• Track 64 : Apocalypse_27
• Track 65 : MarkPhew_27
• Track 66 : Clipper_27, MacKat_27
• Track 67 : Sulley_27, Deby_27, Angelica_27
• Track 68 : Murucutumbu_27
• Track 69 : Bella96_27, DartGoblin_27
• Track 70 : CrimD_27
• Track 71 : Joy99_27
• Track 72 : YoureAdopted_26, Tachez_27, Atiba_27
• Track 73 : Dole_27, Illumine_27, Devera_27
• Track 74 : LindNT_27, TreyKay_27, Prithvi_27
• Track 75 : CheetoDust_27
• Track 76 : TaiwanKao_28
• Track 77 : TiniBug_27
• Track 78 : Adonis_27
• Track 79 : Zavala_27, Mynx_27, Emerson_27, Padpat_27, TruffulaTree_27
• Track 80 : Oscar_26
• Track 81 : Anaya_28
• Track 82 : Anma_27, DrHayes_27, Urkel_27, SamuelLPlaqson_27

• Track 83 : LeMond_26
• Track 84 : Pisa4_26, Pisa1_26
• Track 85 : Guanica15_27, Yunkel11_27, Efra2_27
• Track 86 : Geraldini_27, MeaningOfLife_27
• Track 87 : Beezoo_27
• Track 88 : Ganymede_28, QuincyRose_26
• Track 89 : Stinson_28
• Track 90 : KiSi_26
• Track 91 : LaterM_27
• Track 92 : Ageofdapage_27
• Track 93 : Scarlett_26
• Track 94 : Bern_27, Kheparia_29
• Track 95 : Chris_26
• Track 96 : Nibb_26
• Track 97 : Tiri_27
• Track 98 : Megsy_27
• Track 99 : SamScheppers_26
• Track 100 : Taquito_26
• Track 101 : DanSyl44_29
• Track 102 : Eponine_28
• Track 103 : Omnicron_26
• Track 104 : Larva_26, Neighly_26, Psycho_26, Edugator_25, Dadosky_26, AlleyCat_26
• Track 105 : Miryou_25, Gengar_25, Waterfoul_25
• Track 106 : Rando14_26
• Track 107 : SoSeph_25, Heftyboy_25
• Track 108 : Paola_25, Guillsminger_25, Leston_25
• Track 109 : Thyatira_25
• Track 110 : OkiRoe_25
• Track 111 : LilDirt_24, Collard_25, ViviJ_24, BananenDer11_25, DoubleChamp_25, Agent47_25, InvictusManeo_25
• Track 112 : Kratio_24
• Track 113 : Feyre_25
• Track 114 : Marshawn_28
• Track 115 : SirPhilip_26
• Track 116 : Aminay_25
• Track 117 : Poochiewood_20, Wyatt2_20, MAckerman_20, Acquire49_20, Rose5_20
• Track 118 : AvadaKedavra_20
• Track 119 : OhShagHennessy_20
• Track 120 : Calm_20, Zaria_20
• Track 121 : Tyson_20, Wamburgrxpress_20
• Track 122 : Appletree2_20, DirkDirk_20, Enceladus_20, JoeDirt_20
• Track 123 : CicholasNage_20, Halena_20
• Track 124 : UPIE_20
• Track 125 : Silverleaf_20
• Track 126 : LeBron_20
• Track 127 : DyoEdafos_21
• Track 128 : PYPDinur_20
• Track 129 : ChutneyChips_20
• Track 130 : Bromden_21
• Track 131 : Douzhi_20, Sheng711_20
• Track 132 : FarmResident_20

• Track 133 : Douge_20, Quby_20
• Track 134 : Kropertea_20
• Track 135 : Chaser_20
• Track 136 : BrainDrainer_21
• Track 137 : RoseMarie_31
• Track 138 : GenevaB15_34
• Track 139 : MrMagoo_34, GardenSalsa_34
• Track 140 : Aziz_34
• Track 141 : Estes_35
• Track 142 : Rey_34
• Track 143 : Nanosmite_34
• Track 144 : Raymond7_20
• Track 145 : Phrann_20
• Track 146 : BronnyJr_21
• Track 147 : Atcoo_21
• Track 148 : Xavia_21
• Track 149 : Labelle_36
• Track 150 : Madruga_35
• Track 151 : SuperSonics_36
• Track 152 : Patience_37
• Track 153 : Demikore_37
• Track 154 : D12_24, PR_24
• Track 155 : GodPhather_25
• Track 156 : Jeon_24

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

The start number called the most often in the published annotations is 61, it was called in 98 of the 262 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• ActinUp_27, Adephagia_27, Adonis_27, Ageofdapage_27, AlishaPH_27, Aminay_25, Anaya_28, Angelica_27, Anma_27, Apocalypse_27, Asayake_27, Atiba_27, BEEST_27, BGlluviae_27, BaghaKamala_27, BarrelRoll_27, Beezoo_27, Bella96_27, Belladonna_27, Bern_27, Blizzard_27, Boiiii_27, CREW_27, CallaLilly_27, Capricorn_27, CaseJules_27, CheetoDust_27, Chris_26, Clipper_27, CrimD_27, Dalmuri_27, DartGoblin_27, Deby_27, Devera_27, Dole_27, DrHayes_27, Durfee_27, Efra2_27, Emerson_27, Ganymede_28, Geraldini_27, Guanica15_27, HedwigODU_27, Homura_27, Hyperbowlee_27, Illumine_27, Inky_27, JAWS_27, Jarvi_27, Jayhawk_27, Jeckyll_27, Joy99_27, Kheparia_29, KiSi_26, LaterM_27, LeMond_26, LindNT_27, Llorens_27, Lokum_27, Lunahalos_27, MacKat_27, MarkPhew_27, Marshawn_28, MeaningOfLife_27, Megsy_27, Murucutumbu_27, Mynx_27, Nibb_26, Oscar_26, Padfoot_27, Padpat_27, Peel_27, Piatt_27, Pisa1_26, Pisa4_26, Pokerus_26, Prithvi_27, QuincyRose_26, Ramen_27, Rapunzel97_27, Rosmarinus_27, SamuelLPlaqson_27, Scarlett_26, ShiaSurprise_27, SirPhilip_26, Slimphazie_27, Spock_27, Stinson_28, Sulley_27, Tachez_27, TaiwanKao_28, TiniBug_27, Tiri_27, Topper_27, TreyKay_27, TruffulaTree_27, Twitch_27, Urkel_27, Veliki_27, YoureAdopted_26, Yunkel11_27, Zabiza_27, Zavala_27,

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

•

Genes that do not have the "Most Annotated" start:
• 39HC_026, 40BC_026, Acquire49_20, Agent47_25, Allegro_32, AlleyCat_26, Amore2_32, Appletree2_20, Arbiter_32, Ares_32, Arti_43, Atcoo_21, Austin_32, AvadaKedavra_20, Aziz_34, BabyMoney_28, Bananafish_32, BananenDer11_25, BiPauneto_46, BigPhil_19, Blocker23_32, Boyle_32, BrainDrainer_21, Bromden_21, BronnyJr_21, Brownie5_32, Calamitous_32, Calm_20, Caterpie_28, Cerasum_19, Chaser_20, ChutneyChips_20, CicholasNage_20, Clifton_18, Coffee_32, Collard_25, Commandaria_45, Crumble_18, D12_24, Dadosky_26, Dalilpop_48, DanSyl44_29, Daredevil_36, Demikore_37, DirkDirk_20, DoubleChamp_25, Douge_20, Douzhi_20, DumpsterDude_22, DyoEdafos_21, Eaglehorse_32, Edugator_25, Emianna_43, Enceladus_20, Eponine_28, Estes_35, Ewald_29, FarmResident_20, Faze9_32, Feyre_25, ForDig_26, Foxboro_44, FrenchFry_32, GMA7_22, GRU1_33, GTE7_22, GTE8_32, GardenSalsa_34, GenevaB15_34, Gengar_25, Glass_32, GodPhather_25, Godines_32, GrootJr_45, Guillsminger_25, Halena_20, HayZem_31, Hedgerow_32, Heftyboy_25, Holeinone_32, Hosp_024, HubbaBubba_41, IDyn_44, InvictusManeo_25, ItsyBitsy1_32, Jennelsea_18, Jeon_24, Jifall16_42, JoeDirt_20, JohnLord_29, Jolie1_026, Jumbo_24, JustASigh_21, Kaleb_32, KayaCho_26, Kheth_32, KidneyBean_43, Koella_18, Kolhan_32, Kratio_24, Kropertea_20, Kurt_43, Labelle_36, Lars_32, Larva_26, LastJedi_18, LeBron_20, Lephleur_32, Leston_25, LilDirt_24, LilMcDreamy_27, LilSmirk_32, LizLemon_32, MAckerman_20, Madruga_35, Mao1_26, Marietta_45, Mask_27, MasterPo_32, Meyran_28, Minnow_27, Miryou_25, MrMagoo_34, NadineRae_43, Nanosmite_34, NatB6_43, Neighly_26, NoShow_21, NovumRegina_43, Nyceirae_30, OhShagHennessy_20, OkiRoe_25, Omnicron_26, Opia_32, PR_24, PYPDinur_20, Paola_25, Patience_37, Pemberton_46, Phantasmagoria_32, Phishy_29, Phomeo_42, Phrann_20, Pimento_26, Pippy_18, Poochiewood_20, PrinceCharming_32, Psycho_26, Quby_20, Qyrzula_30, Rando14_26, RavenCo17_25, Raymond7_20, Rey_34, Rhinoforte_32, Rose5_20, RoseMarie_31, Rosebush_32, Sabella_32, SamScheppers_26, Sarma624_19, Sejanus_27, Sheng711_20, Silverleaf_20, SoSeph_25, Sprinklemunch_21, Sukkupi_45, SuperSonics_36, TA17A_33, Taquito_26, Thyatira_25, Tinciduntsolum_33, Towmatter_35, Tracker_43, Tres_32, Turuncu_47, Tyson_20, UPIE_20, Velveteen_19, Vic9_00032, ViviJ_24, Wamburgrxpress_20, Waterfoul_25, West99_32, Wheezy_43, WhoseManz_45, Wyatt2_20, Xavia_21, Yndexa_45, Zaria_20, Zodiariah_21,

Summary by start number:

Start 1:
• Found in 2 of 294 (0.7%) of genes in pham
• Manual Annotations of this start: 2 of 262
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Daredevil_36 (DL), Towmatter_35 (DL),

Start 3:
• Found in 5 of 294 (1.7%) of genes in pham
• Manual Annotations of this start: 3 of 262
• Called 60.0% of time when present
• Phage (with cluster) where this start called: Labelle_36 (U), Madruga_35 (U), Patience_37 (U),

Start 4:

• Found in 5 of 294 (1.7%) of genes in pham
• Manual Annotations of this start: 1 of 262
• Called 40.0% of time when present
• Phage (with cluster) where this start called: Demikore_37 (U), SuperSonics_36 (U),

Start 12:
• Found in 5 of 294 (1.7%) of genes in pham
• Manual Annotations of this start: 3 of 262
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Amore2_32 (CS1), Austin_32 (CS1), GMA7_22 (CS1), GTE7_22 (CS1), HayZem_31 (CS1),

Start 13:
• Found in 5 of 294 (1.7%) of genes in pham
• Manual Annotations of this start: 4 of 262
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BabyMoney_28 (DT), Ewald_29 (DT), Meyran_28 (DT), Nyceirae_30 (DT), Phishy_29 (DT),

Start 16:
• Found in 5 of 294 (1.7%) of genes in pham
• Manual Annotations of this start: 2 of 262
• Called 60.0% of time when present
• Phage (with cluster) where this start called: Atcoo_21 (P1), BronnyJr_21 (P1), Xavia_21 (P3),

Start 17:
• Found in 10 of 294 (3.4%) of genes in pham
• Manual Annotations of this start: 10 of 262
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BigPhil_19 (F1), Cerasum_19 (F1), Clifton_18 (F1), Crumble_18 (F1), Jennelsea_18 (F1), Koella_18 (F1), LastJedi_18 (F1), Pippy_18 (F1), Sarma624_19 (F1), Velveteen_19 (F1),

Start 19:
• Found in 2 of 294 (0.7%) of genes in pham
• Manual Annotations of this start: 2 of 262
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Phrann_20 (N), Raymond7_20 (N),

Start 23:
• Found in 1 of 294 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 262
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Jumbo_24 (DF3),

Start 24:
• Found in 1 of 294 (0.3%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: RoseMarie_31 (M1),

Start 26:

• Found in 7 of 294 (2.4%) of genes in pham
• Manual Annotations of this start: 7 of 262
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Aziz_34 (M2), Estes_35 (M2), GardenSalsa_34 (M2), GenevaB15_34 (M2), JustASigh_21 (AH), MrMagoo_34 (M2), Rey_34 (M2),

Start 28:
• Found in 2 of 294 (0.7%) of genes in pham
• Manual Annotations of this start: 1 of 262
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Nanosmite_34 (M3),

Start 31:
• Found in 12 of 294 (4.1%) of genes in pham
• Manual Annotations of this start: 6 of 262
• Called 83.3% of time when present
• Phage (with cluster) where this start called: Bromden_21 (L4), Chaser_20 (L4), ChutneyChips_20 (L4), Douge_20 (L4), Douzhi_20 (L4), DyoEdafos_21 (L4), Kropertea_20 (L4), PYPDinur_20 (L4), Quby_20 (L4), Sheng711_20 (L4),

Start 32:
• Found in 2 of 294 (0.7%) of genes in pham
• Manual Annotations of this start: 1 of 262
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Sprinklemunch_21 (DW), Zodiariah_21 (DW),

Start 38:
• Found in 7 of 294 (2.4%) of genes in pham
• Manual Annotations of this start: 2 of 262
• Called 28.6% of time when present
• Phage (with cluster) where this start called: DumpsterDude_22 (DW), Pimento_26 (DI),

Start 41:
• Found in 4 of 294 (1.4%) of genes in pham
• Manual Annotations of this start: 3 of 262
• Called 100.0% of time when present
• Phage (with cluster) where this start called: DanSyl44_29 (K4), Eponine_28 (K4), SamScheppers_26 (K4), Taquito_26 (K4),

Start 43:
• Found in 5 of 294 (1.7%) of genes in pham
• Manual Annotations of this start: 3 of 262
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Caterpie_28 (AD), JohnLord_29 (AD), Mao1_26 (AD), Mask_27 (AD), Sejanus_27 (AD),

Start 44:
• Found in 37 of 294 (12.6%) of genes in pham
• Manual Annotations of this start: 36 of 262
• Called 100.0% of time when present

• Phage (with cluster) where this start called: Allegro_32 (B2), Arbiter_32 (B2), Ares_32 (B2), Bananafish_32 (B2), Blocker23_32 (B2), Boyle_32 (B2), Brownie5_32 (B2), Calamitous_32 (B2), Coffee_32 (B2), Eaglehorse_32 (B2), Faze9_32 (B2), FrenchFry_32 (B2), Glass_32 (B2), Godines_32 (B2), Hedgerow_32 (B2), Holeinone_32 (B2), ItsyBitsy1_32 (B2), Kaleb_32 (B2), Kheth_32 (B2), Kolhan_32 (B2), Lars_32 (B2), Lephleur_32 (B2), LilSmirk_32 (B2), LizLemon_32 (B2), MasterPo_32 (B2), Opia_32 (B2), Phantasmagoria_32 (B2), PrinceCharming_32 (B2), Qyrzula_30 (B2), Rhinoforte_32 (B2), Rosebush_32 (B2), Sabella_32 (B2), TA17A_33 (B2), Tinciduntsolum_33 (B2), Tres_32 (B2), Vic9_00032 (B2), West99_32 (B2),

Start 45:
• Found in 4 of 294 (1.4%) of genes in pham
• Manual Annotations of this start: 4 of 262
• Called 100.0% of time when present
• Phage (with cluster) where this start called: D12_24 (W), GodPhather_25 (W), Jeon_24 (W), PR_24 (W),

Start 50:
• Found in 20 of 294 (6.8%) of genes in pham
• Manual Annotations of this start: 19 of 262
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Acquire49_20 (L1), Appletree2_20 (L1), AvadaKedavra_20 (L1), Calm_20 (L1), CicholasNage_20 (L1), DirkDirk_20 (L1), Enceladus_20 (L1), Halena_20 (L1), JoeDirt_20 (L1), LeBron_20 (L1), MAckerman_20 (L1), OhShagHennessy_20 (L1), Poochiewood_20 (L1), Rose5_20 (L1), Silverleaf_20 (L1), Tyson_20 (L1), UPIE_20 (L1), Wamburgrxpress_20 (L1), Wyatt2_20 (L1), Zaria_20 (L1),

Start 56:
• Found in 21 of 294 (7.1%) of genes in pham
• No Manual Annotations of this start.
• Called 9.5% of time when present
• Phage (with cluster) where this start called: BrainDrainer_21 (L4), FarmResident_20 (L4),

Start 61:
• Found in 103 of 294 (35.0%) of genes in pham
• Manual Annotations of this start: 98 of 262
• Called 100.0% of time when present
• Phage (with cluster) where this start called: ActinUp_27 (K1), Adephagia_27 (K1), Adonis_27 (K1), Ageofdapage_27 (K1), AlishaPH_27 (K1), Aminay_25 (K7), Anaya_28 (K1), Angelica_27 (K1), Anma_27 (K1), Apocalypse_27 (K1), Asayake_27 (K1), Atiba_27 (K1), BEEST_27 (K1), BGlluviae_27 (K1), BaghaKamala_27 (K1), BarrelRoll_27 (K1), Beezoo_27 (K1), Bella96_27 (K1), Belladonna_27 (K1), Bern_27 (K1), Blizzard_27 (K1), Boiiii_27 (K1), CREW_27 (K1), CallaLilly_27 (K1), Capricorn_27 (K1), CaseJules_27 (K1), CheetoDust_27 (K1), Chris_26 (K1), Clipper_27 (K1), CrimD_27 (K1), Dalmuri_27 (K1), DartGoblin_27 (K1), Deby_27 (K1), Devera_27 (K1), Dole_27 (K1), DrHayes_27 (K1), Durfee_27 (K1), Efra2_27 (K1), Emerson_27 (K1), Ganymede_28 (K1), Geraldini_27 (K1), Guanica15_27 (K1), HedwigODU_27 (K1), Homura_27 (K1), Hyperbowlee_27 (K1), Illumine_27 (K1), Inky_27 (K1), JAWS_27 (K1), Jarvi_27 (K1), Jayhawk_27 (K1), Jeckyll_27 (K1), Joy99_27 (K1), Kheparia_29 (K1), KiSi_26 (K1), LaterM_27 (K1), LeMond_26 (K1),

LindNT_27 (K1), Llorens_27 (K1), Lokum_27 (K1), Lunahalos_27 (K1), MacKat_27 (K1), MarkPhew_27 (K1), Marshawn_28 (K6), MeaningOfLife_27 (K1), Megsy_27 (K1), Murucutumbu_27 (K1), Mynx_27 (K1), Nibb_26 (K1), Oscar_26 (K1), Padfoot_27 (K1), Padpat_27 (K1), Peel_27 (K1), Piatt_27 (K1), Pisa1_26 (K1), Pisa4_26 (K1), Pokerus_26 (K1), Prithvi_27 (K1), QuincyRose_26 (K1), Ramen_27 (K1), Rapunzel97_27 (K1), Rosmarinus_27 (K1), SamuelLPlaqson_27 (K1), Scarlett_26 (K1), ShiaSurprise_27 (K1), SirPhilip_26 (K6), Slimphazie_27 (K1), Spock_27 (K1), Stinson_28 (K1), Sulley_27 (K1), Tachez_27 (K1), TaiwanKao_28 (K1), TiniBug_27 (K1), Tiri_27 (K1), Topper_27 (K1), TreyKay_27 (K1), TruffulaTree_27 (K1), Twitch_27 (K1), Urkel_27 (K1), Veliki_27 (K1), YoureAdopted_26 (K1), Yunkel11_27 (K1), Zabiza_27 (K1), Zavala_27 (K1),

Start 62:
• Found in 10 of 294 (3.4%) of genes in pham
• Manual Annotations of this start: 2 of 262
• Called 70.0% of time when present
• Phage (with cluster) where this start called: 39HC_026 (B6), 40BC_026 (B6), ForDig_26 (B6), Hosp_024 (B6), Jolie1_026 (B6), KayaCho_26 (B6), Minnow_27 (B6),

Start 66:
• Found in 32 of 294 (10.9%) of genes in pham
• Manual Annotations of this start: 26 of 262
• Called 84.4% of time when present
• Phage (with cluster) where this start called: Arti_43 (CR2), BiPauneto_46 (CR4), Commandaria_45 (CR2), Dalilpop_48 (CR1), Emianna_43 (CR2), Foxboro_44 (CR2), GRU1_33 (CR1), GrootJr_45 (CR2), HubbaBubba_41 (CR4), IDyn_44 (CR4), Jifall16_42 (CR2), KidneyBean_43 (CR2), Kurt_43 (CR2), LilMcDreamy_27 (B12), Marietta_45 (CR4), NadineRae_43 (CR4), NatB6_43 (CR2), NovumRegina_43 (CR2), Pemberton_46 (CR4), Phomeo_42 (CR2), RavenCo17_25 (CZ8), Sukkupi_45 (CR4), Tracker_43 (CR2), Turuncu_47 (CR1), Wheezy_43 (CR2), WhoseManz_45 (CR4), Yndexa_45 (CR4),

Start 67:
• Found in 2 of 294 (0.7%) of genes in pham
• No Manual Annotations of this start.
• Called 50.0% of time when present
• Phage (with cluster) where this start called: GTE8_32 (CR2),

Start 68:
• Found in 27 of 294 (9.2%) of genes in pham
• Manual Annotations of this start: 25 of 262
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Agent47_25 (K5), AlleyCat_26 (K5), BananenDer11_25 (K5), Collard_25 (K5), Dadosky_26 (K5), DoubleChamp_25 (K5), Edugator_25 (K5), Feyre_25 (K5), Gengar_25 (K5), Guillsminger_25 (K5), Heftyboy_25 (K5), InvictusManeo_25 (K5), Kratio_24 (K5), Larva_26 (K5), Leston_25 (K5), LilDirt_24 (K5), Miryou_25 (K5), Neighly_26 (K3), OkiRoe_25 (K5), Omnicron_26 (K5), Paola_25 (K5), Psycho_26 (K5), Rando14_26 (K5), SoSeph_25 (K5), Thyatira_25 (K5), ViviJ_24 (K5), Waterfoul_25 (K5),

Start 121:
• Found in 1 of 294 (0.3%) of genes in pham

• Manual Annotations of this start: 1 of 262
• Called 100.0% of time when present
• Phage (with cluster) where this start called: NoShow_21 (AB),

Summary by clusters:

There are 33 clusters represented in this pham: DL, M3, DI, M2, CZ8, K3, K1, AB, K7, K6, K5, K4, DW, DT, DF3, CS1, P3, P1, AD, AH, B12, N, L4, U, W, L1, CR2, F1, CR1, CR4, B6, B2, M1,

Info for manual annotations of cluster AB:
•Start number 121 was manually annotated 1 time for cluster AB.

Info for manual annotations of cluster AD:
•Start number 43 was manually annotated 3 times for cluster AD.

Info for manual annotations of cluster AH:
•Start number 26 was manually annotated 1 time for cluster AH.

Info for manual annotations of cluster B12:
•Start number 66 was manually annotated 1 time for cluster B12.

Info for manual annotations of cluster B2:
•Start number 44 was manually annotated 36 times for cluster B2.

Info for manual annotations of cluster B6:
•Start number 62 was manually annotated 2 times for cluster B6.

Info for manual annotations of cluster CR1:
•Start number 66 was manually annotated 2 times for cluster CR1.

Info for manual annotations of cluster CR2:
•Start number 66 was manually annotated 13 times for cluster CR2.

Info for manual annotations of cluster CR4:
•Start number 66 was manually annotated 9 times for cluster CR4.

Info for manual annotations of cluster CS1:
•Start number 12 was manually annotated 3 times for cluster CS1.

Info for manual annotations of cluster CZ8:
•Start number 66 was manually annotated 1 time for cluster CZ8.

Info for manual annotations of cluster DF3:
•Start number 23 was manually annotated 1 time for cluster DF3.

Info for manual annotations of cluster DI:
•Start number 38 was manually annotated 1 time for cluster DI.

Info for manual annotations of cluster DL:
•Start number 1 was manually annotated 2 times for cluster DL.

Info for manual annotations of cluster DT:

•Start number 13 was manually annotated 4 times for cluster DT.

Info for manual annotations of cluster DW:
•Start number 32 was manually annotated 1 time for cluster DW.
•Start number 38 was manually annotated 1 time for cluster DW.

Info for manual annotations of cluster F1:
•Start number 17 was manually annotated 10 times for cluster F1.

Info for manual annotations of cluster K1:
•Start number 61 was manually annotated 95 times for cluster K1.

Info for manual annotations of cluster K4:
•Start number 41 was manually annotated 3 times for cluster K4.

Info for manual annotations of cluster K5:
•Start number 68 was manually annotated 25 times for cluster K5.

Info for manual annotations of cluster K6:
•Start number 61 was manually annotated 2 times for cluster K6.

Info for manual annotations of cluster K7:
•Start number 61 was manually annotated 1 time for cluster K7.

Info for manual annotations of cluster L1:
•Start number 50 was manually annotated 19 times for cluster L1.

Info for manual annotations of cluster L4:
•Start number 31 was manually annotated 6 times for cluster L4.

Info for manual annotations of cluster M2:
•Start number 26 was manually annotated 6 times for cluster M2.

Info for manual annotations of cluster M3:
•Start number 28 was manually annotated 1 time for cluster M3.

Info for manual annotations of cluster N:
•Start number 19 was manually annotated 2 times for cluster N.

Info for manual annotations of cluster P1:
•Start number 16 was manually annotated 1 time for cluster P1.

Info for manual annotations of cluster P3:
•Start number 16 was manually annotated 1 time for cluster P3.

Info for manual annotations of cluster U:
•Start number 3 was manually annotated 3 times for cluster U.
•Start number 4 was manually annotated 1 time for cluster U.

Info for manual annotations of cluster W:
•Start number 45 was manually annotated 4 times for cluster W.

Gene Information:

Gene: 39HC_026 Start: 27572, Stop: 30067, Start Num: 62
Candidate Starts for 39HC_026:
(Start: 62 @27572 has 2 MA's), (82, 27629), (104, 27686), (133, 27806), (136, 27824), (161, 27896), (163, 27902), (177, 27956), (185, 27992), (226, 28175), (238, 28220), (254, 28259), (269, 28307), (271, 28313), (284, 28361), (290, 28391), (295, 28418), (304, 28454), (311, 28472), (316, 28496), (322, 28520), (344, 28604), (354, 28640), (364, 28670), (374, 28706), (379, 28724), (438, 28931), (440, 28943), (445, 28952), (481, 29021), (482, 29027), (484, 29030), (488, 29039), (498, 29069), (511, 29114), (518, 29129), (537, 29210), (543, 29222), (550, 29240), (553, 29246), (555, 29261), (557, 29267), (589, 29348), (619, 29420), (622, 29438), (627, 29453), (686, 29663), (690, 29684), (697, 29702), (788, 29999),

Gene: 40BC_026 Start: 27572, Stop: 30067, Start Num: 62
Candidate Starts for 40BC_026:
(Start: 62 @27572 has 2 MA's), (82, 27629), (104, 27686), (133, 27806), (136, 27824), (161, 27896), (163, 27902), (177, 27956), (185, 27992), (226, 28175), (238, 28220), (254, 28259), (269, 28307), (271, 28313), (284, 28361), (290, 28391), (295, 28418), (304, 28454), (311, 28472), (316, 28496), (322, 28520), (344, 28604), (354, 28640), (364, 28670), (374, 28706), (379, 28724), (438, 28931), (440, 28943), (445, 28952), (481, 29021), (482, 29027), (484, 29030), (488, 29039), (498, 29069), (511, 29114), (518, 29129), (537, 29210), (543, 29222), (550, 29240), (553, 29246), (555, 29261), (557, 29267), (589, 29348), (619, 29420), (622, 29438), (627, 29453), (686, 29663), (690, 29684), (697, 29702), (788, 29999),

Gene: Acquire49_20 Start: 18997, Stop: 21678, Start Num: 50
Candidate Starts for Acquire49_20:
(Start: 50 @18997 has 19 MA's), (51, 19003), (112, 19180), (127, 19210), (137, 19273), (165, 19348), (181, 19402), (193, 19462), (195, 19468), (207, 19534), (222, 19597), (230, 19630), (231, 19633), (241, 19657), (258, 19687), (263, 19693), (277, 19741), (283, 19762), (288, 19777), (293, 19798), (302, 19837), (306, 19849), (313, 19867), (328, 19924), (333, 19942), (343, 19972), (351, 19996), (353, 19999), (367, 20044), (382, 20095), (386, 20113), (398, 20167), (417, 20239), (421, 20251), (424, 20260), (438, 20302), (447, 20332), (460, 20368), (464, 20386), (473, 20401), (476, 20407), (483, 20440), (523, 20569), (525, 20578), (550, 20659), (563, 20695), (565, 20701), (600, 20806), (604, 20815), (608, 20830), (612, 20848), (625, 20890), (649, 20986), (651, 20992), (672, 21046), (673, 21052), (674, 21064), (705, 21175), (714, 21205), (716, 21211), (747, 21307), (748, 21313), (758, 21337), (761, 21343), (763, 21349), (774, 21394), (776, 21403), (777, 21412), (787, 21451), (793, 21487), (796, 21496), (798, 21511), (809, 21607), (811, 21658), (812, 21664),

Gene: ActinUp_27 Start: 20881, Stop: 23313, Start Num: 61
Candidate Starts for ActinUp_27:
(Start: 61 @20881 has 98 MA's), (95, 20980), (173, 21241), (178, 21262), (226, 21469), (235, 21502), (243, 21532), (274, 21604), (280, 21628), (292, 21673), (333, 21826), (345, 21871), (348, 21883), (351, 21892), (370, 21943), (416, 22123), (421, 22138), (443, 22207), (450, 22219), (498, 22324), (511, 22363), (515, 22369), (518, 22378), (538, 22459), (555, 22507), (586, 22582), (599, 22618), (625, 22699), (630, 22720), (659, 22813), (686, 22909), (734, 23056), (744, 23098), (760, 23137), (780, 23212),

Gene: Adephagia_27 Start: 20878, Stop: 23310, Start Num: 61
Candidate Starts for Adephagia_27:

(Start: 61 @20878 has 98 MA's), (95, 20977), (173, 21238), (178, 21259), (226, 21466), (235, 21499), (243, 21529), (274, 21601), (280, 21625), (292, 21670), (333, 21823), (345, 21868), (348, 21880), (351, 21889), (370, 21940), (416, 22120), (421, 22135), (443, 22204), (450, 22216), (498, 22321), (511, 22360), (515, 22366), (518, 22375), (538, 22456), (555, 22504), (586, 22579), (599, 22615), (625, 22696), (630, 22717), (659, 22810), (686, 22906), (734, 23053), (744, 23095), (760, 23134), (780, 23209),

Gene: Adonis_27 Start: 20884, Stop: 23316, Start Num: 61
Candidate Starts for Adonis_27:
(Start: 61 @20884 has 98 MA's), (95, 20983), (173, 21244), (178, 21265), (226, 21472), (235, 21505), (243, 21535), (274, 21607), (280, 21631), (292, 21676), (333, 21829), (345, 21874), (348, 21886), (351, 21895), (370, 21946), (416, 22126), (421, 22141), (443, 22210), (482, 22285), (498, 22327), (511, 22366), (515, 22372), (518, 22381), (522, 22402), (538, 22462), (583, 22579), (599, 22621), (621, 22693), (625, 22702), (630, 22723), (650, 22795), (659, 22816), (686, 22912), (705, 22975), (744, 23101), (760, 23140), (796, 23287),

Gene: Agent47_25 Start: 21256, Stop: 23766, Start Num: 68
Candidate Starts for Agent47_25:
(Start: 68 @21256 has 25 MA's), (85, 21304), (89, 21316), (94, 21325), (153, 21535), (176, 21619), (211, 21772), (214, 21796), (224, 21826), (250, 21907), (255, 21916), (260, 21925), (269, 21952), (274, 21973), (282, 22006), (287, 22018), (292, 22045), (294, 22051), (307, 22096), (325, 22174), (346, 22252), (352, 22273), (367, 22318), (375, 22354), (385, 22390), (390, 22411), (396, 22441), (398, 22453), (429, 22573), (451, 22636), (460, 22660), (481, 22717), (501, 22774), (505, 22789), (512, 22810), (523, 22849), (568, 22990), (601, 23077), (624, 23143), (635, 23179), (647, 23212), (650, 23233), (666, 23269), (683, 23344), (685, 23347), (690, 23371), (702, 23404), (710, 23431), (717, 23452), (726, 23470), (741, 23524), (800, 23752),

Gene: Ageofdapage_27 Start: 20828, Stop: 23260, Start Num: 61
Candidate Starts for Ageofdapage_27:
(Start: 61 @20828 has 98 MA's), (95, 20927), (96, 20930), (129, 21056), (173, 21188), (178, 21209), (207, 21341), (235, 21449), (274, 21551), (280, 21575), (287, 21593), (292, 21620), (311, 21686), (333, 21773), (348, 21830), (351, 21839), (362, 21875), (370, 21890), (416, 22070), (421, 22085), (450, 22166), (482, 22229), (498, 22271), (511, 22310), (515, 22316), (518, 22325), (538, 22406), (553, 22439), (555, 22454), (556, 22457), (575, 22511), (583, 22523), (621, 22637), (625, 22646), (686, 22856), (744, 23045), (760, 23084), (796, 23231),

Gene: AlishaPH_27 Start: 20871, Stop: 23303, Start Num: 61
Candidate Starts for AlishaPH_27:
(Start: 61 @20871 has 98 MA's), (95, 20970), (173, 21231), (178, 21252), (226, 21459), (235, 21492), (243, 21522), (274, 21594), (280, 21618), (333, 21816), (345, 21861), (348, 21873), (351, 21882), (370, 21933), (416, 22113), (421, 22128), (443, 22197), (450, 22209), (482, 22272), (498, 22314), (511, 22353), (515, 22359), (518, 22368), (522, 22389), (538, 22449), (583, 22566), (599, 22608), (621, 22680), (625, 22689), (630, 22710), (650, 22782), (659, 22803), (686, 22899), (734, 23046), (760, 23127), (796, 23274),

Gene: Allegro_32 Start: 29960, Stop: 32680, Start Num: 44
Candidate Starts for Allegro_32:
(Start: 44 @29960 has 36 MA's), (60, 30014), (74, 30053), (90, 30098), (99, 30122), (100, 30125), (113, 30158), (144, 30266), (154, 30287), (156, 30290), (175, 30344), (190, 30404), (195, 30428), (197, 30464), (207, 30512), (212, 30533), (219, 30572), (231, 30611), (237, 30626), (264, 30680), (267, 30692), (274, 30716), (281, 30740), (286, 30752), (290, 30767), (292, 30782), (303, 30824), (309, 30842), (318, 30881), (324, 30905), (375, 31076), (396, 31154), (410, 31214), (421, 31250), (422, 31253), (447, 31331), (460, 31367), (467, 31391), (500, 31490), (511, 31529), (525, 31583),

(563, 31700), (570, 31727), (594, 31790), (597, 31796), (600, 31811), (612, 31853), (637, 31940), (651, 31997), (660, 32015), (667, 32036), (669, 32045), (672, 32051), (673, 32057), (674, 32069), (703, 32174), (708, 32192), (719, 32225), (747, 32312), (758, 32342), (761, 32348), (776, 32408), (796, 32501), (798, 32516), (808, 32558), (813, 32672),

Gene: AlleyCat_26 Start: 21193, Stop: 23697, Start Num: 68
Candidate Starts for AlleyCat_26:
(Start: 68 @21193 has 25 MA's), (85, 21241), (89, 21253), (131, 21400), (153, 21469), (176, 21553), (211, 21706), (214, 21730), (223, 21757), (250, 21841), (255, 21850), (260, 21859), (269, 21886), (274, 21907), (282, 21940), (287, 21952), (292, 21979), (325, 22108), (346, 22186), (352, 22207), (367, 22252), (375, 22288), (378, 22300), (385, 22324), (396, 22375), (398, 22387), (417, 22465), (429, 22507), (451, 22570), (460, 22594), (501, 22708), (505, 22723), (512, 22744), (523, 22783), (568, 22924), (601, 23011), (607, 23020), (624, 23077), (635, 23113), (647, 23146), (650, 23167), (683, 23278), (685, 23281), (690, 23305), (700, 23329), (701, 23335), (702, 23338), (710, 23365), (717, 23386), (726, 23404), (741, 23455), (768, 23536), (800, 23683),

Gene: Aminay_25 Start: 21018, Stop: 23477, Start Num: 61
Candidate Starts for Aminay_25:
(Start: 61 @21018 has 98 MA's), (95, 21120), (135, 21264), (159, 21327), (167, 21360), (178, 21402), (225, 21609), (234, 21642), (253, 21693), (274, 21756), (278, 21771), (280, 21780), (282, 21786), (287, 21798), (318, 21921), (321, 21933), (340, 22011), (372, 22104), (374, 22119), (388, 22179), (409, 22251), (419, 22287), (435, 22332), (438, 22341), (463, 22380), (481, 22431), (482, 22437), (543, 22638), (555, 22677), (559, 22686), (630, 22878), (659, 22971), (695, 23109), (749, 23277),

Gene: Amore2_32 Start: 33685, Stop: 36453, Start Num: 12
Candidate Starts for Amore2_32:
(Start: 12 @33685 has 3 MA's), (18, 33769), (Start: 38 @33826 has 2 MA's), (97, 34012), (134, 34126), (153, 34198), (191, 34339), (211, 34426), (307, 34738), (363, 34966), (381, 35032), (395, 35086), (427, 35215), (452, 35290), (459, 35302), (470, 35329), (486, 35380), (514, 35464), (565, 35632), (572, 35659), (621, 35803), (673, 35956), (683, 36010), (688, 36025), (691, 36043), (692, 36046), (698, 36058), (716, 36115), (718, 36124), (734, 36166), (745, 36211), (751, 36226), (792, 36379),

Gene: Anaya_28 Start: 20897, Stop: 23329, Start Num: 61
Candidate Starts for Anaya_28:
(Start: 61 @20897 has 98 MA's), (Start: 62 @20906 has 2 MA's), (95, 20996), (173, 21257), (178, 21278), (235, 21518), (243, 21548), (280, 21644), (292, 21689), (333, 21842), (345, 21887), (348, 21899), (351, 21908), (370, 21959), (416, 22139), (421, 22154), (443, 22223), (498, 22340), (511, 22379), (515, 22385), (518, 22394), (538, 22475), (555, 22523), (556, 22526), (621, 22706), (625, 22715), (630, 22736), (659, 22829), (686, 22925), (705, 22988), (760, 23153), (780, 23228),

Gene: Angelica_27 Start: 20846, Stop: 23278, Start Num: 61
Candidate Starts for Angelica_27:
(Start: 61 @20846 has 98 MA's), (95, 20945), (173, 21206), (178, 21227), (226, 21434), (235, 21467), (243, 21497), (274, 21569), (280, 21593), (333, 21791), (345, 21836), (348, 21848), (351, 21857), (370, 21908), (416, 22088), (421, 22103), (443, 22172), (450, 22184), (482, 22247), (498, 22289), (511, 22328), (515, 22334), (518, 22343), (522, 22364), (538, 22424), (553, 22457), (555, 22472), (556, 22475), (575, 22529), (583, 22541), (621, 22655), (625, 22664), (630, 22685), (650, 22757), (659, 22778), (686, 22874), (760, 23102), (796, 23249),

Gene: Anma_27 Start: 20840, Stop: 23272, Start Num: 61
Candidate Starts for Anma_27:
(55, 20822), (Start: 61 @20840 has 98 MA's), (76, 20888), (95, 20939), (173, 21200), (178, 21221), (234, 21458), (235, 21461), (243, 21491), (245, 21494), (274, 21563), (280, 21587), (282, 21593),

(285, 21599), (292, 21632), (333, 21785), (348, 21842), (351, 21851), (370, 21902), (416, 22082), (421, 22097), (443, 22166), (450, 22178), (478, 22214), (482, 22241), (498, 22283), (511, 22322), (515, 22328), (518, 22337), (522, 22358), (538, 22418), (553, 22451), (556, 22469), (583, 22535), (599, 22577), (621, 22649), (625, 22658), (630, 22679), (650, 22751), (686, 22868), (734, 23015), (760, 23096), (780, 23171), (796, 23243),

Gene: Apocalypse_27 Start: 20849, Stop: 23281, Start Num: 61
Candidate Starts for Apocalypse_27:
(Start: 61 @20849 has 98 MA's), (79, 20906), (95, 20948), (173, 21209), (178, 21230), (226, 21437), (235, 21470), (243, 21500), (274, 21572), (280, 21596), (292, 21641), (333, 21794), (345, 21839), (348, 21851), (351, 21860), (370, 21911), (416, 22091), (421, 22106), (443, 22175), (450, 22187), (482, 22250), (498, 22292), (511, 22331), (515, 22337), (518, 22346), (522, 22367), (538, 22427), (553, 22460), (555, 22475), (556, 22478), (586, 22550), (599, 22586), (621, 22658), (625, 22667), (630, 22688), (650, 22760), (659, 22781), (686, 22877), (760, 23105), (796, 23252),

Gene: Appletree2_20 Start: 18940, Stop: 21621, Start Num: 50
Candidate Starts for Appletree2_20:
(Start: 50 @18940 has 19 MA's), (51, 18946), (112, 19123), (127, 19153), (137, 19216), (165, 19291), (193, 19405), (195, 19411), (207, 19477), (222, 19540), (230, 19573), (231, 19576), (241, 19600), (255, 19624), (258, 19630), (263, 19636), (277, 19684), (283, 19705), (288, 19720), (293, 19741), (302, 19780), (306, 19792), (313, 19810), (333, 19885), (343, 19915), (351, 19939), (353, 19942), (367, 19987), (382, 20038), (386, 20056), (398, 20110), (417, 20182), (421, 20194), (424, 20203), (428, 20221), (438, 20245), (447, 20275), (460, 20311), (473, 20344), (476, 20350), (492, 20416), (516, 20482), (525, 20521), (550, 20602), (563, 20638), (565, 20644), (600, 20749), (604, 20758), (608, 20773), (612, 20791), (625, 20833), (649, 20929), (651, 20935), (672, 20989), (673, 20995), (674, 21007), (705, 21118), (714, 21148), (716, 21154), (747, 21250), (748, 21256), (758, 21280), (761, 21286), (763, 21292), (774, 21337), (776, 21346), (777, 21355), (787, 21394), (793, 21430), (796, 21439), (798, 21454), (809, 21550), (811, 21601), (812, 21607),

Gene: Arbiter_32 Start: 30049, Stop: 32769, Start Num: 44
Candidate Starts for Arbiter_32:
(Start: 44 @30049 has 36 MA's), (60, 30103), (74, 30142), (90, 30187), (99, 30211), (100, 30214), (113, 30247), (144, 30355), (154, 30376), (156, 30379), (175, 30433), (190, 30493), (195, 30517), (197, 30553), (207, 30601), (212, 30622), (219, 30661), (231, 30700), (237, 30715), (264, 30769), (267, 30781), (274, 30805), (281, 30829), (286, 30841), (290, 30856), (292, 30871), (303, 30913), (309, 30931), (318, 30970), (324, 30994), (375, 31165), (396, 31243), (410, 31303), (421, 31339), (422, 31342), (447, 31420), (460, 31456), (467, 31480), (477, 31501), (525, 31672), (526, 31678), (563, 31789), (570, 31816), (594, 31879), (597, 31885), (600, 31900), (612, 31942), (637, 32029), (644, 32056), (651, 32086), (660, 32104), (667, 32125), (669, 32134), (672, 32140), (673, 32146), (674, 32158), (703, 32263), (708, 32281), (719, 32314), (747, 32401), (758, 32431), (761, 32437), (776, 32497), (796, 32590), (798, 32605), (808, 32647), (813, 32761),

Gene: Ares_32 Start: 29971, Stop: 32691, Start Num: 44
Candidate Starts for Ares_32:
(Start: 44 @29971 has 36 MA's), (60, 30025), (74, 30064), (90, 30109), (99, 30133), (100, 30136), (113, 30169), (144, 30277), (154, 30298), (156, 30301), (175, 30355), (190, 30415), (195, 30439), (197, 30475), (207, 30523), (212, 30544), (219, 30583), (231, 30622), (237, 30637), (264, 30691), (267, 30703), (274, 30727), (281, 30751), (286, 30763), (290, 30778), (292, 30793), (303, 30835), (309, 30853), (318, 30892), (324, 30916), (375, 31087), (396, 31165), (410, 31225), (421, 31261), (422, 31264), (447, 31342), (460, 31378), (467, 31402), (477, 31423), (525, 31594), (526, 31600), (563, 31711), (570, 31738), (594, 31801), (597, 31807), (600, 31822), (612, 31864), (637, 31951), (644, 31978), (651, 32008), (660, 32026), (667, 32047), (669, 32056), (672, 32062), (673, 32068), (674, 32080), (703, 32185), (708, 32203), (719, 32236), (747, 32323), (758, 32353), (761, 32359),

(776, 32419), (796, 32512), (798, 32527), (808, 32569), (813, 32683),

Gene: Arti_43 Start: 32595, Stop: 34961, Start Num: 66
Candidate Starts for Arti_43:
(Start: 66 @32595 has 26 MA's), (115, 32724), (206, 33063), (282, 33303), (292, 33342), (296, 33357), (319, 33441), (320, 33447), (369, 33585), (392, 33678), (398, 33714), (479, 33906), (484, 33930), (494, 33960), (498, 33969), (511, 34014), (564, 34182), (591, 34245), (607, 34290), (615, 34314), (670, 34479), (671, 34482), (678, 34515), (688, 34557), (704, 34608), (721, 34659), (724, 34665), (732, 34686), (735, 34695), (739, 34710), (753, 34755), (802, 34941),

Gene: Asayake_27 Start: 20912, Stop: 23344, Start Num: 61
Candidate Starts for Asayake_27:
(Start: 61 @20912 has 98 MA's), (95, 21011), (173, 21272), (178, 21293), (226, 21500), (235, 21533), (243, 21563), (274, 21635), (280, 21659), (333, 21857), (345, 21902), (348, 21914), (351, 21923), (370, 21974), (416, 22154), (421, 22169), (443, 22238), (450, 22250), (482, 22313), (498, 22355), (511, 22394), (515, 22400), (518, 22409), (522, 22430), (538, 22490), (583, 22607), (599, 22649), (621, 22721), (625, 22730), (630, 22751), (650, 22823), (659, 22844), (686, 22940), (734, 23087), (760, 23168), (796, 23315),

Gene: Atcoo_21 Start: 18913, Stop: 21759, Start Num: 16
Candidate Starts for Atcoo_21:
(Start: 16 @18913 has 2 MA's), (58, 19066), (140, 19339), (145, 19351), (153, 19372), (162, 19396), (182, 19471), (196, 19543), (204, 19573), (212, 19609), (228, 19672), (231, 19687), (241, 19714), (244, 19720), (274, 19795), (280, 19819), (282, 19825), (287, 19837), (296, 19879), (298, 19885), (321, 19972), (327, 19993), (333, 20017), (355, 20083), (360, 20104), (368, 20122), (375, 20155), (383, 20179), (385, 20182), (396, 20233), (410, 20293), (421, 20329), (422, 20332), (424, 20338), (447, 20410), (460, 20446), (467, 20470), (500, 20569), (511, 20608), (525, 20662), (549, 20737), (563, 20779), (570, 20806), (594, 20869), (597, 20875), (600, 20890), (612, 20932), (624, 20971), (637, 21019), (644, 21046), (646, 21049), (651, 21076), (660, 21094), (669, 21124), (673, 21136), (674, 21148), (703, 21253), (708, 21271), (719, 21304), (727, 21319), (758, 21421), (761, 21427), (776, 21487), (779, 21505), (796, 21580), (798, 21595), (800, 21601), (808, 21637), (813, 21751),

Gene: Atiba_27 Start: 20841, Stop: 23273, Start Num: 61
Candidate Starts for Atiba_27:
(Start: 61 @20841 has 98 MA's), (95, 20940), (173, 21201), (178, 21222), (226, 21429), (235, 21462), (243, 21492), (274, 21564), (280, 21588), (292, 21633), (333, 21786), (345, 21831), (348, 21843), (351, 21852), (370, 21903), (416, 22083), (421, 22098), (443, 22167), (450, 22179), (498, 22284), (511, 22323), (515, 22329), (518, 22338), (538, 22419), (555, 22467), (586, 22542), (599, 22578), (621, 22650), (625, 22659), (630, 22680), (659, 22773), (686, 22869), (734, 23016), (744, 23058), (760, 23097), (780, 23172),

Gene: Austin_32 Start: 33685, Stop: 36453, Start Num: 12
Candidate Starts for Austin_32:
(Start: 12 @33685 has 3 MA's), (18, 33769), (Start: 38 @33826 has 2 MA's), (97, 34012), (134, 34126), (153, 34198), (191, 34339), (211, 34426), (307, 34738), (395, 35086), (427, 35215), (452, 35290), (459, 35302), (470, 35329), (486, 35380), (514, 35464), (565, 35632), (572, 35659), (621, 35803), (673, 35956), (683, 36010), (688, 36025), (691, 36043), (692, 36046), (698, 36058), (716, 36115), (718, 36124), (734, 36166), (745, 36211), (751, 36226), (792, 36379),

Gene: AvadaKedavra_20 Start: 19007, Stop: 21688, Start Num: 50
Candidate Starts for AvadaKedavra_20:
(Start: 50 @19007 has 19 MA's), (51, 19013), (112, 19190), (127, 19220), (137, 19283), (165, 19358), (193, 19472), (195, 19478), (207, 19544), (222, 19607), (230, 19640), (231, 19643), (241, 19667),

(255, 19691), (258, 19697), (263, 19703), (277, 19751), (283, 19772), (288, 19787), (293, 19808), (302, 19847), (306, 19859), (313, 19877), (328, 19934), (333, 19952), (343, 19982), (351, 20006), (353, 20009), (367, 20054), (382, 20105), (386, 20123), (398, 20177), (417, 20249), (421, 20261), (424, 20270), (438, 20312), (447, 20342), (460, 20378), (464, 20396), (473, 20411), (476, 20417), (483, 20450), (523, 20579), (525, 20588), (550, 20669), (563, 20705), (565, 20711), (600, 20816), (604, 20825), (608, 20840), (612, 20858), (625, 20900), (649, 20996), (651, 21002), (672, 21056), (673, 21062), (674, 21074), (705, 21185), (714, 21215), (716, 21221), (747, 21317), (748, 21323), (758, 21347), (761, 21353), (763, 21359), (774, 21404), (776, 21413), (777, 21422), (787, 21461), (793, 21497), (796, 21506), (798, 21521), (809, 21617), (811, 21668), (812, 21674),

Gene: Aziz_34 Start: 25208, Stop: 27889, Start Num: 26
Candidate Starts for Aziz_34:
(Start: 26 @25208 has 7 MA's), (48, 25325), (72, 25409), (73, 25412), (83, 25445), (105, 25502), (149, 25676), (151, 25679), (169, 25742), (184, 25808), (187, 25817), (201, 25880), (217, 25961), (218, 25967), (220, 25970), (232, 26003), (247, 26045), (249, 26048), (274, 26111), (280, 26132), (282, 26138), (284, 26141), (291, 26174), (303, 26216), (305, 26225), (323, 26294), (324, 26297), (330, 26318), (339, 26351), (366, 26429), (373, 26459), (377, 26471), (391, 26504), (396, 26534), (407, 26582), (412, 26606), (441, 26699), (449, 26723), (458, 26741), (460, 26747), (513, 26903), (529, 26969), (542, 27005), (579, 27110), (594, 27152), (598, 27161), (623, 27245), (633, 27281), (634, 27284), (720, 27578), (731, 27608), (770, 27731), (782, 27785),

Gene: BEEST_27 Start: 20912, Stop: 23344, Start Num: 61
Candidate Starts for BEEST_27:
(Start: 61 @20912 has 98 MA's), (95, 21011), (173, 21272), (178, 21293), (226, 21500), (235, 21533), (243, 21563), (274, 21635), (280, 21659), (333, 21857), (345, 21902), (348, 21914), (351, 21923), (370, 21974), (416, 22154), (421, 22169), (443, 22238), (450, 22250), (482, 22313), (498, 22355), (511, 22394), (515, 22400), (518, 22409), (522, 22430), (538, 22490), (583, 22607), (599, 22649), (621, 22721), (625, 22730), (630, 22751), (650, 22823), (659, 22844), (686, 22940), (734, 23087), (760, 23168), (796, 23315),

Gene: BGlluviae_27 Start: 20912, Stop: 23344, Start Num: 61
Candidate Starts for BGlluviae_27:
(Start: 61 @20912 has 98 MA's), (95, 21011), (173, 21272), (178, 21293), (226, 21500), (235, 21533), (243, 21563), (274, 21635), (280, 21659), (333, 21857), (345, 21902), (348, 21914), (351, 21923), (370, 21974), (416, 22154), (421, 22169), (443, 22238), (450, 22250), (482, 22313), (498, 22355), (511, 22394), (515, 22400), (518, 22409), (522, 22430), (538, 22490), (583, 22607), (599, 22649), (621, 22721), (625, 22730), (630, 22751), (650, 22823), (659, 22844), (686, 22940), (734, 23087), (760, 23168), (796, 23315),

Gene: BabyMoney_28 Start: 23384, Stop: 25951, Start Num: 13
Candidate Starts for BabyMoney_28:
(Start: 13 @23384 has 4 MA's), (40, 23498), (42, 23507), (140, 23810), (189, 23984), (206, 24059), (218, 24119), (229, 24155), (248, 24206), (266, 24245), (274, 24281), (280, 24302), (282, 24308), (289, 24332), (292, 24347), (297, 24365), (303, 24389), (336, 24500), (337, 24503), (341, 24524), (372, 24617), (376, 24638), (463, 24872), (472, 24887), (495, 24968), (497, 24971), (502, 24980), (506, 25001), (515, 25022), (537, 25112), (540, 25124), (559, 25169), (564, 25181), (618, 25331), (637, 25397), (670, 25478), (676, 25502), (680, 25520), (681, 25523), (683, 25538), (689, 25559), (718, 25634), (767, 25769), (791, 25865), (793, 25886), (805, 25937),

Gene: BaghaKamala_27 Start: 20841, Stop: 23273, Start Num: 61
Candidate Starts for BaghaKamala_27:
(Start: 61 @20841 has 98 MA's), (95, 20940), (173, 21201), (178, 21222), (226, 21429), (235, 21462), (243, 21492), (274, 21564), (280, 21588), (333, 21786), (345, 21831), (348, 21843), (351, 21852),

(370, 21903), (416, 22083), (421, 22098), (443, 22167), (450, 22179), (482, 22242), (498, 22284), (511, 22323), (515, 22329), (518, 22338), (522, 22359), (538, 22419), (583, 22536), (599, 22578), (621, 22650), (625, 22659), (630, 22680), (650, 22752), (659, 22773), (686, 22869), (734, 23016), (760, 23097), (796, 23244),

Gene: Bananafish_32 Start: 29969, Stop: 32689, Start Num: 44
Candidate Starts for Bananafish_32:
(Start: 44 @29969 has 36 MA's), (60, 30023), (74, 30062), (90, 30107), (99, 30131), (100, 30134), (113, 30167), (144, 30275), (154, 30296), (156, 30299), (175, 30353), (190, 30413), (195, 30437), (197, 30473), (207, 30521), (212, 30542), (219, 30581), (231, 30620), (237, 30635), (264, 30689), (267, 30701), (274, 30725), (281, 30749), (286, 30761), (290, 30776), (292, 30791), (303, 30833), (309, 30851), (318, 30890), (324, 30914), (375, 31085), (396, 31163), (410, 31223), (421, 31259), (422, 31262), (447, 31340), (460, 31376), (467, 31400), (500, 31499), (511, 31538), (525, 31592), (563, 31709), (570, 31736), (594, 31799), (597, 31805), (600, 31820), (612, 31862), (637, 31949), (644, 31976), (651, 32006), (660, 32024), (667, 32045), (669, 32054), (672, 32060), (673, 32066), (674, 32078), (703, 32183), (708, 32201), (719, 32234), (747, 32321), (758, 32351), (761, 32357), (776, 32417), (796, 32510), (798, 32525), (808, 32567), (813, 32681),

Gene: BananenDer11_25 Start: 21217, Stop: 23727, Start Num: 68
Candidate Starts for BananenDer11_25:
(Start: 68 @21217 has 25 MA's), (85, 21265), (89, 21277), (94, 21286), (153, 21496), (176, 21580), (211, 21733), (214, 21757), (224, 21787), (250, 21868), (255, 21877), (260, 21886), (269, 21913), (274, 21934), (282, 21967), (287, 21979), (292, 22006), (294, 22012), (307, 22057), (325, 22135), (346, 22213), (352, 22234), (367, 22279), (375, 22315), (385, 22351), (390, 22372), (396, 22402), (398, 22414), (429, 22534), (451, 22597), (460, 22621), (481, 22678), (501, 22735), (505, 22750), (512, 22771), (523, 22810), (568, 22951), (601, 23038), (624, 23104), (635, 23140), (647, 23173), (650, 23194), (666, 23230), (683, 23305), (685, 23308), (690, 23332), (702, 23365), (710, 23392), (717, 23413), (726, 23431), (741, 23485), (800, 23713),

Gene: BarrelRoll_27 Start: 20864, Stop: 23296, Start Num: 61
Candidate Starts for BarrelRoll_27:
(Start: 61 @20864 has 98 MA's), (95, 20963), (173, 21224), (178, 21245), (226, 21452), (235, 21485), (243, 21515), (274, 21587), (280, 21611), (333, 21809), (345, 21854), (348, 21866), (351, 21875), (370, 21926), (416, 22106), (421, 22121), (443, 22190), (450, 22202), (482, 22265), (498, 22307), (511, 22346), (515, 22352), (518, 22361), (522, 22382), (538, 22442), (583, 22559), (599, 22601), (621, 22673), (625, 22682), (630, 22703), (650, 22775), (659, 22796), (686, 22892), (734, 23039), (760, 23120), (796, 23267),

Gene: Beezoo_27 Start: 20888, Stop: 23320, Start Num: 61
Candidate Starts for Beezoo_27:
(Start: 61 @20888 has 98 MA's), (95, 20987), (173, 21248), (178, 21269), (226, 21476), (235, 21509), (243, 21539), (265, 21578), (274, 21611), (280, 21635), (292, 21680), (333, 21833), (345, 21878), (348, 21890), (351, 21899), (370, 21950), (416, 22130), (421, 22145), (443, 22214), (450, 22226), (482, 22289), (498, 22331), (511, 22370), (515, 22376), (518, 22385), (522, 22406), (538, 22466), (583, 22583), (621, 22697), (625, 22706), (630, 22727), (650, 22799), (659, 22820), (686, 22916), (760, 23144), (796, 23291),

Gene: Bella96_27 Start: 20822, Stop: 23254, Start Num: 61
Candidate Starts for Bella96_27:
(55, 20804), (Start: 61 @20822 has 98 MA's), (76, 20870), (95, 20921), (173, 21182), (178, 21203), (235, 21443), (243, 21473), (245, 21476), (280, 21569), (285, 21581), (292, 21614), (333, 21767), (348, 21824), (351, 21833), (370, 21884), (416, 22064), (421, 22079), (443, 22148), (450, 22160), (478, 22196), (482, 22223), (498, 22265), (511, 22304), (515, 22310), (518, 22319), (522, 22340),

(538, 22400), (553, 22433), (555, 22448), (583, 22517), (599, 22559), (621, 22631), (625, 22640), (630, 22661), (650, 22733), (686, 22850), (734, 22997), (760, 23078), (780, 23153), (796, 23225),

Gene: Belladonna_27 Start: 20912, Stop: 23344, Start Num: 61
Candidate Starts for Belladonna_27:
(Start: 61 @20912 has 98 MA's), (95, 21011), (173, 21272), (178, 21293), (226, 21500), (235, 21533), (243, 21563), (274, 21635), (280, 21659), (333, 21857), (345, 21902), (348, 21914), (351, 21923), (370, 21974), (416, 22154), (421, 22169), (443, 22238), (450, 22250), (482, 22313), (498, 22355), (511, 22394), (515, 22400), (518, 22409), (522, 22430), (538, 22490), (583, 22607), (599, 22649), (621, 22721), (625, 22730), (630, 22751), (650, 22823), (659, 22844), (686, 22940), (734, 23087), (760, 23168), (796, 23315),

Gene: Bern_27 Start: 20832, Stop: 23264, Start Num: 61
Candidate Starts for Bern_27:
(Start: 61 @20832 has 98 MA's), (77, 20883), (80, 20892), (95, 20931), (173, 21192), (178, 21213), (234, 21450), (235, 21453), (243, 21483), (245, 21486), (252, 21498), (274, 21555), (280, 21579), (282, 21585), (292, 21624), (333, 21777), (345, 21822), (348, 21834), (351, 21843), (362, 21879), (370, 21894), (416, 22074), (421, 22089), (443, 22158), (482, 22233), (498, 22275), (511, 22314), (515, 22320), (518, 22329), (522, 22350), (523, 22356), (538, 22410), (553, 22443), (555, 22458), (583, 22527), (586, 22533), (599, 22569), (625, 22650), (641, 22707), (650, 22743), (659, 22764), (686, 22860), (721, 22971), (760, 23088), (780, 23163), (796, 23235),

Gene: BiPauneto_46 Start: 32342, Stop: 34717, Start Num: 66
Candidate Starts for BiPauneto_46:
(Start: 66 @32342 has 26 MA's), (206, 32810), (218, 32870), (232, 32912), (235, 32921), (252, 32963), (274, 33023), (282, 33050), (311, 33152), (319, 33188), (320, 33194), (373, 33356), (389, 33419), (398, 33461), (420, 33521), (443, 33593), (455, 33614), (487, 33683), (494, 33707), (498, 33716), (539, 33860), (542, 33866), (555, 33908), (589, 33989), (615, 34064), (687, 34304), (688, 34307), (713, 34385), (722, 34409), (735, 34442), (762, 34523), (775, 34574), (778, 34583),

Gene: BigPhil_19 Start: 17226, Stop: 20090, Start Num: 17
Candidate Starts for BigPhil_19:
(Start: 17 @17226 has 10 MA's), (25, 17247), (30, 17268), (37, 17307), (52, 17376), (56, 17385), (58, 17388), (75, 17439), (106, 17529), (124, 17580), (140, 17664), (145, 17676), (153, 17697), (164, 17730), (198, 17877), (212, 17940), (221, 17979), (228, 18003), (231, 18018), (236, 18027), (244, 18054), (248, 18060), (274, 18129), (280, 18150), (282, 18156), (291, 18192), (296, 18210), (321, 18303), (327, 18324), (333, 18348), (355, 18414), (360, 18435), (368, 18453), (375, 18486), (385, 18513), (396, 18564), (406, 18600), (410, 18624), (421, 18660), (424, 18669), (426, 18684), (438, 18711), (447, 18741), (460, 18777), (467, 18801), (500, 18900), (511, 18939), (522, 18978), (526, 18999), (563, 19110), (570, 19137), (582, 19167), (589, 19188), (594, 19200), (597, 19206), (612, 19263), (651, 19407), (660, 19425), (673, 19467), (674, 19479), (719, 19635), (747, 19722), (758, 19752), (761, 19758), (776, 19818), (779, 19836), (796, 19911), (800, 19932), (808, 19968), (813, 20082),

Gene: Blizzard_27 Start: 20912, Stop: 23344, Start Num: 61
Candidate Starts for Blizzard_27:
(Start: 61 @20912 has 98 MA's), (95, 21011), (173, 21272), (178, 21293), (226, 21500), (235, 21533), (243, 21563), (274, 21635), (280, 21659), (333, 21857), (345, 21902), (348, 21914), (351, 21923), (370, 21974), (416, 22154), (421, 22169), (443, 22238), (450, 22250), (482, 22313), (498, 22355), (511, 22394), (515, 22400), (518, 22409), (522, 22430), (538, 22490), (583, 22607), (599, 22649), (621, 22721), (625, 22730), (630, 22751), (650, 22823), (659, 22844), (686, 22940), (734, 23087), (760, 23168), (796, 23315),

Gene: Blocker23_32 Start: 30090, Stop: 32807, Start Num: 44
Candidate Starts for Blocker23_32:
(Start: 44 @30090 has 36 MA's), (60, 30144), (74, 30183), (90, 30228), (99, 30252), (100, 30255), (113, 30288), (144, 30396), (154, 30417), (156, 30420), (175, 30474), (190, 30534), (195, 30558), (197, 30594), (207, 30642), (212, 30663), (219, 30702), (231, 30741), (237, 30756), (264, 30810), (267, 30822), (274, 30846), (281, 30870), (286, 30882), (290, 30897), (292, 30912), (303, 30954), (309, 30972), (318, 31011), (324, 31035), (375, 31206), (396, 31284), (410, 31344), (421, 31380), (422, 31383), (447, 31461), (460, 31497), (467, 31521), (477, 31542), (525, 31710), (526, 31716), (563, 31827), (570, 31854), (594, 31917), (597, 31923), (600, 31938), (612, 31980), (637, 32067), (644, 32094), (651, 32124), (660, 32142), (667, 32163), (669, 32172), (672, 32178), (673, 32184), (674, 32196), (703, 32301), (708, 32319), (719, 32352), (747, 32439), (758, 32469), (761, 32475), (776, 32535), (796, 32628), (798, 32643), (808, 32685), (813, 32799),

Gene: Boiiii_27 Start: 20914, Stop: 23346, Start Num: 61
Candidate Starts for Boiiii_27:
(Start: 61 @20914 has 98 MA's), (95, 21013), (173, 21274), (178, 21295), (226, 21502), (235, 21535), (243, 21565), (274, 21637), (280, 21661), (333, 21859), (345, 21904), (348, 21916), (351, 21925), (370, 21976), (416, 22156), (421, 22171), (443, 22240), (450, 22252), (482, 22315), (498, 22357), (511, 22396), (515, 22402), (518, 22411), (522, 22432), (538, 22492), (583, 22609), (599, 22651), (621, 22723), (625, 22732), (630, 22753), (650, 22825), (659, 22846), (686, 22942), (734, 23089), (760, 23170), (796, 23317),

Gene: Boyle_32 Start: 30088, Stop: 32808, Start Num: 44
Candidate Starts for Boyle_32:
(Start: 44 @30088 has 36 MA's), (60, 30142), (74, 30181), (90, 30226), (99, 30250), (100, 30253), (113, 30286), (144, 30394), (154, 30415), (156, 30418), (175, 30472), (190, 30532), (195, 30556), (197, 30592), (207, 30640), (212, 30661), (219, 30700), (231, 30739), (237, 30754), (264, 30808), (267, 30820), (274, 30844), (281, 30868), (286, 30880), (290, 30895), (292, 30910), (303, 30952), (309, 30970), (318, 31009), (324, 31033), (375, 31204), (396, 31282), (410, 31342), (421, 31378), (422, 31381), (447, 31459), (460, 31495), (467, 31519), (477, 31540), (525, 31711), (526, 31717), (563, 31828), (570, 31855), (594, 31918), (597, 31924), (600, 31939), (612, 31981), (637, 32068), (644, 32095), (651, 32125), (660, 32143), (667, 32164), (669, 32173), (672, 32179), (673, 32185), (674, 32197), (703, 32302), (708, 32320), (719, 32353), (747, 32440), (758, 32470), (761, 32476), (776, 32536), (796, 32629), (798, 32644), (808, 32686), (813, 32800),

Gene: BrainDrainer_21 Start: 19057, Stop: 21555, Start Num: 56
Candidate Starts for BrainDrainer_21:
(Start: 31 @18952 has 6 MA's), (33, 18958), (37, 18979), (56, 19057), (98, 19177), (111, 19216), (168, 19417), (169, 19423), (178, 19456), (179, 19459), (217, 19639), (220, 19648), (226, 19663), (232, 19681), (240, 19711), (270, 19765), (274, 19783), (284, 19813), (308, 19903), (311, 19912), (312, 19915), (321, 19957), (334, 20005), (363, 20098), (372, 20119), (377, 20143), (387, 20167), (397, 20212), (407, 20254), (439, 20365), (446, 20386), (449, 20395), (457, 20413), (485, 20485), (519, 20587), (531, 20638), (534, 20644), (542, 20671), (548, 20686), (551, 20698), (565, 20737), (581, 20785), (590, 20809), (629, 20935), (631, 20944), (654, 21025), (714, 21226), (725, 21253), (730, 21268), (754, 21352), (782, 21451),

Gene: Bromden_21 Start: 19281, Stop: 21821, Start Num: 31
Candidate Starts for Bromden_21:
(Start: 31 @19281 has 6 MA's), (33, 19287), (37, 19308), (49, 19362), (64, 19410), (79, 19458), (93, 19494), (111, 19545), (141, 19665), (160, 19719), (194, 19854), (206, 19914), (232, 20025), (242, 20061), (273, 20139), (274, 20142), (287, 20181), (303, 20247), (305, 20256), (307, 20259), (308, 20262), (324, 20328), (360, 20442), (408, 20613), (453, 20754), (456, 20757), (457, 20760), (464, 20787), (469, 20796), (471, 20799), (489, 20856), (493, 20871), (497, 20880), (513, 20925), (519,

20943), (524, 20970), (527, 20985), (530, 20997), (533, 21003), (542, 21033), (546, 21042), (550, 21057), (553, 21063), (563, 21093), (564, 21096), (573, 21126), (584, 21156), (587, 21159), (645, 21348), (652, 21375), (668, 21420), (684, 21486), (693, 21519), (696, 21525), (709, 21564), (724, 21603), (733, 21630), (773, 21762),

Gene: BronnyJr_21 Start: 18884, Stop: 21730, Start Num: 16
Candidate Starts for BronnyJr_21:
(Start: 16 @18884 has 2 MA's), (58, 19037), (140, 19310), (145, 19322), (162, 19367), (182, 19442), (196, 19514), (204, 19544), (212, 19580), (228, 19643), (231, 19658), (241, 19685), (244, 19691), (274, 19766), (280, 19790), (282, 19796), (287, 19808), (296, 19850), (298, 19856), (321, 19943), (327, 19964), (333, 19988), (355, 20054), (360, 20075), (368, 20093), (375, 20126), (383, 20150), (385, 20153), (396, 20204), (406, 20240), (410, 20264), (421, 20300), (424, 20309), (426, 20324), (438, 20351), (447, 20381), (460, 20417), (467, 20441), (500, 20540), (511, 20579), (525, 20633), (526, 20639), (563, 20750), (570, 20777), (594, 20840), (597, 20846), (600, 20861), (612, 20903), (637, 20990), (651, 21047), (660, 21065), (673, 21107), (674, 21119), (708, 21242), (719, 21275), (747, 21362), (758, 21392), (761, 21398), (776, 21458), (777, 21467), (779, 21476), (796, 21551), (800, 21572), (808, 21608), (813, 21722),

Gene: Brownie5_32 Start: 30094, Stop: 32814, Start Num: 44
Candidate Starts for Brownie5_32:
(Start: 44 @30094 has 36 MA's), (60, 30148), (74, 30187), (90, 30232), (99, 30256), (100, 30259), (113, 30292), (144, 30400), (154, 30421), (156, 30424), (175, 30478), (190, 30538), (195, 30562), (197, 30598), (207, 30646), (212, 30667), (219, 30706), (231, 30745), (237, 30760), (264, 30814), (267, 30826), (274, 30850), (281, 30874), (286, 30886), (290, 30901), (292, 30916), (303, 30958), (309, 30976), (318, 31015), (324, 31039), (375, 31210), (396, 31288), (410, 31348), (421, 31384), (422, 31387), (447, 31465), (460, 31501), (467, 31525), (477, 31546), (525, 31717), (526, 31723), (563, 31834), (570, 31861), (594, 31924), (597, 31930), (600, 31945), (612, 31987), (637, 32074), (644, 32101), (651, 32131), (660, 32149), (667, 32170), (669, 32179), (672, 32185), (673, 32191), (674, 32203), (703, 32308), (708, 32326), (719, 32359), (747, 32446), (758, 32476), (761, 32482), (776, 32542), (796, 32635), (798, 32650), (808, 32692), (813, 32806),

Gene: CREW_27 Start: 20912, Stop: 23344, Start Num: 61
Candidate Starts for CREW_27:
(Start: 61 @20912 has 98 MA's), (95, 21011), (173, 21272), (178, 21293), (226, 21500), (235, 21533), (243, 21563), (274, 21635), (280, 21659), (333, 21857), (345, 21902), (348, 21914), (351, 21923), (370, 21974), (416, 22154), (421, 22169), (443, 22238), (450, 22250), (482, 22313), (498, 22355), (511, 22394), (515, 22400), (518, 22409), (522, 22430), (538, 22490), (583, 22607), (599, 22649), (621, 22721), (625, 22730), (630, 22751), (650, 22823), (659, 22844), (686, 22940), (734, 23087), (760, 23168), (796, 23315),

Gene: Calamitous_32 Start: 29974, Stop: 32694, Start Num: 44
Candidate Starts for Calamitous_32:
(Start: 44 @29974 has 36 MA's), (60, 30028), (74, 30067), (90, 30112), (99, 30136), (100, 30139), (113, 30172), (144, 30280), (154, 30301), (156, 30304), (175, 30358), (190, 30418), (195, 30442), (197, 30478), (207, 30526), (212, 30547), (219, 30586), (231, 30625), (237, 30640), (264, 30694), (267, 30706), (274, 30730), (281, 30754), (286, 30766), (290, 30781), (292, 30796), (303, 30838), (309, 30856), (318, 30895), (324, 30919), (375, 31090), (396, 31168), (410, 31228), (421, 31264), (422, 31267), (447, 31345), (460, 31381), (467, 31405), (477, 31426), (525, 31597), (563, 31714), (570, 31741), (594, 31804), (597, 31810), (600, 31825), (612, 31867), (637, 31954), (651, 32011), (660, 32029), (667, 32050), (669, 32059), (672, 32065), (673, 32071), (674, 32083), (703, 32188), (708, 32206), (719, 32239), (747, 32326), (758, 32356), (761, 32362), (776, 32422), (796, 32515), (798, 32530), (808, 32572), (813, 32686),

Gene: CallaLilly_27 Start: 20835, Stop: 23267, Start Num: 61
Candidate Starts for CallaLilly_27:
(Start: 61 @20835 has 98 MA's), (95, 20934), (173, 21195), (178, 21216), (226, 21423), (235, 21456), (243, 21486), (274, 21558), (280, 21582), (333, 21780), (345, 21825), (348, 21837), (351, 21846), (370, 21897), (416, 22077), (421, 22092), (443, 22161), (450, 22173), (482, 22236), (498, 22278), (511, 22317), (515, 22323), (518, 22332), (522, 22353), (538, 22413), (583, 22530), (599, 22572), (621, 22644), (625, 22653), (630, 22674), (650, 22746), (659, 22767), (686, 22863), (734, 23010), (760, 23091), (796, 23238),

Gene: Calm_20 Start: 19011, Stop: 21692, Start Num: 50
Candidate Starts for Calm_20:
(Start: 50 @19011 has 19 MA's), (51, 19017), (112, 19194), (127, 19224), (137, 19287), (165, 19362), (181, 19416), (193, 19476), (195, 19482), (207, 19548), (222, 19611), (230, 19644), (231, 19647), (241, 19671), (255, 19695), (258, 19701), (263, 19707), (277, 19755), (283, 19776), (288, 19791), (293, 19812), (302, 19851), (306, 19863), (313, 19881), (333, 19956), (343, 19986), (351, 20010), (353, 20013), (367, 20058), (382, 20109), (386, 20127), (398, 20181), (417, 20253), (421, 20265), (424, 20274), (438, 20316), (447, 20346), (460, 20382), (464, 20400), (473, 20415), (476, 20421), (483, 20454), (523, 20583), (525, 20592), (550, 20673), (563, 20709), (565, 20715), (600, 20820), (604, 20829), (608, 20844), (612, 20862), (625, 20904), (649, 21000), (651, 21006), (672, 21060), (673, 21066), (674, 21078), (705, 21189), (714, 21219), (716, 21225), (747, 21321), (748, 21327), (758, 21351), (761, 21357), (763, 21363), (774, 21408), (776, 21417), (777, 21426), (787, 21465), (793, 21501), (796, 21510), (798, 21525), (809, 21621), (811, 21672), (812, 21678),

Gene: Capricorn_27 Start: 20912, Stop: 23344, Start Num: 61
Candidate Starts for Capricorn_27:
(Start: 61 @20912 has 98 MA's), (95, 21011), (173, 21272), (178, 21293), (226, 21500), (235, 21533), (243, 21563), (274, 21635), (280, 21659), (333, 21857), (345, 21902), (348, 21914), (351, 21923), (370, 21974), (416, 22154), (421, 22169), (443, 22238), (450, 22250), (482, 22313), (498, 22355), (511, 22394), (515, 22400), (518, 22409), (522, 22430), (538, 22490), (583, 22607), (599, 22649), (621, 22721), (625, 22730), (630, 22751), (650, 22823), (659, 22844), (686, 22940), (734, 23087), (760, 23168), (796, 23315),

Gene: CaseJules_27 Start: 20912, Stop: 23344, Start Num: 61
Candidate Starts for CaseJules_27:
(Start: 61 @20912 has 98 MA's), (95, 21011), (173, 21272), (178, 21293), (226, 21500), (235, 21533), (243, 21563), (274, 21635), (280, 21659), (333, 21857), (345, 21902), (348, 21914), (351, 21923), (370, 21974), (416, 22154), (421, 22169), (443, 22238), (450, 22250), (482, 22313), (498, 22355), (511, 22394), (515, 22400), (518, 22409), (522, 22430), (538, 22490), (583, 22607), (599, 22649), (621, 22721), (625, 22730), (630, 22751), (650, 22823), (659, 22844), (686, 22940), (734, 23087), (760, 23168), (796, 23315),

Gene: Caterpie_28 Start: 26686, Stop: 29439, Start Num: 43
Candidate Starts for Caterpie_28:
(22, 26593), (Start: 43 @26686 has 3 MA's), (Start: 66 @26764 has 26 MA's), (79, 26800), (90, 26827), (99, 26851), (127, 26920), (139, 26989), (150, 27013), (156, 27025), (205, 27259), (209, 27271), (212, 27286), (219, 27322), (233, 27364), (256, 27418), (274, 27466), (281, 27496), (282, 27499), (312, 27607), (324, 27661), (329, 27676), (332, 27691), (355, 27760), (360, 27781), (368, 27799), (375, 27832), (383, 27856), (385, 27859), (396, 27910), (406, 27946), (410, 27970), (421, 28006), (424, 28015), (426, 28030), (438, 28057), (447, 28087), (460, 28123), (464, 28141), (465, 28144), (471, 28153), (507, 28279), (522, 28327), (563, 28459), (570, 28486), (589, 28537), (594, 28549), (597, 28555), (612, 28612), (624, 28651), (637, 28699), (644, 28726), (651, 28756), (660, 28774), (669, 28804), (673, 28816), (674, 28828), (704, 28936), (708, 28951), (719, 28984), (729, 29005), (747, 29071), (758, 29101), (761, 29107), (776, 29167), (777, 29176), (779, 29185), (796, 29260), (798,

29275), (800, 29281), (808, 29317), (813, 29431),

Gene: Cerasum_19 Start: 17226, Stop: 20090, Start Num: 17
Candidate Starts for Cerasum_19:
(Start: 17 @17226 has 10 MA's), (25, 17247), (30, 17268), (37, 17307), (52, 17376), (56, 17385), (58, 17388), (75, 17439), (106, 17529), (124, 17580), (140, 17664), (145, 17676), (153, 17697), (164, 17730), (198, 17877), (212, 17940), (221, 17979), (228, 18003), (231, 18018), (236, 18027), (244, 18054), (248, 18060), (274, 18129), (280, 18150), (282, 18156), (291, 18192), (296, 18210), (321, 18303), (327, 18324), (333, 18348), (355, 18414), (360, 18435), (368, 18453), (375, 18486), (385, 18513), (396, 18564), (406, 18600), (410, 18624), (421, 18660), (424, 18669), (426, 18684), (438, 18711), (447, 18741), (460, 18777), (467, 18801), (500, 18900), (511, 18939), (522, 18978), (526, 18999), (563, 19110), (570, 19137), (582, 19167), (589, 19188), (594, 19200), (597, 19206), (612, 19263), (651, 19407), (660, 19425), (673, 19467), (674, 19479), (719, 19635), (747, 19722), (758, 19752), (761, 19758), (776, 19818), (779, 19836), (796, 19911), (800, 19932), (808, 19968), (813, 20082),

Gene: Chaser_20 Start: 18881, Stop: 21517, Start Num: 31
Candidate Starts for Chaser_20:
(Start: 31 @18881 has 6 MA's), (33, 18887), (37, 18908), (56, 18986), (98, 19106), (111, 19145), (157, 19307), (168, 19346), (169, 19352), (176, 19382), (184, 19418), (194, 19454), (200, 19481), (202, 19487), (206, 19514), (216, 19565), (227, 19604), (232, 19625), (242, 19661), (273, 19739), (274, 19742), (278, 19754), (282, 19769), (287, 19781), (308, 19862), (318, 19904), (334, 19964), (372, 20078), (377, 20102), (400, 20180), (401, 20183), (407, 20213), (411, 20234), (412, 20237), (430, 20300), (456, 20369), (497, 20483), (515, 20537), (519, 20552), (520, 20558), (540, 20636), (552, 20666), (565, 20699), (578, 20738), (581, 20747), (597, 20789), (598, 20792), (628, 20897), (632, 20909), (636, 20921), (637, 20924), (654, 20987), (658, 20996), (714, 21188), (726, 21218), (742, 21275), (754, 21314), (759, 21326), (770, 21359), (800, 21500),

Gene: CheetoDust_27 Start: 20889, Stop: 23321, Start Num: 61
Candidate Starts for CheetoDust_27:
(Start: 61 @20889 has 98 MA's), (95, 20988), (173, 21249), (226, 21477), (234, 21507), (235, 21510), (243, 21540), (274, 21612), (280, 21636), (292, 21681), (333, 21834), (345, 21879), (348, 21891), (351, 21900), (370, 21951), (416, 22131), (421, 22146), (438, 22197), (443, 22215), (450, 22227), (479, 22269), (482, 22290), (498, 22332), (511, 22371), (515, 22377), (518, 22386), (522, 22407), (535, 22455), (538, 22467), (555, 22515), (583, 22584), (599, 22626), (620, 22695), (621, 22698), (625, 22707), (630, 22728), (659, 22821), (686, 22917), (705, 22980), (734, 23064), (760, 23145), (780, 23220),

Gene: Chris_26 Start: 20139, Stop: 22598, Start Num: 61
Candidate Starts for Chris_26:
(Start: 61 @20139 has 98 MA's), (Start: 62 @20148 has 2 MA's), (76, 20187), (118, 20310), (129, 20367), (166, 20472), (178, 20520), (182, 20547), (218, 20709), (259, 20820), (261, 20829), (262, 20838), (268, 20859), (280, 20907), (308, 21009), (349, 21168), (374, 21249), (399, 21351), (416, 21405), (436, 21465), (474, 21528), (479, 21543), (480, 21555), (482, 21564), (498, 21606), (511, 21651), (518, 21666), (541, 21753), (551, 21777), (630, 22014), (661, 22110), (700, 22248), (731, 22332), (794, 22563), (796, 22569),

Gene: ChutneyChips_20 Start: 18874, Stop: 21414, Start Num: 31
Candidate Starts for ChutneyChips_20:
(Start: 31 @18874 has 6 MA's), (33, 18880), (37, 18901), (49, 18955), (64, 19003), (111, 19138), (141, 19258), (166, 19330), (168, 19339), (184, 19411), (194, 19447), (206, 19507), (226, 19588), (229, 19612), (232, 19618), (242, 19654), (285, 19768), (305, 19849), (307, 19852), (308, 19855), (314, 19876), (324, 19921), (335, 19957), (339, 19969), (372, 20068), (375, 20086), (430, 20287), (441,

20311), (456, 20350), (461, 20368), (464, 20380), (471, 20392), (489, 20449), (493, 20464), (497, 20473), (524, 20563), (527, 20578), (530, 20590), (533, 20596), (542, 20626), (550, 20650), (553, 20656), (563, 20686), (573, 20719), (587, 20752), (631, 20890), (637, 20911), (645, 20941), (652, 20968), (675, 21040), (684, 21079), (693, 21112), (709, 21157), (715, 21175), (724, 21196), (733, 21223), (753, 21298), (760, 21313), (773, 21355),

Gene: CicholasNage_20 Start: 18999, Stop: 21680, Start Num: 50
Candidate Starts for CicholasNage_20:
(Start: 50 @18999 has 19 MA's), (51, 19005), (112, 19182), (127, 19212), (137, 19275), (165, 19350), (181, 19404), (193, 19464), (195, 19470), (207, 19536), (222, 19599), (230, 19632), (231, 19635), (241, 19659), (255, 19683), (258, 19689), (263, 19695), (277, 19743), (283, 19764), (288, 19779), (293, 19800), (302, 19839), (306, 19851), (313, 19869), (333, 19944), (343, 19974), (351, 19998), (353, 20001), (367, 20046), (382, 20097), (386, 20115), (398, 20169), (417, 20241), (421, 20253), (424, 20262), (438, 20304), (447, 20334), (460, 20370), (464, 20388), (473, 20403), (476, 20409), (483, 20442), (523, 20571), (525, 20580), (550, 20661), (563, 20697), (565, 20703), (600, 20808), (604, 20817), (608, 20832), (612, 20850), (625, 20892), (649, 20988), (651, 20994), (672, 21048), (673, 21054), (674, 21066), (705, 21177), (714, 21207), (716, 21213), (729, 21243), (747, 21309), (748, 21315), (758, 21339), (761, 21345), (763, 21351), (774, 21396), (776, 21405), (777, 21414), (787, 21453), (793, 21489), (796, 21498), (798, 21513), (809, 21609), (811, 21660), (812, 21666),

Gene: Clifton_18 Start: 17353, Stop: 20217, Start Num: 17
Candidate Starts for Clifton_18:
(15, 17341), (Start: 17 @17353 has 10 MA's), (25, 17374), (30, 17395), (37, 17434), (52, 17503), (56, 17512), (58, 17515), (75, 17566), (106, 17656), (122, 17701), (140, 17791), (143, 17800), (145, 17803), (153, 17824), (159, 17836), (170, 17869), (198, 18004), (209, 18052), (212, 18067), (215, 18088), (228, 18130), (231, 18145), (236, 18154), (244, 18181), (248, 18187), (268, 18232), (271, 18241), (274, 18256), (278, 18268), (280, 18277), (282, 18283), (286, 18292), (291, 18319), (296, 18337), (321, 18430), (327, 18451), (333, 18475), (355, 18541), (360, 18562), (368, 18580), (375, 18613), (383, 18637), (385, 18640), (396, 18691), (406, 18727), (410, 18751), (421, 18787), (424, 18796), (426, 18811), (438, 18838), (447, 18868), (460, 18904), (467, 18928), (500, 19027), (511, 19066), (525, 19120), (563, 19237), (570, 19264), (594, 19327), (597, 19333), (600, 19348), (612, 19390), (637, 19477), (644, 19504), (651, 19534), (660, 19552), (669, 19582), (673, 19594), (674, 19606), (703, 19711), (708, 19729), (719, 19762), (747, 19849), (758, 19879), (761, 19885), (776, 19945), (777, 19954), (779, 19963), (796, 20038), (800, 20059), (808, 20095), (813, 20209),

Gene: Clipper_27 Start: 20889, Stop: 23321, Start Num: 61
Candidate Starts for Clipper_27:
(Start: 61 @20889 has 98 MA's), (95, 20988), (173, 21249), (178, 21270), (226, 21477), (235, 21510), (243, 21540), (274, 21612), (280, 21636), (292, 21681), (333, 21834), (345, 21879), (348, 21891), (351, 21900), (370, 21951), (416, 22131), (421, 22146), (443, 22215), (450, 22227), (482, 22290), (498, 22332), (511, 22371), (515, 22377), (518, 22386), (522, 22407), (538, 22467), (583, 22584), (599, 22626), (621, 22698), (625, 22707), (630, 22728), (650, 22800), (659, 22821), (686, 22917), (760, 23145), (796, 23292),

Gene: Coffee_32 Start: 30077, Stop: 32797, Start Num: 44
Candidate Starts for Coffee_32:
(Start: 44 @30077 has 36 MA's), (60, 30131), (74, 30170), (90, 30215), (99, 30239), (100, 30242), (113, 30275), (144, 30383), (154, 30404), (156, 30407), (175, 30461), (190, 30521), (195, 30545), (197, 30581), (207, 30629), (212, 30650), (219, 30689), (231, 30728), (237, 30743), (264, 30797), (267, 30809), (274, 30833), (281, 30857), (286, 30869), (290, 30884), (292, 30899), (303, 30941), (309, 30959), (318, 30998), (324, 31022), (375, 31193), (396, 31271), (410, 31331), (421, 31367), (422, 31370), (447, 31448), (460, 31484), (467, 31508), (477, 31529), (525, 31700), (526, 31706), (563, 31817), (570, 31844), (594, 31907), (597, 31913), (600, 31928), (612, 31970), (637, 32057),

(644, 32084), (651, 32114), (660, 32132), (667, 32153), (669, 32162), (672, 32168), (673, 32174), (674, 32186), (703, 32291), (708, 32309), (719, 32342), (747, 32429), (758, 32459), (761, 32465), (776, 32525), (796, 32618), (798, 32633), (808, 32675), (813, 32789),

Gene: Collard_25 Start: 21217, Stop: 23727, Start Num: 68
Candidate Starts for Collard_25:
(Start: 68 @21217 has 25 MA's), (85, 21265), (89, 21277), (94, 21286), (153, 21496), (176, 21580), (211, 21733), (214, 21757), (224, 21787), (250, 21868), (255, 21877), (260, 21886), (269, 21913), (274, 21934), (282, 21967), (287, 21979), (292, 22006), (294, 22012), (307, 22057), (325, 22135), (346, 22213), (352, 22234), (367, 22279), (375, 22315), (385, 22351), (390, 22372), (396, 22402), (398, 22414), (429, 22534), (451, 22597), (460, 22621), (481, 22678), (501, 22735), (505, 22750), (512, 22771), (523, 22810), (568, 22951), (601, 23038), (624, 23104), (635, 23140), (647, 23173), (650, 23194), (666, 23230), (683, 23305), (685, 23308), (690, 23332), (702, 23365), (710, 23392), (717, 23413), (726, 23431), (741, 23485), (800, 23713),

Gene: Commandaria_45 Start: 33923, Stop: 36313, Start Num: 66
Candidate Starts for Commandaria_45:
(Start: 66 @33923 has 26 MA's), (115, 34052), (142, 34157), (206, 34391), (207, 34394), (225, 34466), (235, 34502), (239, 34523), (282, 34631), (292, 34670), (296, 34685), (298, 34691), (319, 34769), (320, 34775), (398, 35042), (443, 35174), (474, 35216), (494, 35288), (498, 35297), (542, 35447), (545, 35453), (589, 35570), (615, 35645), (618, 35654), (711, 35957), (724, 35990), (735, 36020), (780, 36167),

Gene: CrimD_27 Start: 20850, Stop: 23282, Start Num: 61
Candidate Starts for CrimD_27:
(Start: 61 @20850 has 98 MA's), (95, 20949), (173, 21210), (226, 21438), (235, 21471), (243, 21501), (274, 21573), (280, 21597), (292, 21642), (333, 21795), (345, 21840), (348, 21852), (351, 21861), (362, 21897), (370, 21912), (416, 22092), (421, 22107), (443, 22176), (450, 22188), (482, 22251), (498, 22293), (511, 22332), (515, 22338), (518, 22347), (522, 22368), (538, 22428), (583, 22545), (599, 22587), (625, 22668), (630, 22689), (659, 22782), (686, 22878), (760, 23106),

Gene: Crumble_18 Start: 17400, Stop: 20264, Start Num: 17
Candidate Starts for Crumble_18:
(15, 17388), (Start: 17 @17400 has 10 MA's), (25, 17421), (30, 17442), (37, 17481), (52, 17550), (56, 17559), (58, 17562), (75, 17613), (106, 17703), (122, 17748), (140, 17838), (143, 17847), (145, 17850), (153, 17871), (159, 17883), (170, 17916), (198, 18051), (209, 18099), (212, 18114), (215, 18135), (228, 18177), (231, 18192), (236, 18201), (244, 18228), (248, 18234), (268, 18279), (271, 18288), (274, 18303), (278, 18315), (280, 18324), (282, 18330), (286, 18339), (291, 18366), (296, 18384), (321, 18477), (327, 18498), (333, 18522), (355, 18588), (360, 18609), (368, 18627), (375, 18660), (383, 18684), (385, 18687), (396, 18738), (406, 18774), (410, 18798), (421, 18834), (424, 18843), (426, 18858), (438, 18885), (447, 18915), (460, 18951), (467, 18975), (500, 19074), (511, 19113), (525, 19167), (563, 19284), (570, 19311), (594, 19374), (597, 19380), (600, 19395), (612, 19437), (637, 19524), (644, 19551), (651, 19581), (660, 19599), (669, 19629), (673, 19641), (674, 19653), (703, 19758), (708, 19776), (719, 19809), (747, 19896), (758, 19926), (761, 19932), (776, 19992), (777, 20001), (779, 20010), (796, 20085), (800, 20106), (808, 20142), (813, 20256),

Gene: D12_24 Start: 27231, Stop: 29945, Start Num: 45
Candidate Starts for D12_24:
(Start: 45 @27231 has 4 MA's), (65, 27300), (79, 27333), (87, 27354), (110, 27411), (123, 27441), (128, 27459), (154, 27552), (156, 27555), (175, 27609), (176, 27615), (195, 27693), (197, 27729), (203, 27750), (212, 27798), (219, 27837), (237, 27891), (264, 27945), (267, 27957), (274, 27981), (281, 28005), (282, 28008), (292, 28047), (303, 28089), (324, 28170), (329, 28185), (338, 28215), (368, 28308), (375, 28341), (393, 28398), (395, 28410), (396, 28419), (410, 28479), (421, 28515),

(422, 28518), (447, 28596), (460, 28632), (471, 28662), (477, 28677), (507, 28785), (522, 28833), (523, 28839), (525, 28848), (526, 28854), (563, 28965), (570, 28992), (594, 29055), (597, 29061), (600, 29076), (612, 29118), (651, 29262), (660, 29280), (673, 29322), (674, 29334), (703, 29439), (708, 29457), (719, 29490), (747, 29577), (758, 29607), (761, 29613), (766, 29634), (776, 29673), (779, 29691), (796, 29766), (800, 29787), (808, 29823), (813, 29937),

Gene: Dadosky_26 Start: 21194, Stop: 23698, Start Num: 68
Candidate Starts for Dadosky_26:
(Start: 68 @21194 has 25 MA's), (85, 21242), (89, 21254), (131, 21401), (153, 21470), (176, 21554), (211, 21707), (214, 21731), (223, 21758), (250, 21842), (255, 21851), (260, 21860), (269, 21887), (274, 21908), (282, 21941), (287, 21953), (292, 21980), (325, 22109), (346, 22187), (352, 22208), (367, 22253), (375, 22289), (378, 22301), (385, 22325), (396, 22376), (398, 22388), (417, 22466), (429, 22508), (451, 22571), (460, 22595), (501, 22709), (505, 22724), (512, 22745), (523, 22784), (568, 22925), (601, 23012), (607, 23021), (624, 23078), (635, 23114), (647, 23147), (650, 23168), (683, 23279), (685, 23282), (690, 23306), (700, 23330), (701, 23336), (702, 23339), (710, 23366), (717, 23387), (726, 23405), (741, 23456), (768, 23537), (800, 23684),

Gene: Dalilpop_48 Start: 34884, Stop: 37253, Start Num: 66
Candidate Starts for Dalilpop_48:
(Start: 66 @34884 has 26 MA's), (129, 35067), (206, 35352), (207, 35355), (218, 35412), (235, 35463), (239, 35484), (248, 35499), (280, 35586), (282, 35592), (292, 35631), (398, 36003), (443, 36135), (484, 36219), (494, 36249), (511, 36303), (607, 36579), (615, 36603), (618, 36612), (670, 36768), (688, 36837), (724, 36945), (732, 36966), (735, 36975), (739, 36990), (804, 37239),

Gene: Dalmuri_27 Start: 20912, Stop: 23344, Start Num: 61
Candidate Starts for Dalmuri_27:
(Start: 61 @20912 has 98 MA's), (95, 21011), (173, 21272), (178, 21293), (226, 21500), (235, 21533), (243, 21563), (274, 21635), (280, 21659), (333, 21857), (345, 21902), (348, 21914), (351, 21923), (370, 21974), (416, 22154), (421, 22169), (443, 22238), (450, 22250), (482, 22313), (498, 22355), (511, 22394), (515, 22400), (518, 22409), (522, 22430), (538, 22490), (583, 22607), (599, 22649), (621, 22721), (625, 22730), (630, 22751), (650, 22823), (659, 22844), (686, 22940), (734, 23087), (760, 23168), (796, 23315),

Gene: DanSyl44_29 Start: 22286, Stop: 25030, Start Num: 41
Candidate Starts for DanSyl44_29:
(Start: 41 @22286 has 3 MA's), (69, 22376), (77, 22397), (90, 22421), (92, 22427), (99, 22445), (122, 22511), (140, 22601), (143, 22610), (145, 22613), (153, 22634), (159, 22646), (170, 22679), (198, 22814), (209, 22862), (212, 22877), (215, 22898), (221, 22916), (228, 22940), (231, 22955), (236, 22964), (244, 22991), (248, 22997), (268, 23042), (274, 23066), (278, 23078), (280, 23087), (282, 23093), (286, 23102), (291, 23129), (296, 23147), (321, 23240), (324, 23252), (327, 23261), (355, 23351), (360, 23372), (368, 23390), (375, 23423), (383, 23447), (385, 23450), (396, 23501), (406, 23537), (410, 23561), (421, 23597), (424, 23606), (426, 23621), (438, 23648), (447, 23678), (460, 23714), (464, 23732), (465, 23735), (471, 23744), (507, 23870), (518, 23894), (525, 23933), (563, 24050), (570, 24077), (594, 24140), (597, 24146), (600, 24161), (612, 24203), (637, 24290), (651, 24347), (660, 24365), (669, 24395), (673, 24407), (674, 24419), (704, 24527), (708, 24542), (719, 24575), (729, 24596), (747, 24662), (758, 24692), (761, 24698), (776, 24758), (779, 24776), (796, 24851), (800, 24872), (808, 24908), (813, 25022),

Gene: Daredevil_36 Start: 31430, Stop: 34606, Start Num: 1
Candidate Starts for Daredevil_36:
(Start: 1 @31430 has 2 MA's), (2, 31484), (5, 31592), (6, 31655), (10, 31724), (11, 31727), (72, 32066), (103, 32156), (138, 32297), (148, 32327), (159, 32357), (211, 32573), (274, 32768), (282, 32795), (308, 32891), (359, 33107), (402, 33269), (418, 33341), (421, 33350), (490, 33572), (517, 33653),

(523, 33683), (544, 33752), (562, 33809), (592, 33893), (596, 33905), (674, 34151), (688, 34208), (698, 34235), (702, 34244), (707, 34256), (740, 34358),

Gene: DartGoblin_27 Start: 20819, Stop: 23251, Start Num: 61
Candidate Starts for DartGoblin_27:
(55, 20801), (Start: 61 @20819 has 98 MA's), (76, 20867), (95, 20918), (173, 21179), (178, 21200), (235, 21440), (243, 21470), (245, 21473), (280, 21566), (285, 21578), (292, 21611), (333, 21764), (348, 21821), (351, 21830), (370, 21881), (416, 22061), (421, 22076), (443, 22145), (450, 22157), (478, 22193), (482, 22220), (498, 22262), (511, 22301), (515, 22307), (518, 22316), (522, 22337), (538, 22397), (553, 22430), (555, 22445), (583, 22514), (599, 22556), (621, 22628), (625, 22637), (630, 22658), (650, 22730), (686, 22847), (734, 22994), (760, 23075), (780, 23150), (796, 23222),

Gene: Deby_27 Start: 20846, Stop: 23278, Start Num: 61
Candidate Starts for Deby_27:
(Start: 61 @20846 has 98 MA's), (95, 20945), (173, 21206), (178, 21227), (226, 21434), (235, 21467), (243, 21497), (274, 21569), (280, 21593), (333, 21791), (345, 21836), (348, 21848), (351, 21857), (370, 21908), (416, 22088), (421, 22103), (443, 22172), (450, 22184), (482, 22247), (498, 22289), (511, 22328), (515, 22334), (518, 22343), (522, 22364), (538, 22424), (553, 22457), (555, 22472), (556, 22475), (575, 22529), (583, 22541), (621, 22655), (625, 22664), (630, 22685), (650, 22757), (659, 22778), (686, 22874), (760, 23102), (796, 23249),

Gene: Demikore_37 Start: 28751, Stop: 32041, Start Num: 4
Candidate Starts for Demikore_37:
(Start: 3 @28739 has 3 MA's), (Start: 4 @28751 has 1 MA's), (7, 28880), (8, 28889), (9, 28901), (22, 29075), (40, 29159), (84, 29312), (100, 29354), (111, 29387), (117, 29414), (122, 29426), (181, 29642), (188, 29699), (192, 29720), (210, 29825), (215, 29861), (266, 29999), (272, 30026), (282, 30068), (289, 30092), (320, 30218), (324, 30233), (331, 30260), (337, 30281), (339, 30296), (342, 30305), (421, 30611), (422, 30614), (426, 30635), (447, 30692), (460, 30728), (467, 30752), (471, 30758), (477, 30773), (506, 30875), (507, 30881), (525, 30944), (549, 31019), (563, 31061), (612, 31214), (651, 31358), (660, 31376), (669, 31406), (673, 31418), (674, 31430), (732, 31619), (761, 31709), (776, 31769), (777, 31778), (798, 31877), (811, 32024), (812, 32030), (813, 32033),

Gene: Devera_27 Start: 20893, Stop: 23325, Start Num: 61
Candidate Starts for Devera_27:
(Start: 61 @20893 has 98 MA's), (76, 20941), (95, 20992), (173, 21253), (178, 21274), (226, 21481), (235, 21514), (243, 21544), (274, 21616), (280, 21640), (292, 21685), (333, 21838), (348, 21895), (351, 21904), (362, 21940), (370, 21955), (416, 22135), (421, 22150), (443, 22219), (450, 22231), (482, 22294), (498, 22336), (511, 22375), (515, 22381), (518, 22390), (522, 22411), (538, 22471), (555, 22519), (575, 22576), (583, 22588), (599, 22630), (621, 22702), (625, 22711), (650, 22804), (659, 22825), (686, 22921), (702, 22975), (734, 23068), (760, 23149), (796, 23296),

Gene: DirkDirk_20 Start: 18980, Stop: 21661, Start Num: 50
Candidate Starts for DirkDirk_20:
(Start: 50 @18980 has 19 MA's), (51, 18986), (112, 19163), (127, 19193), (137, 19256), (165, 19331), (193, 19445), (195, 19451), (207, 19517), (222, 19580), (230, 19613), (231, 19616), (241, 19640), (255, 19664), (258, 19670), (263, 19676), (277, 19724), (283, 19745), (288, 19760), (293, 19781), (302, 19820), (306, 19832), (313, 19850), (333, 19925), (343, 19955), (351, 19979), (353, 19982), (367, 20027), (382, 20078), (386, 20096), (398, 20150), (417, 20222), (421, 20234), (424, 20243), (428, 20261), (438, 20285), (447, 20315), (460, 20351), (473, 20384), (476, 20390), (492, 20456), (516, 20522), (525, 20561), (550, 20642), (563, 20678), (565, 20684), (600, 20789), (604, 20798), (608, 20813), (612, 20831), (625, 20873), (649, 20969), (651, 20975), (672, 21029), (673, 21035), (674, 21047), (705, 21158), (714, 21188), (716, 21194), (747, 21290), (748, 21296), (758, 21320), (761, 21326), (763, 21332), (774, 21377), (776, 21386), (777, 21395), (787, 21434), (793, 21470),

(796, 21479), (798, 21494), (809, 21590), (811, 21641), (812, 21647),

Gene: Dole_27 Start: 20895, Stop: 23327, Start Num: 61
Candidate Starts for Dole_27:
(Start: 61 @20895 has 98 MA's), (76, 20943), (95, 20994), (173, 21255), (178, 21276), (226, 21483), (235, 21516), (243, 21546), (274, 21618), (280, 21642), (292, 21687), (333, 21840), (348, 21897), (351, 21906), (362, 21942), (370, 21957), (416, 22137), (421, 22152), (443, 22221), (450, 22233), (482, 22296), (498, 22338), (511, 22377), (515, 22383), (518, 22392), (522, 22413), (538, 22473), (555, 22521), (575, 22578), (583, 22590), (599, 22632), (621, 22704), (625, 22713), (650, 22806), (659, 22827), (686, 22923), (702, 22977), (734, 23070), (760, 23151), (796, 23298),

Gene: DoubleChamp_25 Start: 21217, Stop: 23727, Start Num: 68
Candidate Starts for DoubleChamp_25:
(Start: 68 @21217 has 25 MA's), (85, 21265), (89, 21277), (94, 21286), (153, 21496), (176, 21580), (211, 21733), (214, 21757), (224, 21787), (250, 21868), (255, 21877), (260, 21886), (269, 21913), (274, 21934), (282, 21967), (287, 21979), (292, 22006), (294, 22012), (307, 22057), (325, 22135), (346, 22213), (352, 22234), (367, 22279), (375, 22315), (385, 22351), (390, 22372), (396, 22402), (398, 22414), (429, 22534), (451, 22597), (460, 22621), (481, 22678), (501, 22735), (505, 22750), (512, 22771), (523, 22810), (568, 22951), (601, 23038), (624, 23104), (635, 23140), (647, 23173), (650, 23194), (666, 23230), (683, 23305), (685, 23308), (690, 23332), (702, 23365), (710, 23392), (717, 23413), (726, 23431), (741, 23485), (800, 23713),

Gene: Douge_20 Start: 18822, Stop: 21458, Start Num: 31
Candidate Starts for Douge_20:
(Start: 31 @18822 has 6 MA's), (33, 18828), (37, 18849), (56, 18927), (98, 19047), (111, 19086), (157, 19248), (168, 19287), (169, 19293), (176, 19323), (184, 19359), (194, 19395), (206, 19455), (216, 19506), (218, 19518), (232, 19566), (242, 19602), (273, 19680), (285, 19716), (287, 19722), (300, 19785), (308, 19803), (312, 19815), (321, 19857), (334, 19905), (372, 20019), (377, 20043), (400, 20121), (407, 20154), (411, 20175), (412, 20178), (430, 20241), (449, 20295), (456, 20310), (497, 20424), (515, 20478), (519, 20493), (520, 20499), (548, 20595), (552, 20607), (561, 20628), (565, 20640), (566, 20652), (578, 20679), (581, 20688), (594, 20724), (597, 20730), (598, 20733), (628, 20838), (632, 20850), (636, 20862), (637, 20865), (654, 20928), (658, 20937), (672, 20973), (712, 21123), (714, 21129), (726, 21159), (731, 21177), (747, 21234), (754, 21255), (755, 21258), (759, 21267), (770, 21300), (782, 21354),

Gene: Douzhi_20 Start: 18813, Stop: 21416, Start Num: 31
Candidate Starts for Douzhi_20:
(Start: 31 @18813 has 6 MA's), (33, 18819), (37, 18840), (56, 18918), (98, 19038), (111, 19077), (168, 19278), (169, 19284), (178, 19317), (179, 19320), (217, 19500), (220, 19509), (226, 19524), (232, 19542), (240, 19572), (270, 19626), (274, 19644), (284, 19674), (308, 19764), (311, 19773), (312, 19776), (321, 19818), (334, 19866), (363, 19959), (372, 19980), (377, 20004), (387, 20028), (397, 20073), (407, 20115), (439, 20226), (446, 20247), (449, 20256), (457, 20274), (485, 20346), (519, 20448), (531, 20499), (534, 20505), (542, 20532), (548, 20547), (551, 20559), (565, 20598), (581, 20646), (590, 20670), (629, 20796), (631, 20805), (654, 20886), (714, 21087), (725, 21114), (730, 21129), (754, 21213), (782, 21312),

Gene: DrHayes_27 Start: 20840, Stop: 23272, Start Num: 61
Candidate Starts for DrHayes_27:
(55, 20822), (Start: 61 @20840 has 98 MA's), (76, 20888), (95, 20939), (173, 21200), (178, 21221), (234, 21458), (235, 21461), (243, 21491), (245, 21494), (274, 21563), (280, 21587), (282, 21593), (285, 21599), (292, 21632), (333, 21785), (348, 21842), (351, 21851), (370, 21902), (416, 22082), (421, 22097), (443, 22166), (450, 22178), (478, 22214), (482, 22241), (498, 22283), (511, 22322), (515, 22328), (518, 22337), (522, 22358), (538, 22418), (553, 22451), (556, 22469), (583, 22535),

(599, 22577), (621, 22649), (625, 22658), (630, 22679), (650, 22751), (686, 22868), (734, 23015), (760, 23096), (780, 23171), (796, 23243),

Gene: DumpsterDude_22 Start: 19471, Stop: 21993, Start Num: 38
Candidate Starts for DumpsterDude_22:
(Start: 38 @19471 has 2 MA's), (54, 19531), (116, 19705), (130, 19774), (140, 19813), (141, 19816), (189, 19987), (218, 20122), (229, 20158), (248, 20209), (266, 20248), (274, 20284), (282, 20311), (289, 20335), (292, 20350), (297, 20368), (337, 20506), (341, 20527), (345, 20536), (372, 20620), (376, 20641), (378, 20650), (380, 20659), (394, 20710), (395, 20716), (404, 20752), (472, 20917), (495, 20998), (537, 21142), (540, 21154), (564, 21211), (589, 21277), (606, 21325), (618, 21361), (621, 21376), (681, 21553), (771, 21814), (784, 21877), (792, 21910), (807, 21982),

Gene: Durfee_27 Start: 20912, Stop: 23344, Start Num: 61
Candidate Starts for Durfee_27:
(Start: 61 @20912 has 98 MA's), (95, 21011), (173, 21272), (178, 21293), (226, 21500), (235, 21533), (243, 21563), (274, 21635), (280, 21659), (333, 21857), (345, 21902), (348, 21914), (351, 21923), (370, 21974), (416, 22154), (421, 22169), (443, 22238), (450, 22250), (482, 22313), (498, 22355), (511, 22394), (515, 22400), (518, 22409), (522, 22430), (538, 22490), (583, 22607), (599, 22649), (621, 22721), (625, 22730), (630, 22751), (650, 22823), (659, 22844), (686, 22940), (734, 23087), (760, 23168), (796, 23315),

Gene: DyoEdafos_21 Start: 19029, Stop: 21665, Start Num: 31
Candidate Starts for DyoEdafos_21:
(Start: 31 @19029 has 6 MA's), (33, 19035), (37, 19056), (79, 19206), (111, 19293), (127, 19347), (157, 19455), (168, 19494), (184, 19566), (194, 19602), (200, 19629), (202, 19635), (206, 19662), (216, 19713), (232, 19773), (242, 19809), (273, 19887), (274, 19890), (278, 19902), (287, 19929), (308, 20010), (318, 20052), (334, 20112), (372, 20226), (377, 20250), (400, 20328), (401, 20331), (407, 20361), (412, 20385), (430, 20448), (456, 20517), (482, 20589), (497, 20631), (515, 20685), (519, 20700), (520, 20706), (540, 20784), (552, 20814), (565, 20847), (578, 20886), (581, 20895), (597, 20937), (598, 20940), (628, 21045), (632, 21057), (636, 21069), (637, 21072), (654, 21135), (658, 21144), (714, 21336), (726, 21366), (742, 21423), (754, 21462), (759, 21474), (770, 21507), (800, 21648),

Gene: Eaglehorse_32 Start: 30001, Stop: 32721, Start Num: 44
Candidate Starts for Eaglehorse_32:
(Start: 44 @30001 has 36 MA's), (60, 30055), (74, 30094), (90, 30139), (99, 30163), (100, 30166), (113, 30199), (144, 30307), (154, 30328), (156, 30331), (175, 30385), (190, 30445), (195, 30469), (197, 30505), (207, 30553), (212, 30574), (219, 30613), (231, 30652), (237, 30667), (264, 30721), (267, 30733), (274, 30757), (281, 30781), (286, 30793), (290, 30808), (292, 30823), (303, 30865), (309, 30883), (318, 30922), (324, 30946), (375, 31117), (396, 31195), (410, 31255), (421, 31291), (422, 31294), (447, 31372), (460, 31408), (467, 31432), (477, 31453), (525, 31624), (563, 31741), (570, 31768), (594, 31831), (597, 31837), (600, 31852), (612, 31894), (637, 31981), (644, 32008), (651, 32038), (660, 32056), (667, 32077), (669, 32086), (672, 32092), (673, 32098), (674, 32110), (703, 32215), (708, 32233), (719, 32266), (747, 32353), (758, 32383), (761, 32389), (776, 32449), (796, 32542), (798, 32557), (808, 32599), (813, 32713),

Gene: Edugator_25 Start: 21193, Stop: 23697, Start Num: 68
Candidate Starts for Edugator_25:
(Start: 68 @21193 has 25 MA's), (85, 21241), (89, 21253), (131, 21400), (153, 21469), (176, 21553), (211, 21706), (214, 21730), (223, 21757), (250, 21841), (255, 21850), (260, 21859), (269, 21886), (274, 21907), (282, 21940), (287, 21952), (292, 21979), (325, 22108), (346, 22186), (352, 22207), (367, 22252), (375, 22288), (378, 22300), (385, 22324), (396, 22375), (398, 22387), (417, 22465), (429, 22507), (451, 22570), (460, 22594), (501, 22708), (505, 22723), (512, 22744), (523, 22783),

(568, 22924), (601, 23011), (607, 23020), (624, 23077), (635, 23113), (647, 23146), (650, 23167), (683, 23278), (685, 23281), (690, 23305), (700, 23329), (701, 23335), (702, 23338), (710, 23365), (717, 23386), (726, 23404), (741, 23455), (768, 23536), (800, 23683),

Gene: Efra2_27 Start: 20082, Stop: 22514, Start Num: 61
Candidate Starts for Efra2_27:
(Start: 61 @20082 has 98 MA's), (76, 20130), (77, 20133), (80, 20142), (173, 20442), (178, 20463), (235, 20703), (274, 20805), (280, 20829), (282, 20835), (292, 20874), (333, 21027), (348, 21084), (351, 21093), (370, 21144), (418, 21330), (421, 21339), (423, 21345), (438, 21390), (443, 21408), (482, 21483), (498, 21525), (511, 21564), (515, 21570), (518, 21579), (522, 21600), (535, 21648), (553, 21693), (555, 21708), (583, 21777), (599, 21819), (625, 21900), (650, 21993), (659, 22014), (686, 22110), (760, 22338), (775, 22392), (780, 22413), (796, 22485), (799, 22503),

Gene: Emerson_27 Start: 20872, Stop: 23304, Start Num: 61
Candidate Starts for Emerson_27:
(Start: 61 @20872 has 98 MA's), (95, 20971), (173, 21232), (178, 21253), (226, 21460), (235, 21493), (243, 21523), (274, 21595), (280, 21619), (292, 21664), (333, 21817), (345, 21862), (348, 21874), (351, 21883), (370, 21934), (416, 22114), (421, 22129), (443, 22198), (450, 22210), (482, 22273), (498, 22315), (511, 22354), (515, 22360), (518, 22369), (522, 22390), (538, 22450), (583, 22567), (599, 22609), (621, 22681), (625, 22690), (630, 22711), (650, 22783), (659, 22804), (686, 22900), (705, 22963), (760, 23128), (796, 23275),

Gene: Emianna_43 Start: 33608, Stop: 35974, Start Num: 66
Candidate Starts for Emianna_43:
(Start: 66 @33608 has 26 MA's), (79, 33650), (115, 33737), (206, 34076), (282, 34316), (292, 34355), (296, 34370), (319, 34454), (320, 34460), (369, 34598), (392, 34691), (398, 34727), (479, 34919), (484, 34943), (494, 34973), (498, 34982), (511, 35027), (564, 35195), (591, 35258), (607, 35303), (615, 35327), (670, 35492), (671, 35495), (678, 35528), (688, 35570), (704, 35621), (721, 35672), (724, 35678), (732, 35699), (735, 35708), (739, 35723), (753, 35768), (802, 35954),

Gene: Enceladus_20 Start: 18981, Stop: 21662, Start Num: 50
Candidate Starts for Enceladus_20:
(Start: 50 @18981 has 19 MA's), (51, 18987), (112, 19164), (127, 19194), (137, 19257), (165, 19332), (193, 19446), (195, 19452), (207, 19518), (222, 19581), (230, 19614), (231, 19617), (241, 19641), (255, 19665), (258, 19671), (263, 19677), (277, 19725), (283, 19746), (288, 19761), (293, 19782), (302, 19821), (306, 19833), (313, 19851), (333, 19926), (343, 19956), (351, 19980), (353, 19983), (367, 20028), (382, 20079), (386, 20097), (398, 20151), (417, 20223), (421, 20235), (424, 20244), (428, 20262), (438, 20286), (447, 20316), (460, 20352), (473, 20385), (476, 20391), (492, 20457), (516, 20523), (525, 20562), (550, 20643), (563, 20679), (565, 20685), (600, 20790), (604, 20799), (608, 20814), (612, 20832), (625, 20874), (649, 20970), (651, 20976), (672, 21030), (673, 21036), (674, 21048), (705, 21159), (714, 21189), (716, 21195), (747, 21291), (748, 21297), (758, 21321), (761, 21327), (763, 21333), (774, 21378), (776, 21387), (777, 21396), (787, 21435), (793, 21471), (796, 21480), (798, 21495), (809, 21591), (811, 21642), (812, 21648),

Gene: Eponine_28 Start: 22173, Stop: 24917, Start Num: 41
Candidate Starts for Eponine_28:
(39, 22164), (Start: 41 @22173 has 3 MA's), (69, 22263), (90, 22308), (99, 22332), (140, 22488), (145, 22500), (153, 22521), (170, 22566), (198, 22701), (209, 22749), (212, 22764), (215, 22785), (221, 22803), (228, 22827), (231, 22842), (236, 22851), (244, 22878), (248, 22884), (268, 22929), (274, 22953), (278, 22965), (280, 22974), (282, 22980), (286, 22989), (291, 23016), (296, 23034), (321, 23127), (324, 23139), (327, 23148), (355, 23238), (360, 23259), (368, 23277), (375, 23310), (385, 23337), (396, 23388), (406, 23424), (410, 23448), (421, 23484), (424, 23493), (426, 23508), (438, 23535), (447, 23565), (460, 23601), (464, 23619), (465, 23622), (471, 23631), (518, 23781), (525,

23820), (563, 23937), (570, 23964), (594, 24027), (597, 24033), (600, 24048), (612, 24090), (637, 24177), (644, 24204), (651, 24234), (660, 24252), (669, 24282), (673, 24294), (674, 24306), (704, 24414), (708, 24429), (719, 24462), (729, 24483), (747, 24549), (758, 24579), (761, 24585), (776, 24645), (779, 24663), (796, 24738), (800, 24759), (808, 24795), (813, 24909),

Gene: Estes_35 Start: 25339, Stop: 28020, Start Num: 26
Candidate Starts for Estes_35:
(Start: 26 @25339 has 7 MA's), (48, 25456), (67, 25522), (72, 25540), (73, 25543), (83, 25576), (105, 25633), (149, 25807), (151, 25810), (169, 25873), (184, 25939), (187, 25948), (201, 26011), (217, 26092), (218, 26098), (220, 26101), (232, 26134), (249, 26179), (280, 26263), (282, 26269), (284, 26272), (291, 26305), (303, 26347), (305, 26356), (308, 26362), (323, 26425), (324, 26428), (330, 26449), (339, 26482), (358, 26539), (366, 26560), (373, 26590), (377, 26602), (391, 26635), (396, 26665), (408, 26716), (412, 26737), (441, 26830), (449, 26854), (458, 26872), (460, 26878), (513, 27034), (529, 27100), (540, 27133), (542, 27136), (575, 27232), (579, 27241), (598, 27292), (603, 27310), (623, 27376), (633, 27412), (634, 27415), (720, 27709), (731, 27739), (752, 27808), (770, 27862), (782, 27916),

Gene: Ewald_29 Start: 24069, Stop: 26642, Start Num: 13
Candidate Starts for Ewald_29:
(Start: 13 @24069 has 4 MA's), (40, 24183), (42, 24192), (140, 24495), (158, 24537), (189, 24669), (218, 24804), (229, 24840), (248, 24891), (266, 24930), (274, 24966), (282, 24993), (289, 25017), (292, 25032), (303, 25074), (336, 25185), (337, 25188), (341, 25209), (345, 25218), (372, 25302), (378, 25332), (380, 25341), (394, 25392), (395, 25398), (404, 25434), (463, 25551), (472, 25566), (495, 25647), (515, 25701), (531, 25773), (537, 25791), (540, 25803), (550, 25818), (564, 25860), (567, 25878), (589, 25926), (610, 25986), (618, 26010), (637, 26076), (681, 26202), (718, 26313), (771, 26463), (784, 26526), (792, 26559), (807, 26631),

Gene: FarmResident_20 Start: 18971, Stop: 21502, Start Num: 56
Candidate Starts for FarmResident_20:
(Start: 31 @18866 has 6 MA's), (33, 18872), (37, 18893), (56, 18971), (98, 19091), (111, 19130), (157, 19292), (168, 19331), (169, 19337), (176, 19367), (184, 19403), (194, 19439), (206, 19499), (216, 19550), (218, 19562), (232, 19610), (242, 19646), (273, 19724), (285, 19760), (287, 19766), (300, 19829), (308, 19847), (312, 19859), (321, 19901), (334, 19949), (372, 20063), (377, 20087), (400, 20165), (407, 20198), (411, 20219), (412, 20222), (430, 20285), (449, 20339), (456, 20354), (497, 20468), (515, 20522), (519, 20537), (520, 20543), (548, 20639), (552, 20651), (561, 20672), (565, 20684), (566, 20696), (578, 20723), (581, 20732), (594, 20768), (597, 20774), (598, 20777), (628, 20882), (632, 20894), (636, 20906), (637, 20909), (654, 20972), (658, 20981), (672, 21017), (712, 21167), (714, 21173), (726, 21203), (731, 21221), (747, 21278), (754, 21299), (755, 21302), (759, 21311), (770, 21344), (782, 21398),

Gene: Faze9_32 Start: 30097, Stop: 32817, Start Num: 44
Candidate Starts for Faze9_32:
(Start: 44 @30097 has 36 MA's), (60, 30151), (74, 30190), (90, 30235), (99, 30259), (100, 30262), (113, 30295), (144, 30403), (154, 30424), (156, 30427), (175, 30481), (190, 30541), (195, 30565), (197, 30601), (207, 30649), (212, 30670), (219, 30709), (231, 30748), (237, 30763), (264, 30817), (267, 30829), (274, 30853), (281, 30877), (286, 30889), (290, 30904), (292, 30919), (303, 30961), (309, 30979), (318, 31018), (324, 31042), (375, 31213), (396, 31291), (410, 31351), (421, 31387), (422, 31390), (447, 31468), (460, 31504), (467, 31528), (477, 31549), (525, 31720), (526, 31726), (563, 31837), (570, 31864), (594, 31927), (597, 31933), (600, 31948), (612, 31990), (637, 32077), (644, 32104), (651, 32134), (660, 32152), (667, 32173), (669, 32182), (672, 32188), (673, 32194), (674, 32206), (703, 32311), (708, 32329), (719, 32362), (747, 32449), (758, 32479), (761, 32485), (776, 32545), (796, 32638), (798, 32653), (808, 32695), (813, 32809),

Gene: Feyre_25 Start: 21078, Stop: 23576, Start Num: 68
Candidate Starts for Feyre_25:
(Start: 68 @21078 has 25 MA's), (89, 21138), (94, 21147), (131, 21288), (153, 21357), (176, 21441), (211, 21594), (214, 21618), (223, 21645), (234, 21687), (241, 21714), (248, 21726), (250, 21729), (255, 21738), (260, 21747), (269, 21774), (276, 21807), (282, 21828), (292, 21867), (307, 21918), (325, 21996), (346, 22074), (352, 22095), (375, 22176), (385, 22212), (390, 22233), (396, 22263), (398, 22275), (442, 22434), (462, 22494), (465, 22503), (475, 22518), (481, 22539), (505, 22611), (509, 22626), (521, 22656), (522, 22659), (527, 22683), (532, 22698), (542, 22725), (558, 22773), (568, 22803), (569, 22806), (575, 22818), (580, 22830), (601, 22887), (611, 22908), (613, 22920), (627, 22968), (635, 22995), (662, 23073), (665, 23076), (682, 23151), (685, 23163), (698, 23205), (700, 23208), (706, 23220), (772, 23421), (776, 23445), (777, 23454), (781, 23469), (800, 23562), (801, 23565),

Gene: ForDig_26 Start: 27555, Stop: 30056, Start Num: 62
Candidate Starts for ForDig_26:
(Start: 62 @27555 has 2 MA's), (72, 27576), (82, 27612), (104, 27669), (133, 27789), (136, 27807), (161, 27879), (163, 27885), (177, 27939), (185, 27975), (226, 28158), (238, 28203), (254, 28242), (271, 28296), (284, 28344), (295, 28401), (304, 28437), (311, 28455), (322, 28503), (344, 28587), (354, 28623), (364, 28653), (374, 28689), (379, 28707), (438, 28914), (440, 28926), (445, 28935), (481, 29004), (482, 29010), (484, 29013), (488, 29022), (499, 29055), (511, 29097), (518, 29112), (537, 29193), (543, 29205), (550, 29223), (553, 29229), (555, 29244), (557, 29250), (589, 29331), (627, 29436), (648, 29508), (690, 29667), (788, 29988),

Gene: Foxboro_44 Start: 34114, Stop: 36480, Start Num: 66
Candidate Starts for Foxboro_44:
(Start: 66 @34114 has 26 MA's), (115, 34243), (206, 34582), (282, 34822), (292, 34861), (296, 34876), (319, 34960), (320, 34966), (369, 35104), (392, 35197), (398, 35233), (479, 35425), (484, 35449), (494, 35479), (498, 35488), (511, 35533), (564, 35701), (591, 35764), (607, 35809), (615, 35833), (670, 35998), (671, 36001), (678, 36034), (688, 36076), (704, 36127), (721, 36178), (724, 36184), (732, 36205), (735, 36214), (739, 36229), (753, 36274), (802, 36460),

Gene: FrenchFry_32 Start: 30091, Stop: 32811, Start Num: 44
Candidate Starts for FrenchFry_32:
(Start: 44 @30091 has 36 MA's), (60, 30145), (74, 30184), (90, 30229), (99, 30253), (100, 30256), (113, 30289), (144, 30397), (154, 30418), (156, 30421), (175, 30475), (190, 30535), (195, 30559), (197, 30595), (207, 30643), (212, 30664), (219, 30703), (231, 30742), (237, 30757), (264, 30811), (267, 30823), (274, 30847), (281, 30871), (286, 30883), (290, 30898), (292, 30913), (303, 30955), (309, 30973), (318, 31012), (324, 31036), (375, 31207), (396, 31285), (410, 31345), (421, 31381), (422, 31384), (447, 31462), (460, 31498), (467, 31522), (477, 31543), (525, 31714), (526, 31720), (563, 31831), (570, 31858), (594, 31921), (597, 31927), (600, 31942), (612, 31984), (637, 32071), (644, 32098), (651, 32128), (660, 32146), (667, 32167), (669, 32176), (672, 32182), (673, 32188), (674, 32200), (703, 32305), (708, 32323), (719, 32356), (747, 32443), (758, 32473), (761, 32479), (776, 32539), (796, 32632), (798, 32647), (808, 32689), (813, 32803),

Gene: GMA7_22 Start: 27899, Stop: 30667, Start Num: 12
Candidate Starts for GMA7_22:
(Start: 12 @27899 has 3 MA's), (18, 27983), (Start: 38 @28040 has 2 MA's), (97, 28226), (134, 28340), (153, 28412), (191, 28553), (211, 28640), (307, 28952), (395, 29300), (427, 29429), (452, 29504), (459, 29516), (470, 29543), (486, 29594), (514, 29678), (565, 29846), (572, 29873), (621, 30017), (673, 30170), (683, 30224), (688, 30239), (691, 30257), (692, 30260), (698, 30272), (716, 30329), (718, 30338), (734, 30380), (745, 30425), (751, 30440), (792, 30593),

Gene: GRU1_33 Start: 25851, Stop: 28217, Start Num: 66

Candidate Starts for GRU1_33:
(Start: 66 @25851 has 26 MA's), (91, 25920), (206, 26319), (207, 26322), (218, 26379), (229, 26415), (235, 26430), (239, 26451), (248, 26466), (274, 26532), (280, 26553), (282, 26559), (292, 26598), (389, 26928), (398, 26970), (443, 27102), (494, 27216), (511, 27270), (542, 27375), (607, 27546), (615, 27570), (618, 27579), (650, 27687), (688, 27807), (721, 27906), (724, 27912), (732, 27933), (735, 27942), (739, 27957), (804, 28203),

Gene: GTE7_22 Start: 27930, Stop: 30698, Start Num: 12
Candidate Starts for GTE7_22:
(Start: 12 @27930 has 3 MA's), (18, 28014), (Start: 38 @28071 has 2 MA's), (97, 28257), (134, 28371), (153, 28443), (191, 28584), (211, 28671), (307, 28983), (363, 29211), (395, 29331), (427, 29460), (452, 29535), (459, 29547), (470, 29574), (486, 29625), (514, 29709), (565, 29877), (572, 29904), (600, 29979), (604, 29988), (621, 30048), (673, 30201), (683, 30255), (688, 30270), (691, 30288), (692, 30291), (698, 30303), (716, 30360), (718, 30369), (734, 30411), (745, 30456), (751, 30471), (792, 30624),

Gene: GTE8_32 Start: 26866, Stop: 29232, Start Num: 67
Candidate Starts for GTE8_32:
(67, 26866), (158, 27130), (206, 27331), (207, 27334), (218, 27391), (234, 27439), (239, 27463), (292, 27610), (296, 27625), (320, 27715), (376, 27886), (484, 28198), (494, 28228), (511, 28282), (607, 28558), (615, 28582), (618, 28591), (650, 28699), (670, 28750), (688, 28819), (724, 28927), (735, 28957), (739, 28972), (760, 29032), (804, 29218),

Gene: Ganymede_28 Start: 20892, Stop: 23324, Start Num: 61
Candidate Starts for Ganymede_28:
(Start: 61 @20892 has 98 MA's), (95, 20991), (173, 21252), (178, 21273), (226, 21480), (235, 21513), (243, 21543), (274, 21615), (280, 21639), (292, 21684), (333, 21837), (345, 21882), (348, 21894), (351, 21903), (370, 21954), (416, 22134), (421, 22149), (443, 22218), (450, 22230), (482, 22293), (498, 22335), (511, 22374), (515, 22380), (518, 22389), (522, 22410), (538, 22470), (583, 22587), (599, 22629), (621, 22701), (625, 22710), (630, 22731), (650, 22803), (659, 22824), (686, 22920), (705, 22983), (734, 23067), (744, 23109), (760, 23148),

Gene: GardenSalsa_34 Start: 25163, Stop: 27844, Start Num: 26
Candidate Starts for GardenSalsa_34:
(Start: 26 @25163 has 7 MA's), (48, 25280), (63, 25334), (73, 25367), (83, 25400), (105, 25457), (149, 25631), (151, 25634), (169, 25697), (184, 25763), (187, 25772), (201, 25835), (217, 25916), (218, 25922), (220, 25925), (232, 25958), (247, 26000), (249, 26003), (280, 26087), (282, 26093), (284, 26096), (291, 26129), (303, 26171), (305, 26180), (308, 26186), (323, 26249), (324, 26252), (330, 26273), (339, 26306), (366, 26384), (377, 26426), (391, 26459), (396, 26489), (408, 26540), (412, 26561), (441, 26654), (449, 26678), (458, 26696), (460, 26702), (513, 26858), (529, 26924), (540, 26957), (542, 26960), (575, 27056), (579, 27065), (581, 27071), (594, 27107), (598, 27116), (603, 27134), (612, 27167), (623, 27200), (633, 27236), (634, 27239), (720, 27533), (752, 27632), (770, 27686), (782, 27740),

Gene: GenevaB15_34 Start: 25208, Stop: 27889, Start Num: 26
Candidate Starts for GenevaB15_34:
(Start: 26 @25208 has 7 MA's), (48, 25325), (72, 25409), (73, 25412), (83, 25445), (105, 25502), (149, 25676), (151, 25679), (160, 25709), (169, 25742), (184, 25808), (187, 25817), (201, 25880), (217, 25961), (218, 25967), (220, 25970), (232, 26003), (247, 26045), (249, 26048), (274, 26111), (280, 26132), (282, 26138), (284, 26141), (291, 26174), (303, 26216), (305, 26225), (323, 26294), (324, 26297), (330, 26318), (339, 26351), (366, 26429), (373, 26459), (377, 26471), (391, 26504), (396, 26534), (407, 26582), (412, 26606), (441, 26699), (449, 26723), (458, 26741), (460, 26747), (513, 26903), (520, 26927), (529, 26969), (542, 27005), (579, 27110), (598, 27161), (623, 27245), (633,

27281), (634, 27284), (720, 27578), (731, 27608), (770, 27731), (782, 27785),

Gene: Gengar_25 Start: 21185, Stop: 23683, Start Num: 68
Candidate Starts for Gengar_25:
(Start: 68 @21185 has 25 MA's), (89, 21245), (94, 21254), (131, 21395), (153, 21464), (176, 21548), (211, 21701), (214, 21725), (223, 21752), (234, 21794), (241, 21821), (248, 21833), (250, 21836), (255, 21845), (260, 21854), (269, 21881), (276, 21914), (282, 21935), (292, 21974), (307, 22025), (325, 22103), (346, 22181), (352, 22202), (367, 22247), (375, 22283), (385, 22319), (390, 22340), (396, 22370), (398, 22382), (442, 22541), (462, 22601), (465, 22610), (475, 22625), (481, 22646), (505, 22718), (509, 22733), (521, 22763), (522, 22766), (527, 22790), (532, 22805), (542, 22832), (558, 22880), (568, 22910), (569, 22913), (575, 22925), (580, 22937), (601, 22994), (611, 23015), (613, 23027), (627, 23075), (635, 23102), (662, 23180), (665, 23183), (682, 23258), (685, 23270), (698, 23312), (700, 23315), (706, 23327), (772, 23528), (776, 23552), (777, 23561), (781, 23576), (800, 23669), (801, 23672),

Gene: Geraldini_27 Start: 20888, Stop: 23320, Start Num: 61
Candidate Starts for Geraldini_27:
(Start: 61 @20888 has 98 MA's), (95, 20987), (133, 21128), (173, 21248), (178, 21269), (226, 21476), (235, 21509), (243, 21539), (274, 21611), (280, 21635), (333, 21833), (345, 21878), (348, 21890), (351, 21899), (370, 21950), (416, 22130), (421, 22145), (443, 22214), (450, 22226), (482, 22289), (498, 22331), (511, 22370), (515, 22376), (518, 22385), (522, 22406), (538, 22466), (583, 22583), (599, 22625), (621, 22697), (625, 22706), (630, 22727), (650, 22799), (659, 22820), (686, 22916), (705, 22979), (734, 23063), (744, 23105), (760, 23144),

Gene: Glass_32 Start: 30091, Stop: 32811, Start Num: 44
Candidate Starts for Glass_32:
(Start: 44 @30091 has 36 MA's), (60, 30145), (74, 30184), (90, 30229), (99, 30253), (100, 30256), (113, 30289), (144, 30397), (154, 30418), (156, 30421), (175, 30475), (190, 30535), (195, 30559), (197, 30595), (207, 30643), (212, 30664), (219, 30703), (231, 30742), (237, 30757), (264, 30811), (267, 30823), (274, 30847), (281, 30871), (286, 30883), (290, 30898), (292, 30913), (303, 30955), (309, 30973), (318, 31012), (324, 31036), (375, 31207), (396, 31285), (410, 31345), (421, 31381), (422, 31384), (447, 31462), (460, 31498), (467, 31522), (500, 31621), (511, 31660), (525, 31714), (563, 31831), (570, 31858), (594, 31921), (597, 31927), (600, 31942), (612, 31984), (637, 32071), (651, 32128), (660, 32146), (667, 32167), (669, 32176), (672, 32182), (673, 32188), (674, 32200), (703, 32305), (708, 32323), (719, 32356), (747, 32443), (758, 32473), (761, 32479), (776, 32539), (796, 32632), (798, 32647), (808, 32689), (813, 32803),

Gene: GodPhather_25 Start: 27493, Stop: 30207, Start Num: 45
Candidate Starts for GodPhather_25:
(Start: 45 @27493 has 4 MA's), (65, 27562), (79, 27595), (87, 27616), (110, 27673), (123, 27703), (128, 27721), (154, 27814), (156, 27817), (175, 27871), (195, 27955), (197, 27991), (202, 28009), (203, 28012), (212, 28060), (219, 28099), (237, 28153), (264, 28207), (267, 28219), (274, 28243), (281, 28267), (286, 28279), (290, 28294), (303, 28351), (311, 28375), (324, 28432), (338, 28477), (360, 28552), (375, 28603), (393, 28660), (396, 28681), (410, 28741), (421, 28777), (422, 28780), (447, 28858), (460, 28894), (471, 28924), (477, 28939), (507, 29047), (522, 29095), (523, 29101), (525, 29110), (526, 29116), (549, 29185), (563, 29227), (570, 29254), (594, 29317), (597, 29323), (600, 29338), (604, 29347), (612, 29380), (644, 29494), (651, 29524), (660, 29542), (667, 29563), (669, 29572), (672, 29578), (673, 29584), (674, 29596), (703, 29701), (708, 29719), (719, 29752), (729, 29773), (747, 29839), (758, 29869), (761, 29875), (776, 29935), (779, 29953), (796, 30028), (800, 30049), (808, 30085), (813, 30199),

Gene: Godines_32 Start: 29971, Stop: 32691, Start Num: 44
Candidate Starts for Godines_32:

(Start: 44 @29971 has 36 MA's), (60, 30025), (74, 30064), (79, 30082), (90, 30109), (99, 30133), (100, 30136), (113, 30169), (144, 30277), (154, 30298), (156, 30301), (175, 30355), (190, 30415), (195, 30439), (197, 30475), (207, 30523), (212, 30544), (219, 30583), (231, 30622), (237, 30637), (264, 30691), (267, 30703), (274, 30727), (281, 30751), (286, 30763), (290, 30778), (292, 30793), (303, 30835), (309, 30853), (318, 30892), (324, 30916), (375, 31087), (396, 31165), (410, 31225), (421, 31261), (422, 31264), (447, 31342), (460, 31378), (467, 31402), (477, 31423), (525, 31594), (526, 31600), (563, 31711), (570, 31738), (594, 31801), (597, 31807), (600, 31822), (612, 31864), (637, 31951), (644, 31978), (651, 32008), (660, 32026), (667, 32047), (669, 32056), (672, 32062), (673, 32068), (674, 32080), (703, 32185), (708, 32203), (719, 32236), (747, 32323), (758, 32353), (761, 32359), (776, 32419), (796, 32512), (798, 32527), (808, 32569), (813, 32683),

Gene: GrootJr_45 Start: 32990, Stop: 35356, Start Num: 66
Candidate Starts for GrootJr_45:
(Start: 66 @32990 has 26 MA's), (115, 33119), (206, 33458), (207, 33461), (282, 33698), (292, 33737), (296, 33752), (319, 33836), (320, 33842), (369, 33980), (392, 34073), (398, 34109), (479, 34301), (484, 34325), (494, 34355), (498, 34364), (511, 34409), (564, 34577), (591, 34640), (607, 34685), (615, 34709), (670, 34874), (671, 34877), (678, 34910), (688, 34952), (704, 35003), (721, 35054), (724, 35060), (732, 35081), (735, 35090), (739, 35105), (753, 35150), (802, 35336),

Gene: Guanica15_27 Start: 20098, Stop: 22530, Start Num: 61
Candidate Starts for Guanica15_27:
(Start: 61 @20098 has 98 MA's), (76, 20146), (77, 20149), (80, 20158), (173, 20458), (178, 20479), (235, 20719), (274, 20821), (280, 20845), (282, 20851), (292, 20890), (333, 21043), (348, 21100), (351, 21109), (370, 21160), (418, 21346), (421, 21355), (423, 21361), (438, 21406), (443, 21424), (482, 21499), (498, 21541), (511, 21580), (515, 21586), (518, 21595), (522, 21616), (535, 21664), (553, 21709), (555, 21724), (583, 21793), (599, 21835), (625, 21916), (650, 22009), (659, 22030), (686, 22126), (760, 22354), (775, 22408), (780, 22429), (796, 22501), (799, 22519),

Gene: Guillsminger_25 Start: 21160, Stop: 23658, Start Num: 68
Candidate Starts for Guillsminger_25:
(Start: 68 @21160 has 25 MA's), (89, 21220), (94, 21229), (131, 21370), (153, 21439), (176, 21523), (211, 21676), (214, 21700), (223, 21727), (234, 21769), (241, 21796), (248, 21808), (250, 21811), (255, 21820), (260, 21829), (269, 21856), (276, 21889), (282, 21910), (292, 21949), (307, 22000), (325, 22078), (346, 22156), (361, 22213), (367, 22222), (375, 22258), (383, 22291), (385, 22294), (390, 22315), (396, 22345), (398, 22357), (442, 22516), (462, 22576), (465, 22585), (475, 22600), (481, 22621), (505, 22693), (509, 22708), (521, 22738), (522, 22741), (527, 22765), (532, 22780), (542, 22807), (558, 22855), (568, 22885), (569, 22888), (575, 22900), (580, 22912), (601, 22969), (611, 22990), (613, 23002), (627, 23050), (635, 23077), (662, 23155), (665, 23158), (682, 23233), (685, 23245), (698, 23287), (700, 23290), (706, 23302), (772, 23503), (776, 23527), (777, 23536), (781, 23551), (800, 23644), (801, 23647),

Gene: Halena_20 Start: 19008, Stop: 21689, Start Num: 50
Candidate Starts for Halena_20:
(Start: 50 @19008 has 19 MA's), (51, 19014), (112, 19191), (127, 19221), (137, 19284), (165, 19359), (181, 19413), (193, 19473), (195, 19479), (207, 19545), (222, 19608), (230, 19641), (231, 19644), (241, 19668), (255, 19692), (258, 19698), (263, 19704), (277, 19752), (283, 19773), (288, 19788), (293, 19809), (302, 19848), (306, 19860), (313, 19878), (333, 19953), (343, 19983), (351, 20007), (353, 20010), (367, 20055), (382, 20106), (386, 20124), (398, 20178), (417, 20250), (421, 20262), (424, 20271), (438, 20313), (447, 20343), (460, 20379), (464, 20397), (473, 20412), (476, 20418), (483, 20451), (523, 20580), (525, 20589), (550, 20670), (563, 20706), (565, 20712), (600, 20817), (604, 20826), (608, 20841), (612, 20859), (625, 20901), (649, 20997), (651, 21003), (672, 21057), (673, 21063), (674, 21075), (705, 21186), (714, 21216), (716, 21222), (729, 21252), (747, 21318), (748, 21324), (758, 21348), (761, 21354), (763, 21360), (774, 21405), (776, 21414), (777, 21423),

(787, 21462), (793, 21498), (796, 21507), (798, 21522), (809, 21618), (811, 21669), (812, 21675),

Gene: HayZem_31 Start: 33682, Stop: 36450, Start Num: 12
Candidate Starts for HayZem_31:
(Start: 12 @33682 has 3 MA's), (18, 33766), (Start: 38 @33823 has 2 MA's), (97, 34009), (134, 34123), (153, 34195), (191, 34336), (211, 34423), (307, 34735), (363, 34963), (395, 35083), (427, 35212), (452, 35287), (459, 35299), (470, 35326), (486, 35377), (514, 35461), (565, 35629), (572, 35656), (621, 35800), (673, 35953), (683, 36007), (688, 36022), (691, 36040), (692, 36043), (698, 36055), (716, 36112), (718, 36121), (734, 36163), (745, 36208), (751, 36223), (792, 36376),

Gene: Hedgerow_32 Start: 30073, Stop: 32793, Start Num: 44
Candidate Starts for Hedgerow_32:
(Start: 44 @30073 has 36 MA's), (60, 30127), (74, 30166), (90, 30211), (99, 30235), (100, 30238), (113, 30271), (144, 30379), (154, 30400), (156, 30403), (175, 30457), (190, 30517), (195, 30541), (197, 30577), (207, 30625), (212, 30646), (219, 30685), (231, 30724), (237, 30739), (264, 30793), (267, 30805), (274, 30829), (281, 30853), (286, 30865), (290, 30880), (292, 30895), (303, 30937), (309, 30955), (318, 30994), (324, 31018), (375, 31189), (396, 31267), (410, 31327), (421, 31363), (422, 31366), (447, 31444), (460, 31480), (467, 31504), (477, 31525), (525, 31696), (526, 31702), (563, 31813), (570, 31840), (594, 31903), (597, 31909), (600, 31924), (612, 31966), (637, 32053), (644, 32080), (651, 32110), (660, 32128), (667, 32149), (669, 32158), (672, 32164), (673, 32170), (674, 32182), (703, 32287), (708, 32305), (719, 32338), (747, 32425), (758, 32455), (761, 32461), (776, 32521), (796, 32614), (798, 32629), (808, 32671), (813, 32785),

Gene: HedwigODU_27 Start: 20881, Stop: 23313, Start Num: 61
Candidate Starts for HedwigODU_27:
(Start: 61 @20881 has 98 MA's), (95, 20980), (173, 21241), (178, 21262), (226, 21469), (235, 21502), (243, 21532), (274, 21604), (280, 21628), (292, 21673), (333, 21826), (345, 21871), (348, 21883), (351, 21892), (370, 21943), (416, 22123), (421, 22138), (443, 22207), (450, 22219), (498, 22324), (511, 22363), (515, 22369), (518, 22378), (538, 22459), (555, 22507), (586, 22582), (599, 22618), (625, 22699), (630, 22720), (659, 22813), (686, 22909), (734, 23056), (744, 23098), (760, 23137), (780, 23212),

Gene: Heftyboy_25 Start: 21308, Stop: 23806, Start Num: 68
Candidate Starts for Heftyboy_25:
(Start: 68 @21308 has 25 MA's), (89, 21368), (94, 21377), (131, 21518), (153, 21587), (176, 21671), (211, 21824), (214, 21848), (223, 21875), (234, 21917), (241, 21944), (248, 21956), (250, 21959), (255, 21968), (260, 21977), (269, 22004), (276, 22037), (292, 22097), (307, 22148), (325, 22226), (346, 22304), (352, 22325), (367, 22370), (375, 22406), (385, 22442), (390, 22463), (396, 22493), (398, 22505), (442, 22664), (462, 22724), (465, 22733), (475, 22748), (481, 22769), (505, 22841), (509, 22856), (521, 22886), (522, 22889), (527, 22913), (532, 22928), (542, 22955), (558, 23003), (568, 23033), (569, 23036), (575, 23048), (580, 23060), (601, 23117), (611, 23138), (613, 23150), (627, 23198), (635, 23225), (662, 23303), (665, 23306), (682, 23381), (685, 23393), (698, 23435), (700, 23438), (706, 23450), (772, 23651), (776, 23675), (777, 23684), (781, 23699), (800, 23792), (801, 23795),

Gene: Holeinone_32 Start: 29953, Stop: 32673, Start Num: 44
Candidate Starts for Holeinone_32:
(Start: 44 @29953 has 36 MA's), (60, 30007), (74, 30046), (90, 30091), (99, 30115), (100, 30118), (113, 30151), (144, 30259), (154, 30280), (156, 30283), (175, 30337), (190, 30397), (195, 30421), (197, 30457), (207, 30505), (212, 30526), (219, 30565), (231, 30604), (237, 30619), (264, 30673), (267, 30685), (274, 30709), (281, 30733), (286, 30745), (290, 30760), (292, 30775), (303, 30817), (309, 30835), (318, 30874), (324, 30898), (375, 31069), (396, 31147), (410, 31207), (421, 31243), (422, 31246), (447, 31324), (460, 31360), (467, 31384), (477, 31405), (525, 31576), (526, 31582),

(563, 31693), (570, 31720), (594, 31783), (597, 31789), (600, 31804), (612, 31846), (651, 31990), (660, 32008), (667, 32029), (669, 32038), (672, 32044), (673, 32050), (674, 32062), (703, 32167), (708, 32185), (719, 32218), (727, 32233), (747, 32305), (758, 32335), (761, 32341), (776, 32401), (796, 32494), (798, 32509), (808, 32551), (810, 32653), (813, 32665),

Gene: Homura_27 Start: 20912, Stop: 23344, Start Num: 61
Candidate Starts for Homura_27:
(Start: 61 @20912 has 98 MA's), (95, 21011), (173, 21272), (178, 21293), (226, 21500), (235, 21533), (243, 21563), (274, 21635), (280, 21659), (333, 21857), (345, 21902), (348, 21914), (351, 21923), (370, 21974), (416, 22154), (421, 22169), (443, 22238), (450, 22250), (482, 22313), (498, 22355), (511, 22394), (515, 22400), (518, 22409), (522, 22430), (538, 22490), (583, 22607), (599, 22649), (621, 22721), (625, 22730), (630, 22751), (650, 22823), (659, 22844), (686, 22940), (734, 23087), (760, 23168), (796, 23315),

Gene: Hosp_024 Start: 25768, Stop: 28263, Start Num: 62
Candidate Starts for Hosp_024:
(Start: 62 @25768 has 2 MA's), (82, 25825), (104, 25882), (133, 26002), (136, 26020), (161, 26092), (163, 26098), (177, 26152), (185, 26188), (226, 26371), (238, 26416), (254, 26455), (271, 26509), (284, 26557), (290, 26587), (295, 26614), (304, 26650), (311, 26668), (316, 26692), (322, 26716), (344, 26800), (354, 26836), (364, 26866), (374, 26902), (379, 26920), (438, 27127), (440, 27139), (445, 27148), (482, 27223), (484, 27226), (488, 27235), (498, 27265), (499, 27268), (511, 27310), (518, 27325), (537, 27406), (543, 27418), (553, 27442), (555, 27457), (557, 27463), (589, 27544), (622, 27634), (627, 27649), (686, 27859), (690, 27880), (697, 27898), (788, 28195),

Gene: HubbaBubba_41 Start: 29354, Stop: 31720, Start Num: 66
Candidate Starts for HubbaBubba_41:
(Start: 66 @29354 has 26 MA's), (161, 29633), (206, 29822), (207, 29825), (208, 29828), (218, 29882), (232, 29924), (235, 29933), (252, 29975), (274, 30035), (282, 30062), (311, 30164), (319, 30200), (347, 30284), (373, 30368), (389, 30431), (398, 30473), (403, 30482), (427, 30557), (494, 30719), (498, 30728), (527, 30833), (542, 30878), (607, 31049), (615, 31073), (618, 31082), (625, 31106), (688, 31307), (721, 31406), (724, 31412), (735, 31442), (739, 31457), (783, 31604), (804, 31703),

Gene: Hyperbowlee_27 Start: 20912, Stop: 23344, Start Num: 61
Candidate Starts for Hyperbowlee_27:
(Start: 61 @20912 has 98 MA's), (95, 21011), (173, 21272), (178, 21293), (226, 21500), (235, 21533), (243, 21563), (274, 21635), (280, 21659), (333, 21857), (345, 21902), (348, 21914), (351, 21923), (370, 21974), (416, 22154), (421, 22169), (443, 22238), (450, 22250), (482, 22313), (498, 22355), (511, 22394), (515, 22400), (518, 22409), (522, 22430), (538, 22490), (583, 22607), (599, 22649), (621, 22721), (625, 22730), (630, 22751), (650, 22823), (659, 22844), (686, 22940), (734, 23087), (760, 23168), (796, 23315),

Gene: IDyn_44 Start: 30750, Stop: 33152, Start Num: 66
Candidate Starts for IDyn_44:
(Start: 66 @30750 has 26 MA's), (167, 31053), (189, 31143), (206, 31218), (232, 31320), (235, 31329), (250, 31368), (274, 31431), (282, 31458), (285, 31464), (296, 31512), (320, 31602), (389, 31827), (398, 31869), (438, 31983), (443, 32001), (464, 32028), (487, 32091), (492, 32112), (494, 32115), (522, 32205), (542, 32274), (589, 32397), (591, 32400), (615, 32472), (631, 32529), (639, 32556), (689, 32721), (697, 32742), (705, 32766), (722, 32817), (735, 32850), (739, 32865), (743, 32877), (764, 32934),

Gene: Illumine_27 Start: 20895, Stop: 23327, Start Num: 61
Candidate Starts for Illumine_27:

(Start: 61 @20895 has 98 MA's), (76, 20943), (95, 20994), (173, 21255), (178, 21276), (226, 21483), (235, 21516), (243, 21546), (274, 21618), (280, 21642), (292, 21687), (333, 21840), (348, 21897), (351, 21906), (362, 21942), (370, 21957), (416, 22137), (421, 22152), (443, 22221), (450, 22233), (482, 22296), (498, 22338), (511, 22377), (515, 22383), (518, 22392), (522, 22413), (538, 22473), (555, 22521), (575, 22578), (583, 22590), (599, 22632), (621, 22704), (625, 22713), (650, 22806), (659, 22827), (686, 22923), (702, 22977), (734, 23070), (760, 23151), (796, 23298),

Gene: Inky_27 Start: 20912, Stop: 23344, Start Num: 61
Candidate Starts for Inky_27:
(Start: 61 @20912 has 98 MA's), (95, 21011), (173, 21272), (178, 21293), (226, 21500), (235, 21533), (243, 21563), (274, 21635), (280, 21659), (333, 21857), (345, 21902), (348, 21914), (351, 21923), (370, 21974), (416, 22154), (421, 22169), (443, 22238), (450, 22250), (482, 22313), (498, 22355), (511, 22394), (515, 22400), (518, 22409), (522, 22430), (538, 22490), (583, 22607), (599, 22649), (621, 22721), (625, 22730), (630, 22751), (650, 22823), (659, 22844), (686, 22940), (734, 23087), (760, 23168), (796, 23315),

Gene: InvictusManeo_25 Start: 21260, Stop: 23770, Start Num: 68
Candidate Starts for InvictusManeo_25:
(Start: 68 @21260 has 25 MA's), (85, 21308), (89, 21320), (94, 21329), (153, 21539), (176, 21623), (211, 21776), (214, 21800), (224, 21830), (250, 21911), (255, 21920), (260, 21929), (269, 21956), (274, 21977), (282, 22010), (287, 22022), (292, 22049), (294, 22055), (307, 22100), (325, 22178), (346, 22256), (352, 22277), (367, 22322), (375, 22358), (385, 22394), (390, 22415), (396, 22445), (398, 22457), (429, 22577), (451, 22640), (460, 22664), (481, 22721), (501, 22778), (505, 22793), (512, 22814), (523, 22853), (568, 22994), (601, 23081), (624, 23147), (635, 23183), (647, 23216), (650, 23237), (666, 23273), (683, 23348), (685, 23351), (690, 23375), (702, 23408), (710, 23435), (717, 23456), (726, 23474), (741, 23528), (800, 23756),

Gene: ItsyBitsy1_32 Start: 29955, Stop: 32675, Start Num: 44
Candidate Starts for ItsyBitsy1_32:
(Start: 44 @29955 has 36 MA's), (60, 30009), (74, 30048), (90, 30093), (99, 30117), (100, 30120), (113, 30153), (144, 30261), (154, 30282), (156, 30285), (175, 30339), (190, 30399), (195, 30423), (197, 30459), (207, 30507), (212, 30528), (219, 30567), (237, 30621), (264, 30675), (267, 30687), (274, 30711), (281, 30735), (286, 30747), (290, 30762), (292, 30777), (303, 30819), (309, 30837), (318, 30876), (324, 30900), (375, 31071), (396, 31149), (410, 31209), (421, 31245), (422, 31248), (447, 31326), (460, 31362), (467, 31386), (477, 31407), (525, 31578), (563, 31695), (570, 31722), (594, 31785), (597, 31791), (600, 31806), (612, 31848), (637, 31935), (644, 31962), (651, 31992), (660, 32010), (667, 32031), (669, 32040), (672, 32046), (673, 32052), (674, 32064), (703, 32169), (708, 32187), (719, 32220), (747, 32307), (758, 32337), (761, 32343), (776, 32403), (796, 32496), (798, 32511), (808, 32553), (813, 32667),

Gene: JAWS_27 Start: 20866, Stop: 23298, Start Num: 61
Candidate Starts for JAWS_27:
(Start: 61 @20866 has 98 MA's), (95, 20965), (173, 21226), (178, 21247), (226, 21454), (235, 21487), (243, 21517), (274, 21589), (280, 21613), (333, 21811), (345, 21856), (348, 21868), (351, 21877), (370, 21928), (416, 22108), (421, 22123), (443, 22192), (450, 22204), (482, 22267), (498, 22309), (511, 22348), (515, 22354), (518, 22363), (522, 22384), (538, 22444), (583, 22561), (599, 22603), (621, 22675), (625, 22684), (630, 22705), (650, 22777), (659, 22798), (686, 22894), (734, 23041), (760, 23122), (796, 23269),

Gene: Jarvi_27 Start: 20912, Stop: 23344, Start Num: 61
Candidate Starts for Jarvi_27:
(Start: 61 @20912 has 98 MA's), (95, 21011), (173, 21272), (178, 21293), (226, 21500), (235, 21533), (243, 21563), (274, 21635), (280, 21659), (333, 21857), (345, 21902), (348, 21914), (351, 21923),

(370, 21974), (416, 22154), (421, 22169), (443, 22238), (450, 22250), (482, 22313), (498, 22355), (511, 22394), (515, 22400), (518, 22409), (522, 22430), (538, 22490), (583, 22607), (599, 22649), (621, 22721), (625, 22730), (630, 22751), (650, 22823), (659, 22844), (686, 22940), (734, 23087), (760, 23168), (796, 23315),

Gene: Jayhawk_27 Start: 20879, Stop: 23311, Start Num: 61
Candidate Starts for Jayhawk_27:
(Start: 61 @20879 has 98 MA's), (95, 20978), (173, 21239), (178, 21260), (226, 21467), (235, 21500), (243, 21530), (274, 21602), (280, 21626), (292, 21671), (333, 21824), (345, 21869), (348, 21881), (351, 21890), (370, 21941), (416, 22121), (421, 22136), (443, 22205), (450, 22217), (498, 22322), (511, 22361), (515, 22367), (518, 22376), (538, 22457), (555, 22505), (586, 22580), (599, 22616), (625, 22697), (630, 22718), (659, 22811), (686, 22907), (734, 23054), (744, 23096), (760, 23135), (780, 23210),

Gene: Jeckyll_27 Start: 20912, Stop: 23344, Start Num: 61
Candidate Starts for Jeckyll_27:
(Start: 61 @20912 has 98 MA's), (95, 21011), (173, 21272), (178, 21293), (226, 21500), (235, 21533), (243, 21563), (274, 21635), (280, 21659), (333, 21857), (345, 21902), (348, 21914), (351, 21923), (370, 21974), (416, 22154), (421, 22169), (443, 22238), (450, 22250), (482, 22313), (498, 22355), (511, 22394), (515, 22400), (518, 22409), (522, 22430), (538, 22490), (583, 22607), (599, 22649), (621, 22721), (625, 22730), (630, 22751), (650, 22823), (659, 22844), (686, 22940), (734, 23087), (760, 23168), (796, 23315),

Gene: Jennelsea_18 Start: 17353, Stop: 20217, Start Num: 17
Candidate Starts for Jennelsea_18:
(15, 17341), (Start: 17 @17353 has 10 MA's), (25, 17374), (30, 17395), (37, 17434), (52, 17503), (56, 17512), (58, 17515), (75, 17566), (106, 17656), (122, 17701), (140, 17791), (143, 17800), (145, 17803), (153, 17824), (159, 17836), (170, 17869), (198, 18004), (209, 18052), (212, 18067), (215, 18088), (228, 18130), (231, 18145), (236, 18154), (244, 18181), (248, 18187), (268, 18232), (271, 18241), (274, 18256), (278, 18268), (280, 18277), (282, 18283), (286, 18292), (291, 18319), (296, 18337), (321, 18430), (327, 18451), (333, 18475), (355, 18541), (360, 18562), (368, 18580), (375, 18613), (383, 18637), (385, 18640), (396, 18691), (406, 18727), (410, 18751), (421, 18787), (424, 18796), (426, 18811), (438, 18838), (447, 18868), (460, 18904), (467, 18928), (500, 19027), (511, 19066), (525, 19120), (563, 19237), (570, 19264), (594, 19327), (597, 19333), (600, 19348), (612, 19390), (637, 19477), (644, 19504), (651, 19534), (660, 19552), (669, 19582), (673, 19594), (674, 19606), (703, 19711), (708, 19729), (719, 19762), (747, 19849), (758, 19879), (761, 19885), (776, 19945), (777, 19954), (779, 19963), (796, 20038), (800, 20059), (808, 20095), (813, 20209),

Gene: Jeon_24 Start: 27235, Stop: 29949, Start Num: 45
Candidate Starts for Jeon_24:
(Start: 45 @27235 has 4 MA's), (65, 27304), (79, 27337), (87, 27358), (110, 27415), (123, 27445), (128, 27463), (154, 27556), (156, 27559), (175, 27613), (195, 27697), (197, 27733), (202, 27751), (203, 27754), (212, 27802), (219, 27841), (237, 27895), (264, 27949), (267, 27961), (274, 27985), (281, 28009), (286, 28021), (290, 28036), (303, 28093), (311, 28117), (324, 28174), (329, 28189), (338, 28219), (360, 28294), (375, 28345), (393, 28402), (396, 28423), (410, 28483), (421, 28519), (422, 28522), (447, 28600), (460, 28636), (471, 28666), (477, 28681), (507, 28789), (522, 28837), (523, 28843), (525, 28852), (526, 28858), (549, 28927), (563, 28969), (570, 28996), (594, 29059), (597, 29065), (600, 29080), (604, 29089), (612, 29122), (644, 29236), (651, 29266), (660, 29284), (669, 29314), (672, 29320), (673, 29326), (674, 29338), (703, 29443), (708, 29461), (719, 29494), (729, 29515), (747, 29581), (758, 29611), (761, 29617), (776, 29677), (779, 29695), (796, 29770), (808, 29827), (813, 29941),

Gene: Jifall16_42 Start: 33262, Stop: 35628, Start Num: 66

Candidate Starts for Jifall16_42:
(Start: 66 @33262 has 26 MA's), (79, 33304), (115, 33391), (206, 33730), (282, 33970), (292, 34009), (296, 34024), (319, 34108), (320, 34114), (369, 34252), (392, 34345), (398, 34381), (479, 34573), (484, 34597), (494, 34627), (498, 34636), (511, 34681), (564, 34849), (591, 34912), (607, 34957), (615, 34981), (670, 35146), (671, 35149), (678, 35182), (688, 35224), (704, 35275), (721, 35326), (724, 35332), (732, 35353), (735, 35362), (739, 35377), (753, 35422), (802, 35608),

Gene: JoeDirt_20 Start: 18979, Stop: 21660, Start Num: 50
Candidate Starts for JoeDirt_20:
(Start: 50 @18979 has 19 MA's), (51, 18985), (112, 19162), (127, 19192), (137, 19255), (165, 19330), (193, 19444), (195, 19450), (207, 19516), (222, 19579), (230, 19612), (231, 19615), (241, 19639), (255, 19663), (258, 19669), (263, 19675), (277, 19723), (283, 19744), (288, 19759), (293, 19780), (302, 19819), (306, 19831), (313, 19849), (333, 19924), (343, 19954), (351, 19978), (353, 19981), (367, 20026), (382, 20077), (386, 20095), (398, 20149), (417, 20221), (421, 20233), (424, 20242), (428, 20260), (438, 20284), (447, 20314), (460, 20350), (473, 20383), (476, 20389), (492, 20455), (516, 20521), (525, 20560), (550, 20641), (563, 20677), (565, 20683), (600, 20788), (604, 20797), (608, 20812), (612, 20830), (625, 20872), (649, 20968), (651, 20974), (672, 21028), (673, 21034), (674, 21046), (705, 21157), (714, 21187), (716, 21193), (747, 21289), (748, 21295), (758, 21319), (761, 21325), (763, 21331), (774, 21376), (776, 21385), (777, 21394), (787, 21433), (793, 21469), (796, 21478), (798, 21493), (809, 21589), (811, 21640), (812, 21646),

Gene: JohnLord_29 Start: 26190, Stop: 28943, Start Num: 43
Candidate Starts for JohnLord_29:
(22, 26097), (Start: 43 @26190 has 3 MA's), (Start: 66 @26268 has 26 MA's), (79, 26304), (90, 26331), (99, 26355), (127, 26424), (132, 26460), (139, 26493), (144, 26505), (156, 26529), (186, 26643), (197, 26721), (205, 26763), (209, 26775), (212, 26790), (219, 26826), (233, 26868), (256, 26922), (274, 26970), (281, 27000), (282, 27003), (312, 27111), (324, 27165), (329, 27180), (332, 27195), (355, 27264), (360, 27285), (368, 27303), (375, 27336), (383, 27360), (385, 27363), (396, 27414), (406, 27450), (410, 27474), (421, 27510), (424, 27519), (426, 27534), (438, 27561), (447, 27591), (460, 27627), (464, 27645), (465, 27648), (471, 27657), (507, 27783), (522, 27831), (563, 27963), (570, 27990), (589, 28041), (594, 28053), (597, 28059), (612, 28116), (624, 28155), (637, 28203), (644, 28230), (646, 28233), (651, 28260), (660, 28278), (669, 28308), (673, 28320), (674, 28332), (704, 28440), (708, 28455), (719, 28488), (729, 28509), (747, 28575), (758, 28605), (761, 28611), (776, 28671), (777, 28680), (779, 28689), (796, 28764), (798, 28779), (800, 28785), (808, 28821), (813, 28935),

Gene: Jolie1_026 Start: 27564, Stop: 30065, Start Num: 62
Candidate Starts for Jolie1_026:
(Start: 62 @27564 has 2 MA's), (72, 27585), (82, 27621), (104, 27678), (133, 27798), (136, 27816), (161, 27888), (163, 27894), (177, 27948), (185, 27984), (226, 28167), (238, 28212), (254, 28251), (271, 28305), (295, 28410), (304, 28446), (311, 28464), (322, 28512), (344, 28596), (354, 28632), (364, 28662), (374, 28698), (379, 28716), (438, 28923), (440, 28935), (445, 28944), (482, 29019), (484, 29022), (498, 29061), (511, 29106), (518, 29121), (537, 29202), (543, 29214), (550, 29232), (553, 29238), (555, 29253), (557, 29259), (589, 29340), (622, 29430), (627, 29445), (648, 29517), (661, 29556), (686, 29655), (788, 29997),

Gene: Joy99_27 Start: 20841, Stop: 23273, Start Num: 61
Candidate Starts for Joy99_27:
(Start: 61 @20841 has 98 MA's), (95, 20940), (173, 21201), (178, 21222), (226, 21429), (235, 21462), (243, 21492), (274, 21564), (280, 21588), (333, 21786), (345, 21831), (348, 21843), (351, 21852), (370, 21903), (416, 22083), (421, 22098), (443, 22167), (450, 22179), (482, 22242), (498, 22284), (511, 22323), (515, 22329), (518, 22338), (522, 22359), (538, 22419), (583, 22536), (599, 22578), (621, 22650), (630, 22680), (650, 22752), (659, 22773), (686, 22869), (734, 23016), (760, 23097),

(796, 23244),

Gene: Jumbo_24 Start: 33519, Stop: 36377, Start Num: 23
Candidate Starts for Jumbo_24:
(Start: 23 @33519 has 1 MA's), (27, 33528), (36, 33579), (80, 33753), (135, 33948), (207, 34227), (218, 34284), (235, 34335), (279, 34446), (321, 34611), (329, 34659), (350, 34752), (356, 34773), (365, 34800), (371, 34818), (387, 34890), (396, 34926), (412, 35001), (414, 35007), (415, 35010), (421, 35028), (437, 35079), (487, 35232), (504, 35295), (506, 35301), (528, 35391), (536, 35409), (545, 35436), (547, 35442), (561, 35487), (577, 35538), (585, 35559), (640, 35748), (642, 35754), (646, 35766), (657, 35805), (711, 36003), (729, 36051), (736, 36078), (740, 36099), (744, 36114), (749, 36129), (777, 36228), (778, 36231), (791, 36285), (797, 36318), (806, 36360),

Gene: JustASigh_21 Start: 19828, Stop: 22794, Start Num: 26
Candidate Starts for JustASigh_21:
(Start: 26 @19828 has 7 MA's), (Start: 28 @19837 has 1 MA's), (63, 19999), (81, 20059), (108, 20134), (138, 20269), (159, 20326), (195, 20494), (200, 20542), (202, 20548), (203, 20551), (219, 20638), (232, 20686), (256, 20746), (274, 20794), (285, 20827), (292, 20860), (361, 21124), (375, 21172), (396, 21259), (398, 21271), (405, 21292), (410, 21319), (419, 21352), (421, 21355), (447, 21436), (451, 21448), (460, 21472), (508, 21637), (510, 21640), (522, 21682), (526, 21703), (529, 21718), (534, 21727), (550, 21778), (563, 21814), (594, 21904), (600, 21925), (612, 21967), (617, 21976), (625, 22009), (644, 22081), (660, 22129), (673, 22171), (674, 22183), (690, 22252), (719, 22339), (728, 22357), (747, 22426), (769, 22489), (772, 22495), (779, 22537), (787, 22570), (803, 22648), (808, 22672),

Gene: Kaleb_32 Start: 30088, Stop: 32808, Start Num: 44
Candidate Starts for Kaleb_32:
(Start: 44 @30088 has 36 MA's), (60, 30142), (74, 30181), (90, 30226), (99, 30250), (100, 30253), (113, 30286), (144, 30394), (154, 30415), (156, 30418), (175, 30472), (190, 30532), (195, 30556), (197, 30592), (207, 30640), (212, 30661), (219, 30700), (231, 30739), (237, 30754), (264, 30808), (267, 30820), (274, 30844), (281, 30868), (286, 30880), (290, 30895), (292, 30910), (303, 30952), (309, 30970), (318, 31009), (324, 31033), (375, 31204), (396, 31282), (410, 31342), (421, 31378), (422, 31381), (447, 31459), (460, 31495), (467, 31519), (477, 31540), (525, 31711), (526, 31717), (563, 31828), (570, 31855), (594, 31918), (597, 31924), (600, 31939), (612, 31981), (637, 32068), (651, 32125), (660, 32143), (667, 32164), (669, 32173), (672, 32179), (673, 32185), (674, 32197), (703, 32302), (708, 32320), (719, 32353), (747, 32440), (758, 32470), (761, 32476), (776, 32536), (796, 32629), (798, 32644), (808, 32686), (813, 32800),

Gene: KayaCho_26 Start: 27566, Stop: 30061, Start Num: 62
Candidate Starts for KayaCho_26:
(Start: 62 @27566 has 2 MA's), (82, 27623), (98, 27662), (119, 27737), (136, 27818), (161, 27890), (177, 27950), (185, 27986), (226, 28169), (238, 28214), (271, 28307), (284, 28355), (295, 28412), (304, 28448), (311, 28466), (317, 28493), (322, 28514), (344, 28598), (354, 28634), (364, 28664), (374, 28700), (379, 28718), (438, 28925), (440, 28937), (445, 28946), (481, 29015), (482, 29021), (484, 29024), (498, 29063), (511, 29108), (522, 29147), (537, 29204), (543, 29216), (553, 29240), (555, 29255), (557, 29261), (589, 29342), (627, 29447), (686, 29657), (690, 29678), (756, 29870), (788, 29993), (797, 30038),

Gene: Kheparia_29 Start: 20832, Stop: 23264, Start Num: 61
Candidate Starts for Kheparia_29:
(Start: 61 @20832 has 98 MA's), (77, 20883), (80, 20892), (95, 20931), (173, 21192), (178, 21213), (234, 21450), (235, 21453), (243, 21483), (245, 21486), (252, 21498), (274, 21555), (280, 21579), (282, 21585), (292, 21624), (333, 21777), (345, 21822), (348, 21834), (351, 21843), (362, 21879), (370, 21894), (416, 22074), (421, 22089), (443, 22158), (482, 22233), (498, 22275), (511, 22314),

(515, 22320), (518, 22329), (522, 22350), (523, 22356), (538, 22410), (553, 22443), (555, 22458), (583, 22527), (586, 22533), (599, 22569), (625, 22650), (641, 22707), (650, 22743), (659, 22764), (686, 22860), (721, 22971), (760, 23088), (780, 23163), (796, 23235),

Gene: Kheth_32 Start: 29973, Stop: 32693, Start Num: 44
Candidate Starts for Kheth_32:
(Start: 44 @29973 has 36 MA's), (60, 30027), (74, 30066), (90, 30111), (99, 30135), (100, 30138), (113, 30171), (144, 30279), (154, 30300), (156, 30303), (175, 30357), (190, 30417), (195, 30441), (197, 30477), (207, 30525), (212, 30546), (219, 30585), (231, 30624), (237, 30639), (264, 30693), (267, 30705), (274, 30729), (281, 30753), (286, 30765), (290, 30780), (292, 30795), (303, 30837), (309, 30855), (318, 30894), (324, 30918), (375, 31089), (396, 31167), (410, 31227), (421, 31263), (422, 31266), (447, 31344), (460, 31380), (467, 31404), (477, 31425), (525, 31596), (526, 31602), (563, 31713), (570, 31740), (594, 31803), (597, 31809), (600, 31824), (612, 31866), (637, 31953), (644, 31980), (651, 32010), (660, 32028), (667, 32049), (669, 32058), (672, 32064), (673, 32070), (674, 32082), (703, 32187), (708, 32205), (719, 32238), (747, 32325), (758, 32355), (761, 32361), (776, 32421), (796, 32514), (798, 32529), (808, 32571), (813, 32685),

Gene: KiSi_26 Start: 20041, Stop: 22500, Start Num: 61
Candidate Starts for KiSi_26:
(Start: 61 @20041 has 98 MA's), (76, 20089), (118, 20212), (129, 20269), (133, 20281), (166, 20374), (172, 20398), (182, 20449), (218, 20611), (259, 20722), (268, 20761), (274, 20785), (308, 20908), (326, 20980), (349, 21067), (372, 21133), (374, 21148), (399, 21250), (416, 21304), (436, 21364), (479, 21442), (480, 21454), (482, 21463), (498, 21505), (518, 21565), (541, 21652), (551, 21676), (574, 21748), (599, 21805), (630, 21916), (638, 21940), (643, 21961), (661, 22012), (695, 22141), (735, 22246), (796, 22471),

Gene: KidneyBean_43 Start: 33386, Stop: 35752, Start Num: 66
Candidate Starts for KidneyBean_43:
(Start: 66 @33386 has 26 MA's), (79, 33428), (115, 33515), (206, 33854), (282, 34094), (292, 34133), (296, 34148), (319, 34232), (320, 34238), (369, 34376), (392, 34469), (398, 34505), (479, 34697), (484, 34721), (494, 34751), (498, 34760), (511, 34805), (564, 34973), (591, 35036), (607, 35081), (615, 35105), (670, 35270), (671, 35273), (678, 35306), (688, 35348), (704, 35399), (721, 35450), (724, 35456), (732, 35477), (735, 35486), (739, 35501), (753, 35546), (802, 35732),

Gene: Koella_18 Start: 17365, Stop: 20229, Start Num: 17
Candidate Starts for Koella_18:
(15, 17353), (Start: 17 @17365 has 10 MA's), (25, 17386), (30, 17407), (37, 17446), (52, 17515), (56, 17524), (58, 17527), (75, 17578), (106, 17668), (122, 17713), (140, 17803), (143, 17812), (145, 17815), (153, 17836), (159, 17848), (170, 17881), (198, 18016), (209, 18064), (212, 18079), (215, 18100), (228, 18142), (231, 18157), (236, 18166), (244, 18193), (248, 18199), (268, 18244), (271, 18253), (274, 18268), (278, 18280), (280, 18289), (282, 18295), (286, 18304), (291, 18331), (296, 18349), (321, 18442), (327, 18463), (333, 18487), (355, 18553), (360, 18574), (368, 18592), (375, 18625), (383, 18649), (385, 18652), (396, 18703), (406, 18739), (410, 18763), (421, 18799), (424, 18808), (426, 18823), (438, 18850), (447, 18880), (460, 18916), (467, 18940), (500, 19039), (511, 19078), (525, 19132), (563, 19249), (570, 19276), (594, 19339), (597, 19345), (600, 19360), (612, 19402), (637, 19489), (644, 19516), (651, 19546), (660, 19564), (669, 19594), (673, 19606), (674, 19618), (703, 19723), (708, 19741), (719, 19774), (747, 19861), (758, 19891), (761, 19897), (776, 19957), (777, 19966), (779, 19975), (796, 20050), (800, 20071), (808, 20107), (813, 20221),

Gene: Kolhan_32 Start: 29967, Stop: 32687, Start Num: 44
Candidate Starts for Kolhan_32:
(Start: 44 @29967 has 36 MA's), (60, 30021), (74, 30060), (90, 30105), (99, 30129), (100, 30132), (113, 30165), (144, 30273), (154, 30294), (156, 30297), (175, 30351), (190, 30411), (195, 30435),

(197, 30471), (207, 30519), (212, 30540), (219, 30579), (231, 30618), (237, 30633), (264, 30687), (267, 30699), (274, 30723), (281, 30747), (286, 30759), (290, 30774), (292, 30789), (303, 30831), (309, 30849), (318, 30888), (324, 30912), (375, 31083), (396, 31161), (410, 31221), (421, 31257), (422, 31260), (447, 31338), (460, 31374), (467, 31398), (477, 31419), (525, 31590), (526, 31596), (563, 31707), (570, 31734), (594, 31797), (597, 31803), (600, 31818), (612, 31860), (637, 31947), (651, 32004), (660, 32022), (667, 32043), (669, 32052), (672, 32058), (673, 32064), (674, 32076), (703, 32181), (708, 32199), (719, 32232), (747, 32319), (758, 32349), (761, 32355), (776, 32415), (796, 32508), (798, 32523), (808, 32565), (813, 32679),

Gene: Kratio_24 Start: 20891, Stop: 23401, Start Num: 68
Candidate Starts for Kratio_24:
(Start: 68 @20891 has 25 MA's), (85, 20939), (89, 20951), (94, 20960), (126, 21059), (153, 21170), (176, 21254), (211, 21407), (214, 21431), (224, 21461), (250, 21542), (255, 21551), (260, 21560), (269, 21587), (274, 21608), (282, 21641), (287, 21653), (292, 21680), (294, 21686), (307, 21731), (325, 21809), (346, 21887), (352, 21908), (367, 21953), (375, 21989), (385, 22025), (390, 22046), (396, 22076), (398, 22088), (429, 22208), (451, 22271), (460, 22295), (481, 22352), (501, 22409), (505, 22424), (512, 22445), (523, 22484), (568, 22625), (601, 22712), (624, 22778), (635, 22814), (647, 22847), (650, 22868), (666, 22904), (683, 22979), (685, 22982), (690, 23006), (702, 23039), (710, 23066), (717, 23087), (726, 23105), (741, 23159), (800, 23387),

Gene: Kropertea_20 Start: 18836, Stop: 21472, Start Num: 31
Candidate Starts for Kropertea_20:
(Start: 31 @18836 has 6 MA's), (33, 18842), (37, 18863), (79, 19013), (111, 19100), (127, 19154), (147, 19241), (157, 19262), (166, 19292), (168, 19301), (169, 19307), (178, 19340), (202, 19442), (206, 19469), (207, 19472), (213, 19499), (218, 19532), (229, 19574), (232, 19580), (268, 19673), (285, 19730), (308, 19817), (315, 19847), (334, 19919), (377, 20057), (400, 20135), (401, 20138), (407, 20168), (412, 20192), (430, 20255), (456, 20324), (497, 20438), (515, 20492), (519, 20507), (520, 20513), (540, 20591), (552, 20621), (565, 20654), (578, 20693), (581, 20702), (597, 20744), (598, 20747), (628, 20852), (632, 20864), (636, 20876), (637, 20879), (654, 20942), (658, 20951), (714, 21143), (726, 21173), (742, 21230), (754, 21269), (759, 21281), (770, 21314), (800, 21455),

Gene: Kurt_43 Start: 33623, Stop: 35989, Start Num: 66
Candidate Starts for Kurt_43:
(Start: 66 @33623 has 26 MA's), (79, 33665), (115, 33752), (206, 34091), (282, 34331), (292, 34370), (296, 34385), (319, 34469), (320, 34475), (369, 34613), (392, 34706), (398, 34742), (479, 34934), (484, 34958), (494, 34988), (498, 34997), (511, 35042), (564, 35210), (591, 35273), (607, 35318), (615, 35342), (670, 35507), (671, 35510), (678, 35543), (688, 35585), (704, 35636), (721, 35687), (724, 35693), (732, 35714), (735, 35723), (739, 35738), (753, 35783), (802, 35969),

Gene: Labelle_36 Start: 28741, Stop: 32043, Start Num: 3
Candidate Starts for Labelle_36:
(Start: 3 @28741 has 3 MA's), (Start: 4 @28753 has 1 MA's), (7, 28882), (8, 28891), (9, 28903), (20, 29071), (22, 29077), (40, 29161), (84, 29314), (100, 29356), (111, 29389), (117, 29416), (122, 29428), (181, 29644), (188, 29701), (192, 29722), (210, 29827), (215, 29863), (266, 30001), (282, 30070), (289, 30094), (320, 30220), (324, 30235), (331, 30262), (337, 30283), (339, 30298), (342, 30307), (421, 30613), (422, 30616), (426, 30637), (447, 30694), (460, 30730), (464, 30748), (465, 30751), (471, 30760), (477, 30775), (507, 30883), (525, 30946), (549, 31021), (563, 31063), (612, 31216), (624, 31255), (651, 31360), (660, 31378), (669, 31408), (673, 31420), (674, 31432), (732, 31621), (761, 31711), (776, 31771), (779, 31789), (796, 31864), (800, 31885), (808, 31921), (811, 32026), (812, 32032), (813, 32035),

Gene: Lars_32 Start: 30078, Stop: 32798, Start Num: 44
Candidate Starts for Lars_32:

(Start: 44 @30078 has 36 MA's), (60, 30132), (74, 30171), (90, 30216), (99, 30240), (100, 30243), (113, 30276), (144, 30384), (154, 30405), (156, 30408), (175, 30462), (190, 30522), (195, 30546), (197, 30582), (207, 30630), (212, 30651), (219, 30690), (231, 30729), (237, 30744), (264, 30798), (267, 30810), (274, 30834), (281, 30858), (286, 30870), (290, 30885), (292, 30900), (303, 30942), (309, 30960), (318, 30999), (324, 31023), (375, 31194), (396, 31272), (410, 31332), (421, 31368), (422, 31371), (447, 31449), (460, 31485), (467, 31509), (477, 31530), (525, 31701), (526, 31707), (563, 31818), (570, 31845), (594, 31908), (597, 31914), (600, 31929), (612, 31971), (637, 32058), (644, 32085), (651, 32115), (660, 32133), (667, 32154), (669, 32163), (672, 32169), (673, 32175), (674, 32187), (703, 32292), (708, 32310), (719, 32343), (747, 32430), (758, 32460), (761, 32466), (776, 32526), (796, 32619), (798, 32634), (808, 32676), (813, 32790),

Gene: Larva_26 Start: 21061, Stop: 23565, Start Num: 68
Candidate Starts for Larva_26:
(Start: 68 @21061 has 25 MA's), (85, 21109), (89, 21121), (131, 21268), (153, 21337), (176, 21421), (211, 21574), (214, 21598), (223, 21625), (250, 21709), (255, 21718), (260, 21727), (269, 21754), (274, 21775), (282, 21808), (287, 21820), (292, 21847), (325, 21976), (346, 22054), (352, 22075), (367, 22120), (375, 22156), (378, 22168), (385, 22192), (396, 22243), (398, 22255), (417, 22333), (429, 22375), (451, 22438), (460, 22462), (501, 22576), (505, 22591), (512, 22612), (523, 22651), (568, 22792), (601, 22879), (607, 22888), (624, 22945), (635, 22981), (647, 23014), (650, 23035), (683, 23146), (685, 23149), (690, 23173), (700, 23197), (701, 23203), (702, 23206), (710, 23233), (717, 23254), (726, 23272), (741, 23323), (768, 23404), (800, 23551),

Gene: LastJedi_18 Start: 17396, Stop: 20260, Start Num: 17
Candidate Starts for LastJedi_18:
(15, 17384), (Start: 17 @17396 has 10 MA's), (25, 17417), (30, 17438), (37, 17477), (52, 17546), (56, 17555), (58, 17558), (75, 17609), (106, 17699), (122, 17744), (140, 17834), (143, 17843), (145, 17846), (153, 17867), (159, 17879), (170, 17912), (198, 18047), (209, 18095), (212, 18110), (215, 18131), (228, 18173), (231, 18188), (236, 18197), (244, 18224), (248, 18230), (268, 18275), (271, 18284), (274, 18299), (278, 18311), (280, 18320), (282, 18326), (286, 18335), (291, 18362), (296, 18380), (321, 18473), (327, 18494), (333, 18518), (355, 18584), (360, 18605), (368, 18623), (375, 18656), (383, 18680), (385, 18683), (396, 18734), (406, 18770), (410, 18794), (421, 18830), (424, 18839), (426, 18854), (438, 18881), (447, 18911), (460, 18947), (467, 18971), (500, 19070), (511, 19109), (525, 19163), (563, 19280), (570, 19307), (594, 19370), (597, 19376), (600, 19391), (612, 19433), (637, 19520), (644, 19547), (651, 19577), (660, 19595), (669, 19625), (673, 19637), (674, 19649), (703, 19754), (708, 19772), (719, 19805), (747, 19892), (758, 19922), (761, 19928), (776, 19988), (777, 19997), (779, 20006), (796, 20081), (800, 20102), (808, 20138), (813, 20252),

Gene: LaterM_27 Start: 20812, Stop: 23244, Start Num: 61
Candidate Starts for LaterM_27:
(Start: 61 @20812 has 98 MA's), (79, 20869), (95, 20911), (173, 21172), (178, 21193), (226, 21400), (235, 21433), (243, 21463), (274, 21535), (280, 21559), (292, 21604), (333, 21757), (348, 21814), (351, 21823), (362, 21859), (370, 21874), (416, 22054), (421, 22069), (443, 22138), (450, 22150), (482, 22213), (498, 22255), (511, 22294), (515, 22300), (518, 22309), (522, 22330), (538, 22390), (555, 22438), (556, 22441), (563, 22456), (576, 22498), (583, 22507), (602, 22564), (621, 22621), (625, 22630), (630, 22651), (643, 22696), (659, 22744), (686, 22840), (760, 23068), (796, 23215),

Gene: LeBron_20 Start: 19023, Stop: 21704, Start Num: 50
Candidate Starts for LeBron_20:
(Start: 50 @19023 has 19 MA's), (51, 19029), (112, 19206), (127, 19236), (137, 19299), (165, 19374), (181, 19428), (193, 19488), (195, 19494), (207, 19560), (222, 19623), (230, 19656), (231, 19659), (241, 19683), (255, 19707), (258, 19713), (263, 19719), (277, 19767), (283, 19788), (288, 19803), (293, 19824), (302, 19863), (306, 19875), (313, 19893), (333, 19968), (343, 19998), (351, 20022), (353, 20025), (367, 20070), (382, 20121), (386, 20139), (398, 20193), (417, 20265), (421, 20277),

(424, 20286), (428, 20304), (438, 20328), (447, 20358), (460, 20394), (473, 20427), (476, 20433), (492, 20499), (516, 20565), (525, 20604), (550, 20685), (563, 20721), (565, 20727), (600, 20832), (604, 20841), (608, 20856), (612, 20874), (625, 20916), (649, 21012), (651, 21018), (672, 21072), (673, 21078), (674, 21090), (705, 21201), (714, 21231), (716, 21237), (747, 21333), (748, 21339), (758, 21363), (761, 21369), (763, 21375), (774, 21420), (776, 21429), (777, 21438), (787, 21477), (793, 21513), (796, 21522), (798, 21537), (809, 21633), (811, 21684), (812, 21690),

Gene: LeMond_26 Start: 20112, Stop: 22571, Start Num: 61
Candidate Starts for LeMond_26:
(Start: 61 @20112 has 98 MA's), (76, 20160), (118, 20283), (129, 20340), (133, 20352), (166, 20445), (172, 20469), (182, 20520), (218, 20682), (259, 20793), (268, 20832), (274, 20856), (308, 20979), (326, 21051), (349, 21138), (374, 21219), (399, 21321), (416, 21375), (436, 21435), (479, 21513), (480, 21525), (482, 21534), (498, 21576), (511, 21621), (518, 21636), (541, 21723), (551, 21747), (574, 21819), (599, 21876), (630, 21987), (638, 22011), (643, 22032), (661, 22083), (695, 22212), (735, 22317), (796, 22542),

Gene: Lephleur_32 Start: 29971, Stop: 32691, Start Num: 44
Candidate Starts for Lephleur_32:
(Start: 44 @29971 has 36 MA's), (60, 30025), (74, 30064), (90, 30109), (99, 30133), (100, 30136), (113, 30169), (144, 30277), (154, 30298), (156, 30301), (175, 30355), (190, 30415), (195, 30439), (197, 30475), (207, 30523), (212, 30544), (219, 30583), (231, 30622), (237, 30637), (264, 30691), (267, 30703), (274, 30727), (281, 30751), (286, 30763), (290, 30778), (292, 30793), (303, 30835), (309, 30853), (318, 30892), (324, 30916), (375, 31087), (396, 31165), (410, 31225), (421, 31261), (422, 31264), (447, 31342), (460, 31378), (467, 31402), (477, 31423), (525, 31594), (526, 31600), (563, 31711), (570, 31738), (594, 31801), (597, 31807), (600, 31822), (612, 31864), (637, 31951), (651, 32008), (660, 32026), (667, 32047), (669, 32056), (672, 32062), (673, 32068), (674, 32080), (703, 32185), (708, 32203), (719, 32236), (747, 32323), (758, 32353), (761, 32359), (776, 32419), (796, 32512), (798, 32527), (808, 32569), (813, 32683),

Gene: Leston_25 Start: 21290, Stop: 23788, Start Num: 68
Candidate Starts for Leston_25:
(Start: 68 @21290 has 25 MA's), (89, 21350), (94, 21359), (131, 21500), (153, 21569), (176, 21653), (211, 21806), (214, 21830), (223, 21857), (234, 21899), (241, 21926), (248, 21938), (250, 21941), (255, 21950), (260, 21959), (269, 21986), (276, 22019), (282, 22040), (292, 22079), (307, 22130), (325, 22208), (346, 22286), (361, 22343), (367, 22352), (375, 22388), (383, 22421), (385, 22424), (390, 22445), (396, 22475), (398, 22487), (442, 22646), (462, 22706), (465, 22715), (475, 22730), (481, 22751), (505, 22823), (509, 22838), (521, 22868), (522, 22871), (527, 22895), (532, 22910), (542, 22937), (558, 22985), (568, 23015), (569, 23018), (575, 23030), (580, 23042), (601, 23099), (611, 23120), (613, 23132), (627, 23180), (635, 23207), (662, 23285), (665, 23288), (682, 23363), (685, 23375), (698, 23417), (700, 23420), (706, 23432), (772, 23633), (776, 23657), (777, 23666), (781, 23681), (800, 23774), (801, 23777),

Gene: LilDirt_24 Start: 21017, Stop: 23527, Start Num: 68
Candidate Starts for LilDirt_24:
(Start: 68 @21017 has 25 MA's), (85, 21065), (89, 21077), (94, 21086), (153, 21296), (176, 21380), (211, 21533), (214, 21557), (224, 21587), (250, 21668), (255, 21677), (260, 21686), (269, 21713), (274, 21734), (282, 21767), (287, 21779), (292, 21806), (294, 21812), (307, 21857), (325, 21935), (346, 22013), (352, 22034), (367, 22079), (375, 22115), (385, 22151), (390, 22172), (396, 22202), (398, 22214), (429, 22334), (451, 22397), (460, 22421), (481, 22478), (501, 22535), (505, 22550), (512, 22571), (523, 22610), (568, 22751), (601, 22838), (624, 22904), (635, 22940), (647, 22973), (650, 22994), (666, 23030), (683, 23105), (685, 23108), (690, 23132), (702, 23165), (710, 23192), (717, 23213), (726, 23231), (741, 23285), (800, 23513),

Gene: LilMcDreamy_27 Start: 29183, Stop: 31675, Start Num: 66
Candidate Starts for LilMcDreamy_27:
(Start: 66 @29183 has 26 MA's), (91, 29261), (115, 29336), (271, 29906), (275, 29930), (299, 30029), (305, 30053), (309, 30062), (317, 30095), (321, 30113), (334, 30161), (369, 30275), (374, 30302), (384, 30341), (409, 30437), (416, 30461), (438, 30527), (482, 30623), (496, 30662), (537, 30806), (555, 30857), (567, 30896), (571, 30905), (593, 30950), (627, 31061), (661, 31172), (686, 31271), (738, 31430), (770, 31532), (788, 31613),

Gene: LilSmirk_32 Start: 29965, Stop: 32685, Start Num: 44
Candidate Starts for LilSmirk_32:
(Start: 44 @29965 has 36 MA's), (60, 30019), (74, 30058), (90, 30103), (99, 30127), (100, 30130), (113, 30163), (144, 30271), (154, 30292), (156, 30295), (175, 30349), (190, 30409), (195, 30433), (197, 30469), (207, 30517), (212, 30538), (219, 30577), (231, 30616), (237, 30631), (264, 30685), (267, 30697), (274, 30721), (281, 30745), (286, 30757), (290, 30772), (292, 30787), (303, 30829), (309, 30847), (318, 30886), (324, 30910), (375, 31081), (396, 31159), (410, 31219), (421, 31255), (422, 31258), (447, 31336), (460, 31372), (467, 31396), (477, 31417), (525, 31588), (563, 31705), (570, 31732), (594, 31795), (597, 31801), (600, 31816), (612, 31858), (637, 31945), (651, 32002), (660, 32020), (667, 32041), (669, 32050), (672, 32056), (673, 32062), (674, 32074), (703, 32179), (708, 32197), (719, 32230), (747, 32317), (758, 32347), (761, 32353), (776, 32413), (796, 32506), (798, 32521), (808, 32563), (813, 32677),

Gene: LindNT_27 Start: 20846, Stop: 23278, Start Num: 61
Candidate Starts for LindNT_27:
(Start: 61 @20846 has 98 MA's), (95, 20945), (173, 21206), (226, 21434), (235, 21467), (243, 21497), (274, 21569), (280, 21593), (292, 21638), (333, 21791), (345, 21836), (348, 21848), (351, 21857), (362, 21893), (370, 21908), (416, 22088), (421, 22103), (443, 22172), (450, 22184), (482, 22247), (498, 22289), (511, 22328), (515, 22334), (518, 22343), (522, 22364), (538, 22424), (583, 22541), (599, 22583), (621, 22655), (625, 22664), (630, 22685), (650, 22757), (659, 22778), (686, 22874), (760, 23102), (796, 23249),

Gene: LizLemon_32 Start: 30087, Stop: 32807, Start Num: 44
Candidate Starts for LizLemon_32:
(Start: 44 @30087 has 36 MA's), (60, 30141), (74, 30180), (90, 30225), (99, 30249), (100, 30252), (113, 30285), (144, 30393), (154, 30414), (156, 30417), (175, 30471), (190, 30531), (195, 30555), (197, 30591), (207, 30639), (212, 30660), (219, 30699), (231, 30738), (237, 30753), (264, 30807), (267, 30819), (274, 30843), (281, 30867), (286, 30879), (290, 30894), (292, 30909), (303, 30951), (309, 30969), (318, 31008), (324, 31032), (375, 31203), (396, 31281), (410, 31341), (421, 31377), (422, 31380), (447, 31458), (460, 31494), (467, 31518), (500, 31617), (511, 31656), (525, 31710), (563, 31827), (570, 31854), (594, 31917), (597, 31923), (600, 31938), (612, 31980), (637, 32067), (651, 32124), (660, 32142), (667, 32163), (669, 32172), (672, 32178), (673, 32184), (674, 32196), (703, 32301), (708, 32319), (719, 32352), (747, 32439), (758, 32469), (761, 32475), (776, 32535), (796, 32628), (798, 32643), (808, 32685), (813, 32799),

Gene: Llorens_27 Start: 20912, Stop: 23344, Start Num: 61
Candidate Starts for Llorens_27:
(Start: 61 @20912 has 98 MA's), (95, 21011), (173, 21272), (178, 21293), (226, 21500), (235, 21533), (243, 21563), (274, 21635), (280, 21659), (333, 21857), (345, 21902), (348, 21914), (351, 21923), (370, 21974), (416, 22154), (421, 22169), (443, 22238), (450, 22250), (482, 22313), (498, 22355), (511, 22394), (515, 22400), (518, 22409), (522, 22430), (538, 22490), (583, 22607), (599, 22649), (621, 22721), (625, 22730), (630, 22751), (650, 22823), (659, 22844), (686, 22940), (734, 23087), (760, 23168), (796, 23315),

Gene: Lokum_27 Start: 20913, Stop: 23345, Start Num: 61

Candidate Starts for Lokum_27:
(Start: 61 @20913 has 98 MA's), (95, 21012), (173, 21273), (178, 21294), (226, 21501), (235, 21534), (243, 21564), (274, 21636), (280, 21660), (333, 21858), (345, 21903), (348, 21915), (351, 21924), (370, 21975), (416, 22155), (421, 22170), (443, 22239), (450, 22251), (482, 22314), (498, 22356), (511, 22395), (515, 22401), (518, 22410), (522, 22431), (538, 22491), (583, 22608), (599, 22650), (621, 22722), (625, 22731), (630, 22752), (650, 22824), (659, 22845), (686, 22941), (734, 23088), (760, 23169), (796, 23316),

Gene: Lunahalos_27 Start: 20912, Stop: 23344, Start Num: 61
Candidate Starts for Lunahalos_27:
(Start: 61 @20912 has 98 MA's), (95, 21011), (173, 21272), (178, 21293), (226, 21500), (235, 21533), (243, 21563), (274, 21635), (280, 21659), (333, 21857), (345, 21902), (348, 21914), (351, 21923), (370, 21974), (416, 22154), (421, 22169), (443, 22238), (450, 22250), (482, 22313), (498, 22355), (511, 22394), (515, 22400), (518, 22409), (522, 22430), (538, 22490), (583, 22607), (599, 22649), (621, 22721), (625, 22730), (630, 22751), (650, 22823), (659, 22844), (686, 22940), (734, 23087), (760, 23168), (796, 23315),

Gene: MAckerman_20 Start: 18997, Stop: 21678, Start Num: 50
Candidate Starts for MAckerman_20:
(Start: 50 @18997 has 19 MA's), (51, 19003), (112, 19180), (127, 19210), (137, 19273), (165, 19348), (181, 19402), (193, 19462), (195, 19468), (207, 19534), (222, 19597), (230, 19630), (231, 19633), (241, 19657), (258, 19687), (263, 19693), (277, 19741), (283, 19762), (288, 19777), (293, 19798), (302, 19837), (306, 19849), (313, 19867), (328, 19924), (333, 19942), (343, 19972), (351, 19996), (353, 19999), (367, 20044), (382, 20095), (386, 20113), (398, 20167), (417, 20239), (421, 20251), (424, 20260), (438, 20302), (447, 20332), (460, 20368), (464, 20386), (473, 20401), (476, 20407), (483, 20440), (523, 20569), (525, 20578), (550, 20659), (563, 20695), (565, 20701), (600, 20806), (604, 20815), (608, 20830), (612, 20848), (625, 20890), (649, 20986), (651, 20992), (672, 21046), (673, 21052), (674, 21064), (705, 21175), (714, 21205), (716, 21211), (747, 21307), (748, 21313), (758, 21337), (761, 21343), (763, 21349), (774, 21394), (776, 21403), (777, 21412), (787, 21451), (793, 21487), (796, 21496), (798, 21511), (809, 21607), (811, 21658), (812, 21664),

Gene: MacKat_27 Start: 20889, Stop: 23321, Start Num: 61
Candidate Starts for MacKat_27:
(Start: 61 @20889 has 98 MA's), (95, 20988), (173, 21249), (178, 21270), (226, 21477), (235, 21510), (243, 21540), (274, 21612), (280, 21636), (292, 21681), (333, 21834), (345, 21879), (348, 21891), (351, 21900), (370, 21951), (416, 22131), (421, 22146), (443, 22215), (450, 22227), (482, 22290), (498, 22332), (511, 22371), (515, 22377), (518, 22386), (522, 22407), (538, 22467), (583, 22584), (599, 22626), (621, 22698), (625, 22707), (630, 22728), (650, 22800), (659, 22821), (686, 22917), (760, 23145), (796, 23292),

Gene: Madruga_35 Start: 28410, Stop: 31712, Start Num: 3
Candidate Starts for Madruga_35:
(Start: 3 @28410 has 3 MA's), (Start: 4 @28422 has 1 MA's), (7, 28551), (8, 28560), (9, 28572), (22, 28746), (40, 28830), (80, 28974), (84, 28983), (100, 29025), (111, 29058), (122, 29097), (181, 29313), (188, 29370), (192, 29391), (210, 29496), (215, 29532), (266, 29670), (282, 29739), (289, 29763), (320, 29889), (324, 29904), (331, 29931), (337, 29952), (339, 29967), (342, 29976), (421, 30282), (422, 30285), (426, 30306), (447, 30363), (460, 30399), (467, 30423), (471, 30429), (477, 30444), (506, 30546), (507, 30552), (525, 30615), (549, 30690), (563, 30732), (612, 30885), (624, 30924), (631, 30951), (651, 31029), (660, 31047), (669, 31077), (673, 31089), (674, 31101), (732, 31290), (761, 31380), (776, 31440), (777, 31449), (798, 31548), (811, 31695), (812, 31701), (813, 31704),

Gene: Mao1_26 Start: 25993, Stop: 28746, Start Num: 43
Candidate Starts for Mao1_26:

(22, 25900), (Start: 43 @25993 has 3 MA's), (Start: 66 @26071 has 26 MA's), (79, 26107), (90, 26134), (99, 26158), (127, 26227), (139, 26296), (150, 26320), (156, 26332), (205, 26566), (209, 26578), (212, 26593), (219, 26629), (233, 26671), (256, 26725), (274, 26773), (281, 26803), (282, 26806), (312, 26914), (324, 26968), (329, 26983), (332, 26998), (355, 27067), (360, 27088), (368, 27106), (375, 27139), (383, 27163), (385, 27166), (396, 27217), (406, 27253), (410, 27277), (421, 27313), (424, 27322), (426, 27337), (438, 27364), (447, 27394), (460, 27430), (464, 27448), (465, 27451), (471, 27460), (507, 27586), (522, 27634), (563, 27766), (570, 27793), (589, 27844), (594, 27856), (597, 27862), (612, 27919), (624, 27958), (637, 28006), (644, 28033), (651, 28063), (660, 28081), (669, 28111), (673, 28123), (674, 28135), (704, 28243), (708, 28258), (719, 28291), (729, 28312), (747, 28378), (758, 28408), (761, 28414), (776, 28474), (777, 28483), (779, 28492), (796, 28567), (798, 28582), (800, 28588), (808, 28624), (813, 28738),

Gene: Marietta_45 Start: 30666, Stop: 33041, Start Num: 66
Candidate Starts for Marietta_45:
(Start: 66 @30666 has 26 MA's), (206, 31134), (218, 31194), (232, 31236), (235, 31245), (252, 31287), (274, 31347), (282, 31374), (319, 31512), (320, 31518), (347, 31596), (369, 31656), (373, 31680), (389, 31743), (398, 31785), (443, 31917), (455, 31938), (487, 32007), (494, 32031), (498, 32040), (511, 32082), (532, 32163), (539, 32184), (542, 32190), (555, 32232), (589, 32313), (615, 32388), (687, 32628), (688, 32631), (713, 32709), (722, 32733), (735, 32766), (764, 32850), (775, 32898), (778, 32907),

Gene: MarkPhew_27 Start: 19997, Stop: 22450, Start Num: 61
Candidate Starts for MarkPhew_27:
(Start: 61 @19997 has 98 MA's), (76, 20045), (118, 20168), (129, 20225), (133, 20237), (172, 20354), (182, 20405), (213, 20534), (218, 20567), (259, 20678), (261, 20687), (262, 20696), (268, 20717), (280, 20765), (308, 20867), (349, 21026), (374, 21107), (399, 21209), (480, 21413), (482, 21422), (498, 21464), (511, 21509), (518, 21524), (574, 21707), (599, 21764), (630, 21866), (638, 21890), (653, 21947), (661, 21962), (695, 22091), (735, 22196), (794, 22415),

Gene: Marshawn_28 Start: 20676, Stop: 23132, Start Num: 61
Candidate Starts for Marshawn_28:
(Start: 61 @20676 has 98 MA's), (70, 20703), (95, 20775), (118, 20847), (129, 20904), (133, 20916), (146, 20949), (167, 21015), (172, 21033), (178, 21057), (179, 21060), (182, 21084), (199, 21156), (218, 21246), (229, 21282), (261, 21366), (274, 21420), (280, 21441), (282, 21447), (292, 21486), (308, 21543), (349, 21702), (361, 21741), (374, 21783), (379, 21801), (399, 21885), (409, 21915), (416, 21939), (425, 21972), (433, 21993), (479, 22077), (482, 22098), (498, 22140), (515, 22191), (518, 22200), (523, 22227), (541, 22287), (565, 22353), (570, 22374), (574, 22383), (595, 22431), (608, 22470), (621, 22515), (630, 22545), (643, 22590), (661, 22641), (664, 22647), (695, 22770), (722, 22839), (737, 22881), (789, 23067), (794, 23097),

Gene: Mask_27 Start: 25986, Stop: 28739, Start Num: 43
Candidate Starts for Mask_27:
(22, 25893), (Start: 43 @25986 has 3 MA's), (Start: 66 @26064 has 26 MA's), (79, 26100), (90, 26127), (99, 26151), (127, 26220), (139, 26289), (150, 26313), (156, 26325), (205, 26559), (209, 26571), (212, 26586), (219, 26622), (233, 26664), (256, 26718), (274, 26766), (281, 26796), (282, 26799), (312, 26907), (324, 26961), (329, 26976), (332, 26991), (355, 27060), (360, 27081), (368, 27099), (375, 27132), (383, 27156), (385, 27159), (396, 27210), (406, 27246), (410, 27270), (421, 27306), (424, 27315), (426, 27330), (438, 27357), (447, 27387), (460, 27423), (464, 27441), (465, 27444), (471, 27453), (507, 27579), (522, 27627), (563, 27759), (570, 27786), (589, 27837), (594, 27849), (597, 27855), (612, 27912), (624, 27951), (637, 27999), (644, 28026), (651, 28056), (660, 28074), (669, 28104), (673, 28116), (674, 28128), (704, 28236), (708, 28251), (719, 28284), (729, 28305), (747, 28371), (758, 28401), (761, 28407), (776, 28467), (777, 28476), (779, 28485), (796, 28560), (798, 28575), (800, 28581), (808, 28617), (813, 28731),

Gene: MasterPo_32 Start: 29974, Stop: 32694, Start Num: 44
Candidate Starts for MasterPo_32:
(Start: 44 @29974 has 36 MA's), (60, 30028), (74, 30067), (90, 30112), (99, 30136), (100, 30139), (113, 30172), (144, 30280), (154, 30301), (156, 30304), (175, 30358), (190, 30418), (195, 30442), (197, 30478), (207, 30526), (212, 30547), (219, 30586), (231, 30625), (237, 30640), (264, 30694), (267, 30706), (274, 30730), (281, 30754), (286, 30766), (290, 30781), (292, 30796), (303, 30838), (309, 30856), (318, 30895), (324, 30919), (375, 31090), (396, 31168), (410, 31228), (421, 31264), (422, 31267), (447, 31345), (460, 31381), (467, 31405), (477, 31426), (525, 31597), (526, 31603), (563, 31714), (570, 31741), (594, 31804), (597, 31810), (600, 31825), (612, 31867), (637, 31954), (644, 31981), (651, 32011), (660, 32029), (667, 32050), (669, 32059), (672, 32065), (673, 32071), (674, 32083), (703, 32188), (708, 32206), (719, 32239), (747, 32326), (758, 32356), (761, 32362), (776, 32422), (796, 32515), (798, 32530), (800, 32536), (808, 32572), (813, 32686),

Gene: MeaningOfLife_27 Start: 20848, Stop: 23280, Start Num: 61
Candidate Starts for MeaningOfLife_27:
(Start: 61 @20848 has 98 MA's), (95, 20947), (133, 21088), (173, 21208), (178, 21229), (226, 21436), (235, 21469), (243, 21499), (274, 21571), (280, 21595), (333, 21793), (345, 21838), (348, 21850), (351, 21859), (370, 21910), (416, 22090), (421, 22105), (443, 22174), (450, 22186), (482, 22249), (498, 22291), (511, 22330), (515, 22336), (518, 22345), (522, 22366), (538, 22426), (583, 22543), (599, 22585), (621, 22657), (625, 22666), (630, 22687), (650, 22759), (659, 22780), (686, 22876), (705, 22939), (734, 23023), (744, 23065), (760, 23104),

Gene: Megsy_27 Start: 20849, Stop: 23281, Start Num: 61
Candidate Starts for Megsy_27:
(Start: 61 @20849 has 98 MA's), (95, 20948), (173, 21209), (226, 21437), (235, 21470), (243, 21500), (274, 21572), (280, 21596), (333, 21794), (345, 21839), (348, 21851), (351, 21860), (370, 21911), (416, 22091), (421, 22106), (443, 22175), (450, 22187), (482, 22250), (498, 22292), (511, 22331), (515, 22337), (518, 22346), (522, 22367), (538, 22427), (583, 22544), (599, 22586), (621, 22658), (625, 22667), (630, 22688), (650, 22760), (659, 22781), (686, 22877), (760, 23105), (796, 23252),

Gene: Meyran_28 Start: 24535, Stop: 27102, Start Num: 13
Candidate Starts for Meyran_28:
(Start: 13 @24535 has 4 MA's), (40, 24649), (42, 24658), (140, 24961), (189, 25135), (206, 25210), (218, 25270), (229, 25306), (234, 25318), (246, 25354), (248, 25357), (266, 25396), (274, 25432), (282, 25459), (289, 25483), (292, 25498), (297, 25516), (303, 25540), (337, 25654), (341, 25675), (372, 25768), (376, 25789), (463, 26023), (472, 26038), (495, 26119), (497, 26122), (502, 26131), (506, 26152), (515, 26173), (535, 26254), (537, 26263), (539, 26272), (540, 26275), (559, 26320), (564, 26332), (618, 26482), (637, 26548), (666, 26617), (670, 26629), (681, 26674), (683, 26689), (689, 26710), (705, 26743), (718, 26785), (765, 26914), (767, 26920), (793, 27037), (805, 27088),

Gene: Minnow_27 Start: 27559, Stop: 30054, Start Num: 62
Candidate Starts for Minnow_27:
(Start: 62 @27559 has 2 MA's), (82, 27616), (119, 27730), (136, 27811), (161, 27883), (177, 27943), (185, 27979), (226, 28162), (238, 28207), (271, 28300), (284, 28348), (295, 28405), (304, 28441), (311, 28459), (317, 28486), (322, 28507), (334, 28552), (344, 28591), (354, 28627), (364, 28657), (374, 28693), (379, 28711), (438, 28918), (440, 28930), (445, 28939), (481, 29008), (482, 29014), (484, 29017), (498, 29056), (511, 29101), (522, 29140), (537, 29197), (543, 29209), (550, 29227), (553, 29233), (555, 29248), (557, 29254), (589, 29335), (627, 29440), (679, 29620), (690, 29671), (788, 29986), (797, 30031),

Gene: Miryou_25 Start: 21145, Stop: 23643, Start Num: 68
Candidate Starts for Miryou_25:

(Start: 68 @21145 has 25 MA's), (89, 21205), (94, 21214), (131, 21355), (153, 21424), (176, 21508), (211, 21661), (214, 21685), (223, 21712), (234, 21754), (241, 21781), (248, 21793), (250, 21796), (255, 21805), (260, 21814), (269, 21841), (276, 21874), (282, 21895), (292, 21934), (307, 21985), (325, 22063), (346, 22141), (352, 22162), (367, 22207), (375, 22243), (385, 22279), (390, 22300), (396, 22330), (398, 22342), (442, 22501), (462, 22561), (465, 22570), (475, 22585), (481, 22606), (505, 22678), (509, 22693), (521, 22723), (522, 22726), (527, 22750), (532, 22765), (542, 22792), (558, 22840), (568, 22870), (569, 22873), (575, 22885), (580, 22897), (601, 22954), (611, 22975), (613, 22987), (627, 23035), (635, 23062), (662, 23140), (665, 23143), (682, 23218), (685, 23230), (698, 23272), (700, 23275), (706, 23287), (772, 23488), (776, 23512), (777, 23521), (781, 23536), (800, 23629), (801, 23632),

Gene: MrMagoo_34 Start: 25163, Stop: 27844, Start Num: 26
Candidate Starts for MrMagoo_34:
(Start: 26 @25163 has 7 MA's), (48, 25280), (63, 25334), (73, 25367), (83, 25400), (105, 25457), (149, 25631), (151, 25634), (169, 25697), (184, 25763), (187, 25772), (201, 25835), (217, 25916), (218, 25922), (220, 25925), (232, 25958), (247, 26000), (249, 26003), (280, 26087), (282, 26093), (284, 26096), (291, 26129), (303, 26171), (305, 26180), (308, 26186), (323, 26249), (324, 26252), (330, 26273), (339, 26306), (366, 26384), (377, 26426), (391, 26459), (396, 26489), (408, 26540), (412, 26561), (441, 26654), (449, 26678), (458, 26696), (460, 26702), (513, 26858), (529, 26924), (540, 26957), (542, 26960), (575, 27056), (579, 27065), (581, 27071), (594, 27107), (598, 27116), (603, 27134), (612, 27167), (623, 27200), (633, 27236), (634, 27239), (720, 27533), (752, 27632), (770, 27686), (782, 27740),

Gene: Murucutumbu_27 Start: 20831, Stop: 23263, Start Num: 61
Candidate Starts for Murucutumbu_27:
(Start: 61 @20831 has 98 MA's), (95, 20930), (173, 21191), (178, 21212), (235, 21452), (243, 21482), (245, 21485), (274, 21554), (280, 21578), (292, 21623), (333, 21776), (348, 21833), (351, 21842), (362, 21878), (370, 21893), (416, 22073), (421, 22088), (443, 22157), (482, 22232), (498, 22274), (511, 22313), (515, 22319), (518, 22328), (538, 22409), (583, 22526), (599, 22568), (621, 22640), (625, 22649), (630, 22670), (659, 22763), (686, 22859), (760, 23087), (796, 23234),

Gene: Mynx_27 Start: 20895, Stop: 23327, Start Num: 61
Candidate Starts for Mynx_27:
(Start: 61 @20895 has 98 MA's), (95, 20994), (173, 21255), (178, 21276), (226, 21483), (235, 21516), (243, 21546), (274, 21618), (280, 21642), (292, 21687), (333, 21840), (345, 21885), (348, 21897), (351, 21906), (370, 21957), (416, 22137), (421, 22152), (443, 22221), (450, 22233), (482, 22296), (498, 22338), (511, 22377), (515, 22383), (518, 22392), (522, 22413), (538, 22473), (583, 22590), (599, 22632), (621, 22704), (625, 22713), (630, 22734), (650, 22806), (659, 22827), (686, 22923), (705, 22986), (760, 23151), (796, 23298),

Gene: NadineRae_43 Start: 29919, Stop: 32300, Start Num: 66
Candidate Starts for NadineRae_43:
(Start: 66 @29919 has 26 MA's), (206, 30387), (207, 30390), (218, 30447), (232, 30489), (235, 30498), (252, 30540), (274, 30600), (282, 30627), (311, 30729), (319, 30765), (347, 30849), (369, 30909), (372, 30921), (373, 30933), (385, 30978), (389, 30996), (398, 31038), (402, 31047), (487, 31260), (494, 31284), (498, 31293), (522, 31374), (532, 31416), (539, 31437), (542, 31443), (551, 31467), (589, 31566), (591, 31569), (615, 31641), (639, 31725), (670, 31806), (671, 31809), (705, 31935), (724, 31989), (735, 32019), (739, 32034), (764, 32109), (775, 32157),

Gene: Nanosmite_34 Start: 25036, Stop: 27726, Start Num: 28
Candidate Starts for Nanosmite_34:
(Start: 28 @25036 has 1 MA's), (29, 25042), (48, 25144), (63, 25198), (77, 25246), (79, 25252), (105, 25321), (107, 25330), (149, 25495), (157, 25516), (169, 25561), (184, 25630), (217, 25783), (247,

25879), (280, 25969), (282, 25975), (287, 25987), (315, 26098), (316, 26101), (372, 26284), (377, 26308), (396, 26371), (400, 26386), (401, 26389), (407, 26419), (457, 26581), (466, 26611), (518, 26755), (519, 26761), (566, 26920), (578, 26947), (581, 26956), (614, 27055), (633, 27118), (636, 27130), (704, 27364), (707, 27370), (714, 27397), (726, 27427), (782, 27622), (790, 27655),

Gene: NatB6_43 Start: 32659, Stop: 35025, Start Num: 66
Candidate Starts for NatB6_43:
(Start: 66 @32659 has 26 MA's), (115, 32788), (206, 33127), (207, 33130), (282, 33367), (292, 33406), (296, 33421), (319, 33505), (320, 33511), (369, 33649), (392, 33742), (398, 33778), (479, 33970), (484, 33994), (494, 34024), (498, 34033), (511, 34078), (564, 34246), (591, 34309), (607, 34354), (615, 34378), (670, 34543), (671, 34546), (678, 34579), (688, 34621), (704, 34672), (721, 34723), (724, 34729), (732, 34750), (735, 34759), (739, 34774), (753, 34819), (802, 35005),

Gene: Neighly_26 Start: 21060, Stop: 23564, Start Num: 68
Candidate Starts for Neighly_26:
(Start: 68 @21060 has 25 MA's), (85, 21108), (89, 21120), (131, 21267), (153, 21336), (176, 21420), (211, 21573), (214, 21597), (223, 21624), (250, 21708), (255, 21717), (260, 21726), (269, 21753), (274, 21774), (282, 21807), (287, 21819), (292, 21846), (325, 21975), (346, 22053), (352, 22074), (367, 22119), (375, 22155), (378, 22167), (385, 22191), (396, 22242), (398, 22254), (417, 22332), (429, 22374), (451, 22437), (460, 22461), (501, 22575), (505, 22590), (512, 22611), (523, 22650), (568, 22791), (601, 22878), (607, 22887), (624, 22944), (635, 22980), (647, 23013), (650, 23034), (683, 23145), (685, 23148), (690, 23172), (700, 23196), (701, 23202), (702, 23205), (710, 23232), (717, 23253), (726, 23271), (741, 23322), (768, 23403), (800, 23550),

Gene: Nibb_26 Start: 20138, Stop: 22591, Start Num: 61
Candidate Starts for Nibb_26:
(Start: 61 @20138 has 98 MA's), (118, 20309), (129, 20366), (133, 20378), (172, 20495), (178, 20519), (182, 20546), (213, 20675), (218, 20708), (259, 20819), (261, 20828), (262, 20837), (268, 20858), (280, 20906), (308, 21008), (349, 21167), (374, 21248), (399, 21350), (479, 21542), (482, 21563), (498, 21605), (511, 21650), (518, 21665), (574, 21848), (599, 21905), (609, 21938), (630, 22007), (638, 22031), (653, 22088), (661, 22103), (682, 22181), (732, 22328), (735, 22337),

Gene: NoShow_21 Start: 18882, Stop: 21146, Start Num: 121
Candidate Starts for NoShow_21:
(Start: 121 @18882 has 1 MA's), (152, 19005), (155, 19014), (180, 19098), (183, 19122), (185, 19131), (203, 19209), (226, 19311), (257, 19398), (280, 19488), (301, 19545), (308, 19563), (310, 19569), (314, 19584), (317, 19599), (319, 19608), (374, 19800), (403, 19908), (478, 20088), (481, 20109), (484, 20118), (503, 20175), (506, 20187), (518, 20217), (529, 20271), (543, 20304), (556, 20346), (564, 20364), (603, 20469), (616, 20499), (656, 20640), (663, 20652), (746, 20943), (796, 21126),

Gene: NovumRegina_43 Start: 32989, Stop: 35355, Start Num: 66
Candidate Starts for NovumRegina_43:
(Start: 66 @32989 has 26 MA's), (115, 33118), (206, 33457), (207, 33460), (282, 33697), (292, 33736), (296, 33751), (319, 33835), (320, 33841), (369, 33979), (392, 34072), (398, 34108), (479, 34300), (484, 34324), (494, 34354), (498, 34363), (511, 34408), (564, 34576), (591, 34639), (607, 34684), (615, 34708), (670, 34873), (671, 34876), (678, 34909), (688, 34951), (704, 35002), (721, 35053), (724, 35059), (732, 35080), (735, 35089), (739, 35104), (753, 35149), (802, 35335),

Gene: Nyceirae_30 Start: 24275, Stop: 26842, Start Num: 13
Candidate Starts for Nyceirae_30:
(Start: 13 @24275 has 4 MA's), (40, 24389), (42, 24398), (56, 24440), (140, 24701), (189, 24875), (206, 24950), (218, 25010), (229, 25046), (248, 25097), (274, 25172), (280, 25193), (282, 25199), (289, 25223), (292, 25238), (297, 25256), (303, 25280), (320, 25346), (337, 25394), (341, 25415),

(372, 25508), (376, 25529), (463, 25763), (472, 25778), (495, 25859), (497, 25862), (502, 25871), (515, 25913), (537, 26003), (540, 26015), (559, 26060), (564, 26072), (567, 26090), (618, 26222), (637, 26288), (655, 26336), (670, 26369), (681, 26414), (683, 26429), (689, 26450), (718, 26525), (767, 26660), (778, 26702), (793, 26777),

Gene: OhShagHennessy_20 Start: 18962, Stop: 21643, Start Num: 50
Candidate Starts for OhShagHennessy_20:
(Start: 50 @18962 has 19 MA's), (51, 18968), (112, 19145), (127, 19175), (137, 19238), (165, 19313), (193, 19427), (195, 19433), (207, 19499), (222, 19562), (230, 19595), (231, 19598), (241, 19622), (255, 19646), (258, 19652), (263, 19658), (277, 19706), (283, 19727), (288, 19742), (293, 19763), (302, 19802), (306, 19814), (313, 19832), (333, 19907), (343, 19937), (351, 19961), (353, 19964), (367, 20009), (382, 20060), (386, 20078), (398, 20132), (417, 20204), (421, 20216), (424, 20225), (428, 20243), (438, 20267), (447, 20297), (460, 20333), (473, 20366), (476, 20372), (492, 20438), (516, 20504), (525, 20543), (550, 20624), (563, 20660), (565, 20666), (600, 20771), (604, 20780), (608, 20795), (612, 20813), (625, 20855), (649, 20951), (672, 21011), (673, 21017), (674, 21029), (705, 21140), (714, 21170), (716, 21176), (747, 21272), (748, 21278), (758, 21302), (761, 21308), (763, 21314), (774, 21359), (776, 21368), (777, 21377), (787, 21416), (793, 21452), (796, 21461), (798, 21476), (809, 21572), (811, 21623), (812, 21629),

Gene: OkiRoe_25 Start: 21161, Stop: 23659, Start Num: 68
Candidate Starts for OkiRoe_25:
(Start: 68 @21161 has 25 MA's), (89, 21221), (94, 21230), (131, 21371), (153, 21440), (176, 21524), (211, 21677), (214, 21701), (223, 21728), (234, 21770), (241, 21797), (248, 21809), (250, 21812), (255, 21821), (260, 21830), (269, 21857), (276, 21890), (292, 21950), (307, 22001), (325, 22079), (346, 22157), (352, 22178), (361, 22214), (367, 22223), (375, 22259), (383, 22292), (385, 22295), (390, 22316), (396, 22346), (398, 22358), (442, 22517), (462, 22577), (465, 22586), (475, 22601), (481, 22622), (505, 22694), (509, 22709), (521, 22739), (522, 22742), (532, 22781), (542, 22808), (558, 22856), (568, 22886), (569, 22889), (575, 22901), (580, 22913), (601, 22970), (611, 22991), (613, 23003), (627, 23051), (635, 23078), (662, 23156), (665, 23159), (682, 23234), (685, 23246), (698, 23288), (700, 23291), (706, 23303), (772, 23504), (776, 23528), (777, 23537), (781, 23552), (800, 23645), (801, 23648),

Gene: Omnicron_26 Start: 19980, Stop: 22484, Start Num: 68
Candidate Starts for Omnicron_26:
(Start: 68 @19980 has 25 MA's), (85, 20028), (89, 20040), (131, 20187), (153, 20256), (159, 20268), (211, 20493), (214, 20517), (216, 20523), (224, 20547), (232, 20580), (241, 20613), (250, 20628), (255, 20637), (260, 20646), (269, 20673), (274, 20694), (282, 20727), (287, 20739), (292, 20766), (300, 20802), (325, 20895), (346, 20973), (352, 20994), (361, 21030), (367, 21039), (375, 21075), (378, 21087), (383, 21108), (385, 21111), (390, 21132), (396, 21162), (398, 21174), (429, 21294), (431, 21300), (438, 21315), (451, 21357), (460, 21381), (481, 21438), (501, 21495), (505, 21510), (512, 21531), (516, 21540), (527, 21588), (542, 21633), (560, 21684), (568, 21711), (601, 21798), (635, 21900), (647, 21933), (650, 21954), (657, 21969), (666, 21990), (678, 22038), (683, 22065), (685, 22068), (690, 22092), (700, 22116), (701, 22122), (702, 22125), (703, 22128), (726, 22191), (741, 22242), (800, 22470),

Gene: Opia_32 Start: 29961, Stop: 32681, Start Num: 44
Candidate Starts for Opia_32:
(Start: 44 @29961 has 36 MA's), (60, 30015), (74, 30054), (90, 30099), (99, 30123), (100, 30126), (113, 30159), (144, 30267), (154, 30288), (156, 30291), (175, 30345), (190, 30405), (195, 30429), (197, 30465), (207, 30513), (212, 30534), (219, 30573), (231, 30612), (237, 30627), (264, 30681), (267, 30693), (274, 30717), (281, 30741), (286, 30753), (290, 30768), (292, 30783), (303, 30825), (309, 30843), (318, 30882), (324, 30906), (375, 31077), (396, 31155), (410, 31215), (421, 31251), (422, 31254), (447, 31332), (460, 31368), (467, 31392), (477, 31413), (525, 31584), (526, 31590),

(563, 31701), (570, 31728), (594, 31791), (597, 31797), (600, 31812), (612, 31854), (637, 31941), (644, 31968), (651, 31998), (660, 32016), (667, 32037), (669, 32046), (672, 32052), (673, 32058), (674, 32070), (703, 32175), (708, 32193), (719, 32226), (747, 32313), (758, 32343), (761, 32349), (776, 32409), (796, 32502), (798, 32517), (808, 32559), (813, 32673),

Gene: Oscar_26 Start: 20113, Stop: 22572, Start Num: 61
Candidate Starts for Oscar_26:
(Start: 61 @20113 has 98 MA's), (76, 20161), (118, 20284), (129, 20341), (133, 20353), (166, 20446), (172, 20470), (182, 20521), (218, 20683), (259, 20794), (268, 20833), (274, 20857), (308, 20980), (326, 21052), (349, 21139), (372, 21205), (374, 21220), (399, 21322), (416, 21376), (436, 21436), (479, 21514), (480, 21526), (482, 21535), (498, 21577), (511, 21622), (518, 21637), (541, 21724), (551, 21748), (574, 21820), (599, 21877), (630, 21988), (638, 22012), (643, 22033), (661, 22084), (695, 22213), (735, 22318), (796, 22543),

Gene: PR_24 Start: 27208, Stop: 29922, Start Num: 45
Candidate Starts for PR_24:
(Start: 45 @27208 has 4 MA's), (65, 27277), (79, 27310), (87, 27331), (110, 27388), (123, 27418), (128, 27436), (154, 27529), (156, 27532), (175, 27586), (176, 27592), (195, 27670), (197, 27706), (203, 27727), (212, 27775), (219, 27814), (237, 27868), (264, 27922), (267, 27934), (274, 27958), (281, 27982), (282, 27985), (292, 28024), (303, 28066), (324, 28147), (329, 28162), (338, 28192), (368, 28285), (375, 28318), (393, 28375), (395, 28387), (396, 28396), (410, 28456), (421, 28492), (422, 28495), (447, 28573), (460, 28609), (471, 28639), (477, 28654), (507, 28762), (522, 28810), (523, 28816), (525, 28825), (526, 28831), (563, 28942), (570, 28969), (594, 29032), (597, 29038), (600, 29053), (612, 29095), (651, 29239), (660, 29257), (673, 29299), (674, 29311), (703, 29416), (708, 29434), (719, 29467), (747, 29554), (758, 29584), (761, 29590), (766, 29611), (776, 29650), (779, 29668), (796, 29743), (800, 29764), (808, 29800), (813, 29914),

Gene: PYPDinur_20 Start: 18813, Stop: 21416, Start Num: 31
Candidate Starts for PYPDinur_20:
(Start: 31 @18813 has 6 MA's), (33, 18819), (37, 18840), (56, 18918), (98, 19038), (111, 19077), (168, 19278), (169, 19284), (178, 19317), (179, 19320), (217, 19500), (220, 19509), (226, 19524), (232, 19542), (240, 19572), (270, 19626), (274, 19644), (284, 19674), (308, 19764), (311, 19773), (312, 19776), (321, 19818), (334, 19866), (363, 19959), (372, 19980), (377, 20004), (387, 20028), (397, 20073), (407, 20115), (439, 20226), (446, 20247), (449, 20256), (457, 20274), (485, 20346), (519, 20448), (531, 20499), (534, 20505), (548, 20547), (551, 20559), (565, 20598), (581, 20646), (588, 20664), (590, 20670), (629, 20796), (631, 20805), (654, 20886), (714, 21087), (725, 21114), (730, 21129), (754, 21213), (782, 21312),

Gene: Padfoot_27 Start: 20912, Stop: 23344, Start Num: 61
Candidate Starts for Padfoot_27:
(Start: 61 @20912 has 98 MA's), (95, 21011), (173, 21272), (178, 21293), (226, 21500), (235, 21533), (243, 21563), (274, 21635), (280, 21659), (333, 21857), (345, 21902), (348, 21914), (351, 21923), (370, 21974), (416, 22154), (421, 22169), (443, 22238), (450, 22250), (482, 22313), (498, 22355), (511, 22394), (515, 22400), (518, 22409), (522, 22430), (538, 22490), (583, 22607), (599, 22649), (621, 22721), (625, 22730), (630, 22751), (650, 22823), (659, 22844), (686, 22940), (734, 23087), (760, 23168), (796, 23315),

Gene: Padpat_27 Start: 20872, Stop: 23304, Start Num: 61
Candidate Starts for Padpat_27:
(Start: 61 @20872 has 98 MA's), (95, 20971), (173, 21232), (178, 21253), (226, 21460), (235, 21493), (243, 21523), (274, 21595), (280, 21619), (292, 21664), (333, 21817), (345, 21862), (348, 21874), (351, 21883), (370, 21934), (416, 22114), (421, 22129), (443, 22198), (450, 22210), (482, 22273), (498, 22315), (511, 22354), (515, 22360), (518, 22369), (522, 22390), (538, 22450), (583, 22567),

(599, 22609), (621, 22681), (625, 22690), (630, 22711), (650, 22783), (659, 22804), (686, 22900), (705, 22963), (760, 23128), (796, 23275),

Gene: Paola_25 Start: 21160, Stop: 23658, Start Num: 68
Candidate Starts for Paola_25:
(Start: 68 @21160 has 25 MA's), (89, 21220), (94, 21229), (131, 21370), (153, 21439), (176, 21523), (211, 21676), (214, 21700), (223, 21727), (234, 21769), (241, 21796), (248, 21808), (250, 21811), (255, 21820), (260, 21829), (269, 21856), (276, 21889), (282, 21910), (292, 21949), (307, 22000), (325, 22078), (346, 22156), (361, 22213), (367, 22222), (375, 22258), (383, 22291), (385, 22294), (390, 22315), (396, 22345), (398, 22357), (442, 22516), (462, 22576), (465, 22585), (475, 22600), (481, 22621), (505, 22693), (509, 22708), (521, 22738), (522, 22741), (527, 22765), (532, 22780), (542, 22807), (558, 22855), (568, 22885), (569, 22888), (575, 22900), (580, 22912), (601, 22969), (611, 22990), (613, 23002), (627, 23050), (635, 23077), (662, 23155), (665, 23158), (682, 23233), (685, 23245), (698, 23287), (700, 23290), (706, 23302), (772, 23503), (776, 23527), (777, 23536), (781, 23551), (800, 23644), (801, 23647),

Gene: Patience_37 Start: 29291, Stop: 32593, Start Num: 3
Candidate Starts for Patience_37:
(Start: 3 @29291 has 3 MA's), (Start: 4 @29303 has 1 MA's), (7, 29432), (8, 29441), (9, 29453), (22, 29627), (40, 29711), (80, 29855), (84, 29864), (100, 29906), (111, 29939), (117, 29966), (122, 29978), (181, 30194), (188, 30251), (192, 30272), (210, 30377), (215, 30413), (266, 30551), (282, 30620), (289, 30644), (320, 30770), (324, 30785), (331, 30812), (337, 30833), (339, 30848), (342, 30857), (421, 31163), (422, 31166), (426, 31187), (447, 31244), (460, 31280), (467, 31304), (471, 31310), (507, 31433), (525, 31496), (549, 31571), (563, 31613), (612, 31766), (624, 31805), (651, 31910), (660, 31928), (669, 31958), (673, 31970), (674, 31982), (732, 32171), (761, 32261), (776, 32321), (777, 32330), (798, 32429), (811, 32576), (812, 32582), (813, 32585),

Gene: Peel_27 Start: 20912, Stop: 23344, Start Num: 61
Candidate Starts for Peel_27:
(Start: 61 @20912 has 98 MA's), (95, 21011), (173, 21272), (178, 21293), (226, 21500), (235, 21533), (243, 21563), (274, 21635), (280, 21659), (333, 21857), (345, 21902), (348, 21914), (351, 21923), (370, 21974), (416, 22154), (421, 22169), (443, 22238), (450, 22250), (482, 22313), (498, 22355), (511, 22394), (515, 22400), (518, 22409), (522, 22430), (538, 22490), (583, 22607), (599, 22649), (621, 22721), (625, 22730), (630, 22751), (650, 22823), (659, 22844), (686, 22940), (734, 23087), (760, 23168), (796, 23315),

Gene: Pemberton_46 Start: 30659, Stop: 33034, Start Num: 66
Candidate Starts for Pemberton_46:
(Start: 66 @30659 has 26 MA's), (206, 31127), (218, 31187), (232, 31229), (235, 31238), (252, 31280), (274, 31340), (282, 31367), (319, 31505), (320, 31511), (347, 31589), (369, 31649), (373, 31673), (389, 31736), (398, 31778), (443, 31910), (455, 31931), (487, 32000), (494, 32024), (498, 32033), (511, 32075), (532, 32156), (539, 32177), (542, 32183), (555, 32225), (589, 32306), (615, 32381), (687, 32621), (688, 32624), (713, 32702), (722, 32726), (735, 32759), (764, 32843), (778, 32900), (785, 32933),

Gene: Phantasmagoria_32 Start: 29972, Stop: 32692, Start Num: 44
Candidate Starts for Phantasmagoria_32:
(Start: 44 @29972 has 36 MA's), (60, 30026), (74, 30065), (90, 30110), (99, 30134), (100, 30137), (113, 30170), (144, 30278), (154, 30299), (156, 30302), (175, 30356), (190, 30416), (195, 30440), (197, 30476), (207, 30524), (212, 30545), (219, 30584), (231, 30623), (237, 30638), (264, 30692), (267, 30704), (274, 30728), (281, 30752), (286, 30764), (290, 30779), (292, 30794), (303, 30836), (309, 30854), (318, 30893), (324, 30917), (375, 31088), (396, 31166), (410, 31226), (421, 31262), (422, 31265), (447, 31343), (460, 31379), (467, 31403), (477, 31424), (525, 31595), (526, 31601),

(563, 31712), (570, 31739), (594, 31802), (597, 31808), (600, 31823), (612, 31865), (637, 31952), (644, 31979), (651, 32009), (660, 32027), (667, 32048), (669, 32057), (672, 32063), (673, 32069), (674, 32081), (703, 32186), (708, 32204), (719, 32237), (747, 32324), (758, 32354), (761, 32360), (776, 32420), (796, 32513), (798, 32528), (808, 32570), (813, 32684),

Gene: Phishy_29 Start: 24193, Stop: 26796, Start Num: 13
Candidate Starts for Phishy_29:
(Start: 13 @24193 has 4 MA's), (40, 24307), (42, 24316), (140, 24619), (168, 24700), (189, 24793), (206, 24868), (218, 24928), (229, 24964), (234, 24976), (246, 25012), (248, 25015), (266, 25054), (274, 25090), (280, 25111), (282, 25117), (289, 25141), (292, 25156), (297, 25174), (303, 25198), (337, 25312), (341, 25333), (372, 25426), (376, 25447), (413, 25591), (444, 25693), (463, 25717), (468, 25726), (472, 25732), (495, 25813), (497, 25816), (502, 25825), (506, 25846), (515, 25867), (537, 25957), (540, 25969), (559, 26014), (564, 26026), (618, 26176), (637, 26242), (670, 26323), (681, 26368), (683, 26383), (689, 26404), (765, 26608), (767, 26614), (793, 26731), (805, 26782), (806, 26785),

Gene: Phomeo_42 Start: 33258, Stop: 35624, Start Num: 66
Candidate Starts for Phomeo_42:
(Start: 66 @33258 has 26 MA's), (79, 33300), (115, 33387), (206, 33726), (282, 33966), (292, 34005), (296, 34020), (319, 34104), (320, 34110), (369, 34248), (392, 34341), (398, 34377), (479, 34569), (484, 34593), (494, 34623), (498, 34632), (511, 34677), (564, 34845), (591, 34908), (607, 34953), (615, 34977), (670, 35142), (671, 35145), (678, 35178), (688, 35220), (704, 35271), (721, 35322), (724, 35328), (732, 35349), (735, 35358), (739, 35373), (753, 35418), (802, 35604),

Gene: Phrann_20 Start: 17560, Stop: 20412, Start Num: 19
Candidate Starts for Phrann_20:
(Start: 16 @17548 has 2 MA's), (Start: 19 @17560 has 2 MA's), (25, 17572), (47, 17683), (56, 17707), (58, 17710), (59, 17719), (106, 17857), (120, 17899), (122, 17902), (140, 17992), (145, 18004), (153, 18025), (162, 18049), (182, 18124), (196, 18196), (204, 18226), (212, 18262), (228, 18325), (231, 18340), (244, 18373), (274, 18448), (280, 18472), (282, 18478), (296, 18532), (298, 18538), (321, 18625), (327, 18646), (333, 18670), (355, 18736), (360, 18757), (368, 18775), (375, 18808), (385, 18835), (396, 18886), (406, 18922), (410, 18946), (421, 18982), (424, 18991), (426, 19006), (438, 19033), (447, 19063), (460, 19099), (467, 19123), (500, 19222), (511, 19261), (522, 19300), (526, 19321), (563, 19432), (570, 19459), (582, 19489), (589, 19510), (594, 19522), (597, 19528), (612, 19585), (624, 19624), (651, 19729), (660, 19747), (673, 19789), (674, 19801), (719, 19957), (747, 20044), (758, 20074), (761, 20080), (776, 20140), (779, 20158), (796, 20233), (800, 20254), (808, 20290), (813, 20404),

Gene: Piatt_27 Start: 20912, Stop: 23344, Start Num: 61
Candidate Starts for Piatt_27:
(Start: 61 @20912 has 98 MA's), (95, 21011), (173, 21272), (178, 21293), (226, 21500), (235, 21533), (243, 21563), (274, 21635), (280, 21659), (333, 21857), (345, 21902), (348, 21914), (351, 21923), (370, 21974), (416, 22154), (421, 22169), (443, 22238), (450, 22250), (482, 22313), (498, 22355), (511, 22394), (515, 22400), (518, 22409), (522, 22430), (538, 22490), (583, 22607), (599, 22649), (621, 22721), (625, 22730), (630, 22751), (650, 22823), (659, 22844), (686, 22940), (734, 23087), (760, 23168), (796, 23315),

Gene: Pimento_26 Start: 20304, Stop: 22793, Start Num: 38
Candidate Starts for Pimento_26:
(Start: 38 @20304 has 2 MA's), (78, 20436), (86, 20451), (102, 20496), (109, 20514), (153, 20679), (169, 20733), (171, 20742), (178, 20769), (189, 20820), (191, 20826), (229, 20991), (235, 21006), (248, 21042), (250, 21045), (274, 21117), (278, 21129), (280, 21138), (282, 21144), (287, 21156), (289, 21168), (292, 21183), (298, 21204), (308, 21240), (336, 21336), (337, 21339), (341, 21360),

(372, 21453), (378, 21483), (394, 21543), (395, 21549), (398, 21570), (404, 21585), (463, 21702), (472, 21717), (495, 21798), (497, 21801), (515, 21852), (529, 21921), (531, 21924), (537, 21942), (540, 21954), (550, 21969), (564, 22011), (567, 22029), (589, 22077), (618, 22161), (637, 22227), (681, 22353), (718, 22464), (771, 22614), (784, 22677), (792, 22710), (807, 22782),

Gene: Pippy_18 Start: 17389, Stop: 20253, Start Num: 17
Candidate Starts for Pippy_18:
(15, 17377), (Start: 17 @17389 has 10 MA's), (25, 17410), (30, 17431), (37, 17470), (52, 17539), (56, 17548), (58, 17551), (75, 17602), (106, 17692), (122, 17737), (140, 17827), (143, 17836), (145, 17839), (153, 17860), (159, 17872), (170, 17905), (198, 18040), (209, 18088), (212, 18103), (215, 18124), (228, 18166), (231, 18181), (236, 18190), (244, 18217), (248, 18223), (268, 18268), (271, 18277), (274, 18292), (280, 18313), (282, 18319), (286, 18328), (291, 18355), (296, 18373), (321, 18466), (327, 18487), (333, 18511), (355, 18577), (360, 18598), (368, 18616), (375, 18649), (383, 18673), (385, 18676), (396, 18727), (406, 18763), (410, 18787), (421, 18823), (424, 18832), (426, 18847), (438, 18874), (447, 18904), (460, 18940), (467, 18964), (500, 19063), (511, 19102), (525, 19156), (563, 19273), (570, 19300), (594, 19363), (597, 19369), (600, 19384), (612, 19426), (637, 19513), (644, 19540), (651, 19570), (660, 19588), (669, 19618), (673, 19630), (674, 19642), (703, 19747), (708, 19765), (719, 19798), (747, 19885), (758, 19915), (761, 19921), (776, 19981), (777, 19990), (779, 19999), (796, 20074), (800, 20095), (808, 20131), (813, 20245),

Gene: Pisa1_26 Start: 20946, Stop: 23378, Start Num: 61
Candidate Starts for Pisa1_26:
(Start: 61 @20946 has 98 MA's), (77, 20997), (80, 21006), (173, 21306), (178, 21327), (234, 21564), (235, 21567), (243, 21597), (245, 21600), (274, 21669), (280, 21693), (282, 21699), (292, 21738), (301, 21777), (333, 21891), (345, 21936), (348, 21948), (351, 21957), (370, 22008), (416, 22188), (421, 22203), (443, 22272), (482, 22347), (498, 22389), (511, 22428), (515, 22434), (518, 22443), (522, 22464), (538, 22524), (555, 22572), (583, 22641), (599, 22683), (625, 22764), (641, 22821), (650, 22857), (659, 22878), (686, 22974), (705, 23037), (721, 23085), (760, 23202), (780, 23277),

Gene: Pisa4_26 Start: 20946, Stop: 23378, Start Num: 61
Candidate Starts for Pisa4_26:
(Start: 61 @20946 has 98 MA's), (77, 20997), (80, 21006), (173, 21306), (178, 21327), (234, 21564), (235, 21567), (243, 21597), (245, 21600), (274, 21669), (280, 21693), (282, 21699), (292, 21738), (301, 21777), (333, 21891), (345, 21936), (348, 21948), (351, 21957), (370, 22008), (416, 22188), (421, 22203), (443, 22272), (482, 22347), (498, 22389), (511, 22428), (515, 22434), (518, 22443), (522, 22464), (538, 22524), (555, 22572), (583, 22641), (599, 22683), (625, 22764), (641, 22821), (650, 22857), (659, 22878), (686, 22974), (705, 23037), (721, 23085), (760, 23202), (780, 23277),

Gene: Pokerus_26 Start: 20829, Stop: 23261, Start Num: 61
Candidate Starts for Pokerus_26:
(Start: 61 @20829 has 98 MA's), (95, 20928), (173, 21189), (178, 21210), (226, 21417), (235, 21450), (243, 21480), (274, 21552), (280, 21576), (333, 21774), (345, 21819), (348, 21831), (351, 21840), (370, 21891), (416, 22071), (421, 22086), (443, 22155), (450, 22167), (482, 22230), (498, 22272), (511, 22311), (515, 22317), (518, 22326), (522, 22347), (538, 22407), (583, 22524), (599, 22566), (621, 22638), (625, 22647), (630, 22668), (650, 22740), (659, 22761), (686, 22857), (734, 23004), (760, 23085), (796, 23232),

Gene: Poochiewood_20 Start: 18997, Stop: 21678, Start Num: 50
Candidate Starts for Poochiewood_20:
(Start: 50 @18997 has 19 MA's), (51, 19003), (112, 19180), (127, 19210), (137, 19273), (165, 19348), (181, 19402), (193, 19462), (195, 19468), (207, 19534), (222, 19597), (230, 19630), (231, 19633), (241, 19657), (258, 19687), (263, 19693), (277, 19741), (283, 19762), (288, 19777), (293, 19798), (302, 19837), (306, 19849), (313, 19867), (328, 19924), (333, 19942), (343, 19972), (351, 19996),

(353, 19999), (367, 20044), (382, 20095), (386, 20113), (398, 20167), (417, 20239), (421, 20251), (424, 20260), (438, 20302), (447, 20332), (460, 20368), (464, 20386), (473, 20401), (476, 20407), (483, 20440), (523, 20569), (525, 20578), (550, 20659), (563, 20695), (565, 20701), (600, 20806), (604, 20815), (608, 20830), (612, 20848), (625, 20890), (649, 20986), (651, 20992), (672, 21046), (673, 21052), (674, 21064), (705, 21175), (714, 21205), (716, 21211), (747, 21307), (748, 21313), (758, 21337), (761, 21343), (763, 21349), (774, 21394), (776, 21403), (777, 21412), (787, 21451), (793, 21487), (796, 21496), (798, 21511), (809, 21607), (811, 21658), (812, 21664),

Gene: PrinceCharming_32 Start: 30078, Stop: 32798, Start Num: 44
Candidate Starts for PrinceCharming_32:
(Start: 44 @30078 has 36 MA's), (60, 30132), (74, 30171), (90, 30216), (99, 30240), (100, 30243), (113, 30276), (144, 30384), (154, 30405), (156, 30408), (175, 30462), (190, 30522), (195, 30546), (197, 30582), (207, 30630), (212, 30651), (219, 30690), (231, 30729), (237, 30744), (264, 30798), (267, 30810), (274, 30834), (281, 30858), (286, 30870), (290, 30885), (292, 30900), (303, 30942), (309, 30960), (318, 30999), (324, 31023), (375, 31194), (396, 31272), (410, 31332), (421, 31368), (422, 31371), (447, 31449), (460, 31485), (467, 31509), (500, 31608), (511, 31647), (525, 31701), (563, 31818), (570, 31845), (594, 31908), (597, 31914), (600, 31929), (612, 31971), (637, 32058), (644, 32085), (651, 32115), (660, 32133), (667, 32154), (669, 32163), (672, 32169), (673, 32175), (674, 32187), (703, 32292), (708, 32310), (719, 32343), (747, 32430), (758, 32460), (761, 32466), (776, 32526), (796, 32619), (798, 32634), (808, 32676), (813, 32790),

Gene: Prithvi_27 Start: 20846, Stop: 23278, Start Num: 61
Candidate Starts for Prithvi_27:
(Start: 61 @20846 has 98 MA's), (95, 20945), (173, 21206), (226, 21434), (235, 21467), (243, 21497), (274, 21569), (280, 21593), (292, 21638), (333, 21791), (345, 21836), (348, 21848), (351, 21857), (362, 21893), (370, 21908), (416, 22088), (421, 22103), (443, 22172), (450, 22184), (482, 22247), (498, 22289), (511, 22328), (515, 22334), (518, 22343), (522, 22364), (538, 22424), (583, 22541), (599, 22583), (621, 22655), (625, 22664), (630, 22685), (650, 22757), (659, 22778), (686, 22874), (760, 23102), (796, 23249),

Gene: Psycho_26 Start: 21191, Stop: 23695, Start Num: 68
Candidate Starts for Psycho_26:
(Start: 68 @21191 has 25 MA's), (85, 21239), (89, 21251), (131, 21398), (153, 21467), (176, 21551), (211, 21704), (214, 21728), (223, 21755), (250, 21839), (255, 21848), (260, 21857), (269, 21884), (274, 21905), (282, 21938), (287, 21950), (292, 21977), (325, 22106), (346, 22184), (352, 22205), (367, 22250), (375, 22286), (378, 22298), (385, 22322), (396, 22373), (398, 22385), (417, 22463), (429, 22505), (451, 22568), (460, 22592), (501, 22706), (505, 22721), (512, 22742), (523, 22781), (568, 22922), (601, 23009), (607, 23018), (624, 23075), (635, 23111), (647, 23144), (650, 23165), (683, 23276), (685, 23279), (690, 23303), (700, 23327), (701, 23333), (702, 23336), (710, 23363), (717, 23384), (726, 23402), (741, 23453), (768, 23534), (800, 23681),

Gene: Quby_20 Start: 18821, Stop: 21457, Start Num: 31
Candidate Starts for Quby_20:
(Start: 31 @18821 has 6 MA's), (33, 18827), (37, 18848), (56, 18926), (98, 19046), (111, 19085), (157, 19247), (168, 19286), (169, 19292), (176, 19322), (184, 19358), (194, 19394), (206, 19454), (216, 19505), (218, 19517), (232, 19565), (242, 19601), (273, 19679), (285, 19715), (287, 19721), (300, 19784), (308, 19802), (312, 19814), (321, 19856), (334, 19904), (372, 20018), (377, 20042), (400, 20120), (407, 20153), (411, 20174), (412, 20177), (430, 20240), (449, 20294), (456, 20309), (497, 20423), (515, 20477), (519, 20492), (520, 20498), (548, 20594), (552, 20606), (561, 20627), (565, 20639), (566, 20651), (578, 20678), (581, 20687), (594, 20723), (597, 20729), (598, 20732), (628, 20837), (632, 20849), (636, 20861), (637, 20864), (654, 20927), (658, 20936), (672, 20972), (712, 21122), (714, 21128), (726, 21158), (731, 21176), (747, 21233), (754, 21254), (755, 21257), (759, 21266), (770, 21299), (782, 21353),

Gene: QuincyRose_26 Start: 20892, Stop: 23324, Start Num: 61
Candidate Starts for QuincyRose_26:
(Start: 61 @20892 has 98 MA's), (95, 20991), (173, 21252), (178, 21273), (226, 21480), (235, 21513), (243, 21543), (274, 21615), (280, 21639), (292, 21684), (333, 21837), (345, 21882), (348, 21894), (351, 21903), (370, 21954), (416, 22134), (421, 22149), (443, 22218), (450, 22230), (482, 22293), (498, 22335), (511, 22374), (515, 22380), (518, 22389), (522, 22410), (538, 22470), (583, 22587), (599, 22629), (621, 22701), (625, 22710), (630, 22731), (650, 22803), (659, 22824), (686, 22920), (705, 22983), (734, 23067), (744, 23109), (760, 23148),

Gene: Qyrzula_30 Start: 30056, Stop: 32776, Start Num: 44
Candidate Starts for Qyrzula_30:
(Start: 44 @30056 has 36 MA's), (60, 30110), (74, 30149), (90, 30194), (99, 30218), (100, 30221), (113, 30254), (144, 30362), (154, 30383), (156, 30386), (175, 30440), (190, 30500), (195, 30524), (197, 30560), (202, 30578), (203, 30581), (207, 30608), (212, 30629), (219, 30668), (231, 30707), (237, 30722), (264, 30776), (267, 30788), (274, 30812), (281, 30836), (286, 30848), (290, 30863), (292, 30878), (303, 30920), (309, 30938), (318, 30977), (324, 31001), (375, 31172), (396, 31250), (410, 31310), (421, 31346), (422, 31349), (447, 31427), (460, 31463), (467, 31487), (500, 31586), (511, 31625), (525, 31679), (563, 31796), (570, 31823), (594, 31886), (597, 31892), (600, 31907), (612, 31949), (637, 32036), (644, 32063), (651, 32093), (660, 32111), (667, 32132), (669, 32141), (672, 32147), (673, 32153), (674, 32165), (703, 32270), (708, 32288), (719, 32321), (747, 32408), (758, 32438), (761, 32444), (776, 32504), (796, 32597), (808, 32654), (813, 32768),

Gene: Ramen_27 Start: 20878, Stop: 23310, Start Num: 61
Candidate Starts for Ramen_27:
(Start: 61 @20878 has 98 MA's), (95, 20977), (173, 21238), (178, 21259), (226, 21466), (235, 21499), (243, 21529), (274, 21601), (280, 21625), (333, 21823), (345, 21868), (348, 21880), (351, 21889), (370, 21940), (416, 22120), (421, 22135), (443, 22204), (450, 22216), (482, 22279), (498, 22321), (511, 22360), (515, 22366), (518, 22375), (522, 22396), (538, 22456), (583, 22573), (599, 22615), (621, 22687), (625, 22696), (630, 22717), (650, 22789), (659, 22810), (686, 22906), (734, 23053), (760, 23134), (796, 23281),

Gene: Rando14_26 Start: 19880, Stop: 22384, Start Num: 68
Candidate Starts for Rando14_26:
(57, 19835), (Start: 68 @19880 has 25 MA's), (85, 19928), (89, 19940), (131, 20087), (153, 20156), (211, 20393), (214, 20417), (216, 20423), (224, 20447), (241, 20513), (250, 20528), (255, 20537), (260, 20546), (269, 20573), (274, 20594), (282, 20627), (292, 20666), (346, 20873), (352, 20894), (361, 20930), (367, 20939), (375, 20975), (383, 21008), (385, 21011), (390, 21032), (396, 21062), (398, 21074), (429, 21194), (431, 21200), (438, 21215), (442, 21230), (448, 21251), (451, 21257), (460, 21281), (481, 21338), (501, 21395), (505, 21410), (512, 21431), (516, 21440), (525, 21479), (527, 21488), (568, 21611), (601, 21698), (635, 21800), (647, 21833), (650, 21854), (657, 21869), (666, 21890), (677, 21932), (678, 21938), (683, 21965), (685, 21968), (690, 21992), (700, 22016), (701, 22022), (702, 22025), (703, 22028), (741, 22142), (747, 22160), (768, 22223), (800, 22370),

Gene: Rapunzel97_27 Start: 20879, Stop: 23311, Start Num: 61
Candidate Starts for Rapunzel97_27:
(Start: 61 @20879 has 98 MA's), (95, 20978), (173, 21239), (178, 21260), (226, 21467), (235, 21500), (243, 21530), (274, 21602), (280, 21626), (292, 21671), (333, 21824), (345, 21869), (348, 21881), (351, 21890), (370, 21941), (416, 22121), (421, 22136), (443, 22205), (450, 22217), (498, 22322), (511, 22361), (515, 22367), (518, 22376), (538, 22457), (555, 22505), (586, 22580), (599, 22616), (625, 22697), (630, 22718), (659, 22811), (686, 22907), (734, 23054), (744, 23096), (760, 23135), (780, 23210),

Gene: RavenCo17_25 Start: 21406, Stop: 23838, Start Num: 66
Candidate Starts for RavenCo17_25:
(14, 21181), (21, 21217), (34, 21274), (35, 21277), (Start: 66 @21406 has 26 MA's), (88, 21472), (103, 21508), (171, 21754), (189, 21832), (218, 21967), (229, 22003), (235, 22018), (248, 22054), (266, 22093), (274, 22129), (282, 22156), (289, 22180), (292, 22195), (297, 22213), (318, 22294), (336, 22348), (337, 22351), (341, 22372), (345, 22381), (372, 22465), (378, 22495), (394, 22555), (395, 22561), (404, 22597), (432, 22696), (472, 22762), (515, 22897), (531, 22969), (537, 22987), (540, 22999), (550, 23014), (564, 23056), (567, 23074), (589, 23122), (618, 23206), (637, 23272), (681, 23398), (718, 23509), (771, 23659), (784, 23722), (792, 23755),

Gene: Raymond7_20 Start: 17560, Stop: 20415, Start Num: 19
Candidate Starts for Raymond7_20:
(Start: 16 @17548 has 2 MA's), (Start: 19 @17560 has 2 MA's), (25, 17572), (47, 17683), (56, 17707), (58, 17710), (59, 17719), (140, 17992), (145, 18004), (153, 18025), (162, 18049), (182, 18124), (196, 18196), (204, 18226), (212, 18262), (228, 18325), (231, 18340), (244, 18373), (274, 18448), (280, 18472), (282, 18478), (287, 18490), (296, 18532), (298, 18538), (321, 18625), (327, 18646), (333, 18670), (355, 18736), (360, 18757), (368, 18775), (375, 18808), (383, 18832), (385, 18835), (396, 18886), (406, 18922), (410, 18946), (421, 18982), (460, 19099), (464, 19117), (465, 19120), (498, 19219), (525, 19318), (526, 19324), (563, 19435), (570, 19462), (594, 19525), (597, 19531), (600, 19546), (612, 19588), (624, 19627), (637, 19675), (644, 19702), (651, 19732), (660, 19750), (669, 19780), (672, 19786), (673, 19792), (674, 19804), (703, 19909), (708, 19927), (719, 19960), (727, 19975), (758, 20077), (761, 20083), (776, 20143), (777, 20152), (779, 20161), (786, 20188), (796, 20236), (798, 20251), (800, 20257), (808, 20293), (813, 20407),

Gene: Rey_34 Start: 25395, Stop: 28076, Start Num: 26
Candidate Starts for Rey_34:
(Start: 26 @25395 has 7 MA's), (48, 25512), (63, 25566), (72, 25596), (73, 25599), (77, 25614), (83, 25632), (105, 25689), (149, 25863), (151, 25866), (169, 25929), (174, 25950), (184, 25995), (187, 26004), (201, 26067), (217, 26148), (218, 26154), (220, 26157), (232, 26190), (247, 26232), (249, 26235), (280, 26319), (282, 26325), (284, 26328), (287, 26337), (303, 26403), (305, 26412), (308, 26418), (311, 26427), (327, 26493), (357, 26592), (358, 26595), (366, 26616), (373, 26646), (377, 26658), (391, 26691), (396, 26721), (401, 26739), (408, 26772), (412, 26793), (441, 26886), (449, 26910), (458, 26928), (460, 26934), (462, 26946), (513, 27090), (520, 27114), (529, 27156), (542, 27192), (554, 27234), (575, 27288), (579, 27297), (598, 27348), (603, 27366), (624, 27435), (626, 27441), (633, 27468), (634, 27471), (750, 27861), (782, 27972),

Gene: Rhinoforte_32 Start: 30081, Stop: 32801, Start Num: 44
Candidate Starts for Rhinoforte_32:
(Start: 44 @30081 has 36 MA's), (60, 30135), (74, 30174), (90, 30219), (99, 30243), (100, 30246), (113, 30279), (144, 30387), (154, 30408), (156, 30411), (175, 30465), (190, 30525), (195, 30549), (197, 30585), (207, 30633), (212, 30654), (219, 30693), (231, 30732), (237, 30747), (264, 30801), (267, 30813), (274, 30837), (281, 30861), (286, 30873), (290, 30888), (292, 30903), (303, 30945), (309, 30963), (318, 31002), (324, 31026), (375, 31197), (396, 31275), (410, 31335), (421, 31371), (422, 31374), (447, 31452), (460, 31488), (467, 31512), (477, 31533), (525, 31704), (526, 31710), (563, 31821), (570, 31848), (594, 31911), (597, 31917), (600, 31932), (612, 31974), (637, 32061), (644, 32088), (651, 32118), (660, 32136), (667, 32157), (669, 32166), (672, 32172), (673, 32178), (674, 32190), (703, 32295), (708, 32313), (719, 32346), (747, 32433), (758, 32463), (761, 32469), (776, 32529), (796, 32622), (798, 32637), (808, 32679), (813, 32793),

Gene: Rose5_20 Start: 18997, Stop: 21678, Start Num: 50
Candidate Starts for Rose5_20:
(Start: 50 @18997 has 19 MA's), (51, 19003), (112, 19180), (127, 19210), (137, 19273), (165, 19348), (181, 19402), (193, 19462), (195, 19468), (207, 19534), (222, 19597), (230, 19630), (231, 19633),

(241, 19657), (258, 19687), (263, 19693), (277, 19741), (283, 19762), (288, 19777), (293, 19798), (302, 19837), (306, 19849), (313, 19867), (328, 19924), (333, 19942), (343, 19972), (351, 19996), (353, 19999), (367, 20044), (382, 20095), (386, 20113), (398, 20167), (417, 20239), (421, 20251), (424, 20260), (438, 20302), (447, 20332), (460, 20368), (464, 20386), (473, 20401), (476, 20407), (483, 20440), (523, 20569), (525, 20578), (550, 20659), (563, 20695), (565, 20701), (600, 20806), (604, 20815), (608, 20830), (612, 20848), (625, 20890), (649, 20986), (651, 20992), (672, 21046), (673, 21052), (674, 21064), (705, 21175), (714, 21205), (716, 21211), (747, 21307), (748, 21313), (758, 21337), (761, 21343), (763, 21349), (774, 21394), (776, 21403), (777, 21412), (787, 21451), (793, 21487), (796, 21496), (798, 21511), (809, 21607), (811, 21658), (812, 21664),

Gene: RoseMarie_31 Start: 26484, Stop: 29183, Start Num: 24
Candidate Starts for RoseMarie_31:
(24, 26484), (48, 26604), (53, 26619), (70, 26682), (73, 26691), (80, 26715), (98, 26760), (101, 26769), (114, 26811), (149, 26955), (157, 26976), (184, 27090), (211, 27207), (247, 27339), (251, 27345), (282, 27435), (286, 27444), (287, 27447), (290, 27459), (307, 27525), (316, 27561), (373, 27756), (377, 27768), (423, 27936), (449, 28020), (456, 28035), (458, 28041), (491, 28137), (515, 28203), (519, 28218), (520, 28224), (531, 28272), (546, 28314), (548, 28320), (566, 28377), (579, 28407), (581, 28413), (593, 28443), (624, 28548), (633, 28575), (636, 28587), (637, 28590), (699, 28806), (713, 28851), (714, 28854), (747, 28959), (752, 28971), (782, 29079), (800, 29166),

Gene: Rosebush_32 Start: 30088, Stop: 32808, Start Num: 44
Candidate Starts for Rosebush_32:
(Start: 44 @30088 has 36 MA's), (60, 30142), (74, 30181), (90, 30226), (99, 30250), (100, 30253), (113, 30286), (144, 30394), (154, 30415), (156, 30418), (175, 30472), (190, 30532), (195, 30556), (197, 30592), (207, 30640), (212, 30661), (219, 30700), (231, 30739), (237, 30754), (264, 30808), (267, 30820), (274, 30844), (281, 30868), (286, 30880), (290, 30895), (292, 30910), (303, 30952), (309, 30970), (318, 31009), (324, 31033), (375, 31204), (396, 31282), (410, 31342), (421, 31378), (422, 31381), (447, 31459), (460, 31495), (467, 31519), (477, 31540), (525, 31711), (526, 31717), (563, 31828), (570, 31855), (594, 31918), (597, 31924), (600, 31939), (612, 31981), (637, 32068), (644, 32095), (651, 32125), (660, 32143), (667, 32164), (669, 32173), (672, 32179), (673, 32185), (674, 32197), (703, 32302), (708, 32320), (719, 32353), (747, 32440), (758, 32470), (761, 32476), (776, 32536), (796, 32629), (798, 32644), (808, 32686), (813, 32800),

Gene: Rosmarinus_27 Start: 20900, Stop: 23332, Start Num: 61
Candidate Starts for Rosmarinus_27:
(Start: 61 @20900 has 98 MA's), (95, 20999), (173, 21260), (178, 21281), (226, 21488), (235, 21521), (243, 21551), (274, 21623), (280, 21647), (333, 21845), (345, 21890), (348, 21902), (351, 21911), (370, 21962), (416, 22142), (421, 22157), (443, 22226), (450, 22238), (482, 22301), (498, 22343), (511, 22382), (515, 22388), (518, 22397), (522, 22418), (538, 22478), (583, 22595), (599, 22637), (621, 22709), (625, 22718), (630, 22739), (650, 22811), (659, 22832), (686, 22928), (734, 23075), (760, 23156), (796, 23303),

Gene: Sabella_32 Start: 29965, Stop: 32685, Start Num: 44
Candidate Starts for Sabella_32:
(Start: 44 @29965 has 36 MA's), (60, 30019), (74, 30058), (90, 30103), (99, 30127), (100, 30130), (113, 30163), (144, 30271), (154, 30292), (156, 30295), (175, 30349), (190, 30409), (195, 30433), (197, 30469), (202, 30487), (203, 30490), (207, 30517), (212, 30538), (219, 30577), (237, 30631), (264, 30685), (267, 30697), (274, 30721), (281, 30745), (286, 30757), (290, 30772), (292, 30787), (303, 30829), (309, 30847), (318, 30886), (324, 30910), (375, 31081), (396, 31159), (410, 31219), (421, 31255), (422, 31258), (447, 31336), (460, 31372), (467, 31396), (477, 31417), (525, 31588), (526, 31594), (563, 31705), (570, 31732), (594, 31795), (597, 31801), (600, 31816), (612, 31858), (637, 31945), (644, 31972), (651, 32002), (660, 32020), (667, 32041), (669, 32050), (672, 32056), (673, 32062), (674, 32074), (703, 32179), (708, 32197), (719, 32230), (747, 32317), (758, 32347),

(761, 32353), (776, 32413), (796, 32506), (798, 32521), (808, 32563), (813, 32677),

Gene: SamScheppers_26 Start: 21811, Stop: 24555, Start Num: 41
Candidate Starts for SamScheppers_26:
(Start: 41 @21811 has 3 MA's), (69, 21901), (77, 21922), (90, 21946), (92, 21952), (99, 21970), (122, 22036), (140, 22126), (143, 22135), (145, 22138), (153, 22159), (159, 22171), (170, 22204), (198, 22339), (209, 22387), (212, 22402), (215, 22423), (221, 22441), (228, 22465), (231, 22480), (236, 22489), (244, 22516), (248, 22522), (268, 22567), (274, 22591), (278, 22603), (280, 22612), (282, 22618), (286, 22627), (291, 22654), (296, 22672), (321, 22765), (324, 22777), (327, 22786), (355, 22876), (360, 22897), (368, 22915), (375, 22948), (385, 22975), (396, 23026), (406, 23062), (410, 23086), (421, 23122), (424, 23131), (426, 23146), (438, 23173), (447, 23203), (460, 23239), (464, 23257), (465, 23260), (471, 23269), (518, 23419), (525, 23458), (563, 23575), (570, 23602), (594, 23665), (597, 23671), (600, 23686), (612, 23728), (637, 23815), (644, 23842), (651, 23872), (660, 23890), (669, 23920), (673, 23932), (674, 23944), (704, 24052), (708, 24067), (719, 24100), (729, 24121), (747, 24187), (758, 24217), (761, 24223), (776, 24283), (779, 24301), (796, 24376), (800, 24397), (808, 24433), (813, 24547),

Gene: SamuelLPlaqson_27 Start: 20840, Stop: 23272, Start Num: 61
Candidate Starts for SamuelLPlaqson_27:
(55, 20822), (Start: 61 @20840 has 98 MA's), (76, 20888), (95, 20939), (173, 21200), (178, 21221), (234, 21458), (235, 21461), (243, 21491), (245, 21494), (274, 21563), (280, 21587), (282, 21593), (285, 21599), (292, 21632), (333, 21785), (348, 21842), (351, 21851), (370, 21902), (416, 22082), (421, 22097), (443, 22166), (450, 22178), (478, 22214), (482, 22241), (498, 22283), (511, 22322), (515, 22328), (518, 22337), (522, 22358), (538, 22418), (553, 22451), (556, 22469), (583, 22535), (599, 22577), (621, 22649), (625, 22658), (630, 22679), (650, 22751), (686, 22868), (734, 23015), (760, 23096), (780, 23171), (796, 23243),

Gene: Sarma624_19 Start: 17226, Stop: 20090, Start Num: 17
Candidate Starts for Sarma624_19:
(Start: 17 @17226 has 10 MA's), (25, 17247), (30, 17268), (37, 17307), (52, 17376), (56, 17385), (58, 17388), (75, 17439), (106, 17529), (124, 17580), (140, 17664), (145, 17676), (153, 17697), (164, 17730), (198, 17877), (212, 17940), (221, 17979), (228, 18003), (231, 18018), (236, 18027), (244, 18054), (248, 18060), (274, 18129), (280, 18150), (282, 18156), (291, 18192), (296, 18210), (321, 18303), (327, 18324), (333, 18348), (355, 18414), (360, 18435), (368, 18453), (375, 18486), (385, 18513), (396, 18564), (406, 18600), (410, 18624), (421, 18660), (424, 18669), (426, 18684), (438, 18711), (447, 18741), (460, 18777), (467, 18801), (500, 18900), (511, 18939), (522, 18978), (526, 18999), (563, 19110), (570, 19137), (582, 19167), (589, 19188), (594, 19200), (597, 19206), (612, 19263), (651, 19407), (660, 19425), (673, 19467), (674, 19479), (719, 19635), (747, 19722), (758, 19752), (761, 19758), (776, 19818), (779, 19836), (796, 19911), (800, 19932), (808, 19968), (813, 20082),

Gene: Scarlett_26 Start: 20115, Stop: 22574, Start Num: 61
Candidate Starts for Scarlett_26:
(Start: 61 @20115 has 98 MA's), (76, 20163), (118, 20286), (129, 20343), (133, 20355), (166, 20448), (172, 20472), (182, 20523), (218, 20685), (259, 20796), (268, 20835), (274, 20859), (308, 20982), (326, 21054), (349, 21141), (374, 21222), (399, 21324), (416, 21378), (436, 21438), (479, 21516), (480, 21528), (482, 21537), (498, 21579), (511, 21624), (518, 21639), (541, 21726), (551, 21750), (564, 21789), (574, 21822), (599, 21879), (630, 21990), (638, 22014), (643, 22035), (661, 22086), (695, 22215), (735, 22320), (796, 22545),

Gene: Sejanus_27 Start: 26927, Stop: 29680, Start Num: 43
Candidate Starts for Sejanus_27:

(22, 26834), (Start: 43 @26927 has 3 MA's), (Start: 66 @27005 has 26 MA's), (79, 27041), (90, 27068), (99, 27092), (127, 27161), (139, 27230), (150, 27254), (156, 27266), (205, 27500), (209, 27512), (212, 27527), (219, 27563), (233, 27605), (256, 27659), (274, 27707), (281, 27737), (282, 27740), (312, 27848), (324, 27902), (329, 27917), (332, 27932), (355, 28001), (360, 28022), (368, 28040), (375, 28073), (383, 28097), (385, 28100), (396, 28151), (406, 28187), (410, 28211), (421, 28247), (424, 28256), (426, 28271), (438, 28298), (447, 28328), (460, 28364), (464, 28382), (465, 28385), (471, 28394), (507, 28520), (522, 28568), (563, 28700), (570, 28727), (589, 28778), (594, 28790), (597, 28796), (612, 28853), (624, 28892), (637, 28940), (644, 28967), (651, 28997), (660, 29015), (669, 29045), (673, 29057), (674, 29069), (704, 29177), (708, 29192), (719, 29225), (729, 29246), (747, 29312), (758, 29342), (761, 29348), (776, 29408), (777, 29417), (779, 29426), (796, 29501), (798, 29516), (800, 29522), (808, 29558), (813, 29672),

Gene: Sheng711_20 Start: 18813, Stop: 21416, Start Num: 31
Candidate Starts for Sheng711_20:
(Start: 31 @18813 has 6 MA's), (33, 18819), (37, 18840), (56, 18918), (98, 19038), (111, 19077), (168, 19278), (169, 19284), (178, 19317), (179, 19320), (217, 19500), (220, 19509), (226, 19524), (232, 19542), (240, 19572), (270, 19626), (274, 19644), (284, 19674), (308, 19764), (311, 19773), (312, 19776), (321, 19818), (334, 19866), (363, 19959), (372, 19980), (377, 20004), (387, 20028), (397, 20073), (407, 20115), (439, 20226), (446, 20247), (449, 20256), (457, 20274), (485, 20346), (519, 20448), (531, 20499), (534, 20505), (542, 20532), (548, 20547), (551, 20559), (565, 20598), (581, 20646), (590, 20670), (629, 20796), (631, 20805), (654, 20886), (714, 21087), (725, 21114), (730, 21129), (754, 21213), (782, 21312),

Gene: ShiaSurprise_27 Start: 20912, Stop: 23344, Start Num: 61
Candidate Starts for ShiaSurprise_27:
(Start: 61 @20912 has 98 MA's), (95, 21011), (173, 21272), (178, 21293), (226, 21500), (235, 21533), (243, 21563), (274, 21635), (280, 21659), (333, 21857), (345, 21902), (348, 21914), (351, 21923), (370, 21974), (416, 22154), (421, 22169), (443, 22238), (450, 22250), (482, 22313), (498, 22355), (511, 22394), (515, 22400), (518, 22409), (522, 22430), (538, 22490), (583, 22607), (599, 22649), (621, 22721), (625, 22730), (630, 22751), (650, 22823), (659, 22844), (686, 22940), (734, 23087), (760, 23168), (796, 23315),

Gene: Silverleaf_20 Start: 18997, Stop: 21678, Start Num: 50
Candidate Starts for Silverleaf_20:
(Start: 50 @18997 has 19 MA's), (51, 19003), (112, 19180), (127, 19210), (137, 19273), (165, 19348), (181, 19402), (193, 19462), (195, 19468), (207, 19534), (222, 19597), (230, 19630), (231, 19633), (241, 19657), (255, 19681), (258, 19687), (263, 19693), (277, 19741), (283, 19762), (288, 19777), (293, 19798), (302, 19837), (306, 19849), (313, 19867), (328, 19924), (333, 19942), (343, 19972), (351, 19996), (353, 19999), (367, 20044), (382, 20095), (386, 20113), (398, 20167), (417, 20239), (421, 20251), (424, 20260), (438, 20302), (447, 20332), (460, 20368), (464, 20386), (473, 20401), (476, 20407), (483, 20440), (523, 20569), (525, 20578), (550, 20659), (563, 20695), (565, 20701), (600, 20806), (604, 20815), (608, 20830), (612, 20848), (625, 20890), (649, 20986), (651, 20992), (672, 21046), (673, 21052), (674, 21064), (705, 21175), (714, 21205), (716, 21211), (729, 21241), (747, 21307), (748, 21313), (758, 21337), (761, 21343), (763, 21349), (774, 21394), (776, 21403), (777, 21412), (787, 21451), (793, 21487), (796, 21496), (798, 21511), (809, 21607), (811, 21658), (812, 21664),

Gene: SirPhilip_26 Start: 19755, Stop: 22217, Start Num: 61
Candidate Starts for SirPhilip_26:
(Start: 61 @19755 has 98 MA's), (70, 19782), (76, 19803), (118, 19926), (125, 19944), (130, 19986), (133, 19995), (166, 20088), (172, 20112), (280, 20523), (349, 20784), (361, 20823), (373, 20862), (374, 20865), (416, 21024), (421, 21039), (449, 21117), (454, 21123), (482, 21183), (498, 21225), (511, 21270), (515, 21276), (518, 21285), (521, 21306), (553, 21402), (557, 21423), (574, 21471),

(591, 21507), (605, 21546), (621, 21597), (630, 21627), (650, 21699), (682, 21801), (686, 21816), (721, 21924), (732, 21954), (788, 22146), (797, 22191),

Gene: Slimphazie_27 Start: 20879, Stop: 23311, Start Num: 61
Candidate Starts for Slimphazie_27:
(Start: 61 @20879 has 98 MA's), (95, 20978), (173, 21239), (178, 21260), (226, 21467), (235, 21500), (243, 21530), (274, 21602), (280, 21626), (292, 21671), (333, 21824), (345, 21869), (348, 21881), (351, 21890), (370, 21941), (416, 22121), (421, 22136), (443, 22205), (450, 22217), (498, 22322), (511, 22361), (515, 22367), (518, 22376), (538, 22457), (555, 22505), (586, 22580), (599, 22616), (625, 22697), (630, 22718), (659, 22811), (686, 22907), (734, 23054), (744, 23096), (760, 23135), (780, 23210),

Gene: SoSeph_25 Start: 21308, Stop: 23806, Start Num: 68
Candidate Starts for SoSeph_25:
(Start: 68 @21308 has 25 MA's), (89, 21368), (94, 21377), (131, 21518), (153, 21587), (176, 21671), (211, 21824), (214, 21848), (223, 21875), (234, 21917), (241, 21944), (248, 21956), (250, 21959), (255, 21968), (260, 21977), (269, 22004), (276, 22037), (292, 22097), (307, 22148), (325, 22226), (346, 22304), (352, 22325), (367, 22370), (375, 22406), (385, 22442), (390, 22463), (396, 22493), (398, 22505), (442, 22664), (462, 22724), (465, 22733), (475, 22748), (481, 22769), (505, 22841), (509, 22856), (521, 22886), (522, 22889), (527, 22913), (532, 22928), (542, 22955), (558, 23003), (568, 23033), (569, 23036), (575, 23048), (580, 23060), (601, 23117), (611, 23138), (613, 23150), (627, 23198), (635, 23225), (662, 23303), (665, 23306), (682, 23381), (685, 23393), (698, 23435), (700, 23438), (706, 23450), (772, 23651), (776, 23675), (777, 23684), (781, 23699), (800, 23792), (801, 23795),

Gene: Spock_27 Start: 20912, Stop: 23344, Start Num: 61
Candidate Starts for Spock_27:
(Start: 61 @20912 has 98 MA's), (95, 21011), (173, 21272), (178, 21293), (226, 21500), (235, 21533), (243, 21563), (274, 21635), (280, 21659), (333, 21857), (345, 21902), (348, 21914), (351, 21923), (370, 21974), (416, 22154), (421, 22169), (443, 22238), (450, 22250), (482, 22313), (498, 22355), (511, 22394), (515, 22400), (518, 22409), (522, 22430), (538, 22490), (583, 22607), (599, 22649), (621, 22721), (625, 22730), (630, 22751), (650, 22823), (659, 22844), (686, 22940), (734, 23087), (760, 23168), (796, 23315),

Gene: Sprinklemunch_21 Start: 19351, Stop: 21831, Start Num: 32
Candidate Starts for Sprinklemunch_21:
(Start: 32 @19351 has 1 MA's), (46, 19411), (130, 19654), (140, 19693), (153, 19726), (189, 19867), (218, 20002), (229, 20038), (246, 20086), (248, 20089), (266, 20128), (282, 20191), (289, 20215), (292, 20230), (337, 20386), (341, 20407), (370, 20491), (372, 20500), (376, 20521), (378, 20530), (434, 20728), (468, 20761), (472, 20767), (495, 20848), (497, 20851), (502, 20860), (506, 20881), (515, 20902), (537, 20992), (540, 21004), (559, 21049), (564, 21061), (618, 21211), (637, 21277), (670, 21358), (681, 21403), (682, 21409), (689, 21439), (694, 21457), (718, 21514), (732, 21541), (757, 21619), (765, 21643), (793, 21766), (795, 21772),

Gene: Stinson_28 Start: 21121, Stop: 23553, Start Num: 61
Candidate Starts for Stinson_28:
(Start: 61 @21121 has 98 MA's), (Start: 62 @21130 has 2 MA's), (95, 21220), (173, 21481), (178, 21502), (226, 21709), (235, 21742), (243, 21772), (274, 21844), (280, 21868), (292, 21913), (333, 22066), (348, 22123), (351, 22132), (362, 22168), (370, 22183), (416, 22363), (421, 22378), (443, 22447), (450, 22459), (482, 22522), (498, 22564), (511, 22603), (515, 22609), (518, 22618), (522, 22639), (538, 22699), (555, 22747), (576, 22807), (583, 22816), (602, 22873), (621, 22930), (625, 22939), (630, 22960), (643, 23005), (659, 23053), (686, 23149), (760, 23377), (796, 23524),

Gene: Sukkupi_45 Start: 32233, Stop: 34608, Start Num: 66
Candidate Starts for Sukkupi_45:
(Start: 66 @32233 has 26 MA's), (206, 32701), (218, 32761), (232, 32803), (235, 32812), (252, 32854), (274, 32914), (282, 32941), (311, 33043), (319, 33079), (320, 33085), (373, 33247), (389, 33310), (398, 33352), (420, 33412), (443, 33484), (455, 33505), (487, 33574), (494, 33598), (498, 33607), (539, 33751), (542, 33757), (555, 33799), (589, 33880), (615, 33955), (687, 34195), (688, 34198), (713, 34276), (722, 34300), (735, 34333), (762, 34414), (775, 34465), (778, 34474),

Gene: Sulley_27 Start: 20845, Stop: 23277, Start Num: 61
Candidate Starts for Sulley_27:
(Start: 61 @20845 has 98 MA's), (95, 20944), (173, 21205), (178, 21226), (226, 21433), (235, 21466), (243, 21496), (274, 21568), (280, 21592), (333, 21790), (345, 21835), (348, 21847), (351, 21856), (370, 21907), (416, 22087), (421, 22102), (443, 22171), (450, 22183), (482, 22246), (498, 22288), (511, 22327), (515, 22333), (518, 22342), (522, 22363), (538, 22423), (553, 22456), (555, 22471), (556, 22474), (575, 22528), (583, 22540), (621, 22654), (625, 22663), (630, 22684), (650, 22756), (659, 22777), (686, 22873), (760, 23101), (796, 23248),

Gene: SuperSonics_36 Start: 28479, Stop: 31769, Start Num: 4
Candidate Starts for SuperSonics_36:
(Start: 3 @28467 has 3 MA's), (Start: 4 @28479 has 1 MA's), (7, 28608), (8, 28617), (9, 28629), (20, 28797), (22, 28803), (40, 28887), (84, 29040), (100, 29082), (111, 29115), (117, 29142), (122, 29154), (181, 29370), (188, 29427), (192, 29448), (210, 29553), (215, 29589), (266, 29727), (282, 29796), (289, 29820), (320, 29946), (324, 29961), (331, 29988), (337, 30009), (339, 30024), (342, 30033), (421, 30339), (422, 30342), (426, 30363), (447, 30420), (460, 30456), (464, 30474), (465, 30477), (471, 30486), (477, 30501), (507, 30609), (525, 30672), (549, 30747), (563, 30789), (612, 30942), (624, 30981), (651, 31086), (660, 31104), (669, 31134), (673, 31146), (674, 31158), (732, 31347), (761, 31437), (776, 31497), (777, 31506), (796, 31590), (798, 31605), (811, 31752), (812, 31758), (813, 31761),

Gene: TA17A_33 Start: 29955, Stop: 32675, Start Num: 44
Candidate Starts for TA17A_33:
(Start: 44 @29955 has 36 MA's), (60, 30009), (74, 30048), (79, 30066), (90, 30093), (99, 30117), (100, 30120), (113, 30153), (144, 30261), (154, 30282), (156, 30285), (175, 30339), (190, 30399), (195, 30423), (197, 30459), (207, 30507), (212, 30528), (219, 30567), (237, 30621), (264, 30675), (267, 30687), (274, 30711), (281, 30735), (286, 30747), (290, 30762), (292, 30777), (303, 30819), (309, 30837), (318, 30876), (324, 30900), (375, 31071), (396, 31149), (410, 31209), (421, 31245), (422, 31248), (447, 31326), (460, 31362), (467, 31386), (500, 31485), (511, 31524), (525, 31578), (563, 31695), (570, 31722), (594, 31785), (597, 31791), (612, 31848), (637, 31935), (644, 31962), (651, 31992), (660, 32010), (667, 32031), (669, 32040), (672, 32046), (673, 32052), (674, 32064), (703, 32169), (708, 32187), (719, 32220), (747, 32307), (758, 32337), (761, 32343), (776, 32403), (796, 32496), (798, 32511), (808, 32553), (813, 32667),

Gene: Tachez_27 Start: 20841, Stop: 23273, Start Num: 61
Candidate Starts for Tachez_27:
(Start: 61 @20841 has 98 MA's), (95, 20940), (173, 21201), (178, 21222), (226, 21429), (235, 21462), (243, 21492), (274, 21564), (280, 21588), (292, 21633), (333, 21786), (345, 21831), (348, 21843), (351, 21852), (370, 21903), (416, 22083), (421, 22098), (443, 22167), (450, 22179), (498, 22284), (511, 22323), (515, 22329), (518, 22338), (538, 22419), (555, 22467), (586, 22542), (599, 22578), (621, 22650), (625, 22659), (630, 22680), (659, 22773), (686, 22869), (734, 23016), (744, 23058), (760, 23097), (780, 23172),

Gene: TaiwanKao_28 Start: 20852, Stop: 23284, Start Num: 61
Candidate Starts for TaiwanKao_28:

(Start: 61 @20852 has 98 MA's), (95, 20951), (173, 21212), (226, 21440), (235, 21473), (243, 21503), (280, 21599), (292, 21644), (333, 21797), (345, 21842), (348, 21854), (351, 21863), (370, 21914), (416, 22094), (421, 22109), (443, 22178), (450, 22190), (482, 22253), (498, 22295), (511, 22334), (515, 22340), (518, 22349), (522, 22370), (538, 22430), (583, 22547), (599, 22589), (621, 22661), (625, 22670), (630, 22691), (650, 22763), (659, 22784), (686, 22880), (760, 23108), (796, 23255),

Gene: Taquito_26 Start: 21892, Stop: 24636, Start Num: 41
Candidate Starts for Taquito_26:
(Start: 41 @21892 has 3 MA's), (69, 21982), (77, 22003), (90, 22027), (99, 22051), (122, 22117), (140, 22207), (143, 22216), (145, 22219), (153, 22240), (159, 22252), (170, 22285), (198, 22420), (209, 22468), (212, 22483), (215, 22504), (221, 22522), (228, 22546), (231, 22561), (236, 22570), (244, 22597), (248, 22603), (268, 22648), (274, 22672), (278, 22684), (280, 22693), (282, 22699), (286, 22708), (291, 22735), (296, 22753), (321, 22846), (324, 22858), (327, 22867), (355, 22957), (360, 22978), (368, 22996), (375, 23029), (385, 23056), (396, 23107), (406, 23143), (410, 23167), (421, 23203), (424, 23212), (426, 23227), (438, 23254), (447, 23284), (460, 23320), (464, 23338), (465, 23341), (471, 23350), (518, 23500), (525, 23539), (563, 23656), (570, 23683), (594, 23746), (597, 23752), (600, 23767), (612, 23809), (637, 23896), (644, 23923), (651, 23953), (660, 23971), (673, 24013), (674, 24025), (704, 24133), (708, 24148), (719, 24181), (729, 24202), (747, 24268), (758, 24298), (761, 24304), (776, 24364), (779, 24382), (796, 24457), (800, 24478), (808, 24514), (813, 24628),

Gene: Thyatira_25 Start: 21160, Stop: 23658, Start Num: 68
Candidate Starts for Thyatira_25:
(Start: 68 @21160 has 25 MA's), (89, 21220), (94, 21229), (131, 21370), (153, 21439), (176, 21523), (211, 21676), (214, 21700), (223, 21727), (234, 21769), (241, 21796), (248, 21808), (250, 21811), (255, 21820), (260, 21829), (269, 21856), (282, 21910), (292, 21949), (307, 22000), (325, 22078), (346, 22156), (352, 22177), (367, 22222), (375, 22258), (385, 22294), (390, 22315), (396, 22345), (398, 22357), (442, 22516), (462, 22576), (465, 22585), (475, 22600), (481, 22621), (505, 22693), (509, 22708), (521, 22738), (522, 22741), (527, 22765), (532, 22780), (542, 22807), (558, 22855), (568, 22885), (569, 22888), (575, 22900), (580, 22912), (601, 22969), (611, 22990), (613, 23002), (627, 23050), (635, 23077), (662, 23155), (665, 23158), (682, 23233), (685, 23245), (698, 23287), (700, 23290), (706, 23302), (772, 23503), (776, 23527), (777, 23536), (781, 23551), (800, 23644), (801, 23647),

Gene: Tinciduntsolum_33 Start: 30093, Stop: 32813, Start Num: 44
Candidate Starts for Tinciduntsolum_33:
(Start: 44 @30093 has 36 MA's), (60, 30147), (74, 30186), (90, 30231), (99, 30255), (100, 30258), (113, 30291), (144, 30399), (154, 30420), (156, 30423), (175, 30477), (190, 30537), (195, 30561), (197, 30597), (207, 30645), (212, 30666), (219, 30705), (231, 30744), (237, 30759), (264, 30813), (267, 30825), (274, 30849), (281, 30873), (286, 30885), (290, 30900), (292, 30915), (303, 30957), (309, 30975), (318, 31014), (324, 31038), (375, 31209), (396, 31287), (410, 31347), (421, 31383), (422, 31386), (447, 31464), (460, 31500), (467, 31524), (477, 31545), (525, 31716), (526, 31722), (563, 31833), (570, 31860), (594, 31923), (597, 31929), (600, 31944), (612, 31986), (637, 32073), (644, 32100), (651, 32130), (660, 32148), (667, 32169), (669, 32178), (672, 32184), (673, 32190), (674, 32202), (703, 32307), (708, 32325), (719, 32358), (747, 32445), (758, 32475), (761, 32481), (776, 32541), (796, 32634), (798, 32649), (808, 32691), (813, 32805),

Gene: TiniBug_27 Start: 20837, Stop: 23269, Start Num: 61
Candidate Starts for TiniBug_27:
(55, 20819), (Start: 61 @20837 has 98 MA's), (76, 20885), (95, 20936), (173, 21197), (178, 21218), (234, 21455), (235, 21458), (243, 21488), (245, 21491), (274, 21560), (280, 21584), (282, 21590), (285, 21596), (292, 21629), (333, 21782), (348, 21839), (351, 21848), (370, 21899), (416, 22079), (421, 22094), (443, 22163), (450, 22175), (478, 22211), (482, 22238), (498, 22280), (511, 22319),

(515, 22325), (518, 22334), (522, 22355), (538, 22415), (553, 22448), (556, 22466), (583, 22532), (599, 22574), (621, 22646), (625, 22655), (630, 22676), (650, 22748), (734, 23012), (760, 23093), (780, 23168), (796, 23240),

Gene: Tiri_27 Start: 20884, Stop: 23316, Start Num: 61
Candidate Starts for Tiri_27:
(Start: 61 @20884 has 98 MA's), (95, 20983), (173, 21244), (178, 21265), (226, 21472), (235, 21505), (243, 21535), (274, 21607), (280, 21631), (333, 21829), (345, 21874), (348, 21886), (351, 21895), (370, 21946), (416, 22126), (421, 22141), (443, 22210), (450, 22222), (482, 22285), (498, 22327), (511, 22366), (515, 22372), (518, 22381), (522, 22402), (538, 22462), (583, 22579), (599, 22621), (621, 22693), (625, 22702), (630, 22723), (650, 22795), (659, 22816), (686, 22912), (705, 22975), (744, 23101), (760, 23140), (796, 23287),

Gene: Topper_27 Start: 20912, Stop: 23344, Start Num: 61
Candidate Starts for Topper_27:
(Start: 61 @20912 has 98 MA's), (95, 21011), (173, 21272), (178, 21293), (226, 21500), (235, 21533), (243, 21563), (274, 21635), (280, 21659), (333, 21857), (345, 21902), (348, 21914), (351, 21923), (370, 21974), (416, 22154), (421, 22169), (443, 22238), (450, 22250), (482, 22313), (498, 22355), (511, 22394), (515, 22400), (518, 22409), (522, 22430), (538, 22490), (583, 22607), (599, 22649), (621, 22721), (625, 22730), (630, 22751), (650, 22823), (659, 22844), (686, 22940), (734, 23087), (760, 23168), (796, 23315),

Gene: Towmatter_35 Start: 31267, Stop: 34443, Start Num: 1
Candidate Starts for Towmatter_35:
(Start: 1 @31267 has 2 MA's), (2, 31321), (5, 31429), (6, 31492), (10, 31561), (11, 31564), (72, 31903), (103, 31993), (138, 32134), (148, 32164), (159, 32194), (211, 32410), (274, 32605), (282, 32632), (308, 32728), (359, 32944), (402, 33106), (418, 33178), (421, 33187), (490, 33409), (517, 33490), (523, 33520), (544, 33589), (562, 33646), (592, 33730), (596, 33742), (674, 33988), (688, 34045), (698, 34072), (702, 34081), (707, 34093), (740, 34195),

Gene: Tracker_43 Start: 32386, Stop: 34752, Start Num: 66
Candidate Starts for Tracker_43:
(Start: 66 @32386 has 26 MA's), (115, 32515), (206, 32854), (282, 33094), (292, 33133), (296, 33148), (319, 33232), (320, 33238), (369, 33376), (392, 33469), (398, 33505), (479, 33697), (484, 33721), (494, 33751), (498, 33760), (511, 33805), (564, 33973), (591, 34036), (607, 34081), (615, 34105), (670, 34270), (671, 34273), (678, 34306), (688, 34348), (704, 34399), (721, 34450), (724, 34456), (732, 34477), (735, 34486), (739, 34501), (753, 34546), (802, 34732),

Gene: Tres_32 Start: 29968, Stop: 32688, Start Num: 44
Candidate Starts for Tres_32:
(Start: 44 @29968 has 36 MA's), (60, 30022), (74, 30061), (90, 30106), (99, 30130), (100, 30133), (113, 30166), (144, 30274), (154, 30295), (156, 30298), (175, 30352), (190, 30412), (195, 30436), (197, 30472), (207, 30520), (212, 30541), (219, 30580), (231, 30619), (237, 30634), (264, 30688), (274, 30724), (281, 30748), (286, 30760), (290, 30775), (292, 30790), (303, 30832), (309, 30850), (318, 30889), (324, 30913), (375, 31084), (396, 31162), (410, 31222), (421, 31258), (422, 31261), (447, 31339), (460, 31375), (467, 31399), (477, 31420), (525, 31591), (526, 31597), (563, 31708), (570, 31735), (594, 31798), (597, 31804), (600, 31819), (612, 31861), (637, 31948), (644, 31975), (651, 32005), (660, 32023), (667, 32044), (669, 32053), (672, 32059), (673, 32065), (674, 32077), (703, 32182), (708, 32200), (719, 32233), (747, 32320), (758, 32350), (761, 32356), (776, 32416), (796, 32509), (798, 32524), (808, 32566), (813, 32680),

Gene: TreyKay_27 Start: 20846, Stop: 23278, Start Num: 61
Candidate Starts for TreyKay_27:

(Start: 61 @20846 has 98 MA's), (95, 20945), (173, 21206), (226, 21434), (235, 21467), (243, 21497), (274, 21569), (280, 21593), (292, 21638), (333, 21791), (345, 21836), (348, 21848), (351, 21857), (362, 21893), (370, 21908), (416, 22088), (421, 22103), (443, 22172), (450, 22184), (482, 22247), (498, 22289), (511, 22328), (515, 22334), (518, 22343), (522, 22364), (538, 22424), (583, 22541), (599, 22583), (621, 22655), (625, 22664), (630, 22685), (650, 22757), (659, 22778), (686, 22874), (760, 23102), (796, 23249),

Gene: TruffulaTree_27 Start: 20875, Stop: 23307, Start Num: 61
Candidate Starts for TruffulaTree_27:
(Start: 61 @20875 has 98 MA's), (95, 20974), (173, 21235), (178, 21256), (226, 21463), (235, 21496), (243, 21526), (274, 21598), (280, 21622), (292, 21667), (333, 21820), (345, 21865), (348, 21877), (351, 21886), (370, 21937), (416, 22117), (421, 22132), (443, 22201), (450, 22213), (482, 22276), (498, 22318), (511, 22357), (515, 22363), (518, 22372), (522, 22393), (538, 22453), (583, 22570), (599, 22612), (621, 22684), (625, 22693), (630, 22714), (650, 22786), (659, 22807), (686, 22903), (705, 22966), (760, 23131), (796, 23278),

Gene: Turuncu_47 Start: 33662, Stop: 36028, Start Num: 66
Candidate Starts for Turuncu_47:
(Start: 66 @33662 has 26 MA's), (206, 34130), (207, 34133), (218, 34190), (235, 34241), (239, 34262), (248, 34277), (280, 34364), (282, 34370), (292, 34409), (296, 34424), (311, 34472), (369, 34652), (389, 34739), (398, 34781), (494, 35027), (498, 35036), (527, 35141), (542, 35186), (607, 35357), (615, 35381), (618, 35390), (670, 35546), (688, 35615), (724, 35723), (735, 35753), (739, 35768), (804, 36014),

Gene: Twitch_27 Start: 20912, Stop: 23344, Start Num: 61
Candidate Starts for Twitch_27:
(Start: 61 @20912 has 98 MA's), (95, 21011), (173, 21272), (178, 21293), (226, 21500), (235, 21533), (243, 21563), (274, 21635), (280, 21659), (333, 21857), (345, 21902), (348, 21914), (351, 21923), (370, 21974), (416, 22154), (421, 22169), (443, 22238), (450, 22250), (482, 22313), (498, 22355), (511, 22394), (515, 22400), (518, 22409), (522, 22430), (538, 22490), (583, 22607), (599, 22649), (621, 22721), (625, 22730), (630, 22751), (650, 22823), (659, 22844), (686, 22940), (734, 23087), (760, 23168), (796, 23315),

Gene: Tyson_20 Start: 18997, Stop: 21678, Start Num: 50
Candidate Starts for Tyson_20:
(Start: 50 @18997 has 19 MA's), (51, 19003), (112, 19180), (127, 19210), (137, 19273), (165, 19348), (193, 19462), (195, 19468), (207, 19534), (222, 19597), (230, 19630), (231, 19633), (241, 19657), (255, 19681), (258, 19687), (263, 19693), (277, 19741), (283, 19762), (288, 19777), (293, 19798), (302, 19837), (306, 19849), (313, 19867), (333, 19942), (343, 19972), (351, 19996), (353, 19999), (367, 20044), (382, 20095), (386, 20113), (398, 20167), (417, 20239), (421, 20251), (424, 20260), (438, 20302), (447, 20332), (460, 20368), (464, 20386), (473, 20401), (476, 20407), (483, 20440), (523, 20569), (525, 20578), (550, 20659), (563, 20695), (565, 20701), (600, 20806), (604, 20815), (608, 20830), (612, 20848), (625, 20890), (649, 20986), (651, 20992), (672, 21046), (673, 21052), (674, 21064), (705, 21175), (714, 21205), (716, 21211), (729, 21241), (747, 21307), (748, 21313), (758, 21337), (761, 21343), (763, 21349), (774, 21394), (776, 21403), (777, 21412), (787, 21451), (793, 21487), (796, 21496), (798, 21511), (809, 21607), (811, 21658), (812, 21664),

Gene: UPIE_20 Start: 18995, Stop: 21676, Start Num: 50
Candidate Starts for UPIE_20:
(Start: 50 @18995 has 19 MA's), (51, 19001), (112, 19178), (127, 19208), (137, 19271), (165, 19346), (181, 19400), (193, 19460), (195, 19466), (207, 19532), (222, 19595), (230, 19628), (231, 19631), (241, 19655), (258, 19685), (263, 19691), (277, 19739), (283, 19760), (288, 19775), (293, 19796), (302, 19835), (306, 19847), (313, 19865), (328, 19922), (333, 19940), (343, 19970), (351, 19994),

(353, 19997), (367, 20042), (382, 20093), (386, 20111), (398, 20165), (417, 20237), (421, 20249), (424, 20258), (438, 20300), (447, 20330), (460, 20366), (464, 20384), (473, 20399), (476, 20405), (483, 20438), (523, 20567), (525, 20576), (550, 20657), (563, 20693), (565, 20699), (600, 20804), (604, 20813), (608, 20828), (612, 20846), (625, 20888), (649, 20984), (651, 20990), (672, 21044), (673, 21050), (674, 21062), (705, 21173), (714, 21203), (716, 21209), (729, 21239), (747, 21305), (748, 21311), (758, 21335), (761, 21341), (763, 21347), (774, 21392), (776, 21401), (777, 21410), (787, 21449), (793, 21485), (796, 21494), (798, 21509), (809, 21605), (811, 21656), (812, 21662),

Gene: Urkel_27 Start: 20840, Stop: 23272, Start Num: 61
Candidate Starts for Urkel_27:
(55, 20822), (Start: 61 @20840 has 98 MA's), (76, 20888), (95, 20939), (173, 21200), (178, 21221), (234, 21458), (235, 21461), (243, 21491), (245, 21494), (274, 21563), (280, 21587), (282, 21593), (285, 21599), (292, 21632), (333, 21785), (348, 21842), (351, 21851), (370, 21902), (416, 22082), (421, 22097), (443, 22166), (450, 22178), (478, 22214), (482, 22241), (498, 22283), (511, 22322), (515, 22328), (518, 22337), (522, 22358), (538, 22418), (553, 22451), (556, 22469), (583, 22535), (599, 22577), (621, 22649), (625, 22658), (630, 22679), (650, 22751), (686, 22868), (734, 23015), (760, 23096), (780, 23171), (796, 23243),

Gene: Veliki_27 Start: 20915, Stop: 23347, Start Num: 61
Candidate Starts for Veliki_27:
(Start: 61 @20915 has 98 MA's), (95, 21014), (173, 21275), (178, 21296), (226, 21503), (235, 21536), (243, 21566), (274, 21638), (280, 21662), (292, 21707), (333, 21860), (345, 21905), (348, 21917), (351, 21926), (370, 21977), (416, 22157), (421, 22172), (443, 22241), (450, 22253), (498, 22358), (511, 22397), (515, 22403), (518, 22412), (538, 22493), (555, 22541), (586, 22616), (599, 22652), (625, 22733), (630, 22754), (659, 22847), (686, 22943), (734, 23090), (744, 23132), (760, 23171), (780, 23246),

Gene: Velveteen_19 Start: 17226, Stop: 20090, Start Num: 17
Candidate Starts for Velveteen_19:
(Start: 17 @17226 has 10 MA's), (25, 17247), (30, 17268), (37, 17307), (52, 17376), (56, 17385), (58, 17388), (75, 17439), (106, 17529), (124, 17580), (140, 17664), (145, 17676), (153, 17697), (164, 17730), (198, 17877), (212, 17940), (221, 17979), (228, 18003), (231, 18018), (236, 18027), (244, 18054), (248, 18060), (274, 18129), (280, 18150), (282, 18156), (291, 18192), (296, 18210), (321, 18303), (327, 18324), (333, 18348), (355, 18414), (360, 18435), (368, 18453), (375, 18486), (385, 18513), (396, 18564), (406, 18600), (410, 18624), (421, 18660), (424, 18669), (426, 18684), (438, 18711), (447, 18741), (460, 18777), (467, 18801), (500, 18900), (511, 18939), (522, 18978), (526, 18999), (563, 19110), (570, 19137), (582, 19167), (589, 19188), (594, 19200), (597, 19206), (612, 19263), (651, 19407), (660, 19425), (673, 19467), (674, 19479), (719, 19635), (747, 19722), (758, 19752), (761, 19758), (776, 19818), (779, 19836), (796, 19911), (800, 19932), (808, 19968), (813, 20082),

Gene: Vic9_00032 Start: 30412, Stop: 33132, Start Num: 44
Candidate Starts for Vic9_00032:
(Start: 44 @30412 has 36 MA's), (60, 30466), (74, 30505), (79, 30523), (90, 30550), (99, 30574), (100, 30577), (113, 30610), (144, 30718), (154, 30739), (156, 30742), (175, 30796), (190, 30856), (195, 30880), (197, 30916), (207, 30964), (212, 30985), (219, 31024), (231, 31063), (237, 31078), (264, 31132), (267, 31144), (274, 31168), (281, 31192), (286, 31204), (290, 31219), (292, 31234), (303, 31276), (309, 31294), (318, 31333), (324, 31357), (375, 31528), (396, 31606), (410, 31666), (421, 31702), (422, 31705), (447, 31783), (460, 31819), (467, 31843), (500, 31942), (511, 31981), (525, 32035), (563, 32152), (570, 32179), (594, 32242), (597, 32248), (600, 32263), (612, 32305), (637, 32392), (651, 32449), (660, 32467), (673, 32509), (674, 32521), (703, 32626), (708, 32644), (714, 32662), (719, 32677), (747, 32764), (758, 32794), (761, 32800), (776, 32860), (796, 32953), (798, 32968), (808, 33010), (813, 33124),

Gene: ViviJ_24 Start: 21017, Stop: 23527, Start Num: 68
Candidate Starts for ViviJ_24:
(Start: 68 @21017 has 25 MA's), (85, 21065), (89, 21077), (94, 21086), (153, 21296), (176, 21380), (211, 21533), (214, 21557), (224, 21587), (250, 21668), (255, 21677), (260, 21686), (269, 21713), (274, 21734), (282, 21767), (287, 21779), (292, 21806), (294, 21812), (307, 21857), (325, 21935), (346, 22013), (352, 22034), (367, 22079), (375, 22115), (385, 22151), (390, 22172), (396, 22202), (398, 22214), (429, 22334), (451, 22397), (460, 22421), (481, 22478), (501, 22535), (505, 22550), (512, 22571), (523, 22610), (568, 22751), (601, 22838), (624, 22904), (635, 22940), (647, 22973), (650, 22994), (666, 23030), (683, 23105), (685, 23108), (690, 23132), (702, 23165), (710, 23192), (717, 23213), (726, 23231), (741, 23285), (800, 23513),

Gene: Wamburgrxpress_20 Start: 19010, Stop: 21691, Start Num: 50
Candidate Starts for Wamburgrxpress_20:
(Start: 50 @19010 has 19 MA's), (51, 19016), (112, 19193), (127, 19223), (137, 19286), (165, 19361), (193, 19475), (195, 19481), (207, 19547), (222, 19610), (230, 19643), (231, 19646), (241, 19670), (255, 19694), (258, 19700), (263, 19706), (277, 19754), (283, 19775), (288, 19790), (293, 19811), (302, 19850), (306, 19862), (313, 19880), (333, 19955), (343, 19985), (351, 20009), (353, 20012), (367, 20057), (382, 20108), (386, 20126), (398, 20180), (417, 20252), (421, 20264), (424, 20273), (438, 20315), (447, 20345), (460, 20381), (464, 20399), (473, 20414), (476, 20420), (483, 20453), (523, 20582), (525, 20591), (550, 20672), (563, 20708), (565, 20714), (600, 20819), (604, 20828), (608, 20843), (612, 20861), (625, 20903), (649, 20999), (651, 21005), (672, 21059), (673, 21065), (674, 21077), (705, 21188), (714, 21218), (716, 21224), (729, 21254), (747, 21320), (748, 21326), (758, 21350), (761, 21356), (763, 21362), (774, 21407), (776, 21416), (777, 21425), (787, 21464), (793, 21500), (796, 21509), (798, 21524), (809, 21620), (811, 21671), (812, 21677),

Gene: Waterfoul_25 Start: 21181, Stop: 23679, Start Num: 68
Candidate Starts for Waterfoul_25:
(Start: 68 @21181 has 25 MA's), (89, 21241), (94, 21250), (131, 21391), (153, 21460), (176, 21544), (211, 21697), (214, 21721), (223, 21748), (234, 21790), (241, 21817), (248, 21829), (250, 21832), (255, 21841), (260, 21850), (269, 21877), (276, 21910), (282, 21931), (292, 21970), (307, 22021), (325, 22099), (346, 22177), (352, 22198), (367, 22243), (375, 22279), (385, 22315), (390, 22336), (396, 22366), (398, 22378), (442, 22537), (462, 22597), (465, 22606), (475, 22621), (481, 22642), (505, 22714), (509, 22729), (521, 22759), (522, 22762), (527, 22786), (532, 22801), (542, 22828), (558, 22876), (568, 22906), (569, 22909), (575, 22921), (580, 22933), (601, 22990), (611, 23011), (613, 23023), (627, 23071), (635, 23098), (662, 23176), (665, 23179), (682, 23254), (685, 23266), (698, 23308), (700, 23311), (706, 23323), (772, 23524), (776, 23548), (777, 23557), (781, 23572), (800, 23665), (801, 23668),

Gene: West99_32 Start: 30088, Stop: 32808, Start Num: 44
Candidate Starts for West99_32:
(Start: 44 @30088 has 36 MA's), (60, 30142), (74, 30181), (90, 30226), (99, 30250), (100, 30253), (113, 30286), (144, 30394), (154, 30415), (156, 30418), (175, 30472), (190, 30532), (195, 30556), (197, 30592), (207, 30640), (212, 30661), (219, 30700), (231, 30739), (237, 30754), (264, 30808), (267, 30820), (274, 30844), (281, 30868), (286, 30880), (290, 30895), (292, 30910), (303, 30952), (309, 30970), (318, 31009), (324, 31033), (375, 31204), (396, 31282), (410, 31342), (421, 31378), (422, 31381), (447, 31459), (460, 31495), (467, 31519), (477, 31540), (525, 31711), (526, 31717), (563, 31828), (570, 31855), (594, 31918), (597, 31924), (600, 31939), (612, 31981), (637, 32068), (644, 32095), (651, 32125), (660, 32143), (667, 32164), (669, 32173), (672, 32179), (673, 32185), (674, 32197), (703, 32302), (708, 32320), (719, 32353), (747, 32440), (758, 32470), (761, 32476), (776, 32536), (796, 32629), (798, 32644), (808, 32686), (813, 32800),

Gene: Wheezy_43 Start: 32591, Stop: 34957, Start Num: 66

Candidate Starts for Wheezy_43:
(Start: 66 @32591 has 26 MA's), (115, 32720), (206, 33059), (282, 33299), (292, 33338), (296, 33353), (319, 33437), (320, 33443), (369, 33581), (392, 33674), (398, 33710), (479, 33902), (484, 33926), (494, 33956), (498, 33965), (511, 34010), (564, 34178), (591, 34241), (607, 34286), (615, 34310), (670, 34475), (671, 34478), (678, 34511), (688, 34553), (704, 34604), (721, 34655), (724, 34661), (732, 34682), (735, 34691), (739, 34706), (753, 34751), (802, 34937),

Gene: WhoseManz_45 Start: 30279, Stop: 32654, Start Num: 66
Candidate Starts for WhoseManz_45:
(Start: 66 @30279 has 26 MA's), (167, 30582), (206, 30747), (218, 30807), (232, 30849), (235, 30858), (252, 30900), (274, 30960), (282, 30987), (319, 31125), (320, 31131), (347, 31209), (369, 31269), (373, 31293), (389, 31356), (398, 31398), (443, 31530), (455, 31551), (487, 31620), (494, 31644), (498, 31653), (511, 31695), (532, 31776), (539, 31797), (542, 31803), (555, 31845), (589, 31926), (615, 32001), (687, 32241), (688, 32244), (713, 32322), (722, 32346), (735, 32379), (764, 32463), (775, 32511), (778, 32520),

Gene: Wyatt2_20 Start: 18997, Stop: 21678, Start Num: 50
Candidate Starts for Wyatt2_20:
(Start: 50 @18997 has 19 MA's), (51, 19003), (112, 19180), (127, 19210), (137, 19273), (165, 19348), (181, 19402), (193, 19462), (195, 19468), (207, 19534), (222, 19597), (230, 19630), (231, 19633), (241, 19657), (258, 19687), (263, 19693), (277, 19741), (283, 19762), (288, 19777), (293, 19798), (302, 19837), (306, 19849), (313, 19867), (328, 19924), (333, 19942), (343, 19972), (351, 19996), (353, 19999), (367, 20044), (382, 20095), (386, 20113), (398, 20167), (417, 20239), (421, 20251), (424, 20260), (438, 20302), (447, 20332), (460, 20368), (464, 20386), (473, 20401), (476, 20407), (483, 20440), (523, 20569), (525, 20578), (550, 20659), (563, 20695), (565, 20701), (600, 20806), (604, 20815), (608, 20830), (612, 20848), (625, 20890), (649, 20986), (651, 20992), (672, 21046), (673, 21052), (674, 21064), (705, 21175), (714, 21205), (716, 21211), (747, 21307), (748, 21313), (758, 21337), (761, 21343), (763, 21349), (774, 21394), (776, 21403), (777, 21412), (787, 21451), (793, 21487), (796, 21496), (798, 21511), (809, 21607), (811, 21658), (812, 21664),

Gene: Xavia_21 Start: 19042, Stop: 21888, Start Num: 16
Candidate Starts for Xavia_21:
(Start: 16 @19042 has 2 MA's), (58, 19195), (140, 19468), (145, 19480), (153, 19501), (162, 19525), (182, 19600), (196, 19672), (204, 19702), (212, 19738), (228, 19801), (231, 19816), (244, 19849), (274, 19924), (280, 19948), (282, 19954), (287, 19966), (296, 20008), (298, 20014), (321, 20101), (327, 20122), (333, 20146), (355, 20212), (360, 20233), (368, 20251), (375, 20284), (383, 20308), (385, 20311), (393, 20341), (396, 20362), (410, 20422), (421, 20458), (422, 20461), (424, 20467), (447, 20539), (460, 20575), (464, 20593), (465, 20596), (471, 20605), (477, 20620), (507, 20728), (525, 20791), (549, 20866), (563, 20908), (570, 20935), (594, 20998), (597, 21004), (600, 21019), (612, 21061), (624, 21100), (637, 21148), (644, 21175), (646, 21178), (651, 21205), (660, 21223), (669, 21253), (673, 21265), (674, 21277), (703, 21382), (708, 21400), (719, 21433), (747, 21520), (758, 21550), (761, 21556), (776, 21616), (777, 21625), (779, 21634), (786, 21661), (796, 21709), (798, 21724), (800, 21730), (808, 21766), (813, 21880),

Gene: Yndexa_45 Start: 32233, Stop: 34608, Start Num: 66
Candidate Starts for Yndexa_45:
(Start: 66 @32233 has 26 MA's), (206, 32701), (218, 32761), (232, 32803), (235, 32812), (252, 32854), (274, 32914), (282, 32941), (311, 33043), (319, 33079), (320, 33085), (373, 33247), (389, 33310), (398, 33352), (420, 33412), (443, 33484), (455, 33505), (487, 33574), (494, 33598), (498, 33607), (539, 33751), (542, 33757), (555, 33799), (589, 33880), (615, 33955), (687, 34195), (688, 34198), (713, 34276), (722, 34300), (735, 34333), (762, 34414), (775, 34465), (778, 34474),

Gene: YoureAdopted_26 Start: 20848, Stop: 23280, Start Num: 61

Candidate Starts for YoureAdopted_26:
(Start: 61 @20848 has 98 MA's), (95, 20947), (173, 21208), (178, 21229), (226, 21436), (235, 21469), (243, 21499), (274, 21571), (280, 21595), (292, 21640), (333, 21793), (345, 21838), (348, 21850), (351, 21859), (370, 21910), (416, 22090), (421, 22105), (443, 22174), (450, 22186), (498, 22291), (511, 22330), (515, 22336), (518, 22345), (538, 22426), (555, 22474), (586, 22549), (599, 22585), (621, 22657), (625, 22666), (630, 22687), (659, 22780), (686, 22876), (734, 23023), (744, 23065), (760, 23104), (780, 23179),

Gene: Yunkel11_27 Start: 20098, Stop: 22530, Start Num: 61
Candidate Starts for Yunkel11_27:
(Start: 61 @20098 has 98 MA's), (76, 20146), (77, 20149), (80, 20158), (173, 20458), (178, 20479), (235, 20719), (274, 20821), (280, 20845), (282, 20851), (292, 20890), (333, 21043), (348, 21100), (351, 21109), (370, 21160), (418, 21346), (421, 21355), (423, 21361), (438, 21406), (443, 21424), (482, 21499), (498, 21541), (511, 21580), (515, 21586), (518, 21595), (522, 21616), (535, 21664), (553, 21709), (555, 21724), (583, 21793), (599, 21835), (625, 21916), (650, 22009), (659, 22030), (686, 22126), (760, 22354), (775, 22408), (780, 22429), (796, 22501), (799, 22519),

Gene: Zabiza_27 Start: 20879, Stop: 23311, Start Num: 61
Candidate Starts for Zabiza_27:
(Start: 61 @20879 has 98 MA's), (95, 20978), (173, 21239), (178, 21260), (226, 21467), (235, 21500), (243, 21530), (274, 21602), (280, 21626), (292, 21671), (333, 21824), (345, 21869), (348, 21881), (351, 21890), (370, 21941), (416, 22121), (421, 22136), (443, 22205), (450, 22217), (498, 22322), (511, 22361), (515, 22367), (518, 22376), (538, 22457), (555, 22505), (586, 22580), (599, 22616), (625, 22697), (630, 22718), (659, 22811), (686, 22907), (734, 23054), (744, 23096), (760, 23135), (780, 23210),

Gene: Zaria_20 Start: 19011, Stop: 21692, Start Num: 50
Candidate Starts for Zaria_20:
(Start: 50 @19011 has 19 MA's), (51, 19017), (112, 19194), (127, 19224), (137, 19287), (165, 19362), (181, 19416), (193, 19476), (195, 19482), (207, 19548), (222, 19611), (230, 19644), (231, 19647), (241, 19671), (255, 19695), (258, 19701), (263, 19707), (277, 19755), (283, 19776), (288, 19791), (293, 19812), (302, 19851), (306, 19863), (313, 19881), (333, 19956), (343, 19986), (351, 20010), (353, 20013), (367, 20058), (382, 20109), (386, 20127), (398, 20181), (417, 20253), (421, 20265), (424, 20274), (438, 20316), (447, 20346), (460, 20382), (464, 20400), (473, 20415), (476, 20421), (483, 20454), (523, 20583), (525, 20592), (550, 20673), (563, 20709), (565, 20715), (600, 20820), (604, 20829), (608, 20844), (612, 20862), (625, 20904), (649, 21000), (651, 21006), (672, 21060), (673, 21066), (674, 21078), (705, 21189), (714, 21219), (716, 21225), (747, 21321), (748, 21327), (758, 21351), (761, 21357), (763, 21363), (774, 21408), (776, 21417), (777, 21426), (787, 21465), (793, 21501), (796, 21510), (798, 21525), (809, 21621), (811, 21672), (812, 21678),

Gene: Zavala_27 Start: 20854, Stop: 23286, Start Num: 61
Candidate Starts for Zavala_27:
(Start: 61 @20854 has 98 MA's), (95, 20953), (173, 21214), (178, 21235), (226, 21442), (235, 21475), (243, 21505), (274, 21577), (280, 21601), (292, 21646), (333, 21799), (345, 21844), (348, 21856), (351, 21865), (370, 21916), (416, 22096), (421, 22111), (443, 22180), (450, 22192), (482, 22255), (498, 22297), (511, 22336), (515, 22342), (518, 22351), (522, 22372), (538, 22432), (583, 22549), (599, 22591), (621, 22663), (625, 22672), (630, 22693), (650, 22765), (659, 22786), (686, 22882), (705, 22945), (760, 23110), (796, 23257),

Gene: Zodiariah_21 Start: 19427, Stop: 21907, Start Num: 32
Candidate Starts for Zodiariah_21:
(Start: 32 @19427 has 1 MA's), (71, 19550), (130, 19730), (140, 19769), (153, 19802), (189, 19943), (218, 20078), (229, 20114), (248, 20165), (266, 20204), (282, 20267), (289, 20291), (292, 20306),

(303, 20348), (337, 20462), (341, 20483), (370, 20567), (372, 20576), (376, 20597), (378, 20606), (468, 20837), (472, 20843), (495, 20924), (497, 20927), (502, 20936), (515, 20978), (537, 21068), (540, 21080), (559, 21125), (564, 21137), (618, 21287), (637, 21353), (670, 21434), (681, 21479), (682, 21485), (689, 21515), (694, 21533), (718, 21590), (723, 21599), (732, 21617), (757, 21695), (765, 21719), (793, 21842), (795, 21848),