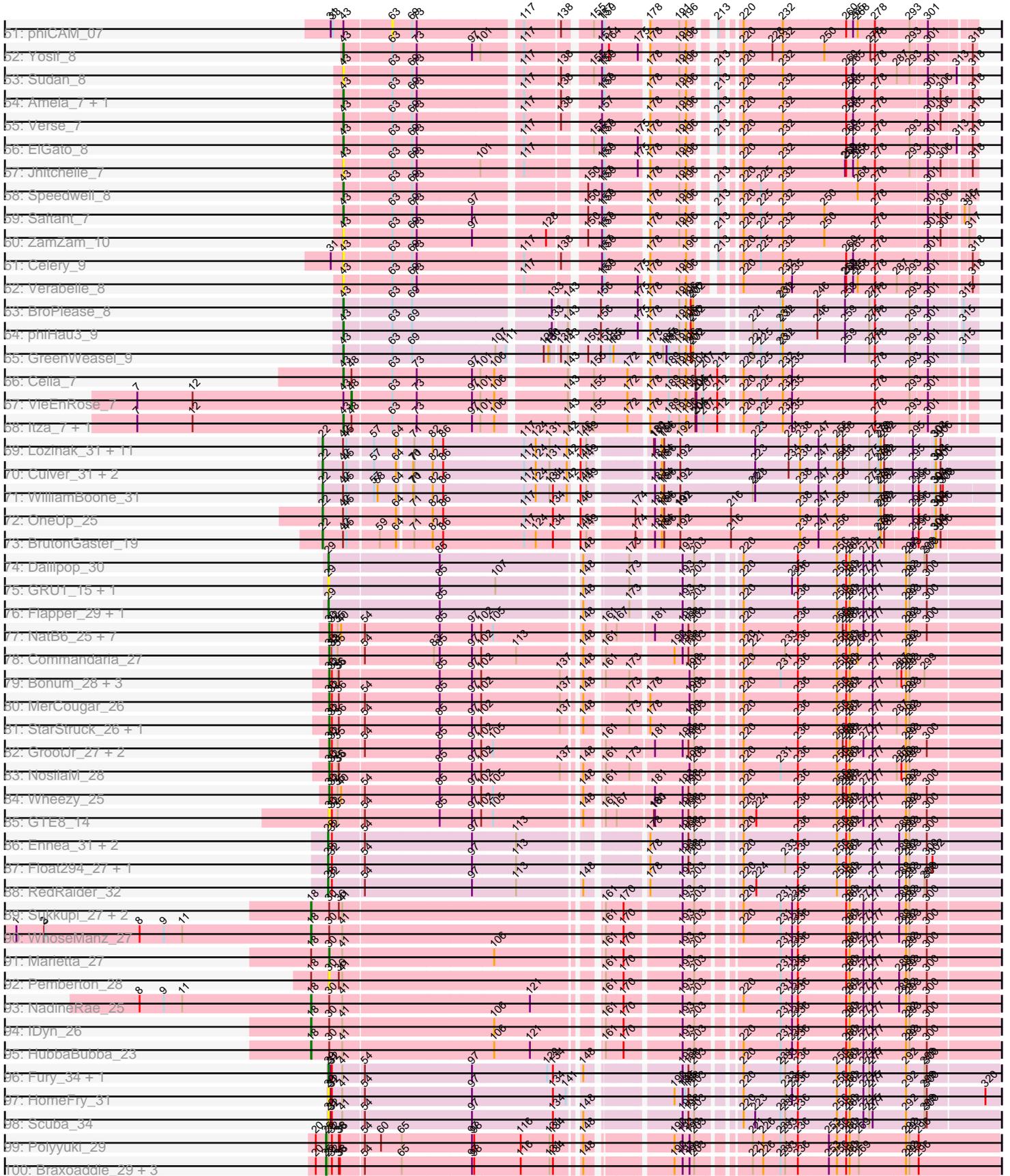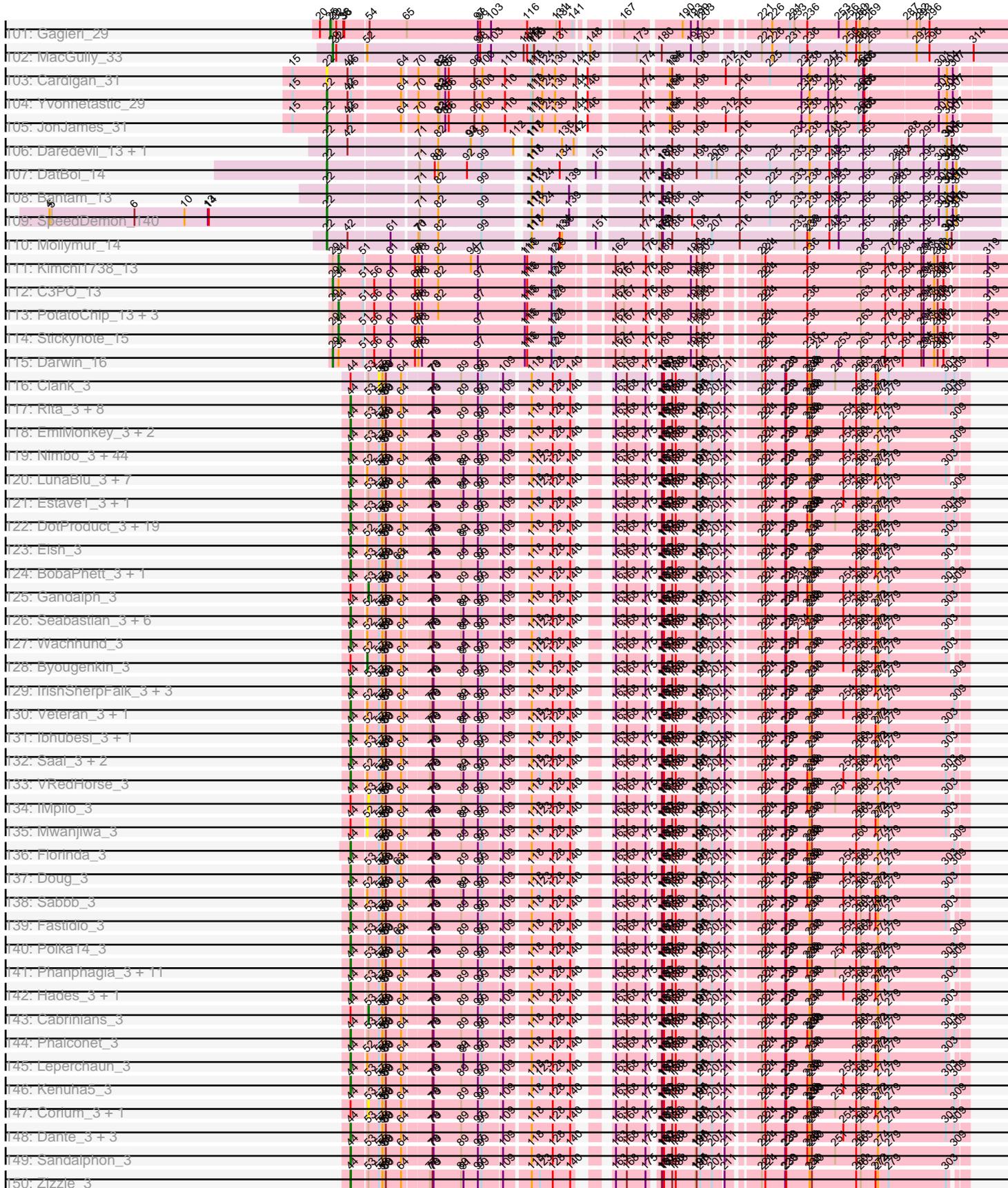# Pham 288978

Pham 288978

Pham 288978

Pham 288978

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 288978 Report

This analysis was run 03/28/26 on database version 641.

WARNING: Pham size does not match number of genes in report. Either unphamerated genes have been added (by you) or starterator has removed genes due to invalid start codon.

Pham number 288978 has 398 members, 37 are drafts.

Phages represented in each track:
• Track 1 : Sujidade_8, Toma_7, Dattran_8, Goby_7
• Track 2 : TagePhighter_8, Chucky_7
• Track 3 : Jash_8, Eddasa_8, Rusticus_8, Izzy_8, BryanRecycles_8
• Track 4 : RedBear_9, South40_8, Katalie_8
• Track 5 : Phettuccine_7, Ozzie_7, Bovely_7, Aaronocolus_7, BeardedLady_8, Legacy_7, Unstoppable_7, Indigo_7, Hydra_9, Leviticus_7, Esperer_7, Nerdos_7, SunsetPointe_7
• Track 6 : Nabi_7, Rana_7
• Track 7 : Lika_7, Godpower_8
• Track 8 : TuanPN_7, Yasdnil_7, Ejemplo_7
• Track 9 : Triste_7, Asten_7, OzzyJ_8
• Track 10 : Lorelei_7
• Track 11 : SarahRose_7, Werner_7, Whatever_7, Snorlax_7, Hippo_7, Emaanora_9, BarryBee_9, Dwayne_7
• Track 12 : Nanodon_9
• Track 13 : Maneekul_7
• Track 14 : Brataylor_8
• Track 15 : Caliburn_7
• Track 16 : Lannister_8
• Track 17 : Oliynyk_8
• Track 18 : Zemlya_8, Celeste_7, Danzina_8
• Track 19 : EnochSoames_8
• Track 20 : Tefunt_7, Nishikigoi_7
• Track 21 : Alvy_9
• Track 22 : R4_7, ELB20_06
• Track 23 : Pablito_7
• Track 24 : Zainub_9
• Track 25 : Axiom_8
• Track 26 : Marav_10, Jevington_9
• Track 27 : Omar_8
• Track 28 : TinaBelcher_7, Bowden_8
• Track 29 : Caelum_8
• Track 30 : Amethyst_7

- Track 31 : Paedore_7, Loofah_8
- Track 32 : Hank144_8
- Track 33 : Triumph_9
- Track 34 : Haizum_7
- Track 35 : BartholomewSD_9
- Track 36 : Daudau_7
- Track 37 : Issmi_8
- Track 38 : Andris_7
- Track 39 : Paolo_9
- Track 40 : Superstar_9
- Track 41 : TrvxScott_6
- Track 42 : Puginator_9
- Track 43 : SqueakyClean_8, Animus_8
- Track 44 : Thestral_8
- Track 45 : Diane_7
- Track 46 : Janus_8
- Track 47 : GirlDinner_7
- Track 48 : Vanseggelen_10
- Track 49 : Provolone_8, Kaine_7, Pavo_8, Alsaber_8, Conan_8
- Track 50 : Dexers_6
- Track 51 : phiCAM_07
- Track 52 : Yosif_8
- Track 53 : Sudan_8
- Track 54 : Amela_7, SunkenRoot_9
- Track 55 : Verse_7
- Track 56 : ElGato_8
- Track 57 : Jhitchelle_7
- Track 58 : Speedwell_8
- Track 59 : Saftant_7
- Track 60 : ZamZam_10
- Track 61 : Celery_9
- Track 62 : Verabelle_8
- Track 63 : BroPlease_8
- Track 64 : phiHau3_9
- Track 65 : GreenWeasel_9
- Track 66 : Celia_7
- Track 67 : VieEnRose_7
- Track 68 : Itza_7, Urza_7
- Track 69 : Lozinak_31, Bachita_33, Engineer_32, Toniann_31, Smoothie_32, Norvs_32, PhinkBoden_31, Miskis_29, Geeche_30, Cucurbita_33, ClubL_31, Aphelion_31
- Track 70 : Culver_31, Dusty_30, Abscondus_30
- Track 71 : WilliamBoone_31
- Track 72 : OneUp_25
- Track 73 : BrutonGaster_19
- Track 74 : Dalilpop_30
- Track 75 : GRU1_15, GTE5_16
- Track 76 : Flapper_29, Turuncu_29
- Track 77 : NatB6_25, Foxboro_26, Phomeo_24, Kurt_25, Tracker_25, KidneyBean_25, Jifall16_24, Emianna_25
- Track 78 : Commandaria_27
- Track 79 : Bonum_28, Buggaboo_26, SuperSulley_26, Kabluna_28
- Track 80 : MerCougar_26

- Track 81 : StarStruck_26, Outis_26
- Track 82 : GrootJr_27, NovumRegina_25, Arti_25
- Track 83 : NosilaM_28
- Track 84 : Wheezy_25
- Track 85 : GTE8_14
- Track 86 : Ennea_31, Patio_28, Lollipop1437_30
- Track 87 : Float294_27, Skysand_27
- Track 88 : RedRaider_32
- Track 89 : Sukkupi_27, Yndexa_27, BiPauneto_28
- Track 90 : WhoseManz_27
- Track 91 : Marietta_27
- Track 92 : Pemberton_28
- Track 93 : NadineRae_25
- Track 94 : IDyn_26
- Track 95 : HubbaBubba_23
- Track 96 : Fury_34, Pleakley_34
- Track 97 : HomeFry_31
- Track 98 : Scuba_34
- Track 99 : Polyyuki_29
- Track 100 : Braxoaddie_29, Maselop_29, CoffeeBean_29, Apiary_29
- Track 101 : Gagieri_29
- Track 102 : MacGully_33
- Track 103 : Cardigan_31
- Track 104 : Yvonnetastic_29
- Track 105 : JonJames_31
- Track 106 : Daredevil_13, Towmatter_12
- Track 107 : DatBoi_14
- Track 108 : Bantam_13
- Track 109 : SpeedDemon_140
- Track 110 : Mollymur_14
- Track 111 : Kimchi1738_13
- Track 112 : C3PO_13
- Track 113 : PotatoChip_13, PeteyPab_13, Zion_13, Cruella_13
- Track 114 : Stickynote_15
- Track 115 : Darwin_16
- Track 116 : Clank_3
- Track 117 : Rita_3, Taj_3, PopTart_3, Bipolar_3, MilanaBonita_4, Mutaforma13_3, DeadP_3, Akhila_4, SassyB_3
- Track 118 : EmiMonkey_3, MadMen_3, PhlipPhlop_3
- Track 119 : Nimbo_3, Scottish_3, KingMidas_3, ByChance_3, Zerg_3, Dorothy_3, Burwell21_3, OldBen_3, Girr_3, Pacc40_3, ShowerHandel_3, Nivrat_3, PMC_3, Crumble_3, Inventum_3, Sassafras_3, Topiatin_5, Deb65_3, LilMoolah_3, SwagPigglett_3, Eradicator_3, RedBird_3, FreddyB_3, Radiance_3, Blexus_3, RitaG_3, OlympiaSaint_3, ShiLan_3, Jarcob_3, Martik_3, MisterCuddles_3, Yorick_3, PHappiness_3, JoeyJr_3, Llij_3, Lizziana_3, Spoonbill_3, Geralt_3, Doomphist_3, BlueCrab_3, Daenerys_3, Rockne_3, Ruby_3, Poenanya_3, Priscilla_3
- Track 120 : LunaBlu_3, Latretium_3, Hlubikazi_3, NewHope4_3, Galactic_3, Mahavrat_3, Strokeseat_3, Mandlovu_3
- Track 121 : Estave1_3, Che8_3
- Track 122 : DotProduct_3, Ovechkin_3, Guppsters_3, StAnnes_3, Batiatus_3, EleanorGeorge_3, Aubs_3, SG4_3, CaptainTrips_4, Phasih_3, KristaRAM_4, TDanisky_3, MinionDave_4, DRBy19_3, Chuckly_3, DLane_3, Whatsapiecost_3, Hamulus_3, Emma_3, Sparkdehlily_3

- Track 123 : Eish_3
- Track 124 : BobaPhett_3, James_3
- Track 125 : Gandalph_3
- Track 126 : Seabastian_3, Modragons_3, Ochi17_3, Llama_3, AlpineSix_3, OfUltron_3, Jinglebell_3
- Track 127 : Wachhund_3
- Track 128 : Byougenkin_3
- Track 129 : IrishSherpFalk_3, Spartacus_3, Koella_3, WillSterrel_3
- Track 130 : Veteran_3, GUmbie_3
- Track 131 : Ibhubesi_3, Harley_3
- Track 132 : Saal_3, Gorge_3, Brocalys_3
- Track 133 : VRedHorse_3
- Track 134 : IMpilo_3
- Track 135 : Mwanjiwa_3
- Track 136 : Florinda_3
- Track 137 : Doug_3
- Track 138 : Sabbb_3
- Track 139 : Fastidio_3
- Track 140 : Polka14_3
- Track 141 : Phanphagia_3, Shauna1_3, XFactor_3, Melissauren88_3, Ms6_3, Fruitloop_3, Royals2015_3, QuickMath_3, Firehouse51_3, PhesterPhotato_3, Wee_3, Ardmore_3
- Track 142 : Hades_3, Nitzel_4
- Track 143 : Cabrinians_3
- Track 144 : Phalconet_3
- Track 145 : Leperchaun_3
- Track 146 : Kenuha5_3
- Track 147 : Corium_3, PatoPoderoso_3
- Track 148 : Dante_3, Donkeykong_3, DillTech15_3, Tweety_3
- Track 149 : Sandalphon_3
- Track 150 : Zizzle_3
- Track 151 : SuperGrey_3
- Track 152 : Minnie_3
- Track 153 : Juniper1_3
- Track 154 : Empress_3
- Track 155 : GigiOuiOui_3, Moonbeam_3
- Track 156 : Grimmer_4
- Track 157 : Maravista_3
- Track 158 : Pippy_3, NormanBulbieJr_3, Clifton_3
- Track 159 : SeaLumen_3, Whouxphf_3
- Track 160 : Mantra_3
- Track 161 : DaddyRickover_3, Philus_3, BodEinwohner17_3
- Track 162 : SiSi_3, Phatniss_3
- Track 163 : Kersh_3
- Track 164 : Chevrolet_3, ArcusAngelus_3
- Track 165 : Mattes_3
- Track 166 : Violac_3
- Track 167 : Medindi_3
- Track 168 : Krakatau_4
- Track 169 : MilleniumForce_4
- Track 170 : Jennelsea_3
- Track 171 : Bubbles123_3
- Track 172 : DoRead_3

- Track 173 : Cheesepuff_3
- Track 174 : Jant_3
- Track 175 : KingJulian_3
- Track 176 : Nichirin_3
- Track 177 : Fancypants_3
- Track 178 : Karhdo_3
- Track 179 : LastJedi_3
- Track 180 : ShroomBoi_3
- Track 181 : Vivum_3
- Track 182 : IbOuu_3
- Track 183 : Filuzino_3
- Track 184 : Cornie_3
- Track 185 : MulchSalad_3
- Track 186 : ChewyVIII_39
- Track 187 : P1201_28
- Track 188 : Attoomi_4
- Track 189 : GAL1_5

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

The start number called the most often in the published annotations is 44, it was called in 159 of the 361 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
- Akhila_4, AlpineSix_3, ArcusAngelus_3, Ardmore_3, Aubs_3, Batiatus_3, Bipolar_3, Blexus_3, BlueCrab_3, BobaPhett_3, Brocalys_3, Bubbles123_3, Burwell21_3, ByChance_3, CaptainTrips_4, Che8_3, Cheesepuff_3, Chevrolet_3, Chuckly_3, Clifton_3, Crumble_3, DLane_3, DRBy19_3, Daenerys_3, Dante_3, DeadP_3, Deb65_3, DillTech15_3, DoRead_3, Donkeykong_3, Doomphist_3, Dorothy_3, DotProduct_3, Doug_3, Eish_3, EleanorGeorge_3, EmiMonkey_3, Emma_3, Empress_3, Eradicator_3, Estave1_3, Fancypants_3, Fastidio_3, Firehouse51_3, Florinda_3, FreddyB_3, Fruitloop_3, GUmbie_3, Galactic_3, Geralt_3, GigiOuiOui_3, Girr_3, Gorge_3, Guppsters_3, Hades_3, Hamulus_3, Harley_3, Hlubikazi_3, IbOuu_3, Ibhubesi_3, Inventum_3, IrishSherpFalk_3, James_3, Jarcob_3, Jinglebell_3, JoeyJr_3, Karhdo_3, Kenuha5_3, Kersh_3, KingJulian_3, KingMidas_3, Koella_3, KristaRAM_4, LastJedi_3, Latretium_3, Leperchaun_3, LilMoolah_3, Lizziana_3, Llama_3, Llij_3, LunaBlu_3, MadMen_3, Mahavrat_3, Mandlovu_3, Maravista_3, Martik_3, Melissauren88_3, MilanaBonita_4, MilleniumForce_4, MinionDave_4, MisterCuddles_3, Modragons_3, Moonbeam_3, Ms6_3, Mutaforma13_3, NewHope4_3, Nimbo_3, Nitzel_4, Nivrat_3, NormanBulbieJr_3, Ochi17_3, OfUltron_3, OldBen_3, OlympiaSaint_3, Ovechkin_3, PHappiness_3, PMC_3, Pacc40_3, Phalconet_3, Phanphagia_3, Phasih_3, Phatniss_3, PhesterPhotato_3, PhlipPhlop_3, Pippy_3, Poenanya_3, Polka14_3, PopTart_3, Priscilla_3, QuickMath_3, Radiance_3, RedBird_3, RitaG_3, Rita_3, Rockne_3, Royals2015_3, Ruby_3, SG4_3, Saal_3, Sabbb_3, Sandalphon_3, Sassafras_3, SassyB_3, Scottish_3, Seabastian_3, Shauna1_3, ShiLan_3, ShowerHandel_3, ShroomBoi_3, SiSi_3, Sparkdehlily_3, Spartacus_3, Spoonbill_3, StAnnes_3, Strokeseat_3, SuperGrey_3, SwagPigglett_3, TDanisky_3, Taj_3, Topiatin_5, Tweety_3, VRedHorse_3, Veteran_3, Violac_3, Vivum_3, Wachhund_3, Wee_3, Whatsapiecost_3, WillSterrel_3, XFactor_3, Yorick_3, Zerg_3, Zizzle_3,

Genes that have the "Most Annotated" start but do not call it:
• BodEinwohner17_3, Byougenkin_3, Cabrinians_3, Clank_3, Corium_3,
DaddyRickover_3, Filuzino_3, Gandalph_3, Grimmer_4, IMpilo_3, Jant_3,
Jennelsea_3, Juniper1_3, Krakatau_4, Mantra_3, Mattes_3, Medindi_3, Minnie_3,
MulchSalad_3, Mwanjiwa_3, Nichirin_3, PatoPoderoso_3, Philus_3, SeaLumen_3,
Whouxphf_3,

Genes that do not have the "Most Annotated" start:
• Aaronocolus_7, Abscondus_30, Alsaber_8, Alvy_9, Amela_7, Amethyst_7,
Andris_7, Animus_8, Aphelion_31, Apiary_29, Arti_25, Asten_7, Attoomi_4, Axiom_8,
Bachita_33, Bantam_13, BarryBee_9, BartholomewSD_9, BeardedLady_8,
BiPauneto_28, Bonum_28, Bovely_7, Bowden_8, Brataylor_8, Braxoaddie_29,
BroPlease_8, BrutonGaster_19, BryanRecycles_8, Buggaboo_26, C3PO_13,
Caelum_8, Caliburn_7, Cardigan_31, Celery_9, Celeste_7, Celia_7, ChewyVIII_39,
Chucky_7, ClubL_31, CoffeeBean_29, Commandaria_27, Conan_8, Cornie_3,
Cruella_13, Cucurbita_33, Culver_31, Dalilpop_30, Danzina_8, Daredevil_13,
Darwin_16, DatBoi_14, Dattran_8, Daudau_7, Dexers_6, Diane_7, Dusty_30,
Dwayne_7, ELB20_06, Eddasa_8, Ejemplo_7, ElGato_8, Emaanora_9, Emianna_25,
Engineer_32, Ennea_31, EnochSoames_8, Esperer_7, Flapper_29, Float294_27,
Foxboro_26, Fury_34, GAL1_5, GRU1_15, GTE5_16, GTE8_14, Gagieri_29,
Geeche_30, GirlDinner_7, Goby_7, Godpower_8, GreenWeasel_9, GrootJr_27,
Haizum_7, Hank144_8, Hippo_7, HomeFry_31, HubbaBubba_23, Hydra_9, IDyn_26,
Indigo_7, Issmi_8, Itza_7, Izzy_8, Janus_8, Jash_8, Jevington_9, Jhitchelle_7,
Jifall16_24, JonJames_31, Kabluna_28, Kaine_7, Katalie_8, KidneyBean_25,
Kimchi1738_13, Kurt_25, Lannister_8, Legacy_7, Leviticus_7, Lika_7,
Lollipop1437_30, Loofah_8, Lorelei_7, Lozinak_31, MacGully_33, Maneekul_7,
Marav_10, Marietta_27, Maselop_29, MerCougar_26, Miskis_29, Mollymur_14,
Nabi_7, NadineRae_25, Nanodon_9, NatB6_25, Nerdos_7, Nishikigoi_7, Norvs_32,
NosilaM_28, NovumRegina_25, Oliynyk_8, Omar_8, OneUp_25, Outis_26, Ozzie_7,
OzzyJ_8, P1201_28, Pablito_7, Paedore_7, Paolo_9, Patio_28, Pavo_8,
Pemberton_28, PeteyPab_13, Phettuccine_7, PhinkBoden_31, Phomeo_24,
Pleakley_34, Polyyuki_29, PotatoChip_13, Provolone_8, Puginator_9, R4_7, Rana_7,
RedBear_9, RedRaider_32, Rusticus_8, Saftant_7, SarahRose_7, Scuba_34,
Skysand_27, Smoothie_32, Snorlax_7, South40_8, SpeedDemon_140, Speedwell_8,
SqueakyClean_8, StarStruck_26, Stickynote_15, Sudan_8, Sujidade_8, Sukkupi_27,
SunkenRoot_9, SunsetPointe_7, SuperSulley_26, Superstar_9, TagePhighter_8,
Tefunt_7, Thestral_8, TinaBelcher_7, Toma_7, Toniann_31, Towmatter_12,
Tracker_25, Triste_7, Triumph_9, TrvxScott_6, TuanPN_7, Turuncu_29,
Unstoppable_7, Urza_7, Vanseggelen_10, Verabelle_8, Verse_7, VieEnRose_7,
Werner_7, Whatever_7, Wheezy_25, WhoseManz_27, WilliamBoone_31, Yasdnil_7,
Yndexa_27, Yosif_8, Yvonnetastic_29, Zainub_9, ZamZam_10, Zemlya_8, Zion_13,
phiCAM_07, phiHau3_9,

Summary by start number:

Start 18:
• Found in 9 of 398 (2.3%) of genes in pham
• Manual Annotations of this start: 7 of 361
• Called 77.8% of time when present
• Phage (with cluster) where this start called: BiPauneto_28 (CR4), HubbaBubba_23
(CR4), IDyn_26 (CR4), NadineRae_25 (CR4), Sukkupi_27 (CR4), WhoseManz_27
(CR4), Yndexa_27 (CR4),

Start 22:
• Found in 27 of 398 (6.8%) of genes in pham
• Manual Annotations of this start: 25 of 361
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Abscondus_30 (CQ1), Aphelion_31 (CQ1), Bachita_33 (CQ1), Bantam_13 (DL), BrutonGaster_19 (CQ2), Cardigan_31 (DD), ClubL_31 (CQ1), Cucurbita_33 (CQ1), Culver_31 (CQ1), Daredevil_13 (DL), DatBoi_14 (DL), Dusty_30 (CQ1), Engineer_32 (CQ1), Geeche_30 (CQ1), JonJames_31 (DD), Lozinak_31 (CQ1), Miskis_29 (CQ1), Mollymur_14 (DL), Norvs_32 (CQ1), OneUp_25 (CQ2), PhinkBoden_31 (CQ1), Smoothie_32 (CQ1), SpeedDemon_140 (DL), Toniann_31 (CQ1), Towmatter_12 (DL), WilliamBoone_31 (CQ1), Yvonnetastic_29 (DD),

Start 23:
• Found in 1 of 398 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 361
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Cornie_3 (F5),

Start 24:
• Found in 1 of 398 (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: GAL1_5 (singleton),

Start 25:
• Found in 6 of 398 (1.5%) of genes in pham
• Manual Annotations of this start: 6 of 361
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Apiary_29 (CR6), Braxoaddie_29 (CR6), CoffeeBean_29 (CR6), Gagieri_29 (CR6), Maselop_29 (CR6), Polyyuki_29 (CR6),

Start 27:
• Found in 1 of 398 (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: P1201_28 (singleton),

Start 28:
• Found in 6 of 398 (1.5%) of genes in pham
• Manual Annotations of this start: 6 of 361
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Ennea_31 (CR3), Float294_27 (CR3), Lollipop1437_30 (CR3), Patio_28 (CR3), RedRaider_32 (CR3), Skysand_27 (CR3),

Start 29:
• Found in 24 of 398 (6.0%) of genes in pham
• Manual Annotations of this start: 8 of 361
• Called 50.0% of time when present
• Phage (with cluster) where this start called: C3PO_13 (EN), Dalilpop_30 (CR1), Darwin_16 (EN), Flapper_29 (CR1), Fury_34 (CR5), GRU1_15 (CR1), GTE5_16 (CR1), HomeFry_31 (CR5), MacGully_33 (CR7), Pleakley_34 (CR5), Scuba_34

(CR5), Turuncu_29 (CR1),

Start 30:
• Found in 32 of 398 (8.0%) of genes in pham
• Manual Annotations of this start: 23 of 361
• Called 78.1% of time when present
• Phage (with cluster) where this start called: Arti_25 (CR2), Bonum_28 (CR2), Buggaboo_26 (CR2), ChewyVIII_39 (singleton), Commandaria_27 (CR2), Emianna_25 (CR2), Foxboro_26 (CR2), GTE8_14 (CR2), GrootJr_27 (CR2), Jifall16_24 (CR2), Kabluna_28 (CR2), KidneyBean_25 (CR2), Kurt_25 (CR2), Marietta_27 (CR4), MerCougar_26 (CR2), NatB6_25 (CR2), NosilaM_28 (CR2), NovumRegina_25 (CR2), Outis_26 (CR2), Pemberton_28 (CR4), Phomeo_24 (CR2), StarStruck_26 (CR2), SuperSulley_26 (CR2), Tracker_25 (CR2), Wheezy_25 (CR2),

Start 34:
• Found in 8 of 398 (2.0%) of genes in pham
• Manual Annotations of this start: 6 of 361
• Called 75.0% of time when present
• Phage (with cluster) where this start called: Cruella_13 (EN), Kimchi1738_13 (EN), PeteyPab_13 (EN), PotatoChip_13 (EN), Stickynote_15 (EN), Zion_13 (EN),

Start 39:
• Found in 56 of 398 (14.1%) of genes in pham
• Manual Annotations of this start: 4 of 361
• Called 7.1% of time when present
• Phage (with cluster) where this start called: Caliburn_7 (BD1), Lorelei_7 (BD1), Maneekul_7 (BD1), Oliynyk_8 (BD1),

Start 40:
• Found in 10 of 398 (2.5%) of genes in pham
• Manual Annotations of this start: 1 of 361
• Called 10.0% of time when present
• Phage (with cluster) where this start called: Attoomi_4 (singleton),

Start 43:
• Found in 117 of 398 (29.4%) of genes in pham
• Manual Annotations of this start: 102 of 361
• Called 94.9% of time when present
• Phage (with cluster) where this start called: Aaronocolus_7 (BD1), Alsaber_8 (BD3), Alvy_9 (BD2), Amela_7 (BD3), Amethyst_7 (BD2), Andris_7 (BD2), Animus_8 (BD2), Asten_7 (BD1), Axiom_8 (BD2), BarryBee_9 (BD1), BartholomewSD_9 (BD2), BeardedLady_8 (BD1), Bovely_7 (BD1), Bowden_8 (BD2), Brataylor_8 (BD1), BroPlease_8 (BD4), BryanRecycles_8 (BD1), Caelum_8 (BD2), Celery_9 (BD3), Celeste_7 (BD1), Celia_7 (BD6), Chucky_7 (BD1), Conan_8 (BD3), Danzina_8 (BD1), Dattran_8 (BD1), Daudau_7 (BD2), Dexers_6 (BD3), Diane_7 (BD2), Dwayne_7 (BD1), ELB20_06 (BD2), Eddasa_8 (BD1), Ejemplo_7 (BD1), ElGato_8 (BD3), Emaanora_9 (BD1), EnochSoames_8 (BD1), Esperer_7 (BD1), GirlDinner_7 (BD2), Goby_7 (BD1), Godpower_8 (BD1), GreenWeasel_9 (BD4), Haizum_7 (BD2), Hank144_8 (BD2), Hippo_7 (BD1), Hydra_9 (BD1), Indigo_7 (BD1), Issmi_8 (BD2), Itza_7 (BD6), Izzy_8 (BD1), Janus_8 (BD2), Jash_8 (BD1), Jevington_9 (BD2), Jhitchelle_7 (BD3), Kaine_7 (BD3), Katalie_8 (BD1), Lannister_8 (BD1), Legacy_7 (BD1), Leviticus_7 (BD1), Lika_7 (BD1), Loofah_8 (BD2), Marav_10 (BD2), Nabi_7 (BD1), Nanodon_9 (BD1), Nerdos_7 (BD1), Nishikigoi_7 (BD2), Omar_8 (BD2),

Ozzie_7 (BD1), OzzyJ_8 (BD1), Pablito_7 (BD2), Paedore_7 (BD2), Paolo_9 (BD2), Pavo_8 (BD3), Phettuccine_7 (BD1), Provolone_8 (BD3), Puginator_9 (BD2), R4_7 (BD2), Rana_7 (BD1), RedBear_9 (BD1), Rusticus_8 (BD1), Saftant_7 (BD3), SarahRose_7 (BD1), Snorlax_7 (BD1), South40_8 (BD1), Speedwell_8 (BD3), SqueakyClean_8 (BD2), Sudan_8 (BD3), Sujidade_8 (BD1), SunkenRoot_9 (BD3), SunsetPointe_7 (BD1), Superstar_9 (BD2), TagePhighter_8 (BD1), Tefunt_7 (BD2), Thestral_8 (BD2), TinaBelcher_7 (BD2), Toma_7 (BD1), Triste_7 (BD1), Triumph_9 (BD2), TrvxScott_6 (BD2), TuanPN_7 (BD1), Unstoppable_7 (BD1), Urza_7 (BD6), Vanseggelen_10 (BD3), Verabelle_8 (BD3), Verse_7 (BD3), Werner_7 (BD1), Whatever_7 (BD1), Yasdnil_7 (BD1), Yosif_8 (BD3), Zainub_9 (BD2), ZamZam_10 (BD3), Zemlya_8 (BD1), phiHau3_9 (BD4),

Start 44:
• Found in 188 of 398 (47.2%) of genes in pham
• Manual Annotations of this start: 159 of 361
• Called 86.7% of time when present
• Phage (with cluster) where this start called: Akhila_4 (F1), AlpineSix_3 (F1), ArcusAngelus_3 (F1), Ardmore_3 (F1), Aubs_3 (F1), Batiatus_3 (F1), Bipolar_3 (F1), Blexus_3 (F1), BlueCrab_3 (F1), BobaPhett_3 (F1), Brocalys_3 (F1), Bubbles123_3 (F1), Burwell21_3 (F1), ByChance_3 (F1), CaptainTrips_4 (F1), Che8_3 (F1), Cheesepuff_3 (F1), Chevrolet_3 (F1), Chuckly_3 (F1), Clifton_3 (F1), Crumble_3 (F1), DLane_3 (F1), DRBy19_3 (F1), Daenerys_3 (F1), Dante_3 (F1), DeadP_3 (F1), Deb65_3 (F1), DillTech15_3 (F1), DoRead_3 (F1), Donkeykong_3 (F1), Doomphist_3 (F1), Dorothy_3 (F1), DotProduct_3 (F1), Doug_3 (F1), Eish_3 (F1), EleanorGeorge_3 (F1), EmiMonkey_3 (F1), Emma_3 (F1), Empress_3 (F1), Eradicator_3 (F1), Estave1_3 (F1), Fancypants_3 (F1), Fastidio_3 (F1), Firehouse51_3 (F1), Florinda_3 (F1), FreddyB_3 (F1), Fruitloop_3 (F1), GUmbie_3 (F1), Galactic_3 (F1), Geralt_3 (F1), GigiOuiOui_3 (F1), Girr_3 (F1), Gorge_3 (F1), Guppsters_3 (F1), Hades_3 (F1), Hamulus_3 (F1), Harley_3 (F1), Hlubikazi_3 (F1), IbOuu_3 (F1), Ibhubesi_3 (F1), Inventum_3 (F1), IrishSherpFalk_3 (F1), James_3 (F1), Jarcob_3 (F1), Jinglebell_3 (F1), JoeyJr_3 (F1), Karhdo_3 (F1), Kenuha5_3 (F1), Kersh_3 (F1), KingJulian_3 (F1), KingMidas_3 (F1), Koella_3 (F1), KristaRAM_4 (F1), LastJedi_3 (F1), Latretium_3 (F1), Leperchaun_3 (F1), LilMoolah_3 (F1), Lizziana_3 (F1), Llama_3 (F1), Llij_3 (F1), LunaBlu_3 (F1), MadMen_3 (F1), Mahavrat_3 (F1), Mandlovu_3 (F1), Maravista_3 (F1), Martik_3 (F1), Melissauren88_3 (F1), MilanaBonita_4 (F1), MilleniumForce_4 (F1), MinionDave_4 (F1), MisterCuddles_3 (F1), Modragons_3 (F1), Moonbeam_3 (F1), Ms6_3 (F1), Mutaforma13_3 (F1), NewHope4_3 (F1), Nimbo_3 (F1), Nitzel_4 (F1), Nivrat_3 (F1), NormanBulbieJr_3 (F1), Ochi17_3 (F1), OfUltron_3 (F1), OldBen_3 (F1), OlympiaSaint_3 (F1), Ovechkin_3 (F1), PHappiness_3 (F1), PMC_3 (F1), Pacc40_3 (F1), Phalconet_3 (F1), Phanphagia_3 (F1), Phasih_3 (F1), Phatniss_3 (F1), PhesterPhotato_3 (F1), PhlipPhlop_3 (F1), Pippy_3 (F1), Poenanya_3 (F1), Polka14_3 (F1), PopTart_3 (F1), Priscilla_3 (F1), QuickMath_3 (F1), Radiance_3 (F1), RedBird_3 (F1), RitaG_3 (F1), Rita_3 (F1), Rockne_3 (F1), Royals2015_3 (F1), Ruby_3 (F1), SG4_3 (F1), Saal_3 (F1), Sabbb_3 (F1), Sandalphon_3 (F1), Sassafras_3 (F1), SassyB_3 (F1), Scottish_3 (F1), Seabastian_3 (F1), Shauna1_3 (F1), ShiLan_3 (F1), ShowerHandel_3 (F1), ShroomBoi_3 (F1), SiSi_3 (F1), Sparkdehlily_3 (F1), Spartacus_3 (F1), Spoonbill_3 (F1), StAnnes_3 (F1), Strokeseat_3 (F1), SuperGrey_3 (F1), SwagPigglett_3 (F1), TDanisky_3 (F1), Taj_3 (F1), Topiatin_5 (F1), Tweety_3 (F1), VRedHorse_3 (F1), Veteran_3 (F1), Violac_3 (F1), Vivum_3 (F1), Wachhund_3 (F1), Wee_3 (F1), Whatsapiecost_3 (F1), WillSterrel_3 (F1), XFactor_3 (F1), Yorick_3 (F1), Zerg_3 (F1), Zizzle_3 (F1),

Start 48:
• Found in 4 of 398 (1.0%) of genes in pham
• Manual Annotations of this start: 1 of 361
• Called 25.0% of time when present
• Phage (with cluster) where this start called: VieEnRose_7 (BD6),

Start 52:
• Found in 35 of 398 (8.8%) of genes in pham
• Manual Annotations of this start: 2 of 361
• Called 17.1% of time when present
• Phage (with cluster) where this start called: Byougenkin_3 (F1), Grimmer_4 (F1), Mwanjiwa_3 (F1), Nichirin_3 (F1), SeaLumen_3 (F1), Whouxphf_3 (F1),

Start 53:
• Found in 153 of 398 (38.4%) of genes in pham
• Manual Annotations of this start: 9 of 361
• Called 10.5% of time when present
• Phage (with cluster) where this start called: BodEinwohner17_3 (F1), Cabrinians_3 (F1), Corium_3 (F1), DaddyRickover_3 (F1), Filuzino_3 (F1), Gandalph_3 (F1), IMpilo_3 (F1), Jant_3 (F1), Juniper1_3 (F1), Krakatau_4 (F1), Mattes_3 (F1), Medindi_3 (F1), Minnie_3 (F1), MulchSalad_3 (F7), PatoPoderoso_3 (F1), Philus_3 (F1),

Start 57:
• Found in 204 of 398 (51.3%) of genes in pham
• Manual Annotations of this start: 1 of 361
• Called 1.5% of time when present
• Phage (with cluster) where this start called: Clank_3 (F), Jennelsea_3 (F1), Mantra_3 (F1),

Start 63:
• Found in 123 of 398 (30.9%) of genes in pham
• No Manual Annotations of this start.
• Called 0.8% of time when present
• Phage (with cluster) where this start called: phiCAM_07 (BD3),

Summary by clusters:

There are 22 clusters represented in this pham: DL, DD, singleton, BD4, BD6, BD1, BD3, BD2, CQ2, CQ1, EN, F, CR3, CR7, CR2, F1, CR1, CR6, F5, CR4, F7, CR5,

Info for manual annotations of cluster BD1:
•Start number 39 was manually annotated 4 times for cluster BD1.
•Start number 43 was manually annotated 51 times for cluster BD1.

Info for manual annotations of cluster BD2:
•Start number 43 was manually annotated 33 times for cluster BD2.

Info for manual annotations of cluster BD3:
•Start number 43 was manually annotated 12 times for cluster BD3.

Info for manual annotations of cluster BD4:
•Start number 43 was manually annotated 3 times for cluster BD4.

Info for manual annotations of cluster BD6:
•Start number 43 was manually annotated 3 times for cluster BD6.
•Start number 48 was manually annotated 1 time for cluster BD6.

Info for manual annotations of cluster CQ1:
•Start number 22 was manually annotated 15 times for cluster CQ1.

Info for manual annotations of cluster CQ2:
•Start number 22 was manually annotated 2 times for cluster CQ2.

Info for manual annotations of cluster CR1:
•Start number 29 was manually annotated 3 times for cluster CR1.

Info for manual annotations of cluster CR2:
•Start number 30 was manually annotated 21 times for cluster CR2.

Info for manual annotations of cluster CR3:
•Start number 28 was manually annotated 6 times for cluster CR3.

Info for manual annotations of cluster CR4:
•Start number 18 was manually annotated 7 times for cluster CR4.
•Start number 30 was manually annotated 1 time for cluster CR4.

Info for manual annotations of cluster CR5:
•Start number 29 was manually annotated 2 times for cluster CR5.

Info for manual annotations of cluster CR6:
•Start number 25 was manually annotated 6 times for cluster CR6.

Info for manual annotations of cluster CR7:
•Start number 29 was manually annotated 1 time for cluster CR7.

Info for manual annotations of cluster DD:
•Start number 22 was manually annotated 2 times for cluster DD.

Info for manual annotations of cluster DL:
•Start number 22 was manually annotated 6 times for cluster DL.

Info for manual annotations of cluster EN:
•Start number 29 was manually annotated 2 times for cluster EN.
•Start number 34 was manually annotated 6 times for cluster EN.

Info for manual annotations of cluster F1:
•Start number 44 was manually annotated 159 times for cluster F1.
•Start number 52 was manually annotated 2 times for cluster F1.
•Start number 53 was manually annotated 9 times for cluster F1.
•Start number 57 was manually annotated 1 time for cluster F1.

Info for manual annotations of cluster F5:
•Start number 23 was manually annotated 1 time for cluster F5.

Gene Information:

Gene: Aaronocolus_7 Start: 4081, Stop: 5523, Start Num: 43
Candidate Starts for Aaronocolus_7:
(37, 4072), (Start: 39 @4075 has 4 MA's), (Start: 43 @4081 has 102 MA's), (63, 4198), (69, 4246), (130, 4564), (143, 4606), (150, 4633), (156, 4666), (175, 4759), (178, 4771), (196, 4864), (220, 4942), (225, 4987), (232, 5044), (235, 5068), (278, 5281), (318, 5509),

Gene: Abscondus_30 Start: 10194, Stop: 11810, Start Num: 22
Candidate Starts for Abscondus_30:
(Start: 22 @10194 has 25 MA's), (42, 10245), (45, 10254), (Start: 57 @10314 has 1 MA's), (64, 10371), (70, 10404), (71, 10407), (82, 10452), (86, 10479), (117, 10683), (124, 10713), (131, 10749), (142, 10794), (146, 10803), (149, 10818), (181, 10959), (184, 10977), (186, 10983), (192, 11025), (223, 11217), (234, 11304), (238, 11334), (247, 11379), (256, 11427), (258, 11442), (275, 11505), (279, 11529), (280, 11535), (282, 11544), (295, 11613), (303, 11664), (304, 11667), (306, 11679),

Gene: Akhila_4 Start: 2903, Stop: 4273, Start Num: 44
Candidate Starts for Akhila_4:
(Start: 44 @2903 has 159 MA's), (Start: 53 @2939 has 9 MA's), (Start: 57 @2963 has 1 MA's), (58, 2972), (59, 2978), (60, 2981), (64, 3020), (78, 3086), (79, 3089), (89, 3158), (97, 3197), (99, 3206), (109, 3254), (118, 3314), (128, 3362), (140, 3407), (163, 3452), (168, 3479), (175, 3524), (180, 3545), (181, 3548), (182, 3551), (186, 3572), (188, 3581), (197, 3632), (198, 3635), (201, 3644), (207, 3674), (211, 3695), (221, 3764), (224, 3773), (229, 3824), (230, 3827), (236, 3881), (238, 3887), (240, 3893), (260, 4004), (263, 4016), (272, 4049), (274, 4055), (279, 4079), (303, 4223), (309, 4241),

Gene: AlpineSix_3 Start: 2249, Stop: 3607, Start Num: 44
Candidate Starts for AlpineSix_3:
(Start: 44 @2249 has 159 MA's), (Start: 52 @2282 has 2 MA's), (Start: 57 @2309 has 1 MA's), (58, 2318), (59, 2324), (60, 2327), (64, 2366), (78, 2432), (79, 2435), (89, 2504), (91, 2510), (97, 2543), (99, 2552), (109, 2600), (118, 2660), (128, 2708), (140, 2753), (163, 2798), (168, 2825), (175, 2870), (180, 2891), (181, 2894), (182, 2897), (186, 2918), (188, 2927), (197, 2978), (198, 2981), (201, 2990), (207, 3020), (211, 3041), (221, 3110), (224, 3119), (229, 3170), (230, 3173), (236, 3227), (238, 3233), (240, 3239), (254, 3317), (260, 3350), (263, 3362), (272, 3395), (274, 3401), (279, 3425), (303, 3569),

Gene: Alsaber_8 Start: 4192, Stop: 5625, Start Num: 43
Candidate Starts for Alsaber_8:
(Start: 43 @4192 has 102 MA's), (63, 4309), (69, 4357), (73, 4369), (117, 4612), (138, 4699), (155, 4759), (157, 4777), (159, 4783), (178, 4882), (191, 4957), (196, 4975), (213, 5014), (220, 5050), (232, 5152), (260, 5314), (265, 5332), (278, 5389), (293, 5479), (301, 5521), (313, 5587), (318, 5611),

Gene: Alvy_9 Start: 4026, Stop: 5492, Start Num: 43
Candidate Starts for Alvy_9:
(Start: 43 @4026 has 102 MA's), (63, 4137), (69, 4185), (73, 4197), (81, 4236), (97, 4326), (130, 4497), (131, 4500), (138, 4521), (143, 4539), (150, 4566), (175, 4692), (178, 4704), (191, 4779), (196, 4797), (202, 4815), (205, 4824), (217, 4905), (225, 4962), (231, 5013), (232, 5019), (265, 5199), (278, 5256), (293, 5346), (295, 5355), (315, 5460), (318, 5478),

Gene: Amela_7 Start: 4252, Stop: 5685, Start Num: 43
Candidate Starts for Amela_7:

(Start: 43 @4252 has 102 MA's), (63, 4369), (69, 4417), (73, 4429), (117, 4672), (138, 4759), (157, 4837), (159, 4843), (178, 4942), (191, 5017), (196, 5035), (213, 5074), (220, 5110), (232, 5212), (260, 5374), (265, 5392), (278, 5449), (301, 5581), (306, 5611), (318, 5671),

Gene: Amethyst_7 Start: 3826, Stop: 5301, Start Num: 43
Candidate Starts for Amethyst_7:
(Start: 43 @3826 has 102 MA's), (50, 3856), (63, 3943), (81, 4042), (97, 4135), (156, 4408), (178, 4513), (196, 4606), (200, 4618), (202, 4624), (225, 4771), (231, 4822), (232, 4828), (265, 5008), (278, 5065), (293, 5155), (295, 5164), (318, 5287),

Gene: Andris_7 Start: 3857, Stop: 5341, Start Num: 43
Candidate Starts for Andris_7:
(Start: 43 @3857 has 102 MA's), (63, 3974), (73, 4034), (74, 4040), (81, 4073), (97, 4166), (101, 4187), (116, 4265), (131, 4340), (143, 4379), (156, 4439), (178, 4544), (191, 4619), (196, 4637), (200, 4649), (202, 4655), (204, 4661), (231, 4853), (232, 4859), (259, 5018), (278, 5096), (293, 5186), (295, 5195), (301, 5228), (318, 5327),

Gene: Animus_8 Start: 4204, Stop: 5691, Start Num: 43
Candidate Starts for Animus_8:
(Start: 43 @4204 has 102 MA's), (63, 4321), (81, 4420), (90, 4474), (97, 4513), (143, 4726), (178, 4894), (191, 4969), (193, 4978), (196, 4987), (202, 5005), (204, 5011), (225, 5152), (231, 5203), (232, 5209), (278, 5446), (295, 5545), (301, 5578), (318, 5677),

Gene: Aphelion_31 Start: 10441, Stop: 12057, Start Num: 22
Candidate Starts for Aphelion_31:
(Start: 22 @10441 has 25 MA's), (42, 10492), (45, 10501), (Start: 57 @10561 has 1 MA's), (64, 10618), (71, 10654), (82, 10699), (86, 10726), (117, 10930), (124, 10960), (131, 10996), (142, 11041), (146, 11050), (149, 11065), (180, 11203), (181, 11206), (184, 11224), (186, 11230), (192, 11272), (223, 11464), (234, 11551), (238, 11581), (247, 11626), (256, 11674), (258, 11689), (275, 11752), (279, 11776), (280, 11782), (282, 11791), (295, 11860), (303, 11911), (304, 11914), (306, 11926),

Gene: Apiary_29 Start: 15865, Stop: 17454, Start Num: 25
Candidate Starts for Apiary_29:
(20, 15838), (Start: 25 @15865 has 6 MA's), (Start: 29 @15871 has 8 MA's), (32, 15880), (36, 15898), (38, 15901), (54, 15958), (65, 16051), (97, 16225), (98, 16231), (116, 16351), (131, 16426), (134, 16435), (148, 16483), (190, 16663), (193, 16684), (199, 16702), (203, 16714), (221, 16819), (226, 16846), (231, 16891), (233, 16903), (236, 16936), (253, 17014), (256, 17035), (260, 17059), (262, 17068), (269, 17092), (292, 17212), (293, 17221), (296, 17245),

Gene: ArcusAngelus_3 Start: 2241, Stop: 3611, Start Num: 44
Candidate Starts for ArcusAngelus_3:
(Start: 44 @2241 has 159 MA's), (Start: 53 @2277 has 9 MA's), (Start: 57 @2301 has 1 MA's), (58, 2310), (59, 2316), (60, 2319), (64, 2358), (77, 2421), (78, 2424), (79, 2427), (89, 2496), (91, 2502), (97, 2535), (99, 2544), (109, 2592), (118, 2652), (123, 2673), (128, 2700), (140, 2745), (163, 2790), (168, 2817), (175, 2862), (180, 2883), (181, 2886), (182, 2889), (186, 2910), (188, 2919), (197, 2970), (198, 2973), (201, 2982), (207, 3012), (211, 3033), (221, 3102), (224, 3111), (229, 3162), (230, 3165), (238, 3225), (240, 3231), (254, 3309), (260, 3342), (263, 3354), (272, 3387), (274, 3393), (279, 3417), (303, 3561), (309, 3579),

Gene: Ardmore_3 Start: 2255, Stop: 3625, Start Num: 44
Candidate Starts for Ardmore_3:
(Start: 44 @2255 has 159 MA's), (Start: 53 @2291 has 9 MA's), (Start: 57 @2315 has 1 MA's), (58, 2324), (59, 2330), (60, 2333), (64, 2372), (78, 2438), (79, 2441), (89, 2510), (97, 2549), (99, 2558),

(109, 2606), (118, 2666), (128, 2714), (140, 2759), (163, 2804), (168, 2831), (175, 2876), (180, 2897), (181, 2900), (182, 2903), (186, 2924), (188, 2933), (197, 2984), (198, 2987), (201, 2996), (207, 3026), (211, 3047), (221, 3116), (224, 3125), (229, 3176), (230, 3179), (236, 3233), (238, 3239), (240, 3245), (251, 3302), (260, 3356), (263, 3368), (272, 3401), (274, 3407), (279, 3431), (303, 3575), (309, 3593),

Gene: Arti_25 Start: 13883, Stop: 15472, Start Num: 30
Candidate Starts for Arti_25:
(Start: 30 @13883 has 23 MA's), (32, 13889), (35, 13904), (54, 13967), (85, 14159), (97, 14237), (102, 14261), (105, 14291), (161, 14522), (181, 14639), (193, 14711), (198, 14726), (203, 14741), (220, 14822), (236, 14963), (256, 15062), (258, 15077), (260, 15086), (262, 15095), (271, 15131), (277, 15155), (292, 15239), (293, 15248), (300, 15293),

Gene: Asten_7 Start: 4055, Stop: 5491, Start Num: 43
Candidate Starts for Asten_7:
(Start: 39 @4049 has 4 MA's), (Start: 43 @4055 has 102 MA's), (49, 4079), (55, 4103), (63, 4172), (69, 4220), (73, 4232), (81, 4271), (107, 4424), (130, 4538), (143, 4580), (150, 4607), (156, 4640), (175, 4736), (178, 4748), (191, 4823), (196, 4841), (220, 4919), (225, 4964), (232, 5021), (273, 5234), (278, 5258), (301, 5390), (313, 5456), (318, 5477),

Gene: Attoomi_4 Start: 2521, Stop: 3972, Start Num: 40
Candidate Starts for Attoomi_4:
(Start: 40 @2521 has 1 MA's), (47, 2545), (69, 2692), (72, 2701), (76, 2716), (80, 2737), (81, 2743), (97, 2848), (106, 2905), (116, 2956), (119, 2971), (125, 3013), (130, 3028), (133, 3037), (153, 3103), (155, 3106), (159, 3133), (175, 3220), (177, 3223), (178, 3232), (183, 3253), (185, 3265), (196, 3325), (214, 3370), (222, 3430), (228, 3478), (234, 3520), (237, 3547), (242, 3559), (243, 3568), (245, 3592), (249, 3607), (250, 3613), (253, 3625), (264, 3685), (267, 3697), (286, 3790), (291, 3814), (295, 3835), (297, 3850), (301, 3868), (306, 3898), (310, 3910), (312, 3922),

Gene: Aubs_3 Start: 2255, Stop: 3625, Start Num: 44
Candidate Starts for Aubs_3:
(Start: 44 @2255 has 159 MA's), (Start: 53 @2291 has 9 MA's), (Start: 57 @2315 has 1 MA's), (58, 2324), (59, 2330), (60, 2333), (64, 2372), (78, 2438), (79, 2441), (89, 2510), (97, 2549), (99, 2558), (109, 2606), (118, 2666), (128, 2714), (140, 2759), (163, 2804), (168, 2831), (175, 2876), (180, 2897), (181, 2900), (182, 2903), (186, 2924), (188, 2933), (197, 2984), (198, 2987), (201, 2996), (207, 3026), (211, 3047), (221, 3116), (224, 3125), (229, 3176), (230, 3179), (236, 3233), (238, 3239), (239, 3242), (240, 3245), (251, 3302), (260, 3356), (263, 3368), (272, 3401), (274, 3407), (279, 3431), (303, 3575), (309, 3593),

Gene: Axiom_8 Start: 3866, Stop: 5350, Start Num: 43
Candidate Starts for Axiom_8:
(Start: 43 @3866 has 102 MA's), (63, 3983), (69, 4031), (73, 4043), (97, 4175), (131, 4349), (143, 4388), (156, 4448), (174, 4535), (175, 4541), (178, 4553), (196, 4646), (200, 4658), (202, 4664), (225, 4811), (231, 4862), (232, 4868), (278, 5105), (295, 5204), (301, 5237), (310, 5279), (318, 5336),

Gene: Bachita_33 Start: 10874, Stop: 12490, Start Num: 22
Candidate Starts for Bachita_33:
(Start: 22 @10874 has 25 MA's), (42, 10925), (45, 10934), (Start: 57 @10994 has 1 MA's), (64, 11051), (71, 11087), (82, 11132), (86, 11159), (117, 11363), (124, 11393), (131, 11429), (142, 11474), (146, 11483), (149, 11498), (180, 11636), (181, 11639), (184, 11657), (186, 11663), (192, 11705), (223, 11897), (234, 11984), (238, 12014), (247, 12059), (256, 12107), (258, 12122), (275, 12185), (279, 12209), (280, 12215), (282, 12224), (295, 12293), (303, 12344), (304, 12347), (306, 12359),

Gene: Bantam_13 Start: 7834, Stop: 9393, Start Num: 22

Candidate Starts for Bantam_13:
(Start: 22 @7834 has 25 MA's), (71, 8050), (82, 8095), (99, 8200), (117, 8299), (118, 8302), (124, 8329), (139, 8398), (174, 8533), (180, 8566), (181, 8569), (186, 8593), (216, 8764), (225, 8839), (233, 8902), (238, 8941), (248, 8989), (253, 9013), (265, 9076), (281, 9148), (283, 9163), (295, 9220), (301, 9259), (303, 9271), (304, 9274), (307, 9289), (310, 9298),

Gene: BarryBee_9 Start: 4055, Stop: 5491, Start Num: 43
Candidate Starts for BarryBee_9:
(Start: 39 @4049 has 4 MA's), (Start: 43 @4055 has 102 MA's), (49, 4079), (55, 4103), (63, 4172), (69, 4220), (73, 4232), (81, 4271), (107, 4424), (130, 4538), (143, 4580), (150, 4607), (156, 4640), (158, 4646), (175, 4736), (178, 4748), (191, 4823), (196, 4841), (220, 4919), (225, 4964), (232, 5021), (273, 5234), (278, 5258), (301, 5390), (313, 5456), (318, 5477),

Gene: BartholomewSD_9 Start: 4026, Stop: 5492, Start Num: 43
Candidate Starts for BartholomewSD_9:
(Start: 43 @4026 has 102 MA's), (63, 4137), (69, 4185), (73, 4197), (81, 4236), (97, 4326), (130, 4497), (131, 4500), (138, 4521), (143, 4539), (150, 4566), (175, 4692), (178, 4704), (191, 4779), (196, 4797), (202, 4815), (205, 4824), (217, 4905), (225, 4962), (231, 5013), (232, 5019), (241, 5070), (265, 5199), (278, 5256), (293, 5346), (295, 5355), (315, 5460), (318, 5478),

Gene: Batiatus_3 Start: 2255, Stop: 3625, Start Num: 44
Candidate Starts for Batiatus_3:
(Start: 44 @2255 has 159 MA's), (Start: 53 @2291 has 9 MA's), (Start: 57 @2315 has 1 MA's), (58, 2324), (59, 2330), (60, 2333), (64, 2372), (78, 2438), (79, 2441), (89, 2510), (97, 2549), (99, 2558), (109, 2606), (118, 2666), (128, 2714), (140, 2759), (163, 2804), (168, 2831), (175, 2876), (180, 2897), (181, 2900), (182, 2903), (186, 2924), (188, 2933), (197, 2984), (198, 2987), (201, 2996), (207, 3026), (211, 3047), (221, 3116), (224, 3125), (229, 3176), (230, 3179), (236, 3233), (238, 3239), (239, 3242), (240, 3245), (251, 3302), (260, 3356), (263, 3368), (272, 3401), (274, 3407), (279, 3431), (303, 3575), (309, 3593),

Gene: BeardedLady_8 Start: 4328, Stop: 5770, Start Num: 43
Candidate Starts for BeardedLady_8:
(37, 4319), (Start: 39 @4322 has 4 MA's), (Start: 43 @4328 has 102 MA's), (63, 4445), (69, 4493), (130, 4811), (143, 4853), (150, 4880), (156, 4913), (175, 5006), (178, 5018), (196, 5111), (220, 5189), (225, 5234), (232, 5291), (235, 5315), (278, 5528), (318, 5756),

Gene: BiPauneto_28 Start: 13790, Stop: 15412, Start Num: 18
Candidate Starts for BiPauneto_28:
(Start: 18 @13790 has 7 MA's), (Start: 30 @13835 has 23 MA's), (36, 13859), (41, 13868), (161, 14474), (170, 14519), (193, 14651), (203, 14681), (220, 14762), (231, 14858), (235, 14888), (236, 14903), (260, 15026), (262, 15035), (271, 15071), (277, 15095), (289, 15161), (292, 15179), (293, 15188), (300, 15233),

Gene: Bipolar_3 Start: 2255, Stop: 3625, Start Num: 44
Candidate Starts for Bipolar_3:
(Start: 44 @2255 has 159 MA's), (Start: 53 @2291 has 9 MA's), (Start: 57 @2315 has 1 MA's), (58, 2324), (59, 2330), (60, 2333), (64, 2372), (78, 2438), (79, 2441), (89, 2510), (97, 2549), (99, 2558), (109, 2606), (118, 2666), (128, 2714), (140, 2759), (163, 2804), (168, 2831), (175, 2876), (180, 2897), (181, 2900), (182, 2903), (186, 2924), (188, 2933), (197, 2984), (198, 2987), (201, 2996), (207, 3026), (211, 3047), (221, 3116), (224, 3125), (229, 3176), (230, 3179), (236, 3233), (238, 3239), (240, 3245), (260, 3356), (263, 3368), (272, 3401), (274, 3407), (279, 3431), (303, 3575), (309, 3593),

Gene: Blexus_3 Start: 2255, Stop: 3625, Start Num: 44

Candidate Starts for Blexus_3:
(Start: 44 @2255 has 159 MA's), (Start: 53 @2291 has 9 MA's), (Start: 57 @2315 has 1 MA's), (58, 2324), (59, 2330), (60, 2333), (64, 2372), (78, 2438), (79, 2441), (89, 2510), (97, 2549), (99, 2558), (109, 2606), (118, 2666), (128, 2714), (140, 2759), (163, 2804), (168, 2831), (175, 2876), (180, 2897), (181, 2900), (182, 2903), (186, 2924), (188, 2933), (197, 2984), (198, 2987), (201, 2996), (207, 3026), (211, 3047), (221, 3116), (224, 3125), (229, 3176), (230, 3179), (238, 3239), (240, 3245), (254, 3323), (260, 3356), (263, 3368), (274, 3407), (279, 3431), (309, 3593),

Gene: BlueCrab_3 Start: 2239, Stop: 3609, Start Num: 44
Candidate Starts for BlueCrab_3:
(Start: 44 @2239 has 159 MA's), (Start: 53 @2275 has 9 MA's), (Start: 57 @2299 has 1 MA's), (58, 2308), (59, 2314), (60, 2317), (64, 2356), (78, 2422), (79, 2425), (89, 2494), (97, 2533), (99, 2542), (109, 2590), (118, 2650), (128, 2698), (140, 2743), (163, 2788), (168, 2815), (175, 2860), (180, 2881), (181, 2884), (182, 2887), (186, 2908), (188, 2917), (197, 2968), (198, 2971), (201, 2980), (207, 3010), (211, 3031), (221, 3100), (224, 3109), (229, 3160), (230, 3163), (238, 3223), (240, 3229), (254, 3307), (260, 3340), (263, 3352), (274, 3391), (279, 3415), (309, 3577),

Gene: BobaPhett_3 Start: 2240, Stop: 3598, Start Num: 44
Candidate Starts for BobaPhett_3:
(Start: 44 @2240 has 159 MA's), (Start: 53 @2276 has 9 MA's), (Start: 57 @2300 has 1 MA's), (58, 2309), (59, 2315), (60, 2318), (63, 2348), (64, 2357), (78, 2423), (79, 2426), (89, 2495), (97, 2534), (99, 2543), (109, 2591), (118, 2651), (128, 2699), (140, 2744), (163, 2789), (168, 2816), (175, 2861), (180, 2882), (181, 2885), (182, 2888), (186, 2909), (188, 2918), (197, 2969), (198, 2972), (201, 2981), (207, 3011), (211, 3032), (221, 3101), (224, 3110), (229, 3161), (230, 3164), (238, 3224), (240, 3230), (260, 3341), (263, 3353), (272, 3386), (274, 3392), (279, 3416), (303, 3560),

Gene: BodEinwohner17_3 Start: 2275, Stop: 3609, Start Num: 53
Candidate Starts for BodEinwohner17_3:
(Start: 44 @2239 has 159 MA's), (Start: 53 @2275 has 9 MA's), (Start: 57 @2299 has 1 MA's), (58, 2308), (59, 2314), (60, 2317), (64, 2356), (78, 2422), (79, 2425), (89, 2494), (97, 2533), (99, 2542), (109, 2590), (118, 2650), (128, 2698), (140, 2743), (163, 2788), (168, 2815), (175, 2860), (180, 2881), (181, 2884), (182, 2887), (186, 2908), (188, 2917), (197, 2968), (198, 2971), (201, 2980), (207, 3010), (211, 3031), (221, 3100), (224, 3109), (229, 3160), (230, 3163), (238, 3223), (240, 3229), (254, 3307), (260, 3340), (263, 3352), (274, 3391), (279, 3415), (309, 3577),

Gene: Bonum_28 Start: 14299, Stop: 15876, Start Num: 30
Candidate Starts for Bonum_28:
(Start: 30 @14299 has 23 MA's), (32, 14305), (35, 14320), (36, 14323), (85, 14575), (97, 14653), (102, 14677), (137, 14878), (148, 14911), (161, 14938), (173, 14998), (199, 15133), (203, 15145), (220, 15226), (231, 15322), (236, 15367), (256, 15466), (260, 15490), (262, 15499), (277, 15559), (287, 15619), (290, 15631), (292, 15643), (293, 15652), (299, 15691),

Gene: Bovely_7 Start: 4087, Stop: 5529, Start Num: 43
Candidate Starts for Bovely_7:
(37, 4078), (Start: 39 @4081 has 4 MA's), (Start: 43 @4087 has 102 MA's), (63, 4204), (69, 4252), (130, 4570), (143, 4612), (150, 4639), (156, 4672), (175, 4765), (178, 4777), (196, 4870), (220, 4948), (225, 4993), (232, 5050), (235, 5074), (278, 5287), (318, 5515),

Gene: Bowden_8 Start: 3928, Stop: 5403, Start Num: 43
Candidate Starts for Bowden_8:
(Start: 43 @3928 has 102 MA's), (63, 4045), (69, 4093), (73, 4105), (81, 4144), (97, 4237), (101, 4258), (143, 4450), (150, 4477), (178, 4615), (187, 4657), (191, 4690), (196, 4708), (202, 4726), (205, 4735), (225, 4873), (232, 4930), (239, 4978), (265, 5110), (278, 5167), (293, 5257), (295, 5266), (315, 5371),

(318, 5389),

Gene: Brataylor_8 Start: 4058, Stop: 5494, Start Num: 43
Candidate Starts for Brataylor_8:
(Start: 39 @4052 has 4 MA's), (Start: 43 @4058 has 102 MA's), (49, 4082), (55, 4106), (63, 4175), (69, 4223), (76, 4247), (81, 4274), (113, 4457), (130, 4541), (143, 4583), (158, 4649), (175, 4739), (178, 4751), (196, 4844), (220, 4922), (225, 4967), (232, 5024), (273, 5237), (278, 5261), (318, 5480),

Gene: Braxoaddie_29 Start: 15854, Stop: 17443, Start Num: 25
Candidate Starts for Braxoaddie_29:
(20, 15827), (Start: 25 @15854 has 6 MA's), (Start: 29 @15860 has 8 MA's), (32, 15869), (36, 15887), (38, 15890), (54, 15947), (65, 16040), (97, 16214), (98, 16220), (116, 16340), (131, 16415), (134, 16424), (148, 16472), (190, 16652), (193, 16673), (199, 16691), (203, 16703), (221, 16808), (226, 16835), (231, 16880), (233, 16892), (236, 16925), (253, 17003), (256, 17024), (260, 17048), (262, 17057), (269, 17081), (292, 17201), (293, 17210), (296, 17234),

Gene: BroPlease_8 Start: 4096, Stop: 5580, Start Num: 43
Candidate Starts for BroPlease_8:
(Start: 43 @4096 has 102 MA's), (63, 4213), (69, 4261), (133, 4588), (143, 4621), (156, 4681), (175, 4774), (178, 4786), (191, 4861), (196, 4879), (200, 4891), (202, 4897), (231, 5095), (232, 5101), (246, 5188), (259, 5260), (275, 5323), (278, 5338), (293, 5428), (301, 5470), (315, 5542),

Gene: Brocalys_3 Start: 2240, Stop: 3598, Start Num: 44
Candidate Starts for Brocalys_3:
(Start: 44 @2240 has 159 MA's), (Start: 53 @2276 has 9 MA's), (Start: 57 @2300 has 1 MA's), (58, 2309), (59, 2315), (60, 2318), (64, 2357), (78, 2423), (79, 2426), (89, 2495), (97, 2534), (99, 2543), (109, 2591), (118, 2651), (128, 2699), (140, 2744), (163, 2789), (168, 2816), (175, 2861), (180, 2882), (181, 2885), (182, 2888), (186, 2909), (188, 2918), (197, 2969), (198, 2972), (201, 2981), (207, 3011), (210, 3029), (211, 3032), (221, 3101), (224, 3110), (229, 3161), (230, 3164), (238, 3224), (240, 3230), (260, 3341), (263, 3353), (272, 3386), (274, 3392), (279, 3416), (303, 3560),

Gene: BrutonGaster_19 Start: 7166, Stop: 8773, Start Num: 22
Candidate Starts for BrutonGaster_19:
(Start: 22 @7166 has 25 MA's), (42, 7217), (45, 7226), (59, 7301), (64, 7343), (71, 7379), (82, 7424), (86, 7451), (117, 7655), (124, 7685), (134, 7730), (146, 7775), (149, 7790), (174, 7895), (181, 7931), (184, 7949), (186, 7955), (192, 7997), (216, 8126), (238, 8306), (247, 8351), (256, 8399), (279, 8501), (280, 8507), (282, 8516), (295, 8585), (296, 8600), (303, 8636), (304, 8639), (306, 8651),

Gene: BryanRecycles_8 Start: 4241, Stop: 5683, Start Num: 43
Candidate Starts for BryanRecycles_8:
(37, 4232), (Start: 39 @4235 has 4 MA's), (Start: 43 @4241 has 102 MA's), (63, 4358), (69, 4406), (76, 4430), (130, 4724), (143, 4766), (150, 4793), (175, 4919), (178, 4931), (196, 5024), (220, 5102), (225, 5147), (232, 5204), (235, 5228), (278, 5441), (318, 5669),

Gene: Bubbles123_3 Start: 2255, Stop: 3625, Start Num: 44
Candidate Starts for Bubbles123_3:
(Start: 44 @2255 has 159 MA's), (Start: 53 @2291 has 9 MA's), (Start: 57 @2315 has 1 MA's), (58, 2324), (59, 2330), (60, 2333), (64, 2372), (78, 2438), (79, 2441), (89, 2510), (97, 2549), (99, 2558), (109, 2606), (118, 2666), (123, 2687), (128, 2714), (140, 2759), (163, 2804), (168, 2831), (175, 2876), (180, 2897), (181, 2900), (182, 2903), (186, 2924), (188, 2933), (197, 2984), (198, 2987), (201, 2996), (207, 3026), (211, 3047), (221, 3116), (224, 3125), (229, 3176), (230, 3179), (238, 3239), (240, 3245), (254, 3323), (260, 3356), (263, 3368), (274, 3407), (279, 3431), (303, 3575), (309, 3593),

Gene: Buggaboo_26 Start: 14757, Stop: 16334, Start Num: 30
Candidate Starts for Buggaboo_26:
(Start: 30 @14757 has 23 MA's), (32, 14763), (35, 14778), (36, 14781), (85, 15033), (97, 15111), (102, 15135), (137, 15336), (148, 15369), (161, 15396), (173, 15456), (199, 15591), (203, 15603), (220, 15684), (231, 15780), (236, 15825), (256, 15924), (260, 15948), (262, 15957), (277, 16017), (287, 16077), (290, 16089), (292, 16101), (293, 16110), (299, 16149),

Gene: Burwell21_3 Start: 2239, Stop: 3609, Start Num: 44
Candidate Starts for Burwell21_3:
(Start: 44 @2239 has 159 MA's), (Start: 53 @2275 has 9 MA's), (Start: 57 @2299 has 1 MA's), (58, 2308), (59, 2314), (60, 2317), (64, 2356), (78, 2422), (79, 2425), (89, 2494), (97, 2533), (99, 2542), (109, 2590), (118, 2650), (128, 2698), (140, 2743), (163, 2788), (168, 2815), (175, 2860), (180, 2881), (181, 2884), (182, 2887), (186, 2908), (188, 2917), (197, 2968), (198, 2971), (201, 2980), (207, 3010), (211, 3031), (221, 3100), (224, 3109), (229, 3160), (230, 3163), (238, 3223), (240, 3229), (254, 3307), (260, 3340), (263, 3352), (274, 3391), (279, 3415), (309, 3577),

Gene: ByChance_3 Start: 2241, Stop: 3611, Start Num: 44
Candidate Starts for ByChance_3:
(Start: 44 @2241 has 159 MA's), (Start: 53 @2277 has 9 MA's), (Start: 57 @2301 has 1 MA's), (58, 2310), (59, 2316), (60, 2319), (64, 2358), (78, 2424), (79, 2427), (89, 2496), (97, 2535), (99, 2544), (109, 2592), (118, 2652), (128, 2700), (140, 2745), (163, 2790), (168, 2817), (175, 2862), (180, 2883), (181, 2886), (182, 2889), (186, 2910), (188, 2919), (197, 2970), (198, 2973), (201, 2982), (207, 3012), (211, 3033), (221, 3102), (224, 3111), (229, 3162), (230, 3165), (238, 3225), (240, 3231), (254, 3309), (260, 3342), (263, 3354), (274, 3393), (279, 3417), (309, 3579),

Gene: Byougenkin_3 Start: 2273, Stop: 3598, Start Num: 52
Candidate Starts for Byougenkin_3:
(Start: 44 @2240 has 159 MA's), (Start: 52 @2273 has 2 MA's), (Start: 57 @2300 has 1 MA's), (58, 2309), (59, 2315), (60, 2318), (64, 2357), (78, 2423), (79, 2426), (89, 2495), (91, 2501), (97, 2534), (99, 2543), (109, 2591), (118, 2651), (123, 2672), (128, 2699), (140, 2744), (163, 2789), (168, 2816), (175, 2861), (180, 2882), (181, 2885), (182, 2888), (186, 2909), (188, 2918), (197, 2969), (198, 2972), (201, 2981), (207, 3011), (211, 3032), (221, 3101), (224, 3110), (229, 3161), (230, 3164), (238, 3224), (240, 3230), (254, 3308), (260, 3341), (263, 3353), (272, 3386), (274, 3392), (279, 3416), (303, 3560),

Gene: C3PO_13 Start: 8765, Stop: 10342, Start Num: 29
Candidate Starts for C3PO_13:
(Start: 29 @8765 has 8 MA's), (Start: 34 @8780 has 6 MA's), (51, 8843), (56, 8864), (61, 8906), (68, 8966), (70, 8975), (73, 8984), (82, 9023), (97, 9119), (115, 9239), (116, 9245), (127, 9308), (129, 9314), (162, 9428), (167, 9449), (176, 9503), (180, 9527), (193, 9602), (198, 9617), (203, 9632), (221, 9737), (224, 9746), (236, 9854), (263, 9986), (278, 10049), (284, 10094), (294, 10139), (295, 10145), (298, 10172), (300, 10181), (302, 10196), (319, 10280),

Gene: Cabrinians_3 Start: 2276, Stop: 3598, Start Num: 53
Candidate Starts for Cabrinians_3:
(Start: 44 @2240 has 159 MA's), (Start: 53 @2276 has 9 MA's), (Start: 57 @2300 has 1 MA's), (58, 2309), (59, 2315), (60, 2318), (64, 2357), (78, 2423), (79, 2426), (89, 2495), (97, 2534), (99, 2543), (109, 2591), (118, 2651), (128, 2699), (140, 2744), (163, 2789), (168, 2816), (175, 2861), (180, 2882), (181, 2885), (182, 2888), (186, 2909), (188, 2918), (197, 2969), (198, 2972), (201, 2981), (207, 3011), (211, 3032), (221, 3101), (224, 3110), (229, 3161), (230, 3164), (238, 3224), (240, 3230), (260, 3341), (263, 3353), (274, 3392), (279, 3416), (303, 3560),

Gene: Caelum_8 Start: 3776, Stop: 5269, Start Num: 43
Candidate Starts for Caelum_8:

(Start: 43 @3776 has 102 MA's), (63, 3893), (69, 3941), (73, 3953), (81, 3992), (97, 4085), (106, 4142), (143, 4298), (150, 4325), (168, 4403), (175, 4451), (178, 4463), (180, 4472), (191, 4538), (196, 4556), (200, 4568), (202, 4574), (225, 4721), (232, 4778), (239, 4826), (265, 4958), (278, 5015), (293, 5105), (295, 5114), (301, 5147), (315, 5231), (318, 5255),

Gene: Caliburn_7 Start: 4055, Stop: 5503, Start Num: 39
Candidate Starts for Caliburn_7:
(37, 4052), (Start: 39 @4055 has 4 MA's), (Start: 43 @4061 has 102 MA's), (63, 4178), (69, 4226), (130, 4544), (143, 4586), (150, 4613), (156, 4646), (175, 4739), (178, 4751), (196, 4844), (220, 4922), (225, 4967), (232, 5024), (235, 5048), (278, 5261), (318, 5489),

Gene: CaptainTrips_4 Start: 2903, Stop: 4273, Start Num: 44
Candidate Starts for CaptainTrips_4:
(Start: 44 @2903 has 159 MA's), (Start: 53 @2939 has 9 MA's), (Start: 57 @2963 has 1 MA's), (58, 2972), (59, 2978), (60, 2981), (64, 3020), (78, 3086), (79, 3089), (89, 3158), (97, 3197), (99, 3206), (109, 3254), (118, 3314), (128, 3362), (140, 3407), (163, 3452), (168, 3479), (175, 3524), (180, 3545), (181, 3548), (182, 3551), (186, 3572), (188, 3581), (197, 3632), (198, 3635), (201, 3644), (207, 3674), (211, 3695), (221, 3764), (224, 3773), (229, 3824), (230, 3827), (236, 3881), (238, 3887), (239, 3890), (240, 3893), (251, 3950), (260, 4004), (263, 4016), (272, 4049), (274, 4055), (279, 4079), (303, 4223), (309, 4241),

Gene: Cardigan_31 Start: 12425, Stop: 13987, Start Num: 22
Candidate Starts for Cardigan_31:
(15, 12341), (Start: 22 @12425 has 25 MA's), (42, 12476), (45, 12485), (64, 12602), (70, 12635), (82, 12683), (83, 12686), (85, 12701), (86, 12710), (96, 12770), (100, 12791), (110, 12848), (117, 12914), (119, 12920), (124, 12944), (130, 12977), (144, 13031), (146, 13034), (174, 13154), (184, 13208), (186, 13214), (198, 13277), (212, 13349), (216, 13385), (225, 13463), (235, 13544), (238, 13565), (247, 13610), (251, 13628), (261, 13688), (265, 13700), (266, 13703), (301, 13883), (304, 13898), (307, 13913),

Gene: Celery_9 Start: 4163, Stop: 5596, Start Num: 43
Candidate Starts for Celery_9:
(31, 4130), (Start: 43 @4163 has 102 MA's), (63, 4280), (69, 4328), (73, 4340), (117, 4583), (138, 4670), (157, 4748), (159, 4754), (178, 4853), (196, 4946), (213, 4985), (220, 5021), (225, 5066), (232, 5123), (260, 5285), (265, 5303), (278, 5360), (301, 5492), (318, 5582),

Gene: Celeste_7 Start: 4057, Stop: 5493, Start Num: 43
Candidate Starts for Celeste_7:
(Start: 39 @4051 has 4 MA's), (Start: 43 @4057 has 102 MA's), (49, 4081), (55, 4105), (63, 4174), (69, 4222), (81, 4273), (107, 4426), (113, 4456), (130, 4540), (143, 4582), (158, 4648), (175, 4738), (178, 4750), (196, 4843), (220, 4921), (225, 4966), (232, 5023), (235, 5047), (273, 5236), (278, 5260), (318, 5479),

Gene: Celia_7 Start: 4355, Stop: 5830, Start Num: 43
Candidate Starts for Celia_7:
(Start: 43 @4355 has 102 MA's), (Start: 48 @4376 has 1 MA's), (63, 4472), (73, 4532), (97, 4664), (101, 4685), (106, 4721), (143, 4883), (155, 4925), (172, 5009), (178, 5048), (189, 5096), (191, 5123), (196, 5141), (204, 5165), (207, 5186), (212, 5222), (220, 5261), (225, 5306), (232, 5363), (235, 5387), (278, 5600), (293, 5690), (301, 5732),

Gene: Che8_3 Start: 2239, Stop: 3609, Start Num: 44
Candidate Starts for Che8_3:

(Start: 44 @2239 has 159 MA's), (Start: 53 @2275 has 9 MA's), (Start: 57 @2299 has 1 MA's), (58, 2308), (59, 2314), (60, 2317), (64, 2356), (77, 2419), (78, 2422), (79, 2425), (89, 2494), (91, 2500), (97, 2533), (99, 2542), (109, 2590), (118, 2650), (123, 2671), (128, 2698), (140, 2743), (163, 2788), (168, 2815), (175, 2860), (180, 2881), (181, 2884), (182, 2887), (186, 2908), (188, 2917), (197, 2968), (198, 2971), (201, 2980), (207, 3010), (211, 3031), (221, 3100), (224, 3109), (229, 3160), (230, 3163), (238, 3223), (240, 3229), (254, 3307), (260, 3340), (263, 3352), (274, 3391), (279, 3415), (309, 3577),

Gene: Cheesepuff_3 Start: 2240, Stop: 3610, Start Num: 44
Candidate Starts for Cheesepuff_3:
(Start: 44 @2240 has 159 MA's), (Start: 53 @2276 has 9 MA's), (Start: 57 @2300 has 1 MA's), (58, 2309), (59, 2315), (60, 2318), (64, 2357), (78, 2423), (79, 2426), (89, 2495), (97, 2534), (99, 2543), (109, 2591), (118, 2651), (123, 2672), (128, 2699), (140, 2744), (163, 2789), (168, 2816), (175, 2861), (180, 2882), (181, 2885), (182, 2888), (186, 2909), (188, 2918), (197, 2969), (198, 2972), (201, 2981), (207, 3011), (211, 3032), (221, 3101), (224, 3110), (229, 3161), (230, 3164), (236, 3218), (238, 3224), (240, 3230), (254, 3308), (260, 3341), (263, 3353), (274, 3392), (279, 3416), (309, 3578),

Gene: Chevrolet_3 Start: 2241, Stop: 3611, Start Num: 44
Candidate Starts for Chevrolet_3:
(Start: 44 @2241 has 159 MA's), (Start: 53 @2277 has 9 MA's), (Start: 57 @2301 has 1 MA's), (58, 2310), (59, 2316), (60, 2319), (64, 2358), (77, 2421), (78, 2424), (79, 2427), (89, 2496), (91, 2502), (97, 2535), (99, 2544), (109, 2592), (118, 2652), (123, 2673), (128, 2700), (140, 2745), (163, 2790), (168, 2817), (175, 2862), (180, 2883), (181, 2886), (182, 2889), (186, 2910), (188, 2919), (197, 2970), (198, 2973), (201, 2982), (207, 3012), (211, 3033), (221, 3102), (224, 3111), (229, 3162), (230, 3165), (238, 3225), (240, 3231), (254, 3309), (260, 3342), (263, 3354), (272, 3387), (274, 3393), (279, 3417), (303, 3561), (309, 3579),

Gene: ChewyVIII_39 Start: 21579, Stop: 23150, Start Num: 30
Candidate Starts for ChewyVIII_39:
(Start: 30 @21579 has 23 MA's), (36, 21603), (Start: 52 @21657 has 2 MA's), (55, 21666), (65, 21756), (73, 21795), (79, 21822), (97, 21930), (102, 21954), (112, 22020), (116, 22056), (122, 22086), (131, 22131), (148, 22188), (154, 22209), (180, 22338), (193, 22413), (199, 22431), (203, 22443), (220, 22524), (223, 22554), (226, 22575), (233, 22632), (235, 22650), (236, 22665), (253, 22743), (255, 22758), (256, 22764), (260, 22788), (280, 22878), (283, 22899), (285, 22911), (289, 22923), (292, 22941), (293, 22950), (296, 22974), (314, 23061), (321, 23130),

Gene: Chuckly_3 Start: 2255, Stop: 3625, Start Num: 44
Candidate Starts for Chuckly_3:
(Start: 44 @2255 has 159 MA's), (Start: 53 @2291 has 9 MA's), (Start: 57 @2315 has 1 MA's), (58, 2324), (59, 2330), (60, 2333), (64, 2372), (78, 2438), (79, 2441), (89, 2510), (97, 2549), (99, 2558), (109, 2606), (118, 2666), (128, 2714), (140, 2759), (163, 2804), (168, 2831), (175, 2876), (180, 2897), (181, 2900), (182, 2903), (186, 2924), (188, 2933), (197, 2984), (198, 2987), (201, 2996), (207, 3026), (211, 3047), (221, 3116), (224, 3125), (229, 3176), (230, 3179), (236, 3233), (238, 3239), (239, 3242), (240, 3245), (251, 3302), (260, 3356), (263, 3368), (272, 3401), (274, 3407), (279, 3431), (303, 3575), (309, 3593),

Gene: Chucky_7 Start: 4056, Stop: 5492, Start Num: 43
Candidate Starts for Chucky_7:
(Start: 39 @4050 has 4 MA's), (Start: 43 @4056 has 102 MA's), (49, 4080), (55, 4104), (63, 4173), (69, 4221), (73, 4233), (81, 4272), (107, 4425), (130, 4539), (143, 4581), (156, 4641), (158, 4647), (175, 4737), (178, 4749), (191, 4824), (196, 4842), (220, 4920), (225, 4965), (232, 5022), (273, 5235), (278, 5259), (301, 5391), (313, 5457), (318, 5478),

Gene: Clank_3 Start: 2315, Stop: 3625, Start Num: 57

Candidate Starts for Clank_3:
(Start: 44 @2255 has 159 MA's), (Start: 53 @2291 has 9 MA's), (Start: 57 @2315 has 1 MA's), (58, 2324), (59, 2330), (60, 2333), (64, 2372), (78, 2438), (79, 2441), (89, 2510), (97, 2549), (99, 2558), (109, 2606), (118, 2666), (128, 2714), (140, 2759), (163, 2804), (168, 2831), (175, 2876), (180, 2897), (181, 2900), (182, 2903), (186, 2924), (188, 2933), (197, 2984), (198, 2987), (201, 2996), (207, 3026), (211, 3047), (221, 3116), (224, 3125), (229, 3176), (230, 3179), (236, 3233), (238, 3239), (240, 3245), (251, 3302), (260, 3356), (263, 3368), (272, 3401), (274, 3407), (279, 3431), (303, 3575), (309, 3593),

Gene: Clifton_3 Start: 2240, Stop: 3598, Start Num: 44
Candidate Starts for Clifton_3:
(Start: 44 @2240 has 159 MA's), (Start: 53 @2276 has 9 MA's), (Start: 57 @2300 has 1 MA's), (58, 2309), (59, 2315), (60, 2318), (64, 2357), (78, 2423), (79, 2426), (89, 2495), (97, 2534), (99, 2543), (109, 2591), (118, 2651), (123, 2672), (128, 2699), (140, 2744), (163, 2789), (168, 2816), (175, 2861), (180, 2882), (181, 2885), (182, 2888), (186, 2909), (188, 2918), (197, 2969), (198, 2972), (201, 2981), (207, 3011), (211, 3032), (221, 3101), (224, 3110), (229, 3161), (230, 3164), (238, 3224), (240, 3230), (260, 3341), (263, 3353), (272, 3386), (274, 3392), (279, 3416), (303, 3560),

Gene: ClubL_31 Start: 10375, Stop: 11991, Start Num: 22
Candidate Starts for ClubL_31:
(Start: 22 @10375 has 25 MA's), (42, 10426), (45, 10435), (Start: 57 @10495 has 1 MA's), (64, 10552), (71, 10588), (82, 10633), (86, 10660), (117, 10864), (124, 10894), (131, 10930), (142, 10975), (146, 10984), (149, 10999), (180, 11137), (181, 11140), (184, 11158), (186, 11164), (192, 11206), (223, 11398), (234, 11485), (238, 11515), (247, 11560), (256, 11608), (258, 11623), (275, 11686), (279, 11710), (280, 11716), (282, 11725), (295, 11794), (303, 11845), (304, 11848), (306, 11860),

Gene: CoffeeBean_29 Start: 15809, Stop: 17398, Start Num: 25
Candidate Starts for CoffeeBean_29:
(20, 15782), (Start: 25 @15809 has 6 MA's), (Start: 29 @15815 has 8 MA's), (32, 15824), (36, 15842), (38, 15845), (54, 15902), (65, 15995), (97, 16169), (98, 16175), (116, 16295), (131, 16370), (134, 16379), (148, 16427), (190, 16607), (193, 16628), (199, 16646), (203, 16658), (221, 16763), (226, 16790), (231, 16835), (233, 16847), (236, 16880), (253, 16958), (256, 16979), (260, 17003), (262, 17012), (269, 17036), (292, 17156), (293, 17165), (296, 17189),

Gene: Commandaria_27 Start: 15204, Stop: 16781, Start Num: 30
Candidate Starts for Commandaria_27:
(Start: 30 @15204 has 23 MA's), (32, 15210), (33, 15213), (35, 15225), (54, 15288), (83, 15465), (85, 15480), (97, 15558), (102, 15582), (113, 15672), (148, 15816), (161, 15843), (190, 15999), (193, 16020), (198, 16035), (203, 16050), (220, 16131), (221, 16155), (233, 16239), (236, 16272), (256, 16371), (260, 16395), (262, 16404), (268, 16425), (277, 16464), (292, 16548), (293, 16557),

Gene: Conan_8 Start: 3902, Stop: 5335, Start Num: 43
Candidate Starts for Conan_8:
(Start: 43 @3902 has 102 MA's), (63, 4019), (69, 4067), (73, 4079), (117, 4322), (138, 4409), (155, 4469), (157, 4487), (159, 4493), (178, 4592), (191, 4667), (196, 4685), (213, 4724), (220, 4760), (232, 4862), (260, 5024), (265, 5042), (278, 5099), (293, 5189), (301, 5231), (313, 5297), (318, 5321),

Gene: Corium_3 Start: 2291, Stop: 3625, Start Num: 53
Candidate Starts for Corium_3:
(Start: 44 @2255 has 159 MA's), (Start: 53 @2291 has 9 MA's), (Start: 57 @2315 has 1 MA's), (58, 2324), (59, 2330), (60, 2333), (64, 2372), (78, 2438), (79, 2441), (89, 2510), (97, 2549), (99, 2558), (109, 2606), (118, 2666), (128, 2714), (140, 2759), (163, 2804), (168, 2831), (175, 2876), (180, 2897), (181, 2900), (182, 2903), (186, 2924), (188, 2933), (197, 2984), (198, 2987), (201, 2996), (207, 3026), (211, 3047), (221, 3116), (224, 3125), (229, 3176), (230, 3179), (236, 3233), (238, 3239), (239, 3242),

(240, 3245), (251, 3302), (260, 3356), (263, 3368), (272, 3401), (274, 3407), (279, 3431), (309, 3593),

Gene: Cornie_3 Start: 2288, Stop: 3727, Start Num: 23
Candidate Starts for Cornie_3:
(16, 2216), (17, 2234), (19, 2258), (Start: 23 @2288 has 1 MA's), (26, 2297), (56, 2408), (60, 2438), (62, 2453), (63, 2468), (67, 2498), (70, 2510), (71, 2513), (78, 2543), (80, 2549), (82, 2558), (83, 2561), (84, 2570), (95, 2639), (99, 2663), (104, 2696), (107, 2714), (108, 2717), (124, 2771), (130, 2804), (152, 2888), (160, 2903), (169, 2936), (206, 3086), (215, 3152), (217, 3170), (223, 3218), (233, 3296), (238, 3335), (247, 3380), (248, 3383), (257, 3440), (259, 3449), (262, 3461), (265, 3470), (282, 3545), (290, 3584), (295, 3614), (300, 3650),

Gene: Cruella_13 Start: 8780, Stop: 10342, Start Num: 34
Candidate Starts for Cruella_13:
(Start: 29 @8765 has 8 MA's), (Start: 34 @8780 has 6 MA's), (51, 8843), (56, 8864), (61, 8906), (68, 8966), (70, 8975), (73, 8984), (82, 9023), (97, 9119), (115, 9239), (116, 9245), (127, 9308), (129, 9314), (162, 9428), (167, 9449), (176, 9503), (180, 9527), (193, 9602), (198, 9617), (203, 9632), (221, 9737), (224, 9746), (236, 9854), (263, 9986), (278, 10049), (284, 10094), (294, 10139), (295, 10145), (298, 10172), (300, 10181), (302, 10196), (319, 10280),

Gene: Crumble_3 Start: 2241, Stop: 3611, Start Num: 44
Candidate Starts for Crumble_3:
(Start: 44 @2241 has 159 MA's), (Start: 53 @2277 has 9 MA's), (Start: 57 @2301 has 1 MA's), (58, 2310), (59, 2316), (60, 2319), (64, 2358), (78, 2424), (79, 2427), (89, 2496), (97, 2535), (99, 2544), (109, 2592), (118, 2652), (128, 2700), (140, 2745), (163, 2790), (168, 2817), (175, 2862), (180, 2883), (181, 2886), (182, 2889), (186, 2910), (188, 2919), (197, 2970), (198, 2973), (201, 2982), (207, 3012), (211, 3033), (221, 3102), (224, 3111), (229, 3162), (230, 3165), (238, 3225), (240, 3231), (254, 3309), (260, 3342), (263, 3354), (274, 3393), (279, 3417), (309, 3579),

Gene: Cucurbita_33 Start: 11733, Stop: 13349, Start Num: 22
Candidate Starts for Cucurbita_33:
(Start: 22 @11733 has 25 MA's), (42, 11784), (45, 11793), (Start: 57 @11853 has 1 MA's), (64, 11910), (71, 11946), (82, 11991), (86, 12018), (117, 12222), (124, 12252), (131, 12288), (142, 12333), (146, 12342), (149, 12357), (180, 12495), (181, 12498), (184, 12516), (186, 12522), (192, 12564), (223, 12756), (234, 12843), (238, 12873), (247, 12918), (256, 12966), (258, 12981), (275, 13044), (279, 13068), (280, 13074), (282, 13083), (295, 13152), (303, 13203), (304, 13206), (306, 13218),

Gene: Culver_31 Start: 10194, Stop: 11810, Start Num: 22
Candidate Starts for Culver_31:
(Start: 22 @10194 has 25 MA's), (42, 10245), (45, 10254), (Start: 57 @10314 has 1 MA's), (64, 10371), (70, 10404), (71, 10407), (82, 10452), (86, 10479), (117, 10683), (124, 10713), (131, 10749), (142, 10794), (146, 10803), (149, 10818), (181, 10959), (184, 10977), (186, 10983), (192, 11025), (223, 11217), (234, 11304), (238, 11334), (247, 11379), (256, 11427), (258, 11442), (275, 11505), (279, 11529), (280, 11535), (282, 11544), (295, 11613), (303, 11664), (304, 11667), (306, 11679),

Gene: DLane_3 Start: 2255, Stop: 3625, Start Num: 44
Candidate Starts for DLane_3:
(Start: 44 @2255 has 159 MA's), (Start: 53 @2291 has 9 MA's), (Start: 57 @2315 has 1 MA's), (58, 2324), (59, 2330), (60, 2333), (64, 2372), (78, 2438), (79, 2441), (89, 2510), (97, 2549), (99, 2558), (109, 2606), (118, 2666), (128, 2714), (140, 2759), (163, 2804), (168, 2831), (175, 2876), (180, 2897), (181, 2900), (182, 2903), (186, 2924), (188, 2933), (197, 2984), (198, 2987), (201, 2996), (207, 3026), (211, 3047), (221, 3116), (224, 3125), (229, 3176), (230, 3179), (236, 3233), (238, 3239), (239, 3242), (240, 3245), (251, 3302), (260, 3356), (263, 3368), (272, 3401), (274, 3407), (279, 3431), (303, 3575), (309, 3593),

Gene: DRBy19_3 Start: 2256, Stop: 3626, Start Num: 44
Candidate Starts for DRBy19_3:
(Start: 44 @2256 has 159 MA's), (Start: 53 @2292 has 9 MA's), (Start: 57 @2316 has 1 MA's), (58, 2325), (59, 2331), (60, 2334), (64, 2373), (78, 2439), (79, 2442), (89, 2511), (97, 2550), (99, 2559), (109, 2607), (118, 2667), (128, 2715), (140, 2760), (163, 2805), (168, 2832), (175, 2877), (180, 2898), (181, 2901), (182, 2904), (186, 2925), (188, 2934), (197, 2985), (198, 2988), (201, 2997), (207, 3027), (211, 3048), (221, 3117), (224, 3126), (229, 3177), (230, 3180), (236, 3234), (238, 3240), (239, 3243), (240, 3246), (251, 3303), (260, 3357), (263, 3369), (272, 3402), (274, 3408), (279, 3432), (303, 3576), (309, 3594),

Gene: DaddyRickover_3 Start: 2275, Stop: 3609, Start Num: 53
Candidate Starts for DaddyRickover_3:
(Start: 44 @2239 has 159 MA's), (Start: 53 @2275 has 9 MA's), (Start: 57 @2299 has 1 MA's), (58, 2308), (59, 2314), (60, 2317), (64, 2356), (78, 2422), (79, 2425), (89, 2494), (97, 2533), (99, 2542), (109, 2590), (118, 2650), (128, 2698), (140, 2743), (163, 2788), (168, 2815), (175, 2860), (180, 2881), (181, 2884), (182, 2887), (186, 2908), (188, 2917), (197, 2968), (198, 2971), (201, 2980), (207, 3010), (211, 3031), (221, 3100), (224, 3109), (229, 3160), (230, 3163), (238, 3223), (240, 3229), (254, 3307), (260, 3340), (263, 3352), (274, 3391), (279, 3415), (309, 3577),

Gene: Daenerys_3 Start: 2239, Stop: 3609, Start Num: 44
Candidate Starts for Daenerys_3:
(Start: 44 @2239 has 159 MA's), (Start: 53 @2275 has 9 MA's), (Start: 57 @2299 has 1 MA's), (58, 2308), (59, 2314), (60, 2317), (64, 2356), (78, 2422), (79, 2425), (89, 2494), (97, 2533), (99, 2542), (109, 2590), (118, 2650), (128, 2698), (140, 2743), (163, 2788), (168, 2815), (175, 2860), (180, 2881), (181, 2884), (182, 2887), (186, 2908), (188, 2917), (197, 2968), (198, 2971), (201, 2980), (207, 3010), (211, 3031), (221, 3100), (224, 3109), (229, 3160), (230, 3163), (238, 3223), (240, 3229), (254, 3307), (260, 3340), (263, 3352), (274, 3391), (279, 3415), (309, 3577),

Gene: Dalilpop_30 Start: 16300, Stop: 17877, Start Num: 29
Candidate Starts for Dalilpop_30:
(Start: 29 @16300 has 8 MA's), (85, 16576), (148, 16912), (173, 16999), (193, 17116), (203, 17146), (220, 17227), (236, 17368), (256, 17467), (260, 17491), (262, 17500), (271, 17536), (277, 17560), (292, 17644), (293, 17653), (299, 17692), (300, 17698),

Gene: Dante_3 Start: 2255, Stop: 3625, Start Num: 44
Candidate Starts for Dante_3:
(Start: 44 @2255 has 159 MA's), (Start: 53 @2291 has 9 MA's), (Start: 57 @2315 has 1 MA's), (58, 2324), (59, 2330), (60, 2333), (64, 2372), (78, 2438), (79, 2441), (89, 2510), (97, 2549), (99, 2558), (109, 2606), (118, 2666), (128, 2714), (140, 2759), (163, 2804), (168, 2831), (175, 2876), (180, 2897), (181, 2900), (182, 2903), (186, 2924), (188, 2933), (197, 2984), (198, 2987), (201, 2996), (207, 3026), (211, 3047), (221, 3116), (224, 3125), (229, 3176), (230, 3179), (236, 3233), (238, 3239), (240, 3245), (254, 3323), (260, 3356), (263, 3368), (274, 3407), (279, 3431), (303, 3575), (309, 3593),

Gene: Danzina_8 Start: 4255, Stop: 5691, Start Num: 43
Candidate Starts for Danzina_8:
(Start: 39 @4249 has 4 MA's), (Start: 43 @4255 has 102 MA's), (49, 4279), (55, 4303), (63, 4372), (69, 4420), (81, 4471), (107, 4624), (113, 4654), (130, 4738), (143, 4780), (158, 4846), (175, 4936), (178, 4948), (196, 5041), (220, 5119), (225, 5164), (232, 5221), (235, 5245), (273, 5434), (278, 5458), (318, 5677),

Gene: Daredevil_13 Start: 6745, Stop: 8310, Start Num: 22
Candidate Starts for Daredevil_13:

(Start: 22 @6745 has 25 MA's), (42, 6796), (71, 6961), (82, 7006), (93, 7081), (94, 7084), (99, 7111), (112, 7192), (117, 7210), (118, 7213), (136, 7291), (142, 7321), (174, 7444), (186, 7504), (198, 7567), (216, 7675), (233, 7813), (238, 7852), (248, 7900), (253, 7924), (265, 7987), (288, 8092), (295, 8131), (303, 8182), (304, 8185), (306, 8197),

Gene: Darwin_16 Start: 9510, Stop: 11087, Start Num: 29
Candidate Starts for Darwin_16:
(Start: 29 @9510 has 8 MA's), (Start: 34 @9525 has 6 MA's), (51, 9588), (56, 9609), (61, 9651), (68, 9711), (70, 9720), (73, 9729), (97, 9864), (115, 9984), (116, 9990), (127, 10053), (129, 10059), (162, 10173), (167, 10194), (176, 10248), (180, 10272), (193, 10347), (198, 10362), (203, 10377), (221, 10482), (224, 10491), (236, 10599), (243, 10620), (253, 10674), (263, 10731), (278, 10794), (284, 10839), (294, 10884), (295, 10890), (298, 10917), (300, 10926), (302, 10941), (319, 11025),

Gene: DatBoi_14 Start: 8659, Stop: 10218, Start Num: 22
Candidate Starts for DatBoi_14:
(Start: 22 @8659 has 25 MA's), (71, 8875), (80, 8911), (82, 8920), (92, 8992), (99, 9025), (117, 9124), (118, 9127), (134, 9199), (151, 9265), (174, 9358), (180, 9391), (181, 9394), (186, 9418), (198, 9481), (207, 9520), (209, 9532), (216, 9589), (225, 9664), (233, 9727), (238, 9766), (248, 9814), (253, 9838), (265, 9901), (281, 9973), (283, 9988), (295, 10045), (301, 10084), (303, 10096), (304, 10099), (307, 10114), (310, 10123),

Gene: Dattran_8 Start: 4056, Stop: 5492, Start Num: 43
Candidate Starts for Dattran_8:
(Start: 39 @4050 has 4 MA's), (Start: 43 @4056 has 102 MA's), (49, 4080), (55, 4104), (63, 4173), (69, 4221), (81, 4272), (113, 4455), (130, 4539), (143, 4581), (175, 4737), (178, 4749), (196, 4842), (220, 4920), (225, 4965), (232, 5022), (273, 5235), (278, 5259), (318, 5478),

Gene: Daudau_7 Start: 3834, Stop: 5315, Start Num: 43
Candidate Starts for Daudau_7:
(Start: 43 @3834 has 102 MA's), (63, 3951), (69, 3999), (81, 4050), (93, 4122), (97, 4143), (143, 4356), (158, 4422), (175, 4512), (178, 4524), (187, 4566), (191, 4599), (193, 4608), (196, 4617), (202, 4635), (219, 4734), (225, 4782), (232, 4839), (278, 5076), (295, 5175), (301, 5208), (318, 5301),

Gene: DeadP_3 Start: 2255, Stop: 3625, Start Num: 44
Candidate Starts for DeadP_3:
(Start: 44 @2255 has 159 MA's), (Start: 53 @2291 has 9 MA's), (Start: 57 @2315 has 1 MA's), (58, 2324), (59, 2330), (60, 2333), (64, 2372), (78, 2438), (79, 2441), (89, 2510), (97, 2549), (99, 2558), (109, 2606), (118, 2666), (128, 2714), (140, 2759), (163, 2804), (168, 2831), (175, 2876), (180, 2897), (181, 2900), (182, 2903), (186, 2924), (188, 2933), (197, 2984), (198, 2987), (201, 2996), (207, 3026), (211, 3047), (221, 3116), (224, 3125), (229, 3176), (230, 3179), (236, 3233), (238, 3239), (240, 3245), (260, 3356), (263, 3368), (272, 3401), (274, 3407), (279, 3431), (303, 3575), (309, 3593),

Gene: Deb65_3 Start: 2239, Stop: 3609, Start Num: 44
Candidate Starts for Deb65_3:
(Start: 44 @2239 has 159 MA's), (Start: 53 @2275 has 9 MA's), (Start: 57 @2299 has 1 MA's), (58, 2308), (59, 2314), (60, 2317), (64, 2356), (78, 2422), (79, 2425), (89, 2494), (97, 2533), (99, 2542), (109, 2590), (118, 2650), (128, 2698), (140, 2743), (163, 2788), (168, 2815), (175, 2860), (180, 2881), (181, 2884), (182, 2887), (186, 2908), (188, 2917), (197, 2968), (198, 2971), (201, 2980), (207, 3010), (211, 3031), (221, 3100), (224, 3109), (229, 3160), (230, 3163), (238, 3223), (240, 3229), (254, 3307), (260, 3340), (263, 3352), (274, 3391), (279, 3415), (309, 3577),

Gene: Dexers_6 Start: 3895, Stop: 5328, Start Num: 43
Candidate Starts for Dexers_6:

(Start: 43 @3895 has 102 MA's), (63, 4012), (69, 4060), (73, 4072), (117, 4315), (138, 4402), (155, 4462), (157, 4480), (159, 4486), (178, 4585), (189, 4633), (191, 4660), (196, 4678), (213, 4717), (220, 4753), (232, 4855), (259, 5014), (260, 5017), (265, 5035), (278, 5092), (287, 5149), (293, 5182), (301, 5224), (313, 5290), (318, 5314),

Gene: Diane_7 Start: 3828, Stop: 5303, Start Num: 43
Candidate Starts for Diane_7:
(Start: 43 @3828 has 102 MA's), (63, 3945), (75, 4014), (81, 4044), (97, 4137), (156, 4410), (178, 4515), (191, 4590), (196, 4608), (200, 4620), (202, 4626), (225, 4773), (231, 4824), (232, 4830), (239, 4878), (265, 5010), (278, 5067), (293, 5157), (318, 5289),

Gene: DillTech15_3 Start: 2255, Stop: 3625, Start Num: 44
Candidate Starts for DillTech15_3:
(Start: 44 @2255 has 159 MA's), (Start: 53 @2291 has 9 MA's), (Start: 57 @2315 has 1 MA's), (58, 2324), (59, 2330), (60, 2333), (64, 2372), (78, 2438), (79, 2441), (89, 2510), (97, 2549), (99, 2558), (109, 2606), (118, 2666), (128, 2714), (140, 2759), (163, 2804), (168, 2831), (175, 2876), (180, 2897), (181, 2900), (182, 2903), (186, 2924), (188, 2933), (197, 2984), (198, 2987), (201, 2996), (207, 3026), (211, 3047), (221, 3116), (224, 3125), (229, 3176), (230, 3179), (236, 3233), (238, 3239), (240, 3245), (254, 3323), (260, 3356), (263, 3368), (274, 3407), (279, 3431), (303, 3575), (309, 3593),

Gene: DoRead_3 Start: 2255, Stop: 3613, Start Num: 44
Candidate Starts for DoRead_3:
(Start: 44 @2255 has 159 MA's), (Start: 53 @2291 has 9 MA's), (Start: 57 @2315 has 1 MA's), (58, 2324), (59, 2330), (60, 2333), (64, 2372), (78, 2438), (79, 2441), (89, 2510), (97, 2549), (99, 2558), (109, 2606), (118, 2666), (123, 2687), (128, 2714), (140, 2759), (163, 2804), (168, 2831), (175, 2876), (180, 2897), (181, 2900), (182, 2903), (186, 2924), (188, 2933), (197, 2984), (198, 2987), (201, 2996), (207, 3026), (211, 3047), (221, 3116), (224, 3125), (229, 3176), (230, 3179), (236, 3233), (238, 3239), (240, 3245), (254, 3323), (260, 3356), (263, 3368), (272, 3401), (274, 3407), (279, 3431), (303, 3575),

Gene: Donkeykong_3 Start: 2255, Stop: 3625, Start Num: 44
Candidate Starts for Donkeykong_3:
(Start: 44 @2255 has 159 MA's), (Start: 53 @2291 has 9 MA's), (Start: 57 @2315 has 1 MA's), (58, 2324), (59, 2330), (60, 2333), (64, 2372), (78, 2438), (79, 2441), (89, 2510), (97, 2549), (99, 2558), (109, 2606), (118, 2666), (128, 2714), (140, 2759), (163, 2804), (168, 2831), (175, 2876), (180, 2897), (181, 2900), (182, 2903), (186, 2924), (188, 2933), (197, 2984), (198, 2987), (201, 2996), (207, 3026), (211, 3047), (221, 3116), (224, 3125), (229, 3176), (230, 3179), (236, 3233), (238, 3239), (240, 3245), (254, 3323), (260, 3356), (263, 3368), (274, 3407), (279, 3431), (303, 3575), (309, 3593),

Gene: Doomphist_3 Start: 2239, Stop: 3609, Start Num: 44
Candidate Starts for Doomphist_3:
(Start: 44 @2239 has 159 MA's), (Start: 53 @2275 has 9 MA's), (Start: 57 @2299 has 1 MA's), (58, 2308), (59, 2314), (60, 2317), (64, 2356), (78, 2422), (79, 2425), (89, 2494), (97, 2533), (99, 2542), (109, 2590), (118, 2650), (128, 2698), (140, 2743), (163, 2788), (168, 2815), (175, 2860), (180, 2881), (181, 2884), (182, 2887), (186, 2908), (188, 2917), (197, 2968), (198, 2971), (201, 2980), (207, 3010), (211, 3031), (221, 3100), (224, 3109), (229, 3160), (230, 3163), (238, 3223), (240, 3229), (254, 3307), (260, 3340), (263, 3352), (274, 3391), (279, 3415), (309, 3577),

Gene: Dorothy_3 Start: 2239, Stop: 3609, Start Num: 44
Candidate Starts for Dorothy_3:
(Start: 44 @2239 has 159 MA's), (Start: 53 @2275 has 9 MA's), (Start: 57 @2299 has 1 MA's), (58, 2308), (59, 2314), (60, 2317), (64, 2356), (78, 2422), (79, 2425), (89, 2494), (97, 2533), (99, 2542), (109, 2590), (118, 2650), (128, 2698), (140, 2743), (163, 2788), (168, 2815), (175, 2860), (180, 2881), (181, 2884), (182, 2887), (186, 2908), (188, 2917), (197, 2968), (198, 2971), (201, 2980), (207, 3010),

(211, 3031), (221, 3100), (224, 3109), (229, 3160), (230, 3163), (238, 3223), (240, 3229), (254, 3307), (260, 3340), (263, 3352), (274, 3391), (279, 3415), (309, 3577),

Gene: DotProduct_3 Start: 2256, Stop: 3626, Start Num: 44
Candidate Starts for DotProduct_3:
(Start: 44 @2256 has 159 MA's), (Start: 53 @2292 has 9 MA's), (Start: 57 @2316 has 1 MA's), (58, 2325), (59, 2331), (60, 2334), (64, 2373), (78, 2439), (79, 2442), (89, 2511), (97, 2550), (99, 2559), (109, 2607), (118, 2667), (128, 2715), (140, 2760), (163, 2805), (168, 2832), (175, 2877), (180, 2898), (181, 2901), (182, 2904), (186, 2925), (188, 2934), (197, 2985), (198, 2988), (201, 2997), (207, 3027), (211, 3048), (221, 3117), (224, 3126), (229, 3177), (230, 3180), (236, 3234), (238, 3240), (239, 3243), (240, 3246), (251, 3303), (260, 3357), (263, 3369), (272, 3402), (274, 3408), (279, 3432), (303, 3576), (309, 3594),

Gene: Doug_3 Start: 2240, Stop: 3610, Start Num: 44
Candidate Starts for Doug_3:
(Start: 44 @2240 has 159 MA's), (Start: 53 @2276 has 9 MA's), (Start: 57 @2300 has 1 MA's), (58, 2309), (59, 2315), (60, 2318), (63, 2348), (64, 2357), (78, 2423), (79, 2426), (89, 2495), (97, 2534), (99, 2543), (109, 2591), (118, 2651), (128, 2699), (140, 2744), (163, 2789), (168, 2816), (175, 2861), (180, 2882), (181, 2885), (182, 2888), (186, 2909), (188, 2918), (197, 2969), (198, 2972), (201, 2981), (207, 3011), (211, 3032), (221, 3101), (224, 3110), (229, 3161), (230, 3164), (236, 3218), (238, 3224), (240, 3230), (254, 3308), (260, 3341), (263, 3353), (274, 3392), (279, 3416), (303, 3560), (309, 3578),

Gene: Dusty_30 Start: 10194, Stop: 11810, Start Num: 22
Candidate Starts for Dusty_30:
(Start: 22 @10194 has 25 MA's), (42, 10245), (45, 10254), (Start: 57 @10314 has 1 MA's), (64, 10371), (70, 10404), (71, 10407), (82, 10452), (86, 10479), (117, 10683), (124, 10713), (131, 10749), (142, 10794), (146, 10803), (149, 10818), (181, 10959), (184, 10977), (186, 10983), (192, 11025), (223, 11217), (234, 11304), (238, 11334), (247, 11379), (256, 11427), (258, 11442), (275, 11505), (279, 11529), (280, 11535), (282, 11544), (295, 11613), (303, 11664), (304, 11667), (306, 11679),

Gene: Dwayne_7 Start: 4056, Stop: 5492, Start Num: 43
Candidate Starts for Dwayne_7:
(Start: 39 @4050 has 4 MA's), (Start: 43 @4056 has 102 MA's), (49, 4080), (55, 4104), (63, 4173), (69, 4221), (73, 4233), (81, 4272), (107, 4425), (130, 4539), (143, 4581), (150, 4608), (156, 4641), (158, 4647), (175, 4737), (178, 4749), (191, 4824), (196, 4842), (220, 4920), (225, 4965), (232, 5022), (273, 5235), (278, 5259), (301, 5391), (313, 5457), (318, 5478),

Gene: ELB20_06 Start: 3885, Stop: 5357, Start Num: 43
Candidate Starts for ELB20_06:
(Start: 43 @3885 has 102 MA's), (63, 4002), (69, 4050), (73, 4062), (75, 4071), (81, 4101), (97, 4194), (128, 4359), (130, 4365), (178, 4572), (191, 4647), (196, 4665), (200, 4677), (202, 4683), (204, 4689), (225, 4830), (231, 4881), (232, 4887), (252, 5001), (265, 5067), (278, 5124), (286, 5178), (301, 5256), (318, 5343),

Gene: Eddasa_8 Start: 4241, Stop: 5683, Start Num: 43
Candidate Starts for Eddasa_8:
(37, 4232), (Start: 39 @4235 has 4 MA's), (Start: 43 @4241 has 102 MA's), (63, 4358), (69, 4406), (76, 4430), (130, 4724), (143, 4766), (150, 4793), (175, 4919), (178, 4931), (196, 5024), (220, 5102), (225, 5147), (232, 5204), (235, 5228), (278, 5441), (318, 5669),

Gene: Eish_3 Start: 2240, Stop: 3598, Start Num: 44
Candidate Starts for Eish_3:

(Start: 44 @2240 has 159 MA's), (Start: 52 @2273 has 2 MA's), (Start: 57 @2300 has 1 MA's), (58, 2309), (59, 2315), (60, 2318), (64, 2357), (77, 2420), (78, 2423), (79, 2426), (89, 2495), (91, 2501), (97, 2534), (99, 2543), (109, 2591), (118, 2651), (128, 2699), (140, 2744), (163, 2789), (168, 2816), (175, 2861), (180, 2882), (181, 2885), (182, 2888), (186, 2909), (188, 2918), (197, 2969), (198, 2972), (201, 2981), (207, 3011), (211, 3032), (221, 3101), (224, 3110), (229, 3161), (230, 3164), (238, 3224), (240, 3230), (260, 3341), (263, 3353), (272, 3386), (274, 3392), (279, 3416), (303, 3560),

Gene: Ejemplo_7 Start: 4059, Stop: 5495, Start Num: 43
Candidate Starts for Ejemplo_7:
(Start: 39 @4053 has 4 MA's), (Start: 43 @4059 has 102 MA's), (49, 4083), (55, 4107), (63, 4176), (69, 4224), (73, 4236), (81, 4275), (107, 4428), (113, 4458), (130, 4542), (143, 4584), (156, 4644), (158, 4650), (175, 4740), (178, 4752), (191, 4827), (196, 4845), (220, 4923), (225, 4968), (232, 5025), (273, 5238), (278, 5262), (301, 5394), (318, 5481),

Gene: ElGato_8 Start: 3905, Stop: 5338, Start Num: 43
Candidate Starts for ElGato_8:
(Start: 43 @3905 has 102 MA's), (63, 4022), (69, 4070), (73, 4082), (117, 4325), (155, 4472), (157, 4490), (159, 4496), (175, 4583), (178, 4595), (191, 4670), (196, 4688), (213, 4727), (220, 4763), (232, 4865), (260, 5027), (265, 5045), (278, 5102), (293, 5192), (301, 5234), (313, 5300), (318, 5324),

Gene: EleanorGeorge_3 Start: 2255, Stop: 3625, Start Num: 44
Candidate Starts for EleanorGeorge_3:
(Start: 44 @2255 has 159 MA's), (Start: 53 @2291 has 9 MA's), (Start: 57 @2315 has 1 MA's), (58, 2324), (59, 2330), (60, 2333), (64, 2372), (78, 2438), (79, 2441), (89, 2510), (97, 2549), (99, 2558), (109, 2606), (118, 2666), (128, 2714), (140, 2759), (163, 2804), (168, 2831), (175, 2876), (180, 2897), (181, 2900), (182, 2903), (186, 2924), (188, 2933), (197, 2984), (198, 2987), (201, 2996), (207, 3026), (211, 3047), (221, 3116), (224, 3125), (229, 3176), (230, 3179), (236, 3233), (238, 3239), (239, 3242), (240, 3245), (251, 3302), (260, 3356), (263, 3368), (272, 3401), (274, 3407), (279, 3431), (303, 3575), (309, 3593),

Gene: Emaanora_9 Start: 4055, Stop: 5491, Start Num: 43
Candidate Starts for Emaanora_9:
(Start: 39 @4049 has 4 MA's), (Start: 43 @4055 has 102 MA's), (49, 4079), (55, 4103), (63, 4172), (69, 4220), (73, 4232), (81, 4271), (107, 4424), (130, 4538), (143, 4580), (150, 4607), (156, 4640), (158, 4646), (175, 4736), (178, 4748), (191, 4823), (196, 4841), (220, 4919), (225, 4964), (232, 5021), (273, 5234), (278, 5258), (301, 5390), (313, 5456), (318, 5477),

Gene: EmiMonkey_3 Start: 2255, Stop: 3625, Start Num: 44
Candidate Starts for EmiMonkey_3:
(Start: 44 @2255 has 159 MA's), (Start: 53 @2291 has 9 MA's), (Start: 57 @2315 has 1 MA's), (58, 2324), (59, 2330), (60, 2333), (64, 2372), (78, 2438), (79, 2441), (89, 2510), (97, 2549), (99, 2558), (109, 2606), (118, 2666), (128, 2714), (140, 2759), (163, 2804), (168, 2831), (175, 2876), (180, 2897), (181, 2900), (182, 2903), (186, 2924), (188, 2933), (197, 2984), (198, 2987), (201, 2996), (207, 3026), (211, 3047), (221, 3116), (224, 3125), (229, 3176), (230, 3179), (236, 3233), (238, 3239), (240, 3245), (254, 3323), (260, 3356), (263, 3368), (274, 3407), (279, 3431), (309, 3593),

Gene: Emianna_25 Start: 14922, Stop: 16511, Start Num: 30
Candidate Starts for Emianna_25:
(Start: 30 @14922 has 23 MA's), (32, 14928), (35, 14943), (Start: 40 @14952 has 1 MA's), (54, 15006), (85, 15198), (97, 15276), (102, 15300), (105, 15330), (148, 15534), (161, 15561), (167, 15588), (181, 15678), (193, 15750), (198, 15765), (203, 15780), (220, 15861), (236, 16002), (256, 16101), (258, 16116), (260, 16125), (262, 16134), (271, 16170), (277, 16194), (292, 16278), (293, 16287), (300, 16332),

Gene: Emma_3 Start: 2255, Stop: 3625, Start Num: 44
Candidate Starts for Emma_3:
(Start: 44 @2255 has 159 MA's), (Start: 53 @2291 has 9 MA's), (Start: 57 @2315 has 1 MA's), (58, 2324), (59, 2330), (60, 2333), (64, 2372), (78, 2438), (79, 2441), (89, 2510), (97, 2549), (99, 2558), (109, 2606), (118, 2666), (128, 2714), (140, 2759), (163, 2804), (168, 2831), (175, 2876), (180, 2897), (181, 2900), (182, 2903), (186, 2924), (188, 2933), (197, 2984), (198, 2987), (201, 2996), (207, 3026), (211, 3047), (221, 3116), (224, 3125), (229, 3176), (230, 3179), (236, 3233), (238, 3239), (239, 3242), (240, 3245), (251, 3302), (260, 3356), (263, 3368), (272, 3401), (274, 3407), (279, 3431), (303, 3575), (309, 3593),

Gene: Empress_3 Start: 2239, Stop: 3609, Start Num: 44
Candidate Starts for Empress_3:
(Start: 44 @2239 has 159 MA's), (Start: 53 @2275 has 9 MA's), (Start: 57 @2299 has 1 MA's), (58, 2308), (59, 2314), (60, 2317), (64, 2356), (78, 2422), (79, 2425), (89, 2494), (97, 2533), (99, 2542), (109, 2590), (118, 2650), (128, 2698), (140, 2743), (163, 2788), (168, 2815), (175, 2860), (180, 2881), (181, 2884), (182, 2887), (186, 2908), (188, 2917), (197, 2968), (198, 2971), (201, 2980), (207, 3010), (210, 3028), (211, 3031), (221, 3100), (224, 3109), (229, 3160), (230, 3163), (238, 3223), (240, 3229), (254, 3307), (260, 3340), (263, 3352), (274, 3391), (279, 3415), (309, 3577),

Gene: Engineer_32 Start: 10389, Stop: 12005, Start Num: 22
Candidate Starts for Engineer_32:
(Start: 22 @10389 has 25 MA's), (42, 10440), (45, 10449), (Start: 57 @10509 has 1 MA's), (64, 10566), (71, 10602), (82, 10647), (86, 10674), (117, 10878), (124, 10908), (131, 10944), (142, 10989), (146, 10998), (149, 11013), (180, 11151), (181, 11154), (184, 11172), (186, 11178), (192, 11220), (223, 11412), (234, 11499), (238, 11529), (247, 11574), (256, 11622), (258, 11637), (275, 11700), (279, 11724), (280, 11730), (282, 11739), (295, 11808), (303, 11859), (304, 11862), (306, 11874),

Gene: Ennea_31 Start: 15546, Stop: 17129, Start Num: 28
Candidate Starts for Ennea_31:
(Start: 28 @15546 has 6 MA's), (32, 15555), (54, 15633), (97, 15900), (113, 16014), (178, 16284), (193, 16368), (198, 16383), (203, 16398), (220, 16479), (236, 16620), (256, 16719), (260, 16743), (262, 16752), (277, 16812), (289, 16878), (292, 16896), (293, 16905), (300, 16950),

Gene: EnochSoames_8 Start: 4237, Stop: 5679, Start Num: 43
Candidate Starts for EnochSoames_8:
(37, 4228), (Start: 39 @4231 has 4 MA's), (Start: 43 @4237 has 102 MA's), (63, 4354), (69, 4402), (130, 4720), (143, 4762), (150, 4789), (175, 4915), (178, 4927), (196, 5020), (220, 5098), (225, 5143), (232, 5200), (235, 5224), (278, 5437), (318, 5665),

Gene: Eradicator_3 Start: 2240, Stop: 3610, Start Num: 44
Candidate Starts for Eradicator_3:
(Start: 44 @2240 has 159 MA's), (Start: 53 @2276 has 9 MA's), (Start: 57 @2300 has 1 MA's), (58, 2309), (59, 2315), (60, 2318), (64, 2357), (78, 2423), (79, 2426), (89, 2495), (97, 2534), (99, 2543), (109, 2591), (118, 2651), (128, 2699), (140, 2744), (163, 2789), (168, 2816), (175, 2861), (180, 2882), (181, 2885), (182, 2888), (186, 2909), (188, 2918), (197, 2969), (198, 2972), (201, 2981), (207, 3011), (211, 3032), (221, 3101), (224, 3110), (229, 3161), (230, 3164), (238, 3224), (240, 3230), (254, 3308), (260, 3341), (263, 3353), (274, 3392), (279, 3416), (309, 3578),

Gene: Esperer_7 Start: 4081, Stop: 5523, Start Num: 43
Candidate Starts for Esperer_7:
(37, 4072), (Start: 39 @4075 has 4 MA's), (Start: 43 @4081 has 102 MA's), (63, 4198), (69, 4246), (130, 4564), (143, 4606), (150, 4633), (156, 4666), (175, 4759), (178, 4771), (196, 4864), (220, 4942),

(225, 4987), (232, 5044), (235, 5068), (278, 5281), (318, 5509),

Gene: Estave1_3 Start: 2240, Stop: 3610, Start Num: 44
Candidate Starts for Estave1_3:
(Start: 44 @2240 has 159 MA's), (Start: 53 @2276 has 9 MA's), (Start: 57 @2300 has 1 MA's), (58, 2309), (59, 2315), (60, 2318), (64, 2357), (77, 2420), (78, 2423), (79, 2426), (89, 2495), (91, 2501), (97, 2534), (99, 2543), (109, 2591), (118, 2651), (123, 2672), (128, 2699), (140, 2744), (163, 2789), (168, 2816), (175, 2861), (180, 2882), (181, 2885), (182, 2888), (186, 2909), (188, 2918), (197, 2969), (198, 2972), (201, 2981), (207, 3011), (211, 3032), (221, 3101), (224, 3110), (229, 3161), (230, 3164), (238, 3224), (240, 3230), (254, 3308), (260, 3341), (263, 3353), (274, 3392), (279, 3416), (309, 3578),

Gene: Fancypants_3 Start: 2240, Stop: 3610, Start Num: 44
Candidate Starts for Fancypants_3:
(Start: 44 @2240 has 159 MA's), (Start: 52 @2273 has 2 MA's), (Start: 57 @2300 has 1 MA's), (58, 2309), (59, 2315), (60, 2318), (64, 2357), (78, 2423), (79, 2426), (89, 2495), (97, 2534), (99, 2543), (109, 2591), (118, 2651), (123, 2672), (128, 2699), (140, 2744), (163, 2789), (168, 2816), (175, 2861), (180, 2882), (181, 2885), (182, 2888), (186, 2909), (188, 2918), (197, 2969), (198, 2972), (201, 2981), (207, 3011), (211, 3032), (221, 3101), (224, 3110), (229, 3161), (230, 3164), (238, 3224), (240, 3230), (260, 3341), (263, 3353), (272, 3386), (274, 3392), (279, 3416), (309, 3578),

Gene: Fastidio_3 Start: 2255, Stop: 3613, Start Num: 44
Candidate Starts for Fastidio_3:
(Start: 44 @2255 has 159 MA's), (Start: 53 @2291 has 9 MA's), (Start: 57 @2315 has 1 MA's), (58, 2324), (59, 2330), (60, 2333), (64, 2372), (78, 2438), (79, 2441), (89, 2510), (97, 2549), (99, 2558), (109, 2606), (118, 2666), (128, 2714), (140, 2759), (163, 2804), (168, 2831), (175, 2876), (180, 2897), (181, 2900), (182, 2903), (186, 2924), (188, 2933), (197, 2984), (198, 2987), (201, 2996), (207, 3026), (211, 3047), (221, 3116), (224, 3125), (229, 3176), (230, 3179), (238, 3239), (240, 3245), (254, 3323), (260, 3356), (263, 3368), (270, 3386), (272, 3401), (274, 3407), (279, 3431), (303, 3575),

Gene: Filuzino_3 Start: 2292, Stop: 3626, Start Num: 53
Candidate Starts for Filuzino_3:
(Start: 44 @2256 has 159 MA's), (Start: 53 @2292 has 9 MA's), (Start: 57 @2316 has 1 MA's), (58, 2325), (59, 2331), (60, 2334), (64, 2373), (78, 2439), (79, 2442), (89, 2511), (97, 2550), (99, 2559), (109, 2607), (118, 2667), (128, 2715), (140, 2760), (163, 2805), (168, 2832), (175, 2877), (180, 2898), (181, 2901), (182, 2904), (186, 2925), (188, 2934), (197, 2985), (198, 2988), (201, 2997), (207, 3027), (211, 3048), (221, 3117), (224, 3126), (229, 3177), (230, 3180), (236, 3234), (238, 3240), (239, 3243), (240, 3246), (251, 3303), (260, 3357), (263, 3369), (272, 3402), (274, 3408), (279, 3432), (303, 3576), (309, 3594),

Gene: Firehouse51_3 Start: 2255, Stop: 3625, Start Num: 44
Candidate Starts for Firehouse51_3:
(Start: 44 @2255 has 159 MA's), (Start: 53 @2291 has 9 MA's), (Start: 57 @2315 has 1 MA's), (58, 2324), (59, 2330), (60, 2333), (64, 2372), (78, 2438), (79, 2441), (89, 2510), (97, 2549), (99, 2558), (109, 2606), (118, 2666), (128, 2714), (140, 2759), (163, 2804), (168, 2831), (175, 2876), (180, 2897), (181, 2900), (182, 2903), (186, 2924), (188, 2933), (197, 2984), (198, 2987), (201, 2996), (207, 3026), (211, 3047), (221, 3116), (224, 3125), (229, 3176), (230, 3179), (236, 3233), (238, 3239), (240, 3245), (251, 3302), (260, 3356), (263, 3368), (272, 3401), (274, 3407), (279, 3431), (303, 3575), (309, 3593),

Gene: Flapper_29 Start: 15375, Stop: 16952, Start Num: 29
Candidate Starts for Flapper_29:
(Start: 29 @15375 has 8 MA's), (85, 15651), (148, 15987), (173, 16074), (193, 16191), (203, 16221), (220, 16302), (236, 16443), (256, 16542), (260, 16566), (262, 16575), (271, 16611), (277, 16635), (292, 16719), (293, 16728), (300, 16773),

Gene: Float294_27 Start: 14988, Stop: 16571, Start Num: 28
Candidate Starts for Float294_27:
(Start: 28 @14988 has 6 MA's), (32, 14997), (54, 15075), (97, 15342), (113, 15456), (178, 15726), (193, 15810), (198, 15825), (203, 15840), (220, 15921), (233, 16029), (236, 16062), (256, 16161), (260, 16185), (262, 16194), (277, 16254), (289, 16320), (292, 16338), (293, 16347), (300, 16392), (302, 16407),

Gene: Florinda_3 Start: 2258, Stop: 3628, Start Num: 44
Candidate Starts for Florinda_3:
(Start: 44 @2258 has 159 MA's), (Start: 57 @2318 has 1 MA's), (58, 2327), (59, 2333), (60, 2336), (64, 2375), (78, 2441), (79, 2444), (89, 2513), (97, 2552), (99, 2561), (109, 2609), (118, 2669), (128, 2717), (140, 2762), (163, 2807), (168, 2834), (175, 2879), (180, 2900), (181, 2903), (182, 2906), (186, 2927), (188, 2936), (197, 2987), (198, 2990), (201, 2999), (207, 3029), (211, 3050), (221, 3119), (224, 3128), (229, 3179), (230, 3182), (236, 3236), (238, 3242), (240, 3248), (260, 3359), (274, 3410), (279, 3434), (309, 3596),

Gene: Foxboro_26 Start: 15428, Stop: 17017, Start Num: 30
Candidate Starts for Foxboro_26:
(Start: 30 @15428 has 23 MA's), (32, 15434), (35, 15449), (Start: 40 @15458 has 1 MA's), (54, 15512), (85, 15704), (97, 15782), (102, 15806), (105, 15836), (148, 16040), (161, 16067), (167, 16094), (181, 16184), (193, 16256), (198, 16271), (203, 16286), (220, 16367), (236, 16508), (256, 16607), (258, 16622), (260, 16631), (262, 16640), (271, 16676), (277, 16700), (292, 16784), (293, 16793), (300, 16838),

Gene: FreddyB_3 Start: 2240, Stop: 3610, Start Num: 44
Candidate Starts for FreddyB_3:
(Start: 44 @2240 has 159 MA's), (Start: 53 @2276 has 9 MA's), (Start: 57 @2300 has 1 MA's), (58, 2309), (59, 2315), (60, 2318), (64, 2357), (78, 2423), (79, 2426), (89, 2495), (97, 2534), (99, 2543), (109, 2591), (118, 2651), (128, 2699), (140, 2744), (163, 2789), (168, 2816), (175, 2861), (180, 2882), (181, 2885), (182, 2888), (186, 2909), (188, 2918), (197, 2969), (198, 2972), (201, 2981), (207, 3011), (211, 3032), (221, 3101), (224, 3110), (229, 3161), (230, 3164), (238, 3224), (240, 3230), (254, 3308), (260, 3341), (263, 3353), (274, 3392), (279, 3416), (309, 3578),

Gene: Fruitloop_3 Start: 2255, Stop: 3625, Start Num: 44
Candidate Starts for Fruitloop_3:
(Start: 44 @2255 has 159 MA's), (Start: 53 @2291 has 9 MA's), (Start: 57 @2315 has 1 MA's), (58, 2324), (59, 2330), (60, 2333), (64, 2372), (78, 2438), (79, 2441), (89, 2510), (97, 2549), (99, 2558), (109, 2606), (118, 2666), (128, 2714), (140, 2759), (163, 2804), (168, 2831), (175, 2876), (180, 2897), (181, 2900), (182, 2903), (186, 2924), (188, 2933), (197, 2984), (198, 2987), (201, 2996), (207, 3026), (211, 3047), (221, 3116), (224, 3125), (229, 3176), (230, 3179), (236, 3233), (238, 3239), (240, 3245), (251, 3302), (260, 3356), (263, 3368), (272, 3401), (274, 3407), (279, 3431), (303, 3575), (309, 3593),

Gene: Fury_34 Start: 14654, Stop: 16231, Start Num: 29
Candidate Starts for Fury_34:
(Start: 29 @14654 has 8 MA's), (31, 14660), (32, 14663), (41, 14690), (54, 14741), (97, 15008), (129, 15203), (134, 15218), (148, 15266), (193, 15470), (198, 15485), (203, 15500), (220, 15581), (231, 15677), (233, 15689), (236, 15722), (256, 15821), (260, 15845), (262, 15854), (271, 15890), (275, 15905), (277, 15914), (292, 15998), (299, 16046), (300, 16052),

Gene: GAL1_5 Start: 3245, Stop: 4624, Start Num: 24
Candidate Starts for GAL1_5:

(21, 3239), (24, 3245), (46, 3314), (58, 3368), (62, 3392), (64, 3416), (71, 3452), (78, 3482), (80, 3488), (82, 3497), (83, 3500), (84, 3509), (85, 3515), (95, 3578), (103, 3626), (104, 3635), (107, 3653), (124, 3710), (128, 3737), (130, 3743), (135, 3758), (181, 3914), (198, 4001), (199, 4004), (208, 4040), (218, 4091), (221, 4127), (233, 4208), (247, 4292), (248, 4295), (256, 4340), (257, 4352), (259, 4361), (273, 4409), (280, 4445), (289, 4487), (295, 4523), (301, 4562), (307, 4592),

Gene: GRU1_15 Start: 7260, Stop: 8837, Start Num: 29
Candidate Starts for GRU1_15:
(Start: 29 @7260 has 8 MA's), (85, 7536), (107, 7674), (148, 7872), (173, 7959), (193, 8076), (203, 8106), (220, 8187), (235, 8313), (236, 8328), (256, 8427), (260, 8451), (262, 8460), (271, 8496), (277, 8520), (292, 8604), (293, 8613), (300, 8658),

Gene: GTE5_16 Start: 8269, Stop: 9846, Start Num: 29
Candidate Starts for GTE5_16:
(Start: 29 @8269 has 8 MA's), (85, 8545), (107, 8683), (148, 8881), (173, 8968), (193, 9085), (203, 9115), (220, 9196), (235, 9322), (236, 9337), (256, 9436), (260, 9460), (262, 9469), (271, 9505), (277, 9529), (292, 9613), (293, 9622), (300, 9667),

Gene: GTE8_14 Start: 8211, Stop: 9800, Start Num: 30
Candidate Starts for GTE8_14:
(Start: 30 @8211 has 23 MA's), (32, 8217), (35, 8232), (54, 8295), (85, 8487), (97, 8565), (102, 8589), (105, 8619), (148, 8823), (161, 8850), (167, 8877), (180, 8964), (181, 8967), (193, 9039), (198, 9054), (203, 9069), (220, 9150), (224, 9183), (236, 9291), (256, 9390), (260, 9414), (262, 9423), (271, 9459), (277, 9483), (292, 9567), (293, 9576), (300, 9621),

Gene: GUmbie_3 Start: 2256, Stop: 3626, Start Num: 44
Candidate Starts for GUmbie_3:
(Start: 44 @2256 has 159 MA's), (Start: 52 @2289 has 2 MA's), (Start: 57 @2316 has 1 MA's), (58, 2325), (59, 2331), (60, 2334), (64, 2373), (77, 2436), (78, 2439), (79, 2442), (89, 2511), (91, 2517), (97, 2550), (99, 2559), (109, 2607), (118, 2667), (128, 2715), (140, 2760), (163, 2805), (168, 2832), (175, 2877), (180, 2898), (181, 2901), (182, 2904), (186, 2925), (188, 2934), (197, 2985), (198, 2988), (201, 2997), (207, 3027), (211, 3048), (221, 3117), (224, 3126), (229, 3177), (230, 3180), (238, 3240), (240, 3246), (254, 3324), (260, 3357), (263, 3369), (274, 3408), (279, 3432), (309, 3594),

Gene: Gagieri_29 Start: 15637, Stop: 17226, Start Num: 25
Candidate Starts for Gagieri_29:
(20, 15610), (Start: 25 @15637 has 6 MA's), (Start: 29 @15643 has 8 MA's), (32, 15652), (36, 15670), (38, 15673), (54, 15730), (65, 15823), (97, 15997), (98, 16003), (103, 16030), (116, 16123), (131, 16198), (134, 16207), (141, 16237), (167, 16306), (190, 16435), (193, 16456), (199, 16474), (203, 16486), (221, 16591), (226, 16618), (231, 16663), (233, 16675), (236, 16708), (253, 16786), (256, 16807), (260, 16831), (262, 16840), (269, 16864), (287, 16960), (292, 16984), (293, 16993), (296, 17017),

Gene: Galactic_3 Start: 2239, Stop: 3597, Start Num: 44
Candidate Starts for Galactic_3:
(Start: 44 @2239 has 159 MA's), (Start: 52 @2272 has 2 MA's), (Start: 57 @2299 has 1 MA's), (58, 2308), (59, 2314), (60, 2317), (64, 2356), (77, 2419), (78, 2422), (79, 2425), (89, 2494), (91, 2500), (97, 2533), (99, 2542), (109, 2590), (118, 2650), (123, 2671), (128, 2698), (140, 2743), (163, 2788), (168, 2815), (175, 2860), (180, 2881), (181, 2884), (182, 2887), (186, 2908), (188, 2917), (197, 2968), (198, 2971), (201, 2980), (207, 3010), (211, 3031), (221, 3100), (224, 3109), (229, 3160), (230, 3163), (238, 3223), (240, 3229), (254, 3307), (260, 3340), (263, 3352), (272, 3385), (274, 3391), (279, 3415), (303, 3559),

Gene: Gandalph_3 Start: 2291, Stop: 3625, Start Num: 53
Candidate Starts for Gandalph_3:
(Start: 44 @2255 has 159 MA's), (Start: 53 @2291 has 9 MA's), (Start: 57 @2315 has 1 MA's), (58, 2324), (59, 2330), (60, 2333), (64, 2372), (78, 2438), (79, 2441), (89, 2510), (97, 2549), (99, 2558), (109, 2606), (118, 2666), (128, 2714), (140, 2759), (163, 2804), (168, 2831), (175, 2876), (180, 2897), (181, 2900), (182, 2903), (186, 2924), (188, 2933), (197, 2984), (198, 2987), (201, 2996), (207, 3026), (211, 3047), (221, 3116), (224, 3125), (229, 3176), (230, 3179), (234, 3209), (236, 3233), (238, 3239), (240, 3245), (254, 3323), (260, 3356), (263, 3368), (274, 3407), (279, 3431), (303, 3575), (309, 3593),

Gene: Geeche_30 Start: 10263, Stop: 11879, Start Num: 22
Candidate Starts for Geeche_30:
(Start: 22 @10263 has 25 MA's), (42, 10314), (45, 10323), (Start: 57 @10383 has 1 MA's), (64, 10440), (71, 10476), (82, 10521), (86, 10548), (117, 10752), (124, 10782), (131, 10818), (142, 10863), (146, 10872), (149, 10887), (180, 11025), (181, 11028), (184, 11046), (186, 11052), (192, 11094), (223, 11286), (234, 11373), (238, 11403), (247, 11448), (256, 11496), (258, 11511), (275, 11574), (279, 11598), (280, 11604), (282, 11613), (295, 11682), (303, 11733), (304, 11736), (306, 11748),

Gene: Geralt_3 Start: 2239, Stop: 3609, Start Num: 44
Candidate Starts for Geralt_3:
(Start: 44 @2239 has 159 MA's), (Start: 53 @2275 has 9 MA's), (Start: 57 @2299 has 1 MA's), (58, 2308), (59, 2314), (60, 2317), (64, 2356), (78, 2422), (79, 2425), (89, 2494), (97, 2533), (99, 2542), (109, 2590), (118, 2650), (128, 2698), (140, 2743), (163, 2788), (168, 2815), (175, 2860), (180, 2881), (181, 2884), (182, 2887), (186, 2908), (188, 2917), (197, 2968), (198, 2971), (201, 2980), (207, 3010), (211, 3031), (221, 3100), (224, 3109), (229, 3160), (230, 3163), (238, 3223), (240, 3229), (254, 3307), (260, 3340), (263, 3352), (274, 3391), (279, 3415), (309, 3577),

Gene: GigiOuiOui_3 Start: 2255, Stop: 3625, Start Num: 44
Candidate Starts for GigiOuiOui_3:
(Start: 44 @2255 has 159 MA's), (Start: 53 @2291 has 9 MA's), (Start: 57 @2315 has 1 MA's), (58, 2324), (59, 2330), (60, 2333), (64, 2372), (78, 2438), (79, 2441), (89, 2510), (97, 2549), (99, 2558), (109, 2606), (118, 2666), (128, 2714), (140, 2759), (163, 2804), (168, 2831), (175, 2876), (180, 2897), (181, 2900), (182, 2903), (186, 2924), (188, 2933), (197, 2984), (198, 2987), (201, 2996), (207, 3026), (211, 3047), (221, 3116), (224, 3125), (229, 3176), (230, 3179), (234, 3209), (236, 3233), (238, 3239), (240, 3245), (254, 3323), (260, 3356), (263, 3368), (274, 3407), (279, 3431), (309, 3593),

Gene: GirlDinner_7 Start: 3867, Stop: 5354, Start Num: 43
Candidate Starts for GirlDinner_7:
(Start: 43 @3867 has 102 MA's), (63, 3984), (81, 4083), (90, 4137), (97, 4176), (143, 4389), (178, 4557), (191, 4632), (193, 4641), (196, 4650), (202, 4668), (204, 4674), (225, 4815), (231, 4866), (232, 4872), (278, 5109), (295, 5208), (301, 5241), (305, 5262), (318, 5340),

Gene: Girr_3 Start: 2241, Stop: 3611, Start Num: 44
Candidate Starts for Girr_3:
(Start: 44 @2241 has 159 MA's), (Start: 53 @2277 has 9 MA's), (Start: 57 @2301 has 1 MA's), (58, 2310), (59, 2316), (60, 2319), (64, 2358), (78, 2424), (79, 2427), (89, 2496), (97, 2535), (99, 2544), (109, 2592), (118, 2652), (128, 2700), (140, 2745), (163, 2790), (168, 2817), (175, 2862), (180, 2883), (181, 2886), (182, 2889), (186, 2910), (188, 2919), (197, 2970), (198, 2973), (201, 2982), (207, 3012), (211, 3033), (221, 3102), (224, 3111), (229, 3162), (230, 3165), (238, 3225), (240, 3231), (254, 3309), (260, 3342), (263, 3354), (274, 3393), (279, 3417), (309, 3579),

Gene: Goby_7 Start: 4056, Stop: 5492, Start Num: 43
Candidate Starts for Goby_7:

(Start: 39 @4050 has 4 MA's), (Start: 43 @4056 has 102 MA's), (49, 4080), (55, 4104), (63, 4173), (69, 4221), (81, 4272), (113, 4455), (130, 4539), (143, 4581), (175, 4737), (178, 4749), (196, 4842), (220, 4920), (225, 4965), (232, 5022), (273, 5235), (278, 5259), (318, 5478),

Gene: Godpower_8 Start: 4059, Stop: 5495, Start Num: 43
Candidate Starts for Godpower_8:
(Start: 39 @4053 has 4 MA's), (Start: 43 @4059 has 102 MA's), (49, 4083), (55, 4107), (63, 4176), (69, 4224), (81, 4275), (113, 4458), (130, 4542), (143, 4584), (175, 4740), (178, 4752), (196, 4845), (220, 4923), (225, 4968), (232, 5025), (235, 5049), (273, 5238), (278, 5262), (318, 5481),

Gene: Gorge_3 Start: 2240, Stop: 3598, Start Num: 44
Candidate Starts for Gorge_3:
(Start: 44 @2240 has 159 MA's), (Start: 53 @2276 has 9 MA's), (Start: 57 @2300 has 1 MA's), (58, 2309), (59, 2315), (60, 2318), (64, 2357), (78, 2423), (79, 2426), (89, 2495), (97, 2534), (99, 2543), (109, 2591), (118, 2651), (128, 2699), (140, 2744), (163, 2789), (168, 2816), (175, 2861), (180, 2882), (181, 2885), (182, 2888), (186, 2909), (188, 2918), (197, 2969), (198, 2972), (201, 2981), (207, 3011), (210, 3029), (211, 3032), (221, 3101), (224, 3110), (229, 3161), (230, 3164), (238, 3224), (240, 3230), (260, 3341), (263, 3353), (272, 3386), (274, 3392), (279, 3416), (303, 3560),

Gene: GreenWeasel_9 Start: 4105, Stop: 5589, Start Num: 43
Candidate Starts for GreenWeasel_9:
(Start: 43 @4105 has 102 MA's), (63, 4222), (69, 4270), (107, 4477), (111, 4501), (126, 4576), (130, 4588), (131, 4591), (138, 4612), (143, 4630), (150, 4657), (156, 4690), (165, 4711), (166, 4720), (178, 4795), (185, 4828), (187, 4837), (189, 4843), (191, 4870), (196, 4888), (200, 4900), (202, 4906), (221, 5032), (225, 5053), (231, 5104), (232, 5110), (259, 5269), (275, 5332), (278, 5347), (293, 5437), (301, 5479), (315, 5551),

Gene: Grimmer_4 Start: 2936, Stop: 4261, Start Num: 52
Candidate Starts for Grimmer_4:
(Start: 44 @2903 has 159 MA's), (Start: 52 @2936 has 2 MA's), (Start: 57 @2963 has 1 MA's), (58, 2972), (59, 2978), (60, 2981), (64, 3020), (77, 3083), (78, 3086), (79, 3089), (89, 3158), (91, 3164), (97, 3197), (99, 3206), (109, 3254), (118, 3314), (128, 3362), (140, 3407), (163, 3452), (168, 3479), (175, 3524), (180, 3545), (181, 3548), (182, 3551), (186, 3572), (188, 3581), (197, 3632), (198, 3635), (201, 3644), (207, 3674), (211, 3695), (221, 3764), (224, 3773), (229, 3824), (230, 3827), (238, 3887), (240, 3893), (260, 4004), (263, 4016), (272, 4049), (274, 4055), (279, 4079), (303, 4223),

Gene: GrootJr_27 Start: 14278, Stop: 15867, Start Num: 30
Candidate Starts for GrootJr_27:
(Start: 30 @14278 has 23 MA's), (32, 14284), (35, 14299), (54, 14362), (85, 14554), (97, 14632), (102, 14656), (105, 14686), (161, 14917), (181, 15034), (193, 15106), (198, 15121), (203, 15136), (220, 15217), (236, 15358), (256, 15457), (258, 15472), (260, 15481), (262, 15490), (271, 15526), (277, 15550), (292, 15634), (293, 15643), (300, 15688),

Gene: Guppsters_3 Start: 2255, Stop: 3625, Start Num: 44
Candidate Starts for Guppsters_3:
(Start: 44 @2255 has 159 MA's), (Start: 53 @2291 has 9 MA's), (Start: 57 @2315 has 1 MA's), (58, 2324), (59, 2330), (60, 2333), (64, 2372), (78, 2438), (79, 2441), (89, 2510), (97, 2549), (99, 2558), (109, 2606), (118, 2666), (128, 2714), (140, 2759), (163, 2804), (168, 2831), (175, 2876), (180, 2897), (181, 2900), (182, 2903), (186, 2924), (188, 2933), (197, 2984), (198, 2987), (201, 2996), (207, 3026), (211, 3047), (221, 3116), (224, 3125), (229, 3176), (230, 3179), (236, 3233), (238, 3239), (239, 3242), (240, 3245), (251, 3302), (260, 3356), (263, 3368), (272, 3401), (274, 3407), (279, 3431), (303, 3575), (309, 3593),

Gene: Hades_3 Start: 2255, Stop: 3613, Start Num: 44
Candidate Starts for Hades_3:
(Start: 44 @2255 has 159 MA's), (Start: 53 @2291 has 9 MA's), (Start: 57 @2315 has 1 MA's), (58, 2324), (59, 2330), (60, 2333), (64, 2372), (78, 2438), (79, 2441), (89, 2510), (97, 2549), (99, 2558), (109, 2606), (118, 2666), (128, 2714), (140, 2759), (163, 2804), (168, 2831), (175, 2876), (180, 2897), (181, 2900), (182, 2903), (186, 2924), (188, 2933), (197, 2984), (198, 2987), (201, 2996), (207, 3026), (211, 3047), (221, 3116), (224, 3125), (229, 3176), (230, 3179), (238, 3239), (240, 3245), (254, 3323), (260, 3356), (263, 3368), (272, 3401), (274, 3407), (279, 3431), (303, 3575),

Gene: Haizum_7 Start: 3857, Stop: 5332, Start Num: 43
Candidate Starts for Haizum_7:
(Start: 43 @3857 has 102 MA's), (63, 3974), (81, 4073), (97, 4166), (121, 4289), (156, 4439), (178, 4544), (191, 4619), (196, 4637), (200, 4649), (202, 4655), (225, 4802), (231, 4853), (232, 4859), (239, 4907), (265, 5039), (278, 5096), (293, 5186), (318, 5318),

Gene: Hamulus_3 Start: 2256, Stop: 3626, Start Num: 44
Candidate Starts for Hamulus_3:
(Start: 44 @2256 has 159 MA's), (Start: 53 @2292 has 9 MA's), (Start: 57 @2316 has 1 MA's), (58, 2325), (59, 2331), (60, 2334), (64, 2373), (78, 2439), (79, 2442), (89, 2511), (97, 2550), (99, 2559), (109, 2607), (118, 2667), (128, 2715), (140, 2760), (163, 2805), (168, 2832), (175, 2877), (180, 2898), (181, 2901), (182, 2904), (186, 2925), (188, 2934), (197, 2985), (198, 2988), (201, 2997), (207, 3027), (211, 3048), (221, 3117), (224, 3126), (229, 3177), (230, 3180), (236, 3234), (238, 3240), (239, 3243), (240, 3246), (251, 3303), (260, 3357), (263, 3369), (272, 3402), (274, 3408), (279, 3432), (303, 3576), (309, 3594),

Gene: Hank144_8 Start: 4150, Stop: 5634, Start Num: 43
Candidate Starts for Hank144_8:
(Start: 43 @4150 has 102 MA's), (63, 4267), (69, 4315), (73, 4327), (81, 4366), (97, 4459), (131, 4633), (143, 4672), (156, 4732), (174, 4819), (175, 4825), (178, 4837), (191, 4912), (196, 4930), (200, 4942), (202, 4948), (204, 4954), (225, 5095), (231, 5146), (232, 5152), (278, 5389), (295, 5488), (301, 5521), (318, 5620),

Gene: Harley_3 Start: 2240, Stop: 3598, Start Num: 44
Candidate Starts for Harley_3:
(Start: 44 @2240 has 159 MA's), (Start: 52 @2273 has 2 MA's), (Start: 57 @2300 has 1 MA's), (58, 2309), (59, 2315), (60, 2318), (64, 2357), (77, 2420), (78, 2423), (79, 2426), (89, 2495), (91, 2501), (97, 2534), (99, 2543), (109, 2591), (118, 2651), (123, 2672), (128, 2699), (140, 2744), (163, 2789), (168, 2816), (175, 2861), (180, 2882), (181, 2885), (182, 2888), (186, 2909), (188, 2918), (197, 2969), (198, 2972), (201, 2981), (207, 3011), (211, 3032), (221, 3101), (224, 3110), (229, 3161), (230, 3164), (238, 3224), (240, 3230), (260, 3341), (263, 3353), (272, 3386), (274, 3392), (279, 3416), (303, 3560),

Gene: Hippo_7 Start: 4055, Stop: 5491, Start Num: 43
Candidate Starts for Hippo_7:
(Start: 39 @4049 has 4 MA's), (Start: 43 @4055 has 102 MA's), (49, 4079), (55, 4103), (63, 4172), (69, 4220), (73, 4232), (81, 4271), (107, 4424), (130, 4538), (143, 4580), (150, 4607), (156, 4640), (158, 4646), (175, 4736), (178, 4748), (191, 4823), (196, 4841), (220, 4919), (225, 4964), (232, 5021), (273, 5234), (278, 5258), (301, 5390), (313, 5456), (318, 5477),

Gene: Hlubikazi_3 Start: 2240, Stop: 3598, Start Num: 44
Candidate Starts for Hlubikazi_3:
(Start: 44 @2240 has 159 MA's), (Start: 52 @2273 has 2 MA's), (Start: 57 @2300 has 1 MA's), (58, 2309), (59, 2315), (60, 2318), (64, 2357), (77, 2420), (78, 2423), (79, 2426), (89, 2495), (91, 2501), (97, 2534), (99, 2543), (109, 2591), (118, 2651), (123, 2672), (128, 2699), (140, 2744), (163, 2789), (168,

2816), (175, 2861), (180, 2882), (181, 2885), (182, 2888), (186, 2909), (188, 2918), (197, 2969), (198, 2972), (201, 2981), (207, 3011), (211, 3032), (221, 3101), (224, 3110), (229, 3161), (230, 3164), (238, 3224), (240, 3230), (254, 3308), (260, 3341), (263, 3353), (272, 3386), (274, 3392), (279, 3416), (303, 3560),

Gene: HomeFry_31 Start: 13323, Stop: 14900, Start Num: 29
Candidate Starts for HomeFry_31:
(Start: 29 @13323 has 8 MA's), (31, 13329), (32, 13332), (41, 13359), (54, 13410), (97, 13677), (134, 13887), (141, 13917), (190, 14118), (193, 14139), (195, 14145), (198, 14154), (203, 14169), (220, 14250), (233, 14358), (235, 14376), (236, 14391), (256, 14490), (260, 14514), (262, 14523), (271, 14559), (275, 14574), (277, 14583), (292, 14667), (299, 14715), (300, 14721), (320, 14865),

Gene: HubbaBubba_23 Start: 10808, Stop: 12430, Start Num: 18
Candidate Starts for HubbaBubba_23:
(Start: 18 @10808 has 7 MA's), (Start: 30 @10853 has 23 MA's), (41, 10886), (106, 11264), (121, 11357), (161, 11492), (170, 11537), (193, 11669), (203, 11699), (220, 11780), (231, 11876), (235, 11906), (236, 11921), (260, 12044), (262, 12053), (271, 12089), (277, 12113), (292, 12197), (293, 12206), (300, 12251),

Gene: Hydra_9 Start: 4618, Stop: 6060, Start Num: 43
Candidate Starts for Hydra_9:
(37, 4609), (Start: 39 @4612 has 4 MA's), (Start: 43 @4618 has 102 MA's), (63, 4735), (69, 4783), (130, 5101), (143, 5143), (150, 5170), (156, 5203), (175, 5296), (178, 5308), (196, 5401), (220, 5479), (225, 5524), (232, 5581), (235, 5605), (278, 5818), (318, 6046),

Gene: IDyn_26 Start: 12204, Stop: 13826, Start Num: 18
Candidate Starts for IDyn_26:
(Start: 18 @12204 has 7 MA's), (Start: 30 @12249 has 23 MA's), (41, 12282), (106, 12660), (161, 12888), (170, 12933), (193, 13065), (203, 13095), (231, 13272), (235, 13302), (236, 13317), (260, 13440), (262, 13449), (271, 13485), (277, 13509), (292, 13593), (293, 13602), (300, 13647),

Gene: IMpilo_3 Start: 2292, Stop: 3614, Start Num: 53
Candidate Starts for IMpilo_3:
(Start: 44 @2256 has 159 MA's), (Start: 53 @2292 has 9 MA's), (Start: 57 @2316 has 1 MA's), (58, 2325), (59, 2331), (60, 2334), (64, 2373), (78, 2439), (79, 2442), (89, 2511), (97, 2550), (99, 2559), (109, 2607), (118, 2667), (128, 2715), (140, 2760), (163, 2805), (168, 2832), (175, 2877), (180, 2898), (181, 2901), (182, 2904), (186, 2925), (188, 2934), (197, 2985), (198, 2988), (201, 2997), (207, 3027), (211, 3048), (221, 3117), (224, 3126), (229, 3177), (230, 3180), (236, 3234), (238, 3240), (240, 3246), (251, 3303), (260, 3357), (263, 3369), (274, 3408), (279, 3432), (303, 3576),

Gene: IbOuu_3 Start: 2239, Stop: 3609, Start Num: 44
Candidate Starts for IbOuu_3:
(Start: 44 @2239 has 159 MA's), (Start: 53 @2275 has 9 MA's), (Start: 57 @2299 has 1 MA's), (58, 2308), (59, 2314), (60, 2317), (64, 2356), (78, 2422), (79, 2425), (89, 2494), (97, 2533), (99, 2542), (109, 2590), (118, 2650), (128, 2698), (140, 2743), (163, 2788), (168, 2815), (175, 2860), (180, 2881), (181, 2884), (182, 2887), (186, 2908), (188, 2917), (197, 2968), (198, 2971), (201, 2980), (207, 3010), (211, 3031), (221, 3100), (224, 3109), (229, 3160), (230, 3163), (238, 3223), (240, 3229), (254, 3307), (260, 3340), (263, 3352), (274, 3391), (279, 3415), (303, 3559), (309, 3577),

Gene: Ibhubesi_3 Start: 2240, Stop: 3598, Start Num: 44
Candidate Starts for Ibhubesi_3:
(Start: 44 @2240 has 159 MA's), (Start: 52 @2273 has 2 MA's), (Start: 57 @2300 has 1 MA's), (58, 2309), (59, 2315), (60, 2318), (64, 2357), (77, 2420), (78, 2423), (79, 2426), (89, 2495), (91, 2501), (97,

2534), (99, 2543), (109, 2591), (118, 2651), (123, 2672), (128, 2699), (140, 2744), (163, 2789), (168, 2816), (175, 2861), (180, 2882), (181, 2885), (182, 2888), (186, 2909), (188, 2918), (197, 2969), (198, 2972), (201, 2981), (207, 3011), (211, 3032), (221, 3101), (224, 3110), (229, 3161), (230, 3164), (238, 3224), (240, 3230), (260, 3341), (263, 3353), (272, 3386), (274, 3392), (279, 3416), (303, 3560),

Gene: Indigo_7 Start: 4081, Stop: 5523, Start Num: 43
Candidate Starts for Indigo_7:
(37, 4072), (Start: 39 @4075 has 4 MA's), (Start: 43 @4081 has 102 MA's), (63, 4198), (69, 4246), (130, 4564), (143, 4606), (150, 4633), (156, 4666), (175, 4759), (178, 4771), (196, 4864), (220, 4942), (225, 4987), (232, 5044), (235, 5068), (278, 5281), (318, 5509),

Gene: Inventum_3 Start: 2239, Stop: 3609, Start Num: 44
Candidate Starts for Inventum_3:
(Start: 44 @2239 has 159 MA's), (Start: 53 @2275 has 9 MA's), (Start: 57 @2299 has 1 MA's), (58, 2308), (59, 2314), (60, 2317), (64, 2356), (78, 2422), (79, 2425), (89, 2494), (97, 2533), (99, 2542), (109, 2590), (118, 2650), (128, 2698), (140, 2743), (163, 2788), (168, 2815), (175, 2860), (180, 2881), (181, 2884), (182, 2887), (186, 2908), (188, 2917), (197, 2968), (198, 2971), (201, 2980), (207, 3010), (211, 3031), (221, 3100), (224, 3109), (229, 3160), (230, 3163), (238, 3223), (240, 3229), (254, 3307), (260, 3340), (263, 3352), (274, 3391), (279, 3415), (309, 3577),

Gene: IrishSherpFalk_3 Start: 2243, Stop: 3613, Start Num: 44
Candidate Starts for IrishSherpFalk_3:
(Start: 44 @2243 has 159 MA's), (Start: 53 @2279 has 9 MA's), (Start: 57 @2303 has 1 MA's), (58, 2312), (59, 2318), (60, 2321), (64, 2360), (78, 2426), (79, 2429), (89, 2498), (97, 2537), (99, 2546), (109, 2594), (118, 2654), (128, 2702), (140, 2747), (163, 2792), (168, 2819), (175, 2864), (180, 2885), (181, 2888), (182, 2891), (186, 2912), (188, 2921), (197, 2972), (198, 2975), (201, 2984), (207, 3014), (211, 3035), (221, 3104), (224, 3113), (229, 3164), (230, 3167), (238, 3227), (240, 3233), (260, 3344), (263, 3356), (272, 3389), (274, 3395), (279, 3419), (309, 3581),

Gene: Issmi_8 Start: 4133, Stop: 5614, Start Num: 43
Candidate Starts for Issmi_8:
(Start: 43 @4133 has 102 MA's), (47, 4151), (63, 4250), (69, 4298), (73, 4310), (81, 4349), (97, 4442), (106, 4499), (111, 4526), (132, 4619), (143, 4655), (150, 4682), (175, 4808), (178, 4820), (191, 4895), (196, 4913), (202, 4931), (204, 4937), (207, 4958), (217, 5021), (220, 5033), (225, 5078), (232, 5135), (259, 5294), (265, 5315), (278, 5372), (293, 5462), (295, 5471), (301, 5504), (318, 5600),

Gene: Itza_7 Start: 4278, Stop: 5753, Start Num: 43
Candidate Starts for Itza_7:
(7, 3741), (12, 3885), (Start: 43 @4278 has 102 MA's), (Start: 48 @4299 has 1 MA's), (63, 4395), (73, 4455), (97, 4587), (101, 4608), (106, 4644), (143, 4806), (155, 4848), (172, 4932), (178, 4971), (189, 5019), (191, 5046), (196, 5064), (204, 5088), (205, 5091), (207, 5109), (212, 5145), (220, 5184), (225, 5229), (232, 5286), (235, 5310), (278, 5523), (293, 5613), (301, 5655),

Gene: Izzy_8 Start: 4288, Stop: 5730, Start Num: 43
Candidate Starts for Izzy_8:
(37, 4279), (Start: 39 @4282 has 4 MA's), (Start: 43 @4288 has 102 MA's), (63, 4405), (69, 4453), (76, 4477), (130, 4771), (143, 4813), (150, 4840), (175, 4966), (178, 4978), (196, 5071), (220, 5149), (225, 5194), (232, 5251), (235, 5275), (278, 5488), (318, 5716),

Gene: James_3 Start: 2240, Stop: 3598, Start Num: 44
Candidate Starts for James_3:
(Start: 44 @2240 has 159 MA's), (Start: 53 @2276 has 9 MA's), (Start: 57 @2300 has 1 MA's), (58, 2309), (59, 2315), (60, 2318), (63, 2348), (64, 2357), (78, 2423), (79, 2426), (89, 2495), (97, 2534), (99,

2543), (109, 2591), (118, 2651), (128, 2699), (140, 2744), (163, 2789), (168, 2816), (175, 2861), (180, 2882), (181, 2885), (182, 2888), (186, 2909), (188, 2918), (197, 2969), (198, 2972), (201, 2981), (207, 3011), (211, 3032), (221, 3101), (224, 3110), (229, 3161), (230, 3164), (238, 3224), (240, 3230), (260, 3341), (263, 3353), (272, 3386), (274, 3392), (279, 3416), (303, 3560),

Gene: Jant_3 Start: 2291, Stop: 3625, Start Num: 53
Candidate Starts for Jant_3:
(Start: 44 @2255 has 159 MA's), (Start: 53 @2291 has 9 MA's), (Start: 57 @2315 has 1 MA's), (58, 2324), (59, 2330), (60, 2333), (64, 2372), (78, 2438), (79, 2441), (89, 2510), (97, 2549), (99, 2558), (109, 2606), (118, 2666), (128, 2714), (140, 2759), (163, 2804), (168, 2831), (175, 2876), (180, 2897), (181, 2900), (182, 2903), (186, 2924), (188, 2933), (197, 2984), (198, 2987), (201, 2996), (207, 3026), (211, 3047), (221, 3116), (224, 3125), (229, 3176), (230, 3179), (236, 3233), (238, 3239), (240, 3245), (251, 3302), (260, 3356), (263, 3368), (272, 3401), (274, 3407), (279, 3431), (303, 3575), (309, 3593),

Gene: Janus_8 Start: 4204, Stop: 5691, Start Num: 43
Candidate Starts for Janus_8:
(Start: 43 @4204 has 102 MA's), (63, 4321), (81, 4420), (90, 4474), (97, 4513), (143, 4726), (178, 4894), (191, 4969), (193, 4978), (196, 4987), (200, 4999), (202, 5005), (225, 5152), (231, 5203), (232, 5209), (278, 5446), (295, 5545), (301, 5578), (318, 5677),

Gene: Jarcob_3 Start: 2240, Stop: 3610, Start Num: 44
Candidate Starts for Jarcob_3:
(Start: 44 @2240 has 159 MA's), (Start: 53 @2276 has 9 MA's), (Start: 57 @2300 has 1 MA's), (58, 2309), (59, 2315), (60, 2318), (64, 2357), (78, 2423), (79, 2426), (89, 2495), (97, 2534), (99, 2543), (109, 2591), (118, 2651), (128, 2699), (140, 2744), (163, 2789), (168, 2816), (175, 2861), (180, 2882), (181, 2885), (182, 2888), (186, 2909), (188, 2918), (197, 2969), (198, 2972), (201, 2981), (207, 3011), (211, 3032), (221, 3101), (224, 3110), (229, 3161), (230, 3164), (238, 3224), (240, 3230), (254, 3308), (260, 3341), (263, 3353), (274, 3392), (279, 3416), (309, 3578),

Gene: Jash_8 Start: 4241, Stop: 5683, Start Num: 43
Candidate Starts for Jash_8:
(37, 4232), (Start: 39 @4235 has 4 MA's), (Start: 43 @4241 has 102 MA's), (63, 4358), (69, 4406), (76, 4430), (130, 4724), (143, 4766), (150, 4793), (175, 4919), (178, 4931), (196, 5024), (220, 5102), (225, 5147), (232, 5204), (235, 5228), (278, 5441), (318, 5669),

Gene: Jennelsea_3 Start: 2300, Stop: 3598, Start Num: 57
Candidate Starts for Jennelsea_3:
(Start: 44 @2240 has 159 MA's), (Start: 53 @2276 has 9 MA's), (Start: 57 @2300 has 1 MA's), (58, 2309), (59, 2315), (60, 2318), (64, 2357), (78, 2423), (79, 2426), (89, 2495), (97, 2534), (99, 2543), (109, 2591), (118, 2651), (123, 2672), (128, 2699), (140, 2744), (163, 2789), (168, 2816), (175, 2861), (180, 2882), (181, 2885), (182, 2888), (186, 2909), (188, 2918), (197, 2969), (198, 2972), (201, 2981), (207, 3011), (211, 3032), (221, 3101), (224, 3110), (229, 3161), (230, 3164), (238, 3224), (240, 3230), (260, 3341), (263, 3353), (272, 3386), (274, 3392), (279, 3416), (303, 3560),

Gene: Jevington_9 Start: 4426, Stop: 5907, Start Num: 43
Candidate Starts for Jevington_9:
(Start: 43 @4426 has 102 MA's), (63, 4543), (69, 4591), (73, 4603), (81, 4642), (101, 4756), (130, 4906), (143, 4948), (150, 4975), (177, 5104), (178, 5113), (187, 5155), (191, 5188), (196, 5206), (202, 5224), (205, 5233), (217, 5314), (221, 5350), (225, 5371), (231, 5422), (232, 5428), (265, 5608), (278, 5665), (293, 5755), (295, 5764), (318, 5893),

Gene: Jhitchelle_7 Start: 3821, Stop: 5254, Start Num: 43
Candidate Starts for Jhitchelle_7:

(Start: 43 @3821 has 102 MA's), (63, 3938), (69, 3986), (73, 3998), (101, 4154), (117, 4241), (157, 4406), (159, 4412), (175, 4499), (178, 4511), (191, 4586), (196, 4604), (220, 4679), (232, 4781), (259, 4940), (260, 4943), (265, 4961), (268, 4973), (278, 5018), (293, 5108), (301, 5150), (306, 5180), (318, 5240),

Gene: Jifall16_24 Start: 14552, Stop: 16141, Start Num: 30
Candidate Starts for Jifall16_24:
(Start: 30 @14552 has 23 MA's), (32, 14558), (35, 14573), (Start: 40 @14582 has 1 MA's), (54, 14636), (85, 14828), (97, 14906), (102, 14930), (105, 14960), (148, 15164), (161, 15191), (167, 15218), (181, 15308), (193, 15380), (198, 15395), (203, 15410), (220, 15491), (236, 15632), (256, 15731), (258, 15746), (260, 15755), (262, 15764), (271, 15800), (277, 15824), (292, 15908), (293, 15917), (300, 15962),

Gene: Jinglebell_3 Start: 2249, Stop: 3607, Start Num: 44
Candidate Starts for Jinglebell_3:
(Start: 44 @2249 has 159 MA's), (Start: 52 @2282 has 2 MA's), (Start: 57 @2309 has 1 MA's), (58, 2318), (59, 2324), (60, 2327), (64, 2366), (78, 2432), (79, 2435), (89, 2504), (91, 2510), (97, 2543), (99, 2552), (109, 2600), (118, 2660), (128, 2708), (140, 2753), (163, 2798), (168, 2825), (175, 2870), (180, 2891), (181, 2894), (182, 2897), (186, 2918), (188, 2927), (197, 2978), (198, 2981), (201, 2990), (207, 3020), (211, 3041), (221, 3110), (224, 3119), (229, 3170), (230, 3173), (236, 3227), (238, 3233), (240, 3239), (254, 3317), (260, 3350), (263, 3362), (272, 3395), (274, 3401), (279, 3425), (303, 3569),

Gene: JoeyJr_3 Start: 2239, Stop: 3609, Start Num: 44
Candidate Starts for JoeyJr_3:
(Start: 44 @2239 has 159 MA's), (Start: 53 @2275 has 9 MA's), (Start: 57 @2299 has 1 MA's), (58, 2308), (59, 2314), (60, 2317), (64, 2356), (78, 2422), (79, 2425), (89, 2494), (97, 2533), (99, 2542), (109, 2590), (118, 2650), (128, 2698), (140, 2743), (163, 2788), (168, 2815), (175, 2860), (180, 2881), (181, 2884), (182, 2887), (186, 2908), (188, 2917), (197, 2968), (198, 2971), (201, 2980), (207, 3010), (211, 3031), (221, 3100), (224, 3109), (229, 3160), (230, 3163), (238, 3223), (240, 3229), (254, 3307), (260, 3340), (263, 3352), (274, 3391), (279, 3415), (309, 3577),

Gene: JonJames_31 Start: 14631, Stop: 16202, Start Num: 22
Candidate Starts for JonJames_31:
(15, 14547), (Start: 22 @14631 has 25 MA's), (42, 14682), (45, 14691), (64, 14808), (70, 14841), (82, 14889), (83, 14892), (85, 14907), (86, 14916), (96, 14976), (100, 14997), (110, 15054), (117, 15120), (119, 15126), (124, 15150), (130, 15183), (144, 15237), (146, 15240), (174, 15360), (184, 15414), (186, 15420), (198, 15483), (212, 15555), (216, 15591), (235, 15750), (238, 15771), (247, 15816), (251, 15834), (261, 15894), (265, 15906), (266, 15909), (301, 16089), (304, 16104), (307, 16119),

Gene: Juniper1_3 Start: 2275, Stop: 3597, Start Num: 53
Candidate Starts for Juniper1_3:
(Start: 44 @2239 has 159 MA's), (Start: 53 @2275 has 9 MA's), (Start: 57 @2299 has 1 MA's), (58, 2308), (59, 2314), (60, 2317), (64, 2356), (77, 2419), (78, 2422), (79, 2425), (89, 2494), (91, 2500), (97, 2533), (99, 2542), (109, 2590), (118, 2650), (128, 2698), (140, 2743), (163, 2788), (168, 2815), (175, 2860), (180, 2881), (181, 2884), (182, 2887), (186, 2908), (188, 2917), (197, 2968), (198, 2971), (201, 2980), (207, 3010), (211, 3031), (221, 3100), (224, 3109), (229, 3160), (230, 3163), (238, 3223), (240, 3229), (260, 3340), (263, 3352), (272, 3385), (274, 3391), (279, 3415), (303, 3559),

Gene: Kabluna_28 Start: 13690, Stop: 15267, Start Num: 30
Candidate Starts for Kabluna_28:
(Start: 30 @13690 has 23 MA's), (32, 13696), (35, 13711), (36, 13714), (85, 13966), (97, 14044), (102, 14068), (137, 14269), (148, 14302), (161, 14329), (173, 14389), (199, 14524), (203, 14536), (220, 14617), (231, 14713), (236, 14758), (256, 14857), (260, 14881), (262, 14890), (277, 14950), (287,

15010), (290, 15022), (292, 15034), (293, 15043), (299, 15082),

Gene: Kaine_7 Start: 3895, Stop: 5328, Start Num: 43
Candidate Starts for Kaine_7:
(Start: 43 @3895 has 102 MA's), (63, 4012), (69, 4060), (73, 4072), (117, 4315), (138, 4402), (155, 4462), (157, 4480), (159, 4486), (178, 4585), (191, 4660), (196, 4678), (213, 4717), (220, 4753), (232, 4855), (260, 5017), (265, 5035), (278, 5092), (293, 5182), (301, 5224), (313, 5290), (318, 5314),

Gene: Karhdo_3 Start: 2256, Stop: 3614, Start Num: 44
Candidate Starts for Karhdo_3:
(Start: 44 @2256 has 159 MA's), (Start: 53 @2292 has 9 MA's), (Start: 57 @2316 has 1 MA's), (58, 2325), (59, 2331), (60, 2334), (64, 2373), (78, 2439), (79, 2442), (89, 2511), (97, 2550), (99, 2559), (109, 2607), (118, 2667), (128, 2715), (140, 2760), (163, 2805), (168, 2832), (175, 2877), (180, 2898), (181, 2901), (182, 2904), (186, 2925), (188, 2934), (197, 2985), (198, 2988), (201, 2997), (207, 3027), (211, 3048), (221, 3117), (224, 3126), (229, 3177), (230, 3180), (236, 3234), (238, 3240), (239, 3243), (240, 3246), (251, 3303), (254, 3324), (260, 3357), (263, 3369), (274, 3408), (279, 3432), (303, 3576),

Gene: Katalie_8 Start: 4327, Stop: 5763, Start Num: 43
Candidate Starts for Katalie_8:
(37, 4318), (Start: 39 @4321 has 4 MA's), (Start: 43 @4327 has 102 MA's), (49, 4351), (55, 4375), (63, 4444), (69, 4492), (76, 4516), (81, 4543), (107, 4696), (130, 4810), (143, 4852), (147, 4864), (150, 4879), (158, 4918), (175, 5008), (178, 5020), (196, 5113), (220, 5191), (225, 5236), (232, 5293), (278, 5530), (318, 5749),

Gene: Kenuha5_3 Start: 2255, Stop: 3625, Start Num: 44
Candidate Starts for Kenuha5_3:
(Start: 44 @2255 has 159 MA's), (Start: 53 @2291 has 9 MA's), (Start: 57 @2315 has 1 MA's), (58, 2324), (59, 2330), (60, 2333), (64, 2372), (78, 2438), (79, 2441), (89, 2510), (97, 2549), (99, 2558), (109, 2606), (118, 2666), (123, 2687), (128, 2714), (140, 2759), (163, 2804), (168, 2831), (175, 2876), (180, 2897), (181, 2900), (182, 2903), (186, 2924), (188, 2933), (197, 2984), (198, 2987), (201, 2996), (207, 3026), (211, 3047), (221, 3116), (224, 3125), (229, 3176), (230, 3179), (236, 3233), (238, 3239), (240, 3245), (254, 3323), (260, 3356), (263, 3368), (274, 3407), (279, 3431), (303, 3575), (309, 3593),

Gene: Kersh_3 Start: 2243, Stop: 3601, Start Num: 44
Candidate Starts for Kersh_3:
(Start: 44 @2243 has 159 MA's), (Start: 53 @2279 has 9 MA's), (Start: 57 @2303 has 1 MA's), (58, 2312), (59, 2318), (60, 2321), (64, 2360), (78, 2426), (79, 2429), (89, 2498), (97, 2537), (99, 2546), (109, 2594), (118, 2654), (128, 2702), (140, 2747), (163, 2792), (168, 2819), (175, 2864), (180, 2885), (181, 2888), (182, 2891), (186, 2912), (188, 2921), (197, 2972), (198, 2975), (201, 2984), (207, 3014), (211, 3035), (221, 3104), (224, 3113), (229, 3164), (230, 3167), (238, 3227), (240, 3233), (260, 3344), (263, 3356), (272, 3389), (274, 3395), (279, 3419), (303, 3563),

Gene: KidneyBean_25 Start: 14685, Stop: 16274, Start Num: 30
Candidate Starts for KidneyBean_25:
(Start: 30 @14685 has 23 MA's), (32, 14691), (35, 14706), (Start: 40 @14715 has 1 MA's), (54, 14769), (85, 14961), (97, 15039), (102, 15063), (105, 15093), (148, 15297), (161, 15324), (167, 15351), (181, 15441), (193, 15513), (198, 15528), (203, 15543), (220, 15624), (236, 15765), (256, 15864), (258, 15879), (260, 15888), (262, 15897), (271, 15933), (277, 15957), (292, 16041), (293, 16050), (300, 16095),

Gene: Kimchi1738_13 Start: 8378, Stop: 9940, Start Num: 34
Candidate Starts for Kimchi1738_13:

(Start: 29 @8363 has 8 MA's), (Start: 34 @8378 has 6 MA's), (51, 8441), (61, 8504), (68, 8564), (70, 8573), (73, 8582), (82, 8621), (94, 8699), (97, 8717), (115, 8837), (116, 8843), (127, 8906), (129, 8912), (162, 9026), (176, 9101), (180, 9125), (193, 9200), (198, 9215), (203, 9230), (221, 9335), (224, 9344), (236, 9452), (263, 9584), (278, 9647), (284, 9692), (294, 9737), (295, 9743), (298, 9770), (300, 9779), (302, 9794), (319, 9878),

Gene: KingJulian_3 Start: 2255, Stop: 3625, Start Num: 44
Candidate Starts for KingJulian_3:
(Start: 44 @2255 has 159 MA's), (Start: 53 @2291 has 9 MA's), (Start: 57 @2315 has 1 MA's), (58, 2324), (59, 2330), (60, 2333), (64, 2372), (78, 2438), (79, 2441), (89, 2510), (97, 2549), (99, 2558), (109, 2606), (118, 2666), (128, 2714), (140, 2759), (163, 2804), (168, 2831), (175, 2876), (180, 2897), (181, 2900), (182, 2903), (186, 2924), (188, 2933), (197, 2984), (198, 2987), (201, 2996), (207, 3026), (211, 3047), (221, 3116), (224, 3125), (229, 3176), (230, 3179), (236, 3233), (238, 3239), (239, 3242), (240, 3245), (251, 3302), (260, 3356), (263, 3368), (272, 3401), (274, 3407), (279, 3431), (309, 3593),

Gene: KingMidas_3 Start: 2239, Stop: 3609, Start Num: 44
Candidate Starts for KingMidas_3:
(Start: 44 @2239 has 159 MA's), (Start: 53 @2275 has 9 MA's), (Start: 57 @2299 has 1 MA's), (58, 2308), (59, 2314), (60, 2317), (64, 2356), (78, 2422), (79, 2425), (89, 2494), (97, 2533), (99, 2542), (109, 2590), (118, 2650), (128, 2698), (140, 2743), (163, 2788), (168, 2815), (175, 2860), (180, 2881), (181, 2884), (182, 2887), (186, 2908), (188, 2917), (197, 2968), (198, 2971), (201, 2980), (207, 3010), (211, 3031), (221, 3100), (224, 3109), (229, 3160), (230, 3163), (238, 3223), (240, 3229), (254, 3307), (260, 3340), (263, 3352), (274, 3391), (279, 3415), (309, 3577),

Gene: Koella_3 Start: 2240, Stop: 3610, Start Num: 44
Candidate Starts for Koella_3:
(Start: 44 @2240 has 159 MA's), (Start: 53 @2276 has 9 MA's), (Start: 57 @2300 has 1 MA's), (58, 2309), (59, 2315), (60, 2318), (64, 2357), (78, 2423), (79, 2426), (89, 2495), (97, 2534), (99, 2543), (109, 2591), (118, 2651), (128, 2699), (140, 2744), (163, 2789), (168, 2816), (175, 2861), (180, 2882), (181, 2885), (182, 2888), (186, 2909), (188, 2918), (197, 2969), (198, 2972), (201, 2981), (207, 3011), (211, 3032), (221, 3101), (224, 3110), (229, 3161), (230, 3164), (238, 3224), (240, 3230), (260, 3341), (263, 3353), (272, 3386), (274, 3392), (279, 3416), (309, 3578),

Gene: Krakatau_4 Start: 2939, Stop: 4273, Start Num: 53
Candidate Starts for Krakatau_4:
(Start: 44 @2903 has 159 MA's), (Start: 53 @2939 has 9 MA's), (Start: 57 @2963 has 1 MA's), (58, 2972), (59, 2978), (60, 2981), (64, 3020), (78, 3086), (79, 3089), (89, 3158), (97, 3197), (99, 3206), (109, 3254), (118, 3314), (128, 3362), (140, 3407), (163, 3452), (168, 3479), (175, 3524), (180, 3545), (181, 3548), (182, 3551), (186, 3572), (188, 3581), (197, 3632), (198, 3635), (201, 3644), (207, 3674), (211, 3695), (221, 3764), (224, 3773), (229, 3824), (230, 3827), (238, 3887), (240, 3893), (254, 3971), (260, 4004), (263, 4016), (270, 4034), (274, 4055), (279, 4079), (309, 4241),

Gene: KristaRAM_4 Start: 2903, Stop: 4273, Start Num: 44
Candidate Starts for KristaRAM_4:
(Start: 44 @2903 has 159 MA's), (Start: 53 @2939 has 9 MA's), (Start: 57 @2963 has 1 MA's), (58, 2972), (59, 2978), (60, 2981), (64, 3020), (78, 3086), (79, 3089), (89, 3158), (97, 3197), (99, 3206), (109, 3254), (118, 3314), (128, 3362), (140, 3407), (163, 3452), (168, 3479), (175, 3524), (180, 3545), (181, 3548), (182, 3551), (186, 3572), (188, 3581), (197, 3632), (198, 3635), (201, 3644), (207, 3674), (211, 3695), (221, 3764), (224, 3773), (229, 3824), (230, 3827), (236, 3881), (238, 3887), (239, 3890), (240, 3893), (251, 3950), (260, 4004), (263, 4016), (272, 4049), (274, 4055), (279, 4079), (303, 4223), (309, 4241),

Gene: Kurt_25 Start: 14922, Stop: 16511, Start Num: 30

Candidate Starts for Kurt_25:
(Start: 30 @14922 has 23 MA's), (32, 14928), (35, 14943), (Start: 40 @14952 has 1 MA's), (54, 15006), (85, 15198), (97, 15276), (102, 15300), (105, 15330), (148, 15534), (161, 15561), (167, 15588), (181, 15678), (193, 15750), (198, 15765), (203, 15780), (220, 15861), (236, 16002), (256, 16101), (258, 16116), (260, 16125), (262, 16134), (271, 16170), (277, 16194), (292, 16278), (293, 16287), (300, 16332),

Gene: Lannister_8 Start: 4063, Stop: 5496, Start Num: 43
Candidate Starts for Lannister_8:
(37, 4054), (Start: 39 @4057 has 4 MA's), (Start: 43 @4063 has 102 MA's), (63, 4180), (69, 4228), (81, 4279), (107, 4432), (130, 4546), (143, 4588), (150, 4615), (175, 4741), (178, 4753), (196, 4846), (220, 4924), (225, 4969), (232, 5026), (278, 5263), (318, 5482),

Gene: LastJedi_3 Start: 2240, Stop: 3598, Start Num: 44
Candidate Starts for LastJedi_3:
(Start: 44 @2240 has 159 MA's), (Start: 53 @2276 has 9 MA's), (Start: 57 @2300 has 1 MA's), (58, 2309), (59, 2315), (60, 2318), (64, 2357), (78, 2423), (79, 2426), (89, 2495), (97, 2534), (99, 2543), (109, 2591), (118, 2651), (128, 2699), (140, 2744), (163, 2789), (168, 2816), (175, 2861), (180, 2882), (181, 2885), (182, 2888), (186, 2909), (188, 2918), (197, 2969), (198, 2972), (201, 2981), (207, 3011), (211, 3032), (221, 3101), (224, 3110), (229, 3161), (230, 3164), (238, 3224), (240, 3230), (260, 3341), (263, 3353), (274, 3392), (279, 3416), (303, 3560),

Gene: Latretium_3 Start: 2239, Stop: 3597, Start Num: 44
Candidate Starts for Latretium_3:
(Start: 44 @2239 has 159 MA's), (Start: 52 @2272 has 2 MA's), (Start: 57 @2299 has 1 MA's), (58, 2308), (59, 2314), (60, 2317), (64, 2356), (77, 2419), (78, 2422), (79, 2425), (89, 2494), (91, 2500), (97, 2533), (99, 2542), (109, 2590), (118, 2650), (123, 2671), (128, 2698), (140, 2743), (163, 2788), (168, 2815), (175, 2860), (180, 2881), (181, 2884), (182, 2887), (186, 2908), (188, 2917), (197, 2968), (198, 2971), (201, 2980), (207, 3010), (211, 3031), (221, 3100), (224, 3109), (229, 3160), (230, 3163), (238, 3223), (240, 3229), (254, 3307), (260, 3340), (263, 3352), (272, 3385), (274, 3391), (279, 3415), (303, 3559),

Gene: Legacy_7 Start: 4061, Stop: 5503, Start Num: 43
Candidate Starts for Legacy_7:
(37, 4052), (Start: 39 @4055 has 4 MA's), (Start: 43 @4061 has 102 MA's), (63, 4178), (69, 4226), (130, 4544), (143, 4586), (150, 4613), (156, 4646), (175, 4739), (178, 4751), (196, 4844), (220, 4922), (225, 4967), (232, 5024), (235, 5048), (278, 5261), (318, 5489),

Gene: Leperchaun_3 Start: 2240, Stop: 3598, Start Num: 44
Candidate Starts for Leperchaun_3:
(Start: 44 @2240 has 159 MA's), (Start: 52 @2273 has 2 MA's), (Start: 57 @2300 has 1 MA's), (58, 2309), (59, 2315), (60, 2318), (64, 2357), (78, 2423), (79, 2426), (89, 2495), (91, 2501), (97, 2534), (99, 2543), (109, 2591), (118, 2651), (128, 2699), (140, 2744), (163, 2789), (168, 2816), (175, 2861), (180, 2882), (181, 2885), (182, 2888), (186, 2909), (188, 2918), (197, 2969), (198, 2972), (201, 2981), (207, 3011), (211, 3032), (221, 3101), (224, 3110), (229, 3161), (230, 3164), (238, 3224), (240, 3230), (260, 3341), (263, 3353), (272, 3386), (274, 3392), (279, 3416), (303, 3560),

Gene: Leviticus_7 Start: 4081, Stop: 5523, Start Num: 43
Candidate Starts for Leviticus_7:
(37, 4072), (Start: 39 @4075 has 4 MA's), (Start: 43 @4081 has 102 MA's), (63, 4198), (69, 4246), (130, 4564), (143, 4606), (150, 4633), (156, 4666), (175, 4759), (178, 4771), (196, 4864), (220, 4942), (225, 4987), (232, 5044), (235, 5068), (278, 5281), (318, 5509),

Gene: Lika_7 Start: 4060, Stop: 5496, Start Num: 43
Candidate Starts for Lika_7:
(Start: 39 @4054 has 4 MA's), (Start: 43 @4060 has 102 MA's), (49, 4084), (55, 4108), (63, 4177), (69, 4225), (81, 4276), (113, 4459), (130, 4543), (143, 4585), (175, 4741), (178, 4753), (196, 4846), (220, 4924), (225, 4969), (232, 5026), (235, 5050), (273, 5239), (278, 5263), (318, 5482),

Gene: LilMoolah_3 Start: 2240, Stop: 3610, Start Num: 44
Candidate Starts for LilMoolah_3:
(Start: 44 @2240 has 159 MA's), (Start: 53 @2276 has 9 MA's), (Start: 57 @2300 has 1 MA's), (58, 2309), (59, 2315), (60, 2318), (64, 2357), (78, 2423), (79, 2426), (89, 2495), (97, 2534), (99, 2543), (109, 2591), (118, 2651), (128, 2699), (140, 2744), (163, 2789), (168, 2816), (175, 2861), (180, 2882), (181, 2885), (182, 2888), (186, 2909), (188, 2918), (197, 2969), (198, 2972), (201, 2981), (207, 3011), (211, 3032), (221, 3101), (224, 3110), (229, 3161), (230, 3164), (238, 3224), (240, 3230), (254, 3308), (260, 3341), (263, 3353), (274, 3392), (279, 3416), (309, 3578),

Gene: Lizziana_3 Start: 2241, Stop: 3611, Start Num: 44
Candidate Starts for Lizziana_3:
(Start: 44 @2241 has 159 MA's), (Start: 53 @2277 has 9 MA's), (Start: 57 @2301 has 1 MA's), (58, 2310), (59, 2316), (60, 2319), (64, 2358), (78, 2424), (79, 2427), (89, 2496), (97, 2535), (99, 2544), (109, 2592), (118, 2652), (128, 2700), (140, 2745), (163, 2790), (168, 2817), (175, 2862), (180, 2883), (181, 2886), (182, 2889), (186, 2910), (188, 2919), (197, 2970), (198, 2973), (201, 2982), (207, 3012), (211, 3033), (221, 3102), (224, 3111), (229, 3162), (230, 3165), (238, 3225), (240, 3231), (254, 3309), (260, 3342), (263, 3354), (274, 3393), (279, 3417), (309, 3579),

Gene: Llama_3 Start: 2249, Stop: 3607, Start Num: 44
Candidate Starts for Llama_3:
(Start: 44 @2249 has 159 MA's), (Start: 52 @2282 has 2 MA's), (Start: 57 @2309 has 1 MA's), (58, 2318), (59, 2324), (60, 2327), (64, 2366), (78, 2432), (79, 2435), (89, 2504), (91, 2510), (97, 2543), (99, 2552), (109, 2600), (118, 2660), (128, 2708), (140, 2753), (163, 2798), (168, 2825), (175, 2870), (180, 2891), (181, 2894), (182, 2897), (186, 2918), (188, 2927), (197, 2978), (198, 2981), (201, 2990), (207, 3020), (211, 3041), (221, 3110), (224, 3119), (229, 3170), (230, 3173), (236, 3227), (238, 3233), (240, 3239), (254, 3317), (260, 3350), (263, 3362), (272, 3395), (274, 3401), (279, 3425), (303, 3569),

Gene: Llij_3 Start: 2255, Stop: 3625, Start Num: 44
Candidate Starts for Llij_3:
(Start: 44 @2255 has 159 MA's), (Start: 53 @2291 has 9 MA's), (Start: 57 @2315 has 1 MA's), (58, 2324), (59, 2330), (60, 2333), (64, 2372), (78, 2438), (79, 2441), (89, 2510), (97, 2549), (99, 2558), (109, 2606), (118, 2666), (128, 2714), (140, 2759), (163, 2804), (168, 2831), (175, 2876), (180, 2897), (181, 2900), (182, 2903), (186, 2924), (188, 2933), (197, 2984), (198, 2987), (201, 2996), (207, 3026), (211, 3047), (221, 3116), (224, 3125), (229, 3176), (230, 3179), (238, 3239), (240, 3245), (254, 3323), (260, 3356), (263, 3368), (274, 3407), (279, 3431), (309, 3593),

Gene: Lollipop1437_30 Start: 15534, Stop: 17117, Start Num: 28
Candidate Starts for Lollipop1437_30:
(Start: 28 @15534 has 6 MA's), (32, 15543), (54, 15621), (97, 15888), (113, 16002), (178, 16272), (193, 16356), (198, 16371), (203, 16386), (220, 16467), (236, 16608), (256, 16707), (260, 16731), (262, 16740), (277, 16800), (289, 16866), (292, 16884), (293, 16893), (300, 16938),

Gene: Loofah_8 Start: 3938, Stop: 5407, Start Num: 43
Candidate Starts for Loofah_8:
(Start: 43 @3938 has 102 MA's), (63, 4055), (69, 4103), (73, 4115), (81, 4154), (97, 4247), (128, 4412), (130, 4418), (178, 4625), (191, 4700), (196, 4718), (200, 4730), (202, 4736), (204, 4742), (225, 4883), (231, 4934), (232, 4940), (244, 5009), (252, 5054), (265, 5120), (278, 5177), (293, 5267), (301, 5309),

(318, 5393),

Gene: Lorelei_7 Start: 4047, Stop: 5489, Start Num: 39
Candidate Starts for Lorelei_7:
(Start: 39 @4047 has 4 MA's), (Start: 43 @4053 has 102 MA's), (49, 4077), (55, 4101), (63, 4170), (69, 4218), (73, 4230), (81, 4269), (107, 4422), (113, 4452), (130, 4536), (143, 4578), (158, 4644), (175, 4734), (178, 4746), (191, 4821), (196, 4839), (220, 4917), (225, 4962), (232, 5019), (273, 5232), (278, 5256), (301, 5388), (318, 5475),

Gene: Lozinak_31 Start: 10444, Stop: 12060, Start Num: 22
Candidate Starts for Lozinak_31:
(Start: 22 @10444 has 25 MA's), (42, 10495), (45, 10504), (Start: 57 @10564 has 1 MA's), (64, 10621), (71, 10657), (82, 10702), (86, 10729), (117, 10933), (124, 10963), (131, 10999), (142, 11044), (146, 11053), (149, 11068), (180, 11206), (181, 11209), (184, 11227), (186, 11233), (192, 11275), (223, 11467), (234, 11554), (238, 11584), (247, 11629), (256, 11677), (258, 11692), (275, 11755), (279, 11779), (280, 11785), (282, 11794), (295, 11863), (303, 11914), (304, 11917), (306, 11929),

Gene: LunaBlu_3 Start: 2239, Stop: 3597, Start Num: 44
Candidate Starts for LunaBlu_3:
(Start: 44 @2239 has 159 MA's), (Start: 52 @2272 has 2 MA's), (Start: 57 @2299 has 1 MA's), (58, 2308), (59, 2314), (60, 2317), (64, 2356), (77, 2419), (78, 2422), (79, 2425), (89, 2494), (91, 2500), (97, 2533), (99, 2542), (109, 2590), (118, 2650), (123, 2671), (128, 2698), (140, 2743), (163, 2788), (168, 2815), (175, 2860), (180, 2881), (181, 2884), (182, 2887), (186, 2908), (188, 2917), (197, 2968), (198, 2971), (201, 2980), (207, 3010), (211, 3031), (221, 3100), (224, 3109), (229, 3160), (230, 3163), (238, 3223), (240, 3229), (254, 3307), (260, 3340), (263, 3352), (272, 3385), (274, 3391), (279, 3415), (303, 3559),

Gene: MacGully_33 Start: 15830, Stop: 17416, Start Num: 29
Candidate Starts for MacGully_33:
(Start: 29 @15830 has 8 MA's), (32, 15839), (Start: 52 @15911 has 2 MA's), (97, 16184), (98, 16190), (103, 16217), (114, 16301), (116, 16310), (117, 16319), (119, 16325), (120, 16328), (131, 16385), (148, 16442), (173, 16526), (180, 16568), (193, 16643), (203, 16673), (221, 16778), (226, 16805), (231, 16850), (236, 16895), (256, 16994), (260, 17018), (262, 17027), (269, 17051), (292, 17174), (296, 17207), (314, 17321),

Gene: MadMen_3 Start: 2255, Stop: 3625, Start Num: 44
Candidate Starts for MadMen_3:
(Start: 44 @2255 has 159 MA's), (Start: 53 @2291 has 9 MA's), (Start: 57 @2315 has 1 MA's), (58, 2324), (59, 2330), (60, 2333), (64, 2372), (78, 2438), (79, 2441), (89, 2510), (97, 2549), (99, 2558), (109, 2606), (118, 2666), (128, 2714), (140, 2759), (163, 2804), (168, 2831), (175, 2876), (180, 2897), (181, 2900), (182, 2903), (186, 2924), (188, 2933), (197, 2984), (198, 2987), (201, 2996), (207, 3026), (211, 3047), (221, 3116), (224, 3125), (229, 3176), (230, 3179), (236, 3233), (238, 3239), (240, 3245), (254, 3323), (260, 3356), (263, 3368), (274, 3407), (279, 3431), (309, 3593),

Gene: Mahavrat_3 Start: 2239, Stop: 3597, Start Num: 44
Candidate Starts for Mahavrat_3:
(Start: 44 @2239 has 159 MA's), (Start: 52 @2272 has 2 MA's), (Start: 57 @2299 has 1 MA's), (58, 2308), (59, 2314), (60, 2317), (64, 2356), (77, 2419), (78, 2422), (79, 2425), (89, 2494), (91, 2500), (97, 2533), (99, 2542), (109, 2590), (118, 2650), (123, 2671), (128, 2698), (140, 2743), (163, 2788), (168, 2815), (175, 2860), (180, 2881), (181, 2884), (182, 2887), (186, 2908), (188, 2917), (197, 2968), (198, 2971), (201, 2980), (207, 3010), (211, 3031), (221, 3100), (224, 3109), (229, 3160), (230, 3163), (238, 3223), (240, 3229), (254, 3307), (260, 3340), (263, 3352), (272, 3385), (274, 3391), (279, 3415), (303, 3559),

Gene: Mandlovu_3 Start: 2240, Stop: 3598, Start Num: 44
Candidate Starts for Mandlovu_3:
(Start: 44 @2240 has 159 MA's), (Start: 52 @2273 has 2 MA's), (Start: 57 @2300 has 1 MA's), (58, 2309), (59, 2315), (60, 2318), (64, 2357), (77, 2420), (78, 2423), (79, 2426), (89, 2495), (91, 2501), (97, 2534), (99, 2543), (109, 2591), (118, 2651), (123, 2672), (128, 2699), (140, 2744), (163, 2789), (168, 2816), (175, 2861), (180, 2882), (181, 2885), (182, 2888), (186, 2909), (188, 2918), (197, 2969), (198, 2972), (201, 2981), (207, 3011), (211, 3032), (221, 3101), (224, 3110), (229, 3161), (230, 3164), (238, 3224), (240, 3230), (254, 3308), (260, 3341), (263, 3353), (272, 3386), (274, 3392), (279, 3416), (303, 3560),

Gene: Maneekul_7 Start: 4052, Stop: 5494, Start Num: 39
Candidate Starts for Maneekul_7:
(Start: 39 @4052 has 4 MA's), (Start: 43 @4058 has 102 MA's), (49, 4082), (55, 4106), (63, 4175), (69, 4223), (73, 4235), (81, 4274), (107, 4427), (113, 4457), (130, 4541), (143, 4583), (156, 4643), (158, 4649), (175, 4739), (178, 4751), (191, 4826), (196, 4844), (220, 4922), (225, 4967), (232, 5024), (273, 5237), (278, 5261), (301, 5393), (318, 5480),

Gene: Mantra_3 Start: 2315, Stop: 3625, Start Num: 57
Candidate Starts for Mantra_3:
(Start: 44 @2255 has 159 MA's), (Start: 53 @2291 has 9 MA's), (Start: 57 @2315 has 1 MA's), (58, 2324), (59, 2330), (60, 2333), (64, 2372), (78, 2438), (79, 2441), (89, 2510), (97, 2549), (99, 2558), (109, 2606), (118, 2666), (128, 2714), (140, 2759), (163, 2804), (168, 2831), (175, 2876), (180, 2897), (181, 2900), (182, 2903), (186, 2924), (188, 2933), (197, 2984), (198, 2987), (201, 2996), (207, 3026), (211, 3047), (221, 3116), (224, 3125), (229, 3176), (230, 3179), (234, 3209), (236, 3233), (238, 3239), (240, 3245), (254, 3323), (260, 3356), (263, 3368), (274, 3407), (279, 3431), (309, 3593),

Gene: Marav_10 Start: 4776, Stop: 6257, Start Num: 43
Candidate Starts for Marav_10:
(Start: 43 @4776 has 102 MA's), (63, 4893), (69, 4941), (73, 4953), (81, 4992), (101, 5106), (130, 5256), (143, 5298), (150, 5325), (177, 5454), (178, 5463), (187, 5505), (191, 5538), (196, 5556), (202, 5574), (205, 5583), (217, 5664), (221, 5700), (225, 5721), (231, 5772), (232, 5778), (265, 5958), (278, 6015), (293, 6105), (295, 6114), (318, 6243),

Gene: Maravista_3 Start: 2240, Stop: 3598, Start Num: 44
Candidate Starts for Maravista_3:
(Start: 44 @2240 has 159 MA's), (Start: 53 @2276 has 9 MA's), (Start: 57 @2300 has 1 MA's), (58, 2309), (59, 2315), (60, 2318), (64, 2357), (78, 2423), (79, 2426), (89, 2495), (97, 2534), (99, 2543), (109, 2591), (118, 2651), (128, 2699), (140, 2744), (163, 2789), (168, 2816), (175, 2861), (180, 2882), (181, 2885), (182, 2888), (186, 2909), (188, 2918), (197, 2969), (198, 2972), (201, 2981), (207, 3011), (211, 3032), (221, 3101), (224, 3110), (229, 3161), (230, 3164), (238, 3224), (240, 3230), (254, 3308), (260, 3341), (263, 3353), (274, 3392), (279, 3416), (303, 3560),

Gene: Marietta_27 Start: 12175, Stop: 13752, Start Num: 30
Candidate Starts for Marietta_27:
(Start: 18 @12130 has 7 MA's), (Start: 30 @12175 has 23 MA's), (41, 12208), (106, 12586), (161, 12814), (170, 12859), (193, 12991), (203, 13021), (231, 13198), (235, 13228), (236, 13243), (260, 13366), (262, 13375), (271, 13411), (277, 13435), (292, 13519), (293, 13528), (300, 13573),

Gene: Martik_3 Start: 2241, Stop: 3611, Start Num: 44
Candidate Starts for Martik_3:
(Start: 44 @2241 has 159 MA's), (Start: 53 @2277 has 9 MA's), (Start: 57 @2301 has 1 MA's), (58, 2310), (59, 2316), (60, 2319), (64, 2358), (78, 2424), (79, 2427), (89, 2496), (97, 2535), (99, 2544),

(109, 2592), (118, 2652), (128, 2700), (140, 2745), (163, 2790), (168, 2817), (175, 2862), (180, 2883), (181, 2886), (182, 2889), (186, 2910), (188, 2919), (197, 2970), (198, 2973), (201, 2982), (207, 3012), (211, 3033), (221, 3102), (224, 3111), (229, 3162), (230, 3165), (238, 3225), (240, 3231), (254, 3309), (260, 3342), (263, 3354), (274, 3393), (279, 3417), (309, 3579),

Gene: Maselop_29 Start: 15885, Stop: 17474, Start Num: 25
Candidate Starts for Maselop_29:
(20, 15858), (Start: 25 @15885 has 6 MA's), (Start: 29 @15891 has 8 MA's), (32, 15900), (36, 15918), (38, 15921), (54, 15978), (65, 16071), (97, 16245), (98, 16251), (116, 16371), (131, 16446), (134, 16455), (148, 16503), (190, 16683), (193, 16704), (199, 16722), (203, 16734), (221, 16839), (226, 16866), (231, 16911), (233, 16923), (236, 16956), (253, 17034), (256, 17055), (260, 17079), (262, 17088), (269, 17112), (292, 17232), (293, 17241), (296, 17265),

Gene: Mattes_3 Start: 2276, Stop: 3598, Start Num: 53
Candidate Starts for Mattes_3:
(Start: 44 @2240 has 159 MA's), (Start: 53 @2276 has 9 MA's), (Start: 57 @2300 has 1 MA's), (58, 2309), (59, 2315), (60, 2318), (63, 2348), (64, 2357), (78, 2423), (79, 2426), (89, 2495), (97, 2534), (99, 2543), (109, 2591), (118, 2651), (128, 2699), (140, 2744), (163, 2789), (168, 2816), (175, 2861), (180, 2882), (181, 2885), (182, 2888), (186, 2909), (188, 2918), (197, 2969), (198, 2972), (201, 2981), (207, 3011), (211, 3032), (221, 3101), (224, 3110), (229, 3161), (230, 3164), (238, 3224), (240, 3230), (260, 3341), (263, 3353), (272, 3386), (274, 3392), (279, 3416), (303, 3560),

Gene: Medindi_3 Start: 2292, Stop: 3614, Start Num: 53
Candidate Starts for Medindi_3:
(Start: 44 @2256 has 159 MA's), (Start: 53 @2292 has 9 MA's), (Start: 57 @2316 has 1 MA's), (58, 2325), (59, 2331), (60, 2334), (64, 2373), (78, 2439), (79, 2442), (89, 2511), (97, 2550), (99, 2559), (109, 2607), (118, 2667), (128, 2715), (140, 2760), (163, 2805), (168, 2832), (175, 2877), (180, 2898), (181, 2901), (182, 2904), (186, 2925), (188, 2934), (197, 2985), (198, 2988), (201, 2997), (207, 3027), (211, 3048), (221, 3117), (224, 3126), (229, 3177), (230, 3180), (236, 3234), (238, 3240), (239, 3243), (240, 3246), (251, 3303), (260, 3357), (263, 3369), (272, 3402), (274, 3408), (279, 3432), (303, 3576),

Gene: Melissauren88_3 Start: 2255, Stop: 3625, Start Num: 44
Candidate Starts for Melissauren88_3:
(Start: 44 @2255 has 159 MA's), (Start: 53 @2291 has 9 MA's), (Start: 57 @2315 has 1 MA's), (58, 2324), (59, 2330), (60, 2333), (64, 2372), (78, 2438), (79, 2441), (89, 2510), (97, 2549), (99, 2558), (109, 2606), (118, 2666), (128, 2714), (140, 2759), (163, 2804), (168, 2831), (175, 2876), (180, 2897), (181, 2900), (182, 2903), (186, 2924), (188, 2933), (197, 2984), (198, 2987), (201, 2996), (207, 3026), (211, 3047), (221, 3116), (224, 3125), (229, 3176), (230, 3179), (236, 3233), (238, 3239), (240, 3245), (251, 3302), (260, 3356), (263, 3368), (272, 3401), (274, 3407), (279, 3431), (303, 3575), (309, 3593),

Gene: MerCougar_26 Start: 14884, Stop: 16461, Start Num: 30
Candidate Starts for MerCougar_26:
(Start: 30 @14884 has 23 MA's), (32, 14890), (36, 14908), (54, 14968), (85, 15160), (97, 15238), (102, 15262), (137, 15463), (148, 15496), (173, 15583), (178, 15616), (199, 15718), (203, 15730), (220, 15811), (236, 15952), (256, 16051), (260, 16075), (262, 16084), (277, 16144), (292, 16228), (293, 16237),

Gene: MilanaBonita_4 Start: 2903, Stop: 4273, Start Num: 44
Candidate Starts for MilanaBonita_4:
(Start: 44 @2903 has 159 MA's), (Start: 53 @2939 has 9 MA's), (Start: 57 @2963 has 1 MA's), (58, 2972), (59, 2978), (60, 2981), (64, 3020), (78, 3086), (79, 3089), (89, 3158), (97, 3197), (99, 3206), (109, 3254), (118, 3314), (128, 3362), (140, 3407), (163, 3452), (168, 3479), (175, 3524), (180, 3545), (181, 3548), (182, 3551), (186, 3572), (188, 3581), (197, 3632), (198, 3635), (201, 3644), (207, 3674),

(211, 3695), (221, 3764), (224, 3773), (229, 3824), (230, 3827), (236, 3881), (238, 3887), (240, 3893), (260, 4004), (263, 4016), (272, 4049), (274, 4055), (279, 4079), (303, 4223), (309, 4241),

Gene: MilleniumForce_4 Start: 2903, Stop: 4273, Start Num: 44
Candidate Starts for MilleniumForce_4:
(Start: 44 @2903 has 159 MA's), (Start: 53 @2939 has 9 MA's), (Start: 57 @2963 has 1 MA's), (58, 2972), (59, 2978), (60, 2981), (64, 3020), (78, 3086), (79, 3089), (89, 3158), (97, 3197), (99, 3206), (109, 3254), (118, 3314), (128, 3362), (140, 3407), (163, 3452), (168, 3479), (175, 3524), (180, 3545), (181, 3548), (182, 3551), (186, 3572), (188, 3581), (197, 3632), (198, 3635), (201, 3644), (207, 3674), (211, 3695), (221, 3764), (224, 3773), (229, 3824), (230, 3827), (234, 3857), (236, 3881), (238, 3887), (240, 3893), (251, 3950), (260, 4004), (263, 4016), (272, 4049), (274, 4055), (279, 4079), (303, 4223), (309, 4241),

Gene: MinionDave_4 Start: 2903, Stop: 4273, Start Num: 44
Candidate Starts for MinionDave_4:
(Start: 44 @2903 has 159 MA's), (Start: 53 @2939 has 9 MA's), (Start: 57 @2963 has 1 MA's), (58, 2972), (59, 2978), (60, 2981), (64, 3020), (78, 3086), (79, 3089), (89, 3158), (97, 3197), (99, 3206), (109, 3254), (118, 3314), (128, 3362), (140, 3407), (163, 3452), (168, 3479), (175, 3524), (180, 3545), (181, 3548), (182, 3551), (186, 3572), (188, 3581), (197, 3632), (198, 3635), (201, 3644), (207, 3674), (211, 3695), (221, 3764), (224, 3773), (229, 3824), (230, 3827), (236, 3881), (238, 3887), (239, 3890), (240, 3893), (251, 3950), (260, 4004), (263, 4016), (272, 4049), (274, 4055), (279, 4079), (303, 4223), (309, 4241),

Gene: Minnie_3 Start: 2291, Stop: 3625, Start Num: 53
Candidate Starts for Minnie_3:
(Start: 44 @2255 has 159 MA's), (Start: 53 @2291 has 9 MA's), (Start: 57 @2315 has 1 MA's), (58, 2324), (59, 2330), (60, 2333), (64, 2372), (78, 2438), (79, 2441), (89, 2510), (97, 2549), (99, 2558), (109, 2606), (118, 2666), (128, 2714), (140, 2759), (163, 2804), (168, 2831), (175, 2876), (180, 2897), (181, 2900), (182, 2903), (186, 2924), (188, 2933), (197, 2984), (198, 2987), (201, 2996), (207, 3026), (211, 3047), (221, 3116), (224, 3125), (229, 3176), (230, 3179), (236, 3233), (238, 3239), (240, 3245), (251, 3302), (260, 3356), (263, 3368), (274, 3407), (279, 3431), (309, 3593),

Gene: Miskis_29 Start: 10219, Stop: 11835, Start Num: 22
Candidate Starts for Miskis_29:
(Start: 22 @10219 has 25 MA's), (42, 10270), (45, 10279), (Start: 57 @10339 has 1 MA's), (64, 10396), (71, 10432), (82, 10477), (86, 10504), (117, 10708), (124, 10738), (131, 10774), (142, 10819), (146, 10828), (149, 10843), (180, 10981), (181, 10984), (184, 11002), (186, 11008), (192, 11050), (223, 11242), (234, 11329), (238, 11359), (247, 11404), (256, 11452), (258, 11467), (275, 11530), (279, 11554), (280, 11560), (282, 11569), (295, 11638), (303, 11689), (304, 11692), (306, 11704),

Gene: MisterCuddles_3 Start: 2241, Stop: 3611, Start Num: 44
Candidate Starts for MisterCuddles_3:
(Start: 44 @2241 has 159 MA's), (Start: 53 @2277 has 9 MA's), (Start: 57 @2301 has 1 MA's), (58, 2310), (59, 2316), (60, 2319), (64, 2358), (78, 2424), (79, 2427), (89, 2496), (97, 2535), (99, 2544), (109, 2592), (118, 2652), (128, 2700), (140, 2745), (163, 2790), (168, 2817), (175, 2862), (180, 2883), (181, 2886), (182, 2889), (186, 2910), (188, 2919), (197, 2970), (198, 2973), (201, 2982), (207, 3012), (211, 3033), (221, 3102), (224, 3111), (229, 3162), (230, 3165), (238, 3225), (240, 3231), (254, 3309), (260, 3342), (263, 3354), (274, 3393), (279, 3417), (309, 3579),

Gene: Modragons_3 Start: 2249, Stop: 3607, Start Num: 44
Candidate Starts for Modragons_3:
(Start: 44 @2249 has 159 MA's), (Start: 52 @2282 has 2 MA's), (Start: 57 @2309 has 1 MA's), (58, 2318), (59, 2324), (60, 2327), (64, 2366), (78, 2432), (79, 2435), (89, 2504), (91, 2510), (97, 2543), (99,

2552), (109, 2600), (118, 2660), (128, 2708), (140, 2753), (163, 2798), (168, 2825), (175, 2870), (180, 2891), (181, 2894), (182, 2897), (186, 2918), (188, 2927), (197, 2978), (198, 2981), (201, 2990), (207, 3020), (211, 3041), (221, 3110), (224, 3119), (229, 3170), (230, 3173), (236, 3227), (238, 3233), (240, 3239), (254, 3317), (260, 3350), (263, 3362), (272, 3395), (274, 3401), (279, 3425), (303, 3569),

Gene: Mollymur_14 Start: 8741, Stop: 10309, Start Num: 22
Candidate Starts for Mollymur_14:
(Start: 22 @8741 has 25 MA's), (42, 8792), (61, 8894), (70, 8954), (71, 8957), (82, 9002), (99, 9107), (117, 9206), (118, 9209), (134, 9281), (136, 9287), (151, 9347), (174, 9440), (179, 9467), (180, 9473), (181, 9476), (186, 9500), (198, 9563), (207, 9602), (216, 9671), (233, 9809), (236, 9842), (238, 9848), (248, 9896), (253, 9920), (265, 9983), (281, 10055), (283, 10070), (295, 10127), (303, 10178), (304, 10181), (306, 10193),

Gene: Moonbeam_3 Start: 2240, Stop: 3610, Start Num: 44
Candidate Starts for Moonbeam_3:
(Start: 44 @2240 has 159 MA's), (Start: 53 @2276 has 9 MA's), (Start: 57 @2300 has 1 MA's), (58, 2309), (59, 2315), (60, 2318), (64, 2357), (78, 2423), (79, 2426), (89, 2495), (97, 2534), (99, 2543), (109, 2591), (118, 2651), (128, 2699), (140, 2744), (163, 2789), (168, 2816), (175, 2861), (180, 2882), (181, 2885), (182, 2888), (186, 2909), (188, 2918), (197, 2969), (198, 2972), (201, 2981), (207, 3011), (211, 3032), (221, 3101), (224, 3110), (229, 3161), (230, 3164), (234, 3194), (236, 3218), (238, 3224), (240, 3230), (254, 3308), (260, 3341), (263, 3353), (274, 3392), (279, 3416), (309, 3578),

Gene: Ms6_3 Start: 2255, Stop: 3625, Start Num: 44
Candidate Starts for Ms6_3:
(Start: 44 @2255 has 159 MA's), (Start: 53 @2291 has 9 MA's), (Start: 57 @2315 has 1 MA's), (58, 2324), (59, 2330), (60, 2333), (64, 2372), (78, 2438), (79, 2441), (89, 2510), (97, 2549), (99, 2558), (109, 2606), (118, 2666), (128, 2714), (140, 2759), (163, 2804), (168, 2831), (175, 2876), (180, 2897), (181, 2900), (182, 2903), (186, 2924), (188, 2933), (197, 2984), (198, 2987), (201, 2996), (207, 3026), (211, 3047), (221, 3116), (224, 3125), (229, 3176), (230, 3179), (236, 3233), (238, 3239), (240, 3245), (251, 3302), (260, 3356), (263, 3368), (272, 3401), (274, 3407), (279, 3431), (303, 3575), (309, 3593),

Gene: MulchSalad_3 Start: 2290, Stop: 3612, Start Num: 53
Candidate Starts for MulchSalad_3:
(Start: 44 @2254 has 159 MA's), (Start: 53 @2290 has 9 MA's), (Start: 57 @2314 has 1 MA's), (58, 2323), (59, 2329), (60, 2332), (64, 2371), (77, 2434), (78, 2437), (79, 2440), (89, 2509), (91, 2515), (97, 2548), (99, 2557), (109, 2605), (118, 2665), (123, 2686), (128, 2713), (140, 2758), (163, 2803), (168, 2830), (175, 2875), (180, 2896), (181, 2899), (182, 2902), (186, 2923), (188, 2932), (197, 2983), (198, 2986), (201, 2995), (207, 3025), (211, 3046), (221, 3115), (224, 3124), (229, 3175), (230, 3178), (238, 3238), (240, 3244), (260, 3355), (263, 3367), (272, 3400), (274, 3406), (279, 3430),

Gene: Mutaforma13_3 Start: 2255, Stop: 3625, Start Num: 44
Candidate Starts for Mutaforma13_3:
(Start: 44 @2255 has 159 MA's), (Start: 53 @2291 has 9 MA's), (Start: 57 @2315 has 1 MA's), (58, 2324), (59, 2330), (60, 2333), (64, 2372), (78, 2438), (79, 2441), (89, 2510), (97, 2549), (99, 2558), (109, 2606), (118, 2666), (128, 2714), (140, 2759), (163, 2804), (168, 2831), (175, 2876), (180, 2897), (181, 2900), (182, 2903), (186, 2924), (188, 2933), (197, 2984), (198, 2987), (201, 2996), (207, 3026), (211, 3047), (221, 3116), (224, 3125), (229, 3176), (230, 3179), (236, 3233), (238, 3239), (240, 3245), (260, 3356), (263, 3368), (272, 3401), (274, 3407), (279, 3431), (303, 3575), (309, 3593),

Gene: Mwanjiwa_3 Start: 2272, Stop: 3597, Start Num: 52
Candidate Starts for Mwanjiwa_3:
(Start: 44 @2239 has 159 MA's), (Start: 52 @2272 has 2 MA's), (Start: 57 @2299 has 1 MA's), (58, 2308), (59, 2314), (60, 2317), (64, 2356), (77, 2419), (78, 2422), (79, 2425), (89, 2494), (91, 2500), (97,

2533), (99, 2542), (109, 2590), (118, 2650), (123, 2671), (128, 2698), (140, 2743), (163, 2788), (168, 2815), (175, 2860), (180, 2881), (181, 2884), (182, 2887), (186, 2908), (188, 2917), (197, 2968), (198, 2971), (201, 2980), (207, 3010), (211, 3031), (221, 3100), (224, 3109), (229, 3160), (230, 3163), (238, 3223), (240, 3229), (260, 3340), (263, 3352), (272, 3385), (274, 3391), (279, 3415), (303, 3559),

Gene: Nabi_7 Start: 4053, Stop: 5489, Start Num: 43
Candidate Starts for Nabi_7:
(Start: 39 @4047 has 4 MA's), (Start: 43 @4053 has 102 MA's), (49, 4077), (55, 4101), (63, 4170), (69, 4218), (73, 4230), (81, 4269), (107, 4422), (113, 4452), (130, 4536), (143, 4578), (158, 4644), (175, 4734), (178, 4746), (191, 4821), (196, 4839), (220, 4917), (225, 4962), (232, 5019), (273, 5232), (278, 5256), (301, 5388), (318, 5475),

Gene: NadineRae_25 Start: 11379, Stop: 13001, Start Num: 18
Candidate Starts for NadineRae_25:
(8, 10932), (9, 10995), (11, 11043), (Start: 18 @11379 has 7 MA's), (Start: 30 @11424 has 23 MA's), (41, 11457), (121, 11928), (161, 12063), (170, 12108), (193, 12240), (203, 12270), (220, 12351), (231, 12447), (235, 12477), (236, 12492), (260, 12615), (262, 12624), (271, 12660), (277, 12684), (289, 12750), (292, 12768), (293, 12777), (300, 12822),

Gene: Nanodon_9 Start: 4252, Stop: 5685, Start Num: 43
Candidate Starts for Nanodon_9:
(Start: 39 @4246 has 4 MA's), (Start: 43 @4252 has 102 MA's), (49, 4276), (55, 4300), (63, 4369), (69, 4417), (81, 4468), (107, 4621), (113, 4651), (130, 4735), (143, 4777), (150, 4804), (160, 4846), (175, 4930), (178, 4942), (196, 5035), (220, 5113), (225, 5158), (232, 5215), (278, 5452), (313, 5650), (318, 5671),

Gene: NatB6_25 Start: 13946, Stop: 15535, Start Num: 30
Candidate Starts for NatB6_25:
(Start: 30 @13946 has 23 MA's), (32, 13952), (35, 13967), (Start: 40 @13976 has 1 MA's), (54, 14030), (85, 14222), (97, 14300), (102, 14324), (105, 14354), (148, 14558), (161, 14585), (167, 14612), (181, 14702), (193, 14774), (198, 14789), (203, 14804), (220, 14885), (236, 15026), (256, 15125), (258, 15140), (260, 15149), (262, 15158), (271, 15194), (277, 15218), (292, 15302), (293, 15311), (300, 15356),

Gene: Nerdos_7 Start: 4081, Stop: 5523, Start Num: 43
Candidate Starts for Nerdos_7:
(37, 4072), (Start: 39 @4075 has 4 MA's), (Start: 43 @4081 has 102 MA's), (63, 4198), (69, 4246), (130, 4564), (143, 4606), (150, 4633), (156, 4666), (175, 4759), (178, 4771), (196, 4864), (220, 4942), (225, 4987), (232, 5044), (235, 5068), (278, 5281), (318, 5509),

Gene: NewHope4_3 Start: 2239, Stop: 3597, Start Num: 44
Candidate Starts for NewHope4_3:
(Start: 44 @2239 has 159 MA's), (Start: 52 @2272 has 2 MA's), (Start: 57 @2299 has 1 MA's), (58, 2308), (59, 2314), (60, 2317), (64, 2356), (77, 2419), (78, 2422), (79, 2425), (89, 2494), (91, 2500), (97, 2533), (99, 2542), (109, 2590), (118, 2650), (123, 2671), (128, 2698), (140, 2743), (163, 2788), (168, 2815), (175, 2860), (180, 2881), (181, 2884), (182, 2887), (186, 2908), (188, 2917), (197, 2968), (198, 2971), (201, 2980), (207, 3010), (211, 3031), (221, 3100), (224, 3109), (229, 3160), (230, 3163), (238, 3223), (240, 3229), (254, 3307), (260, 3340), (263, 3352), (272, 3385), (274, 3391), (279, 3415), (303, 3559),

Gene: Nichirin_3 Start: 2282, Stop: 3607, Start Num: 52
Candidate Starts for Nichirin_3:

(Start: 44 @2249 has 159 MA's), (Start: 52 @2282 has 2 MA's), (Start: 57 @2309 has 1 MA's), (58, 2318), (59, 2324), (60, 2327), (64, 2366), (78, 2432), (79, 2435), (89, 2504), (91, 2510), (97, 2543), (99, 2552), (109, 2600), (118, 2660), (128, 2708), (140, 2753), (163, 2798), (168, 2825), (175, 2870), (180, 2891), (181, 2894), (182, 2897), (186, 2918), (188, 2927), (197, 2978), (198, 2981), (201, 2990), (207, 3020), (211, 3041), (221, 3110), (224, 3119), (229, 3170), (230, 3173), (236, 3227), (238, 3233), (240, 3239), (254, 3317), (260, 3350), (263, 3362), (272, 3395), (274, 3401), (279, 3425), (303, 3569),

Gene: Nimbo_3 Start: 2239, Stop: 3609, Start Num: 44
Candidate Starts for Nimbo_3:
(Start: 44 @2239 has 159 MA's), (Start: 53 @2275 has 9 MA's), (Start: 57 @2299 has 1 MA's), (58, 2308), (59, 2314), (60, 2317), (64, 2356), (78, 2422), (79, 2425), (89, 2494), (97, 2533), (99, 2542), (109, 2590), (118, 2650), (128, 2698), (140, 2743), (163, 2788), (168, 2815), (175, 2860), (180, 2881), (181, 2884), (182, 2887), (186, 2908), (188, 2917), (197, 2968), (198, 2971), (201, 2980), (207, 3010), (211, 3031), (221, 3100), (224, 3109), (229, 3160), (230, 3163), (238, 3223), (240, 3229), (254, 3307), (260, 3340), (263, 3352), (274, 3391), (279, 3415), (309, 3577),

Gene: Nishikigoi_7 Start: 3857, Stop: 5332, Start Num: 43
Candidate Starts for Nishikigoi_7:
(Start: 43 @3857 has 102 MA's), (63, 3974), (81, 4073), (97, 4166), (156, 4439), (178, 4544), (191, 4619), (196, 4637), (200, 4649), (202, 4655), (225, 4802), (231, 4853), (232, 4859), (239, 4907), (265, 5039), (278, 5096), (293, 5186), (318, 5318),

Gene: Nitzel_4 Start: 2903, Stop: 4261, Start Num: 44
Candidate Starts for Nitzel_4:
(Start: 44 @2903 has 159 MA's), (Start: 53 @2939 has 9 MA's), (Start: 57 @2963 has 1 MA's), (58, 2972), (59, 2978), (60, 2981), (64, 3020), (78, 3086), (79, 3089), (89, 3158), (97, 3197), (99, 3206), (109, 3254), (118, 3314), (128, 3362), (140, 3407), (163, 3452), (168, 3479), (175, 3524), (180, 3545), (181, 3548), (182, 3551), (186, 3572), (188, 3581), (197, 3632), (198, 3635), (201, 3644), (207, 3674), (211, 3695), (221, 3764), (224, 3773), (229, 3824), (230, 3827), (238, 3887), (240, 3893), (254, 3971), (260, 4004), (263, 4016), (272, 4049), (274, 4055), (279, 4079), (303, 4223),

Gene: Nivrat_3 Start: 2240, Stop: 3610, Start Num: 44
Candidate Starts for Nivrat_3:
(Start: 44 @2240 has 159 MA's), (Start: 53 @2276 has 9 MA's), (Start: 57 @2300 has 1 MA's), (58, 2309), (59, 2315), (60, 2318), (64, 2357), (78, 2423), (79, 2426), (89, 2495), (97, 2534), (99, 2543), (109, 2591), (118, 2651), (128, 2699), (140, 2744), (163, 2789), (168, 2816), (175, 2861), (180, 2882), (181, 2885), (182, 2888), (186, 2909), (188, 2918), (197, 2969), (198, 2972), (201, 2981), (207, 3011), (211, 3032), (221, 3101), (224, 3110), (229, 3161), (230, 3164), (238, 3224), (240, 3230), (254, 3308), (260, 3341), (263, 3353), (274, 3392), (279, 3416), (309, 3578),

Gene: NormanBulbieJr_3 Start: 2240, Stop: 3598, Start Num: 44
Candidate Starts for NormanBulbieJr_3:
(Start: 44 @2240 has 159 MA's), (Start: 53 @2276 has 9 MA's), (Start: 57 @2300 has 1 MA's), (58, 2309), (59, 2315), (60, 2318), (64, 2357), (78, 2423), (79, 2426), (89, 2495), (97, 2534), (99, 2543), (109, 2591), (118, 2651), (123, 2672), (128, 2699), (140, 2744), (163, 2789), (168, 2816), (175, 2861), (180, 2882), (181, 2885), (182, 2888), (186, 2909), (188, 2918), (197, 2969), (198, 2972), (201, 2981), (207, 3011), (211, 3032), (221, 3101), (224, 3110), (229, 3161), (230, 3164), (238, 3224), (240, 3230), (260, 3341), (263, 3353), (272, 3386), (274, 3392), (279, 3416), (303, 3560),

Gene: Norvs_32 Start: 10446, Stop: 12062, Start Num: 22
Candidate Starts for Norvs_32:
(Start: 22 @10446 has 25 MA's), (42, 10497), (45, 10506), (Start: 57 @10566 has 1 MA's), (64, 10623), (71, 10659), (82, 10704), (86, 10731), (117, 10935), (124, 10965), (131, 11001), (142, 11046), (146,

11055), (149, 11070), (180, 11208), (181, 11211), (184, 11229), (186, 11235), (192, 11277), (223, 11469), (234, 11556), (238, 11586), (247, 11631), (256, 11679), (258, 11694), (275, 11757), (279, 11781), (280, 11787), (282, 11796), (295, 11865), (303, 11916), (304, 11919), (306, 11931),

Gene: NosilaM_28 Start: 14569, Stop: 16146, Start Num: 30
Candidate Starts for NosilaM_28:
(Start: 30 @14569 has 23 MA's), (32, 14575), (35, 14590), (36, 14593), (85, 14845), (97, 14923), (102, 14947), (137, 15148), (148, 15181), (161, 15208), (173, 15268), (199, 15403), (203, 15415), (220, 15496), (231, 15592), (236, 15637), (256, 15736), (260, 15760), (262, 15769), (277, 15829), (287, 15889), (290, 15901), (292, 15913), (293, 15922),

Gene: NovumRegina_25 Start: 14277, Stop: 15866, Start Num: 30
Candidate Starts for NovumRegina_25:
(Start: 30 @14277 has 23 MA's), (32, 14283), (35, 14298), (54, 14361), (85, 14553), (97, 14631), (102, 14655), (105, 14685), (161, 14916), (181, 15033), (193, 15105), (198, 15120), (203, 15135), (220, 15216), (236, 15357), (256, 15456), (258, 15471), (260, 15480), (262, 15489), (271, 15525), (277, 15549), (292, 15633), (293, 15642), (300, 15687),

Gene: Ochi17_3 Start: 2249, Stop: 3607, Start Num: 44
Candidate Starts for Ochi17_3:
(Start: 44 @2249 has 159 MA's), (Start: 52 @2282 has 2 MA's), (Start: 57 @2309 has 1 MA's), (58, 2318), (59, 2324), (60, 2327), (64, 2366), (78, 2432), (79, 2435), (89, 2504), (91, 2510), (97, 2543), (99, 2552), (109, 2600), (118, 2660), (128, 2708), (140, 2753), (163, 2798), (168, 2825), (175, 2870), (180, 2891), (181, 2894), (182, 2897), (186, 2918), (188, 2927), (197, 2978), (198, 2981), (201, 2990), (207, 3020), (211, 3041), (221, 3110), (224, 3119), (229, 3170), (230, 3173), (236, 3227), (238, 3233), (240, 3239), (254, 3317), (260, 3350), (263, 3362), (272, 3395), (274, 3401), (279, 3425), (303, 3569),

Gene: OfUltron_3 Start: 2249, Stop: 3607, Start Num: 44
Candidate Starts for OfUltron_3:
(Start: 44 @2249 has 159 MA's), (Start: 52 @2282 has 2 MA's), (Start: 57 @2309 has 1 MA's), (58, 2318), (59, 2324), (60, 2327), (64, 2366), (78, 2432), (79, 2435), (89, 2504), (91, 2510), (97, 2543), (99, 2552), (109, 2600), (118, 2660), (128, 2708), (140, 2753), (163, 2798), (168, 2825), (175, 2870), (180, 2891), (181, 2894), (182, 2897), (186, 2918), (188, 2927), (197, 2978), (198, 2981), (201, 2990), (207, 3020), (211, 3041), (221, 3110), (224, 3119), (229, 3170), (230, 3173), (236, 3227), (238, 3233), (240, 3239), (254, 3317), (260, 3350), (263, 3362), (272, 3395), (274, 3401), (279, 3425), (303, 3569),

Gene: OldBen_3 Start: 2239, Stop: 3609, Start Num: 44
Candidate Starts for OldBen_3:
(Start: 44 @2239 has 159 MA's), (Start: 53 @2275 has 9 MA's), (Start: 57 @2299 has 1 MA's), (58, 2308), (59, 2314), (60, 2317), (64, 2356), (78, 2422), (79, 2425), (89, 2494), (97, 2533), (99, 2542), (109, 2590), (118, 2650), (128, 2698), (140, 2743), (163, 2788), (168, 2815), (175, 2860), (180, 2881), (181, 2884), (182, 2887), (186, 2908), (188, 2917), (197, 2968), (198, 2971), (201, 2980), (207, 3010), (211, 3031), (221, 3100), (224, 3109), (229, 3160), (230, 3163), (238, 3223), (240, 3229), (254, 3307), (260, 3340), (263, 3352), (274, 3391), (279, 3415), (309, 3577),

Gene: Oliynyk_8 Start: 4235, Stop: 5683, Start Num: 39
Candidate Starts for Oliynyk_8:
(37, 4232), (Start: 39 @4235 has 4 MA's), (Start: 43 @4241 has 102 MA's), (63, 4358), (69, 4406), (76, 4430), (130, 4724), (143, 4766), (150, 4793), (175, 4919), (178, 4931), (196, 5024), (220, 5102), (225, 5147), (232, 5204), (235, 5228), (278, 5441), (318, 5669),

Gene: OlympiaSaint_3 Start: 2240, Stop: 3610, Start Num: 44
Candidate Starts for OlympiaSaint_3:

(Start: 44 @2240 has 159 MA's), (Start: 53 @2276 has 9 MA's), (Start: 57 @2300 has 1 MA's), (58, 2309), (59, 2315), (60, 2318), (64, 2357), (78, 2423), (79, 2426), (89, 2495), (97, 2534), (99, 2543), (109, 2591), (118, 2651), (128, 2699), (140, 2744), (163, 2789), (168, 2816), (175, 2861), (180, 2882), (181, 2885), (182, 2888), (186, 2909), (188, 2918), (197, 2969), (198, 2972), (201, 2981), (207, 3011), (211, 3032), (221, 3101), (224, 3110), (229, 3161), (230, 3164), (238, 3224), (240, 3230), (254, 3308), (260, 3341), (263, 3353), (274, 3392), (279, 3416), (309, 3578),

Gene: Omar_8 Start: 4088, Stop: 5557, Start Num: 43
Candidate Starts for Omar_8:
(Start: 43 @4088 has 102 MA's), (50, 4118), (63, 4205), (69, 4253), (73, 4265), (81, 4304), (97, 4397), (101, 4418), (111, 4481), (132, 4574), (150, 4637), (156, 4670), (175, 4763), (178, 4775), (191, 4850), (196, 4868), (202, 4886), (225, 5033), (232, 5090), (265, 5270), (278, 5327), (291, 5405), (293, 5417), (295, 5426), (318, 5543),

Gene: OneUp_25 Start: 8258, Stop: 9868, Start Num: 22
Candidate Starts for OneUp_25:
(Start: 22 @8258 has 25 MA's), (42, 8309), (45, 8318), (64, 8435), (71, 8471), (82, 8516), (86, 8543), (117, 8747), (134, 8822), (146, 8867), (174, 8987), (181, 9023), (184, 9041), (186, 9047), (191, 9086), (192, 9089), (216, 9218), (238, 9398), (247, 9443), (256, 9491), (279, 9593), (280, 9599), (282, 9608), (295, 9677), (296, 9692), (303, 9728), (304, 9731), (306, 9743),

Gene: Outis_26 Start: 14578, Stop: 16155, Start Num: 30
Candidate Starts for Outis_26:
(Start: 30 @14578 has 23 MA's), (32, 14584), (36, 14602), (54, 14662), (85, 14854), (97, 14932), (102, 14956), (137, 15157), (148, 15190), (173, 15277), (178, 15310), (199, 15412), (203, 15424), (220, 15505), (236, 15646), (256, 15745), (260, 15769), (262, 15778), (277, 15838), (287, 15898), (292, 15922), (293, 15931),

Gene: Ovechkin_3 Start: 2255, Stop: 3625, Start Num: 44
Candidate Starts for Ovechkin_3:
(Start: 44 @2255 has 159 MA's), (Start: 53 @2291 has 9 MA's), (Start: 57 @2315 has 1 MA's), (58, 2324), (59, 2330), (60, 2333), (64, 2372), (78, 2438), (79, 2441), (89, 2510), (97, 2549), (99, 2558), (109, 2606), (118, 2666), (128, 2714), (140, 2759), (163, 2804), (168, 2831), (175, 2876), (180, 2897), (181, 2900), (182, 2903), (186, 2924), (188, 2933), (197, 2984), (198, 2987), (201, 2996), (207, 3026), (211, 3047), (221, 3116), (224, 3125), (229, 3176), (230, 3179), (236, 3233), (238, 3239), (239, 3242), (240, 3245), (251, 3302), (260, 3356), (263, 3368), (272, 3401), (274, 3407), (279, 3431), (303, 3575), (309, 3593),

Gene: Ozzie_7 Start: 4061, Stop: 5503, Start Num: 43
Candidate Starts for Ozzie_7:
(37, 4052), (Start: 39 @4055 has 4 MA's), (Start: 43 @4061 has 102 MA's), (63, 4178), (69, 4226), (130, 4544), (143, 4586), (150, 4613), (156, 4646), (175, 4739), (178, 4751), (196, 4844), (220, 4922), (225, 4967), (232, 5024), (235, 5048), (278, 5261), (318, 5489),

Gene: OzzyJ_8 Start: 4056, Stop: 5492, Start Num: 43
Candidate Starts for OzzyJ_8:
(Start: 39 @4050 has 4 MA's), (Start: 43 @4056 has 102 MA's), (49, 4080), (55, 4104), (63, 4173), (69, 4221), (73, 4233), (81, 4272), (107, 4425), (130, 4539), (143, 4581), (150, 4608), (156, 4641), (175, 4737), (178, 4749), (191, 4824), (196, 4842), (220, 4920), (225, 4965), (232, 5022), (273, 5235), (278, 5259), (301, 5391), (313, 5457), (318, 5478),

Gene: P1201_28 Start: 15559, Stop: 17196, Start Num: 27
Candidate Starts for P1201_28:

(27, 15559), (66, 15739), (75, 15781), (87, 15850), (92, 15883), (97, 15907), (102, 15931), (108, 15970), (145, 16177), (149, 16204), (174, 16330), (203, 16462), (211, 16510), (221, 16579), (224, 16588), (227, 16624), (236, 16696), (243, 16717), (260, 16816), (265, 16834), (292, 16969), (295, 16987), (300, 17023), (305, 17050), (311, 17062),

Gene: PHappiness_3 Start: 2239, Stop: 3609, Start Num: 44
Candidate Starts for PHappiness_3:
(Start: 44 @2239 has 159 MA's), (Start: 53 @2275 has 9 MA's), (Start: 57 @2299 has 1 MA's), (58, 2308), (59, 2314), (60, 2317), (64, 2356), (78, 2422), (79, 2425), (89, 2494), (97, 2533), (99, 2542), (109, 2590), (118, 2650), (128, 2698), (140, 2743), (163, 2788), (168, 2815), (175, 2860), (180, 2881), (181, 2884), (182, 2887), (186, 2908), (188, 2917), (197, 2968), (198, 2971), (201, 2980), (207, 3010), (211, 3031), (221, 3100), (224, 3109), (229, 3160), (230, 3163), (238, 3223), (240, 3229), (254, 3307), (260, 3340), (263, 3352), (274, 3391), (279, 3415), (309, 3577),

Gene: PMC_3 Start: 2255, Stop: 3625, Start Num: 44
Candidate Starts for PMC_3:
(Start: 44 @2255 has 159 MA's), (Start: 53 @2291 has 9 MA's), (Start: 57 @2315 has 1 MA's), (58, 2324), (59, 2330), (60, 2333), (64, 2372), (78, 2438), (79, 2441), (89, 2510), (97, 2549), (99, 2558), (109, 2606), (118, 2666), (128, 2714), (140, 2759), (163, 2804), (168, 2831), (175, 2876), (180, 2897), (181, 2900), (182, 2903), (186, 2924), (188, 2933), (197, 2984), (198, 2987), (201, 2996), (207, 3026), (211, 3047), (221, 3116), (224, 3125), (229, 3176), (230, 3179), (238, 3239), (240, 3245), (254, 3323), (260, 3356), (263, 3368), (274, 3407), (279, 3431), (309, 3593),

Gene: Pablito_7 Start: 3894, Stop: 5375, Start Num: 43
Candidate Starts for Pablito_7:
(Start: 43 @3894 has 102 MA's), (63, 4011), (69, 4059), (73, 4071), (88, 4152), (97, 4203), (131, 4377), (143, 4416), (156, 4476), (175, 4569), (178, 4581), (191, 4656), (196, 4674), (200, 4686), (202, 4692), (204, 4698), (225, 4839), (231, 4890), (232, 4896), (278, 5133), (295, 5232), (301, 5265), (318, 5361),

Gene: Pacc40_3 Start: 2239, Stop: 3609, Start Num: 44
Candidate Starts for Pacc40_3:
(Start: 44 @2239 has 159 MA's), (Start: 53 @2275 has 9 MA's), (Start: 57 @2299 has 1 MA's), (58, 2308), (59, 2314), (60, 2317), (64, 2356), (78, 2422), (79, 2425), (89, 2494), (97, 2533), (99, 2542), (109, 2590), (118, 2650), (128, 2698), (140, 2743), (163, 2788), (168, 2815), (175, 2860), (180, 2881), (181, 2884), (182, 2887), (186, 2908), (188, 2917), (197, 2968), (198, 2971), (201, 2980), (207, 3010), (211, 3031), (221, 3100), (224, 3109), (229, 3160), (230, 3163), (238, 3223), (240, 3229), (254, 3307), (260, 3340), (263, 3352), (274, 3391), (279, 3415), (309, 3577),

Gene: Paedore_7 Start: 3938, Stop: 5407, Start Num: 43
Candidate Starts for Paedore_7:
(Start: 43 @3938 has 102 MA's), (63, 4055), (69, 4103), (73, 4115), (81, 4154), (97, 4247), (128, 4412), (130, 4418), (178, 4625), (191, 4700), (196, 4718), (200, 4730), (202, 4736), (204, 4742), (225, 4883), (231, 4934), (232, 4940), (244, 5009), (252, 5054), (265, 5120), (278, 5177), (293, 5267), (301, 5309), (318, 5393),

Gene: Paolo_9 Start: 4480, Stop: 5949, Start Num: 43
Candidate Starts for Paolo_9:
(Start: 43 @4480 has 102 MA's), (63, 4597), (73, 4657), (81, 4696), (97, 4789), (101, 4810), (106, 4846), (143, 5002), (150, 5029), (168, 5107), (178, 5167), (187, 5209), (191, 5242), (196, 5260), (202, 5278), (205, 5287), (217, 5368), (225, 5425), (231, 5476), (232, 5482), (265, 5662), (278, 5719), (293, 5809), (295, 5818), (318, 5935),

Gene: Patio_28 Start: 14770, Stop: 16353, Start Num: 28

Candidate Starts for Patio_28:
(Start: 28 @14770 has 6 MA's), (32, 14779), (54, 14857), (97, 15124), (113, 15238), (178, 15508), (193, 15592), (198, 15607), (203, 15622), (220, 15703), (236, 15844), (256, 15943), (260, 15967), (262, 15976), (277, 16036), (289, 16102), (292, 16120), (293, 16129), (300, 16174),

Gene: PatoPoderoso_3 Start: 2291, Stop: 3625, Start Num: 53
Candidate Starts for PatoPoderoso_3:
(Start: 44 @2255 has 159 MA's), (Start: 53 @2291 has 9 MA's), (Start: 57 @2315 has 1 MA's), (58, 2324), (59, 2330), (60, 2333), (64, 2372), (78, 2438), (79, 2441), (89, 2510), (97, 2549), (99, 2558), (109, 2606), (118, 2666), (128, 2714), (140, 2759), (163, 2804), (168, 2831), (175, 2876), (180, 2897), (181, 2900), (182, 2903), (186, 2924), (188, 2933), (197, 2984), (198, 2987), (201, 2996), (207, 3026), (211, 3047), (221, 3116), (224, 3125), (229, 3176), (230, 3179), (236, 3233), (238, 3239), (239, 3242), (240, 3245), (251, 3302), (260, 3356), (263, 3368), (272, 3401), (274, 3407), (279, 3431), (309, 3593),

Gene: Pavo_8 Start: 4175, Stop: 5608, Start Num: 43
Candidate Starts for Pavo_8:
(Start: 43 @4175 has 102 MA's), (63, 4292), (69, 4340), (73, 4352), (117, 4595), (138, 4682), (155, 4742), (157, 4760), (159, 4766), (178, 4865), (191, 4940), (196, 4958), (213, 4997), (220, 5033), (232, 5135), (260, 5297), (265, 5315), (278, 5372), (293, 5462), (301, 5504), (313, 5570), (318, 5594),

Gene: Pemberton_28 Start: 12143, Stop: 13720, Start Num: 30
Candidate Starts for Pemberton_28:
(Start: 18 @12098 has 7 MA's), (Start: 30 @12143 has 23 MA's), (36, 12167), (41, 12176), (161, 12782), (170, 12827), (193, 12959), (203, 12989), (231, 13166), (235, 13196), (236, 13211), (260, 13334), (262, 13343), (271, 13379), (277, 13403), (289, 13469), (292, 13487), (293, 13496), (300, 13541),

Gene: PeteyPab_13 Start: 8757, Stop: 10319, Start Num: 34
Candidate Starts for PeteyPab_13:
(Start: 29 @8742 has 8 MA's), (Start: 34 @8757 has 6 MA's), (51, 8820), (56, 8841), (61, 8883), (68, 8943), (70, 8952), (73, 8961), (82, 9000), (97, 9096), (115, 9216), (116, 9222), (127, 9285), (129, 9291), (162, 9405), (167, 9426), (176, 9480), (180, 9504), (193, 9579), (198, 9594), (203, 9609), (221, 9714), (224, 9723), (236, 9831), (263, 9963), (278, 10026), (284, 10071), (294, 10116), (295, 10122), (298, 10149), (300, 10158), (302, 10173), (319, 10257),

Gene: Phalconet_3 Start: 2255, Stop: 3625, Start Num: 44
Candidate Starts for Phalconet_3:
(Start: 44 @2255 has 159 MA's), (Start: 53 @2291 has 9 MA's), (Start: 57 @2315 has 1 MA's), (58, 2324), (59, 2330), (60, 2333), (64, 2372), (78, 2438), (79, 2441), (89, 2510), (97, 2549), (99, 2558), (109, 2606), (118, 2666), (128, 2714), (140, 2759), (163, 2804), (168, 2831), (175, 2876), (180, 2897), (181, 2900), (182, 2903), (186, 2924), (188, 2933), (197, 2984), (198, 2987), (201, 2996), (207, 3026), (211, 3047), (221, 3116), (224, 3125), (229, 3176), (230, 3179), (236, 3233), (238, 3239), (239, 3242), (240, 3245), (260, 3356), (263, 3368), (272, 3401), (274, 3407), (279, 3431), (303, 3575), (309, 3593),

Gene: Phanphagia_3 Start: 2255, Stop: 3625, Start Num: 44
Candidate Starts for Phanphagia_3:
(Start: 44 @2255 has 159 MA's), (Start: 53 @2291 has 9 MA's), (Start: 57 @2315 has 1 MA's), (58, 2324), (59, 2330), (60, 2333), (64, 2372), (78, 2438), (79, 2441), (89, 2510), (97, 2549), (99, 2558), (109, 2606), (118, 2666), (128, 2714), (140, 2759), (163, 2804), (168, 2831), (175, 2876), (180, 2897), (181, 2900), (182, 2903), (186, 2924), (188, 2933), (197, 2984), (198, 2987), (201, 2996), (207, 3026), (211, 3047), (221, 3116), (224, 3125), (229, 3176), (230, 3179), (236, 3233), (238, 3239), (240, 3245), (251, 3302), (260, 3356), (263, 3368), (272, 3401), (274, 3407), (279, 3431), (303, 3575), (309, 3593),

Gene: Phasih_3 Start: 2255, Stop: 3625, Start Num: 44
Candidate Starts for Phasih_3:
(Start: 44 @2255 has 159 MA's), (Start: 53 @2291 has 9 MA's), (Start: 57 @2315 has 1 MA's), (58, 2324), (59, 2330), (60, 2333), (64, 2372), (78, 2438), (79, 2441), (89, 2510), (97, 2549), (99, 2558), (109, 2606), (118, 2666), (128, 2714), (140, 2759), (163, 2804), (168, 2831), (175, 2876), (180, 2897), (181, 2900), (182, 2903), (186, 2924), (188, 2933), (197, 2984), (198, 2987), (201, 2996), (207, 3026), (211, 3047), (221, 3116), (224, 3125), (229, 3176), (230, 3179), (236, 3233), (238, 3239), (239, 3242), (240, 3245), (251, 3302), (260, 3356), (263, 3368), (272, 3401), (274, 3407), (279, 3431), (303, 3575), (309, 3593),

Gene: Phatniss_3 Start: 2240, Stop: 3610, Start Num: 44
Candidate Starts for Phatniss_3:
(Start: 44 @2240 has 159 MA's), (Start: 53 @2276 has 9 MA's), (Start: 57 @2300 has 1 MA's), (58, 2309), (59, 2315), (60, 2318), (64, 2357), (78, 2423), (79, 2426), (89, 2495), (97, 2534), (99, 2543), (109, 2591), (118, 2651), (128, 2699), (140, 2744), (163, 2789), (168, 2816), (175, 2861), (180, 2882), (181, 2885), (182, 2888), (186, 2909), (188, 2918), (197, 2969), (198, 2972), (201, 2981), (207, 3011), (211, 3032), (221, 3101), (224, 3110), (229, 3161), (230, 3164), (234, 3194), (236, 3218), (238, 3224), (240, 3230), (254, 3308), (260, 3341), (263, 3353), (274, 3392), (279, 3416), (303, 3560), (309, 3578),

Gene: PhesterPhotato_3 Start: 2255, Stop: 3625, Start Num: 44
Candidate Starts for PhesterPhotato_3:
(Start: 44 @2255 has 159 MA's), (Start: 53 @2291 has 9 MA's), (Start: 57 @2315 has 1 MA's), (58, 2324), (59, 2330), (60, 2333), (64, 2372), (78, 2438), (79, 2441), (89, 2510), (97, 2549), (99, 2558), (109, 2606), (118, 2666), (128, 2714), (140, 2759), (163, 2804), (168, 2831), (175, 2876), (180, 2897), (181, 2900), (182, 2903), (186, 2924), (188, 2933), (197, 2984), (198, 2987), (201, 2996), (207, 3026), (211, 3047), (221, 3116), (224, 3125), (229, 3176), (230, 3179), (236, 3233), (238, 3239), (240, 3245), (251, 3302), (260, 3356), (263, 3368), (272, 3401), (274, 3407), (279, 3431), (303, 3575), (309, 3593),

Gene: Phettuccine_7 Start: 4081, Stop: 5523, Start Num: 43
Candidate Starts for Phettuccine_7:
(37, 4072), (Start: 39 @4075 has 4 MA's), (Start: 43 @4081 has 102 MA's), (63, 4198), (69, 4246), (130, 4564), (143, 4606), (150, 4633), (156, 4666), (175, 4759), (178, 4771), (196, 4864), (220, 4942), (225, 4987), (232, 5044), (235, 5068), (278, 5281), (318, 5509),

Gene: Philus_3 Start: 2276, Stop: 3610, Start Num: 53
Candidate Starts for Philus_3:
(Start: 44 @2240 has 159 MA's), (Start: 53 @2276 has 9 MA's), (Start: 57 @2300 has 1 MA's), (58, 2309), (59, 2315), (60, 2318), (64, 2357), (78, 2423), (79, 2426), (89, 2495), (97, 2534), (99, 2543), (109, 2591), (118, 2651), (128, 2699), (140, 2744), (163, 2789), (168, 2816), (175, 2861), (180, 2882), (181, 2885), (182, 2888), (186, 2909), (188, 2918), (197, 2969), (198, 2972), (201, 2981), (207, 3011), (211, 3032), (221, 3101), (224, 3110), (229, 3161), (230, 3164), (238, 3224), (240, 3230), (254, 3308), (260, 3341), (263, 3353), (274, 3392), (279, 3416), (309, 3578),

Gene: PhinkBoden_31 Start: 10827, Stop: 12443, Start Num: 22
Candidate Starts for PhinkBoden_31:
(Start: 22 @10827 has 25 MA's), (42, 10878), (45, 10887), (Start: 57 @10947 has 1 MA's), (64, 11004), (71, 11040), (82, 11085), (86, 11112), (117, 11316), (124, 11346), (131, 11382), (142, 11427), (146, 11436), (149, 11451), (180, 11589), (181, 11592), (184, 11610), (186, 11616), (192, 11658), (223, 11850), (234, 11937), (238, 11967), (247, 12012), (256, 12060), (258, 12075), (275, 12138), (279, 12162), (280, 12168), (282, 12177), (295, 12246), (303, 12297), (304, 12300), (306, 12312),

Gene: PhlipPhlop_3 Start: 2255, Stop: 3625, Start Num: 44
Candidate Starts for PhlipPhlop_3:

(Start: 44 @2255 has 159 MA's), (Start: 53 @2291 has 9 MA's), (Start: 57 @2315 has 1 MA's), (58, 2324), (59, 2330), (60, 2333), (64, 2372), (78, 2438), (79, 2441), (89, 2510), (97, 2549), (99, 2558), (109, 2606), (118, 2666), (128, 2714), (140, 2759), (163, 2804), (168, 2831), (175, 2876), (180, 2897), (181, 2900), (182, 2903), (186, 2924), (188, 2933), (197, 2984), (198, 2987), (201, 2996), (207, 3026), (211, 3047), (221, 3116), (224, 3125), (229, 3176), (230, 3179), (236, 3233), (238, 3239), (240, 3245), (254, 3323), (260, 3356), (263, 3368), (274, 3407), (279, 3431), (309, 3593),

Gene: Phomeo_24 Start: 14572, Stop: 16161, Start Num: 30
Candidate Starts for Phomeo_24:
(Start: 30 @14572 has 23 MA's), (32, 14578), (35, 14593), (Start: 40 @14602 has 1 MA's), (54, 14656), (85, 14848), (97, 14926), (102, 14950), (105, 14980), (148, 15184), (161, 15211), (167, 15238), (181, 15328), (193, 15400), (198, 15415), (203, 15430), (220, 15511), (236, 15652), (256, 15751), (258, 15766), (260, 15775), (262, 15784), (271, 15820), (277, 15844), (292, 15928), (293, 15937), (300, 15982),

Gene: Pippy_3 Start: 2240, Stop: 3598, Start Num: 44
Candidate Starts for Pippy_3:
(Start: 44 @2240 has 159 MA's), (Start: 53 @2276 has 9 MA's), (Start: 57 @2300 has 1 MA's), (58, 2309), (59, 2315), (60, 2318), (64, 2357), (78, 2423), (79, 2426), (89, 2495), (97, 2534), (99, 2543), (109, 2591), (118, 2651), (123, 2672), (128, 2699), (140, 2744), (163, 2789), (168, 2816), (175, 2861), (180, 2882), (181, 2885), (182, 2888), (186, 2909), (188, 2918), (197, 2969), (198, 2972), (201, 2981), (207, 3011), (211, 3032), (221, 3101), (224, 3110), (229, 3161), (230, 3164), (238, 3224), (240, 3230), (260, 3341), (263, 3353), (272, 3386), (274, 3392), (279, 3416), (303, 3560),

Gene: Pleakley_34 Start: 14655, Stop: 16232, Start Num: 29
Candidate Starts for Pleakley_34:
(Start: 29 @14655 has 8 MA's), (31, 14661), (32, 14664), (41, 14691), (54, 14742), (97, 15009), (129, 15204), (134, 15219), (148, 15267), (193, 15471), (198, 15486), (203, 15501), (220, 15582), (231, 15678), (233, 15690), (236, 15723), (256, 15822), (260, 15846), (262, 15855), (271, 15891), (275, 15906), (277, 15915), (292, 15999), (299, 16047), (300, 16053),

Gene: Poenanya_3 Start: 2239, Stop: 3609, Start Num: 44
Candidate Starts for Poenanya_3:
(Start: 44 @2239 has 159 MA's), (Start: 53 @2275 has 9 MA's), (Start: 57 @2299 has 1 MA's), (58, 2308), (59, 2314), (60, 2317), (64, 2356), (78, 2422), (79, 2425), (89, 2494), (97, 2533), (99, 2542), (109, 2590), (118, 2650), (128, 2698), (140, 2743), (163, 2788), (168, 2815), (175, 2860), (180, 2881), (181, 2884), (182, 2887), (186, 2908), (188, 2917), (197, 2968), (198, 2971), (201, 2980), (207, 3010), (211, 3031), (221, 3100), (224, 3109), (229, 3160), (230, 3163), (238, 3223), (240, 3229), (254, 3307), (260, 3340), (263, 3352), (274, 3391), (279, 3415), (309, 3577),

Gene: Polka14_3 Start: 2240, Stop: 3610, Start Num: 44
Candidate Starts for Polka14_3:
(Start: 44 @2240 has 159 MA's), (Start: 53 @2276 has 9 MA's), (Start: 57 @2300 has 1 MA's), (58, 2309), (59, 2315), (60, 2318), (63, 2348), (64, 2357), (78, 2423), (79, 2426), (89, 2495), (97, 2534), (99, 2543), (109, 2591), (118, 2651), (128, 2699), (140, 2744), (163, 2789), (168, 2816), (175, 2861), (180, 2882), (181, 2885), (182, 2888), (186, 2909), (188, 2918), (197, 2969), (198, 2972), (201, 2981), (207, 3011), (211, 3032), (221, 3101), (224, 3110), (229, 3161), (230, 3164), (238, 3224), (240, 3230), (254, 3308), (260, 3341), (263, 3353), (274, 3392), (279, 3416), (309, 3578),

Gene: Polyyuki_29 Start: 15877, Stop: 17466, Start Num: 25
Candidate Starts for Polyyuki_29:
(20, 15850), (Start: 25 @15877 has 6 MA's), (Start: 29 @15883 has 8 MA's), (32, 15892), (36, 15910), (38, 15913), (54, 15970), (60, 16012), (65, 16063), (97, 16237), (98, 16243), (116, 16363), (131,

16438), (134, 16447), (148, 16495), (190, 16675), (193, 16696), (199, 16714), (203, 16726), (221, 16831), (226, 16858), (231, 16903), (233, 16915), (236, 16948), (253, 17026), (256, 17047), (260, 17071), (262, 17080), (269, 17104), (292, 17224), (293, 17233), (296, 17257),

Gene: PopTart_3 Start: 2255, Stop: 3625, Start Num: 44
Candidate Starts for PopTart_3:
(Start: 44 @2255 has 159 MA's), (Start: 53 @2291 has 9 MA's), (Start: 57 @2315 has 1 MA's), (58, 2324), (59, 2330), (60, 2333), (64, 2372), (78, 2438), (79, 2441), (89, 2510), (97, 2549), (99, 2558), (109, 2606), (118, 2666), (128, 2714), (140, 2759), (163, 2804), (168, 2831), (175, 2876), (180, 2897), (181, 2900), (182, 2903), (186, 2924), (188, 2933), (197, 2984), (198, 2987), (201, 2996), (207, 3026), (211, 3047), (221, 3116), (224, 3125), (229, 3176), (230, 3179), (236, 3233), (238, 3239), (240, 3245), (260, 3356), (263, 3368), (272, 3401), (274, 3407), (279, 3431), (303, 3575), (309, 3593),

Gene: PotatoChip_13 Start: 8759, Stop: 10321, Start Num: 34
Candidate Starts for PotatoChip_13:
(Start: 29 @8744 has 8 MA's), (Start: 34 @8759 has 6 MA's), (51, 8822), (56, 8843), (61, 8885), (68, 8945), (70, 8954), (73, 8963), (82, 9002), (97, 9098), (115, 9218), (116, 9224), (127, 9287), (129, 9293), (162, 9407), (167, 9428), (176, 9482), (180, 9506), (193, 9581), (198, 9596), (203, 9611), (221, 9716), (224, 9725), (236, 9833), (263, 9965), (278, 10028), (284, 10073), (294, 10118), (295, 10124), (298, 10151), (300, 10160), (302, 10175), (319, 10259),

Gene: Priscilla_3 Start: 2240, Stop: 3610, Start Num: 44
Candidate Starts for Priscilla_3:
(Start: 44 @2240 has 159 MA's), (Start: 53 @2276 has 9 MA's), (Start: 57 @2300 has 1 MA's), (58, 2309), (59, 2315), (60, 2318), (64, 2357), (78, 2423), (79, 2426), (89, 2495), (97, 2534), (99, 2543), (109, 2591), (118, 2651), (128, 2699), (140, 2744), (163, 2789), (168, 2816), (175, 2861), (180, 2882), (181, 2885), (182, 2888), (186, 2909), (188, 2918), (197, 2969), (198, 2972), (201, 2981), (207, 3011), (211, 3032), (221, 3101), (224, 3110), (229, 3161), (230, 3164), (238, 3224), (240, 3230), (254, 3308), (260, 3341), (263, 3353), (274, 3392), (279, 3416), (309, 3578),

Gene: Provolone_8 Start: 3905, Stop: 5338, Start Num: 43
Candidate Starts for Provolone_8:
(Start: 43 @3905 has 102 MA's), (63, 4022), (69, 4070), (73, 4082), (117, 4325), (138, 4412), (155, 4472), (157, 4490), (159, 4496), (178, 4595), (191, 4670), (196, 4688), (213, 4727), (220, 4763), (232, 4865), (260, 5027), (265, 5045), (278, 5102), (293, 5192), (301, 5234), (313, 5300), (318, 5324),

Gene: Puginator_9 Start: 4426, Stop: 5895, Start Num: 43
Candidate Starts for Puginator_9:
(Start: 43 @4426 has 102 MA's), (63, 4543), (73, 4603), (81, 4642), (97, 4735), (101, 4756), (106, 4792), (143, 4948), (150, 4975), (158, 5014), (171, 5065), (178, 5113), (191, 5188), (196, 5206), (202, 5224), (205, 5233), (217, 5314), (225, 5371), (231, 5422), (232, 5428), (265, 5608), (278, 5665), (293, 5755), (295, 5764), (318, 5881),

Gene: QuickMath_3 Start: 2255, Stop: 3625, Start Num: 44
Candidate Starts for QuickMath_3:
(Start: 44 @2255 has 159 MA's), (Start: 53 @2291 has 9 MA's), (Start: 57 @2315 has 1 MA's), (58, 2324), (59, 2330), (60, 2333), (64, 2372), (78, 2438), (79, 2441), (89, 2510), (97, 2549), (99, 2558), (109, 2606), (118, 2666), (128, 2714), (140, 2759), (163, 2804), (168, 2831), (175, 2876), (180, 2897), (181, 2900), (182, 2903), (186, 2924), (188, 2933), (197, 2984), (198, 2987), (201, 2996), (207, 3026), (211, 3047), (221, 3116), (224, 3125), (229, 3176), (230, 3179), (236, 3233), (238, 3239), (240, 3245), (251, 3302), (260, 3356), (263, 3368), (272, 3401), (274, 3407), (279, 3431), (303, 3575), (309, 3593),

Gene: R4_7 Start: 3896, Stop: 5368, Start Num: 43

Candidate Starts for R4_7:
(Start: 43 @3896 has 102 MA's), (63, 4013), (69, 4061), (73, 4073), (75, 4082), (81, 4112), (97, 4205), (128, 4370), (130, 4376), (178, 4583), (191, 4658), (196, 4676), (200, 4688), (202, 4694), (204, 4700), (225, 4841), (231, 4892), (232, 4898), (252, 5012), (265, 5078), (278, 5135), (286, 5189), (301, 5267), (318, 5354),

Gene: Radiance_3 Start: 2239, Stop: 3609, Start Num: 44
Candidate Starts for Radiance_3:
(Start: 44 @2239 has 159 MA's), (Start: 53 @2275 has 9 MA's), (Start: 57 @2299 has 1 MA's), (58, 2308), (59, 2314), (60, 2317), (64, 2356), (78, 2422), (79, 2425), (89, 2494), (97, 2533), (99, 2542), (109, 2590), (118, 2650), (128, 2698), (140, 2743), (163, 2788), (168, 2815), (175, 2860), (180, 2881), (181, 2884), (182, 2887), (186, 2908), (188, 2917), (197, 2968), (198, 2971), (201, 2980), (207, 3010), (211, 3031), (221, 3100), (224, 3109), (229, 3160), (230, 3163), (238, 3223), (240, 3229), (254, 3307), (260, 3340), (263, 3352), (274, 3391), (279, 3415), (309, 3577),

Gene: Rana_7 Start: 4053, Stop: 5489, Start Num: 43
Candidate Starts for Rana_7:
(Start: 39 @4047 has 4 MA's), (Start: 43 @4053 has 102 MA's), (49, 4077), (55, 4101), (63, 4170), (69, 4218), (73, 4230), (81, 4269), (107, 4422), (113, 4452), (130, 4536), (143, 4578), (158, 4644), (175, 4734), (178, 4746), (191, 4821), (196, 4839), (220, 4917), (225, 4962), (232, 5019), (273, 5232), (278, 5256), (301, 5388), (318, 5475),

Gene: RedBear_9 Start: 4327, Stop: 5763, Start Num: 43
Candidate Starts for RedBear_9:
(37, 4318), (Start: 39 @4321 has 4 MA's), (Start: 43 @4327 has 102 MA's), (49, 4351), (55, 4375), (63, 4444), (69, 4492), (76, 4516), (81, 4543), (107, 4696), (130, 4810), (143, 4852), (147, 4864), (150, 4879), (158, 4918), (175, 5008), (178, 5020), (196, 5113), (220, 5191), (225, 5236), (232, 5293), (278, 5530), (318, 5749),

Gene: RedBird_3 Start: 2239, Stop: 3609, Start Num: 44
Candidate Starts for RedBird_3:
(Start: 44 @2239 has 159 MA's), (Start: 53 @2275 has 9 MA's), (Start: 57 @2299 has 1 MA's), (58, 2308), (59, 2314), (60, 2317), (64, 2356), (78, 2422), (79, 2425), (89, 2494), (97, 2533), (99, 2542), (109, 2590), (118, 2650), (128, 2698), (140, 2743), (163, 2788), (168, 2815), (175, 2860), (180, 2881), (181, 2884), (182, 2887), (186, 2908), (188, 2917), (197, 2968), (198, 2971), (201, 2980), (207, 3010), (211, 3031), (221, 3100), (224, 3109), (229, 3160), (230, 3163), (238, 3223), (240, 3229), (254, 3307), (260, 3340), (263, 3352), (274, 3391), (279, 3415), (309, 3577),

Gene: RedRaider_32 Start: 16783, Stop: 18366, Start Num: 28
Candidate Starts for RedRaider_32:
(Start: 28 @16783 has 6 MA's), (32, 16792), (54, 16870), (97, 17137), (113, 17251), (148, 17395), (178, 17521), (193, 17605), (203, 17635), (220, 17716), (224, 17749), (236, 17857), (256, 17956), (260, 17980), (262, 17989), (277, 18049), (289, 18115), (292, 18133), (293, 18142), (299, 18181), (300, 18187),

Gene: Rita_3 Start: 2256, Stop: 3626, Start Num: 44
Candidate Starts for Rita_3:
(Start: 44 @2256 has 159 MA's), (Start: 53 @2292 has 9 MA's), (Start: 57 @2316 has 1 MA's), (58, 2325), (59, 2331), (60, 2334), (64, 2373), (78, 2439), (79, 2442), (89, 2511), (97, 2550), (99, 2559), (109, 2607), (118, 2667), (128, 2715), (140, 2760), (163, 2805), (168, 2832), (175, 2877), (180, 2898), (181, 2901), (182, 2904), (186, 2925), (188, 2934), (197, 2985), (198, 2988), (201, 2997), (207, 3027), (211, 3048), (221, 3117), (224, 3126), (229, 3177), (230, 3180), (236, 3234), (238, 3240), (240, 3246), (260, 3357), (263, 3369), (272, 3402), (274, 3408), (279, 3432), (303, 3576), (309, 3594),

Gene: RitaG_3 Start: 2239, Stop: 3609, Start Num: 44
Candidate Starts for RitaG_3:
(Start: 44 @2239 has 159 MA's), (Start: 53 @2275 has 9 MA's), (Start: 57 @2299 has 1 MA's), (58, 2308), (59, 2314), (60, 2317), (64, 2356), (78, 2422), (79, 2425), (89, 2494), (97, 2533), (99, 2542), (109, 2590), (118, 2650), (128, 2698), (140, 2743), (163, 2788), (168, 2815), (175, 2860), (180, 2881), (181, 2884), (182, 2887), (186, 2908), (188, 2917), (197, 2968), (198, 2971), (201, 2980), (207, 3010), (211, 3031), (221, 3100), (224, 3109), (229, 3160), (230, 3163), (238, 3223), (240, 3229), (254, 3307), (260, 3340), (263, 3352), (274, 3391), (279, 3415), (309, 3577),

Gene: Rockne_3 Start: 2255, Stop: 3625, Start Num: 44
Candidate Starts for Rockne_3:
(Start: 44 @2255 has 159 MA's), (Start: 53 @2291 has 9 MA's), (Start: 57 @2315 has 1 MA's), (58, 2324), (59, 2330), (60, 2333), (64, 2372), (78, 2438), (79, 2441), (89, 2510), (97, 2549), (99, 2558), (109, 2606), (118, 2666), (128, 2714), (140, 2759), (163, 2804), (168, 2831), (175, 2876), (180, 2897), (181, 2900), (182, 2903), (186, 2924), (188, 2933), (197, 2984), (198, 2987), (201, 2996), (207, 3026), (211, 3047), (221, 3116), (224, 3125), (229, 3176), (230, 3179), (238, 3239), (240, 3245), (254, 3323), (260, 3356), (263, 3368), (274, 3407), (279, 3431), (309, 3593),

Gene: Royals2015_3 Start: 2255, Stop: 3625, Start Num: 44
Candidate Starts for Royals2015_3:
(Start: 44 @2255 has 159 MA's), (Start: 53 @2291 has 9 MA's), (Start: 57 @2315 has 1 MA's), (58, 2324), (59, 2330), (60, 2333), (64, 2372), (78, 2438), (79, 2441), (89, 2510), (97, 2549), (99, 2558), (109, 2606), (118, 2666), (128, 2714), (140, 2759), (163, 2804), (168, 2831), (175, 2876), (180, 2897), (181, 2900), (182, 2903), (186, 2924), (188, 2933), (197, 2984), (198, 2987), (201, 2996), (207, 3026), (211, 3047), (221, 3116), (224, 3125), (229, 3176), (230, 3179), (236, 3233), (238, 3239), (240, 3245), (251, 3302), (260, 3356), (263, 3368), (272, 3401), (274, 3407), (279, 3431), (303, 3575), (309, 3593),

Gene: Ruby_3 Start: 2241, Stop: 3611, Start Num: 44
Candidate Starts for Ruby_3:
(Start: 44 @2241 has 159 MA's), (Start: 53 @2277 has 9 MA's), (Start: 57 @2301 has 1 MA's), (58, 2310), (59, 2316), (60, 2319), (64, 2358), (78, 2424), (79, 2427), (89, 2496), (97, 2535), (99, 2544), (109, 2592), (118, 2652), (128, 2700), (140, 2745), (163, 2790), (168, 2817), (175, 2862), (180, 2883), (181, 2886), (182, 2889), (186, 2910), (188, 2919), (197, 2970), (198, 2973), (201, 2982), (207, 3012), (211, 3033), (221, 3102), (224, 3111), (229, 3162), (230, 3165), (238, 3225), (240, 3231), (254, 3309), (260, 3342), (263, 3354), (274, 3393), (279, 3417), (309, 3579),

Gene: Rusticus_8 Start: 4241, Stop: 5683, Start Num: 43
Candidate Starts for Rusticus_8:
(37, 4232), (Start: 39 @4235 has 4 MA's), (Start: 43 @4241 has 102 MA's), (63, 4358), (69, 4406), (76, 4430), (130, 4724), (143, 4766), (150, 4793), (175, 4919), (178, 4931), (196, 5024), (220, 5102), (225, 5147), (232, 5204), (235, 5228), (278, 5441), (318, 5669),

Gene: SG4_3 Start: 2255, Stop: 3625, Start Num: 44
Candidate Starts for SG4_3:
(Start: 44 @2255 has 159 MA's), (Start: 53 @2291 has 9 MA's), (Start: 57 @2315 has 1 MA's), (58, 2324), (59, 2330), (60, 2333), (64, 2372), (78, 2438), (79, 2441), (89, 2510), (97, 2549), (99, 2558), (109, 2606), (118, 2666), (128, 2714), (140, 2759), (163, 2804), (168, 2831), (175, 2876), (180, 2897), (181, 2900), (182, 2903), (186, 2924), (188, 2933), (197, 2984), (198, 2987), (201, 2996), (207, 3026), (211, 3047), (221, 3116), (224, 3125), (229, 3176), (230, 3179), (236, 3233), (238, 3239), (239, 3242), (240, 3245), (251, 3302), (260, 3356), (263, 3368), (272, 3401), (274, 3407), (279, 3431), (303, 3575), (309, 3593),

Gene: Saal_3 Start: 2240, Stop: 3598, Start Num: 44
Candidate Starts for Saal_3:
(Start: 44 @2240 has 159 MA's), (Start: 53 @2276 has 9 MA's), (Start: 57 @2300 has 1 MA's), (58, 2309), (59, 2315), (60, 2318), (64, 2357), (78, 2423), (79, 2426), (89, 2495), (97, 2534), (99, 2543), (109, 2591), (118, 2651), (128, 2699), (140, 2744), (163, 2789), (168, 2816), (175, 2861), (180, 2882), (181, 2885), (182, 2888), (186, 2909), (188, 2918), (197, 2969), (198, 2972), (201, 2981), (207, 3011), (210, 3029), (211, 3032), (221, 3101), (224, 3110), (229, 3161), (230, 3164), (238, 3224), (240, 3230), (260, 3341), (263, 3353), (272, 3386), (274, 3392), (279, 3416), (303, 3560),

Gene: Sabbb_3 Start: 2255, Stop: 3613, Start Num: 44
Candidate Starts for Sabbb_3:
(Start: 44 @2255 has 159 MA's), (Start: 52 @2288 has 2 MA's), (Start: 57 @2315 has 1 MA's), (58, 2324), (59, 2330), (60, 2333), (64, 2372), (77, 2435), (78, 2438), (79, 2441), (89, 2510), (91, 2516), (97, 2549), (99, 2558), (109, 2606), (118, 2666), (123, 2687), (128, 2714), (140, 2759), (163, 2804), (168, 2831), (175, 2876), (180, 2897), (181, 2900), (182, 2903), (186, 2924), (188, 2933), (197, 2984), (198, 2987), (201, 2996), (207, 3026), (211, 3047), (221, 3116), (224, 3125), (229, 3176), (230, 3179), (236, 3233), (238, 3239), (240, 3245), (254, 3323), (260, 3356), (263, 3368), (272, 3401), (274, 3407), (279, 3431), (303, 3575),

Gene: Saftant_7 Start: 4208, Stop: 5632, Start Num: 43
Candidate Starts for Saftant_7:
(Start: 43 @4208 has 102 MA's), (63, 4325), (69, 4373), (73, 4385), (97, 4520), (150, 4760), (157, 4793), (159, 4799), (178, 4898), (191, 4973), (196, 4991), (213, 5030), (220, 5066), (225, 5111), (232, 5168), (250, 5273), (278, 5405), (301, 5537), (306, 5567), (316, 5612), (317, 5618),

Gene: Sandalphon_3 Start: 2255, Stop: 3625, Start Num: 44
Candidate Starts for Sandalphon_3:
(Start: 44 @2255 has 159 MA's), (Start: 53 @2291 has 9 MA's), (Start: 57 @2315 has 1 MA's), (58, 2324), (59, 2330), (60, 2333), (64, 2372), (78, 2438), (79, 2441), (89, 2510), (97, 2549), (99, 2558), (109, 2606), (118, 2666), (128, 2714), (140, 2759), (163, 2804), (168, 2831), (175, 2876), (180, 2897), (181, 2900), (182, 2903), (186, 2924), (188, 2933), (197, 2984), (198, 2987), (201, 2996), (207, 3026), (211, 3047), (221, 3116), (224, 3125), (229, 3176), (230, 3179), (236, 3233), (238, 3239), (240, 3245), (251, 3302), (260, 3356), (263, 3368), (274, 3407), (279, 3431), (309, 3593),

Gene: SarahRose_7 Start: 4055, Stop: 5491, Start Num: 43
Candidate Starts for SarahRose_7:
(Start: 39 @4049 has 4 MA's), (Start: 43 @4055 has 102 MA's), (49, 4079), (55, 4103), (63, 4172), (69, 4220), (73, 4232), (81, 4271), (107, 4424), (130, 4538), (143, 4580), (150, 4607), (156, 4640), (158, 4646), (175, 4736), (178, 4748), (191, 4823), (196, 4841), (220, 4919), (225, 4964), (232, 5021), (273, 5234), (278, 5258), (301, 5390), (313, 5456), (318, 5477),

Gene: Sassafras_3 Start: 2239, Stop: 3609, Start Num: 44
Candidate Starts for Sassafras_3:
(Start: 44 @2239 has 159 MA's), (Start: 53 @2275 has 9 MA's), (Start: 57 @2299 has 1 MA's), (58, 2308), (59, 2314), (60, 2317), (64, 2356), (78, 2422), (79, 2425), (89, 2494), (97, 2533), (99, 2542), (109, 2590), (118, 2650), (128, 2698), (140, 2743), (163, 2788), (168, 2815), (175, 2860), (180, 2881), (181, 2884), (182, 2887), (186, 2908), (188, 2917), (197, 2968), (198, 2971), (201, 2980), (207, 3010), (211, 3031), (221, 3100), (224, 3109), (229, 3160), (230, 3163), (238, 3223), (240, 3229), (254, 3307), (260, 3340), (263, 3352), (274, 3391), (279, 3415), (309, 3577),

Gene: SassyB_3 Start: 2255, Stop: 3625, Start Num: 44
Candidate Starts for SassyB_3:

(Start: 44 @2255 has 159 MA's), (Start: 53 @2291 has 9 MA's), (Start: 57 @2315 has 1 MA's), (58, 2324), (59, 2330), (60, 2333), (64, 2372), (78, 2438), (79, 2441), (89, 2510), (97, 2549), (99, 2558), (109, 2606), (118, 2666), (128, 2714), (140, 2759), (163, 2804), (168, 2831), (175, 2876), (180, 2897), (181, 2900), (182, 2903), (186, 2924), (188, 2933), (197, 2984), (198, 2987), (201, 2996), (207, 3026), (211, 3047), (221, 3116), (224, 3125), (229, 3176), (230, 3179), (236, 3233), (238, 3239), (240, 3245), (260, 3356), (263, 3368), (272, 3401), (274, 3407), (279, 3431), (303, 3575), (309, 3593),

Gene: Scottish_3 Start: 2239, Stop: 3609, Start Num: 44
Candidate Starts for Scottish_3:
(Start: 44 @2239 has 159 MA's), (Start: 53 @2275 has 9 MA's), (Start: 57 @2299 has 1 MA's), (58, 2308), (59, 2314), (60, 2317), (64, 2356), (78, 2422), (79, 2425), (89, 2494), (97, 2533), (99, 2542), (109, 2590), (118, 2650), (128, 2698), (140, 2743), (163, 2788), (168, 2815), (175, 2860), (180, 2881), (181, 2884), (182, 2887), (186, 2908), (188, 2917), (197, 2968), (198, 2971), (201, 2980), (207, 3010), (211, 3031), (221, 3100), (224, 3109), (229, 3160), (230, 3163), (238, 3223), (240, 3229), (254, 3307), (260, 3340), (263, 3352), (274, 3391), (279, 3415), (309, 3577),

Gene: Scuba_34 Start: 14742, Stop: 16319, Start Num: 29
Candidate Starts for Scuba_34:
(Start: 29 @14742 has 8 MA's), (31, 14748), (32, 14751), (41, 14778), (54, 14829), (97, 15096), (134, 15306), (148, 15354), (193, 15558), (198, 15573), (203, 15588), (220, 15669), (223, 15699), (231, 15765), (233, 15777), (236, 15810), (256, 15909), (260, 15933), (262, 15942), (271, 15978), (275, 15993), (277, 16002), (292, 16086), (299, 16134), (300, 16140),

Gene: SeaLumen_3 Start: 2272, Stop: 3597, Start Num: 52
Candidate Starts for SeaLumen_3:
(Start: 44 @2239 has 159 MA's), (Start: 52 @2272 has 2 MA's), (Start: 57 @2299 has 1 MA's), (58, 2308), (59, 2314), (60, 2317), (64, 2356), (77, 2419), (78, 2422), (79, 2425), (89, 2494), (91, 2500), (97, 2533), (99, 2542), (109, 2590), (118, 2650), (123, 2671), (128, 2698), (140, 2743), (163, 2788), (168, 2815), (175, 2860), (180, 2881), (181, 2884), (182, 2887), (186, 2908), (188, 2917), (197, 2968), (198, 2971), (201, 2980), (207, 3010), (211, 3031), (221, 3100), (224, 3109), (229, 3160), (230, 3163), (238, 3223), (240, 3229), (254, 3307), (260, 3340), (263, 3352), (272, 3385), (274, 3391), (279, 3415), (303, 3559),

Gene: Seabastian_3 Start: 2249, Stop: 3607, Start Num: 44
Candidate Starts for Seabastian_3:
(Start: 44 @2249 has 159 MA's), (Start: 52 @2282 has 2 MA's), (Start: 57 @2309 has 1 MA's), (58, 2318), (59, 2324), (60, 2327), (64, 2366), (78, 2432), (79, 2435), (89, 2504), (91, 2510), (97, 2543), (99, 2552), (109, 2600), (118, 2660), (128, 2708), (140, 2753), (163, 2798), (168, 2825), (175, 2870), (180, 2891), (181, 2894), (182, 2897), (186, 2918), (188, 2927), (197, 2978), (198, 2981), (201, 2990), (207, 3020), (211, 3041), (221, 3110), (224, 3119), (229, 3170), (230, 3173), (236, 3227), (238, 3233), (240, 3239), (254, 3317), (260, 3350), (263, 3362), (272, 3395), (274, 3401), (279, 3425), (303, 3569),

Gene: Shauna1_3 Start: 2255, Stop: 3625, Start Num: 44
Candidate Starts for Shauna1_3:
(Start: 44 @2255 has 159 MA's), (Start: 53 @2291 has 9 MA's), (Start: 57 @2315 has 1 MA's), (58, 2324), (59, 2330), (60, 2333), (64, 2372), (78, 2438), (79, 2441), (89, 2510), (97, 2549), (99, 2558), (109, 2606), (118, 2666), (128, 2714), (140, 2759), (163, 2804), (168, 2831), (175, 2876), (180, 2897), (181, 2900), (182, 2903), (186, 2924), (188, 2933), (197, 2984), (198, 2987), (201, 2996), (207, 3026), (211, 3047), (221, 3116), (224, 3125), (229, 3176), (230, 3179), (236, 3233), (238, 3239), (240, 3245), (251, 3302), (260, 3356), (263, 3368), (272, 3401), (274, 3407), (279, 3431), (303, 3575), (309, 3593),

Gene: ShiLan_3 Start: 2240, Stop: 3610, Start Num: 44
Candidate Starts for ShiLan_3:

(Start: 44 @2240 has 159 MA's), (Start: 53 @2276 has 9 MA's), (Start: 57 @2300 has 1 MA's), (58, 2309), (59, 2315), (60, 2318), (64, 2357), (78, 2423), (79, 2426), (89, 2495), (97, 2534), (99, 2543), (109, 2591), (118, 2651), (128, 2699), (140, 2744), (163, 2789), (168, 2816), (175, 2861), (180, 2882), (181, 2885), (182, 2888), (186, 2909), (188, 2918), (197, 2969), (198, 2972), (201, 2981), (207, 3011), (211, 3032), (221, 3101), (224, 3110), (229, 3161), (230, 3164), (238, 3224), (240, 3230), (254, 3308), (260, 3341), (263, 3353), (274, 3392), (279, 3416), (309, 3578),

Gene: ShowerHandel_3 Start: 2241, Stop: 3611, Start Num: 44
Candidate Starts for ShowerHandel_3:
(Start: 44 @2241 has 159 MA's), (Start: 53 @2277 has 9 MA's), (Start: 57 @2301 has 1 MA's), (58, 2310), (59, 2316), (60, 2319), (64, 2358), (78, 2424), (79, 2427), (89, 2496), (97, 2535), (99, 2544), (109, 2592), (118, 2652), (128, 2700), (140, 2745), (163, 2790), (168, 2817), (175, 2862), (180, 2883), (181, 2886), (182, 2889), (186, 2910), (188, 2919), (197, 2970), (198, 2973), (201, 2982), (207, 3012), (211, 3033), (221, 3102), (224, 3111), (229, 3162), (230, 3165), (238, 3225), (240, 3231), (254, 3309), (260, 3342), (263, 3354), (274, 3393), (279, 3417), (309, 3579),

Gene: ShroomBoi_3 Start: 2255, Stop: 3625, Start Num: 44
Candidate Starts for ShroomBoi_3:
(Start: 44 @2255 has 159 MA's), (Start: 53 @2291 has 9 MA's), (Start: 57 @2315 has 1 MA's), (58, 2324), (59, 2330), (60, 2333), (64, 2372), (78, 2438), (79, 2441), (89, 2510), (97, 2549), (99, 2558), (109, 2606), (118, 2666), (128, 2714), (140, 2759), (163, 2804), (168, 2831), (175, 2876), (181, 2900), (182, 2903), (186, 2924), (188, 2933), (197, 2984), (198, 2987), (201, 2996), (207, 3026), (211, 3047), (221, 3116), (224, 3125), (229, 3176), (230, 3179), (236, 3233), (238, 3239), (239, 3242), (240, 3245), (251, 3302), (260, 3356), (263, 3368), (272, 3401), (274, 3407), (279, 3431), (303, 3575), (309, 3593),

Gene: SiSi_3 Start: 2240, Stop: 3610, Start Num: 44
Candidate Starts for SiSi_3:
(Start: 44 @2240 has 159 MA's), (Start: 53 @2276 has 9 MA's), (Start: 57 @2300 has 1 MA's), (58, 2309), (59, 2315), (60, 2318), (64, 2357), (78, 2423), (79, 2426), (89, 2495), (97, 2534), (99, 2543), (109, 2591), (118, 2651), (128, 2699), (140, 2744), (163, 2789), (168, 2816), (175, 2861), (180, 2882), (181, 2885), (182, 2888), (186, 2909), (188, 2918), (197, 2969), (198, 2972), (201, 2981), (207, 3011), (211, 3032), (221, 3101), (224, 3110), (229, 3161), (230, 3164), (234, 3194), (236, 3218), (238, 3224), (240, 3230), (254, 3308), (260, 3341), (263, 3353), (274, 3392), (279, 3416), (303, 3560), (309, 3578),

Gene: Skysand_27 Start: 14990, Stop: 16573, Start Num: 28
Candidate Starts for Skysand_27:
(Start: 28 @14990 has 6 MA's), (32, 14999), (54, 15077), (97, 15344), (113, 15458), (178, 15728), (193, 15812), (198, 15827), (203, 15842), (220, 15923), (233, 16031), (236, 16064), (256, 16163), (260, 16187), (262, 16196), (277, 16256), (289, 16322), (292, 16340), (293, 16349), (300, 16394), (302, 16409),

Gene: Smoothie_32 Start: 10444, Stop: 12060, Start Num: 22
Candidate Starts for Smoothie_32:
(Start: 22 @10444 has 25 MA's), (42, 10495), (45, 10504), (Start: 57 @10564 has 1 MA's), (64, 10621), (71, 10657), (82, 10702), (86, 10729), (117, 10933), (124, 10963), (131, 10999), (142, 11044), (146, 11053), (149, 11068), (180, 11206), (181, 11209), (184, 11227), (186, 11233), (192, 11275), (223, 11467), (234, 11554), (238, 11584), (247, 11629), (256, 11677), (258, 11692), (275, 11755), (279, 11779), (280, 11785), (282, 11794), (295, 11863), (303, 11914), (304, 11917), (306, 11929),

Gene: Snorlax_7 Start: 4055, Stop: 5491, Start Num: 43
Candidate Starts for Snorlax_7:
(Start: 39 @4049 has 4 MA's), (Start: 43 @4055 has 102 MA's), (49, 4079), (55, 4103), (63, 4172), (69, 4220), (73, 4232), (81, 4271), (107, 4424), (130, 4538), (143, 4580), (150, 4607), (156, 4640), (158,

4646), (175, 4736), (178, 4748), (191, 4823), (196, 4841), (220, 4919), (225, 4964), (232, 5021), (273, 5234), (278, 5258), (301, 5390), (313, 5456), (318, 5477),

Gene: South40_8 Start: 4327, Stop: 5763, Start Num: 43
Candidate Starts for South40_8:
(37, 4318), (Start: 39 @4321 has 4 MA's), (Start: 43 @4327 has 102 MA's), (49, 4351), (55, 4375), (63, 4444), (69, 4492), (76, 4516), (81, 4543), (107, 4696), (130, 4810), (143, 4852), (147, 4864), (150, 4879), (158, 4918), (175, 5008), (178, 5020), (196, 5113), (220, 5191), (225, 5236), (232, 5293), (278, 5530), (318, 5749),

Gene: Sparkdehlily_3 Start: 2256, Stop: 3626, Start Num: 44
Candidate Starts for Sparkdehlily_3:
(Start: 44 @2256 has 159 MA's), (Start: 53 @2292 has 9 MA's), (Start: 57 @2316 has 1 MA's), (58, 2325), (59, 2331), (60, 2334), (64, 2373), (78, 2439), (79, 2442), (89, 2511), (97, 2550), (99, 2559), (109, 2607), (118, 2667), (128, 2715), (140, 2760), (163, 2805), (168, 2832), (175, 2877), (180, 2898), (181, 2901), (182, 2904), (186, 2925), (188, 2934), (197, 2985), (198, 2988), (201, 2997), (207, 3027), (211, 3048), (221, 3117), (224, 3126), (229, 3177), (230, 3180), (236, 3234), (238, 3240), (239, 3243), (240, 3246), (251, 3303), (260, 3357), (263, 3369), (272, 3402), (274, 3408), (279, 3432), (303, 3576), (309, 3594),

Gene: Spartacus_3 Start: 2243, Stop: 3613, Start Num: 44
Candidate Starts for Spartacus_3:
(Start: 44 @2243 has 159 MA's), (Start: 53 @2279 has 9 MA's), (Start: 57 @2303 has 1 MA's), (58, 2312), (59, 2318), (60, 2321), (64, 2360), (78, 2426), (79, 2429), (89, 2498), (97, 2537), (99, 2546), (109, 2594), (118, 2654), (128, 2702), (140, 2747), (163, 2792), (168, 2819), (175, 2864), (180, 2885), (181, 2888), (182, 2891), (186, 2912), (188, 2921), (197, 2972), (198, 2975), (201, 2984), (207, 3014), (211, 3035), (221, 3104), (224, 3113), (229, 3164), (230, 3167), (238, 3227), (240, 3233), (260, 3344), (263, 3356), (272, 3389), (274, 3395), (279, 3419), (309, 3581),

Gene: SpeedDemon_140 Start: 8140, Stop: 9699, Start Num: 22
Candidate Starts for SpeedDemon_140:
(4, 7426), (5, 7432), (6, 7645), (10, 7774), (13, 7834), (14, 7837), (Start: 22 @8140 has 25 MA's), (71, 8356), (82, 8401), (99, 8506), (117, 8605), (118, 8608), (124, 8635), (139, 8704), (174, 8839), (180, 8872), (181, 8875), (186, 8899), (194, 8950), (216, 9070), (225, 9145), (233, 9208), (238, 9247), (248, 9295), (253, 9319), (265, 9382), (281, 9454), (283, 9469), (295, 9526), (301, 9565), (303, 9577), (304, 9580), (307, 9595), (310, 9604),

Gene: Speedwell_8 Start: 4147, Stop: 5580, Start Num: 43
Candidate Starts for Speedwell_8:
(Start: 43 @4147 has 102 MA's), (63, 4264), (69, 4312), (73, 4324), (150, 4699), (157, 4732), (159, 4738), (178, 4837), (191, 4912), (196, 4930), (213, 4969), (220, 5005), (225, 5050), (232, 5107), (268, 5299), (278, 5344), (301, 5476),

Gene: Spoonbill_3 Start: 2240, Stop: 3610, Start Num: 44
Candidate Starts for Spoonbill_3:
(Start: 44 @2240 has 159 MA's), (Start: 53 @2276 has 9 MA's), (Start: 57 @2300 has 1 MA's), (58, 2309), (59, 2315), (60, 2318), (64, 2357), (78, 2423), (79, 2426), (89, 2495), (97, 2534), (99, 2543), (109, 2591), (118, 2651), (128, 2699), (140, 2744), (163, 2789), (168, 2816), (175, 2861), (180, 2882), (181, 2885), (182, 2888), (186, 2909), (188, 2918), (197, 2969), (198, 2972), (201, 2981), (207, 3011), (211, 3032), (221, 3101), (224, 3110), (229, 3161), (230, 3164), (238, 3224), (240, 3230), (254, 3308), (260, 3341), (263, 3353), (274, 3392), (279, 3416), (309, 3578),

Gene: SqueakyClean_8 Start: 4130, Stop: 5617, Start Num: 43

Candidate Starts for SqueakyClean_8:
(Start: 43 @4130 has 102 MA's), (63, 4247), (81, 4346), (90, 4400), (97, 4439), (143, 4652), (178, 4820), (191, 4895), (193, 4904), (196, 4913), (202, 4931), (204, 4937), (225, 5078), (231, 5129), (232, 5135), (278, 5372), (295, 5471), (301, 5504), (318, 5603),

Gene: StAnnes_3 Start: 2255, Stop: 3625, Start Num: 44
Candidate Starts for StAnnes_3:
(Start: 44 @2255 has 159 MA's), (Start: 53 @2291 has 9 MA's), (Start: 57 @2315 has 1 MA's), (58, 2324), (59, 2330), (60, 2333), (64, 2372), (78, 2438), (79, 2441), (89, 2510), (97, 2549), (99, 2558), (109, 2606), (118, 2666), (128, 2714), (140, 2759), (163, 2804), (168, 2831), (175, 2876), (180, 2897), (181, 2900), (182, 2903), (186, 2924), (188, 2933), (197, 2984), (198, 2987), (201, 2996), (207, 3026), (211, 3047), (221, 3116), (224, 3125), (229, 3176), (230, 3179), (236, 3233), (238, 3239), (239, 3242), (240, 3245), (251, 3302), (260, 3356), (263, 3368), (272, 3401), (274, 3407), (279, 3431), (303, 3575), (309, 3593),

Gene: StarStruck_26 Start: 14578, Stop: 16155, Start Num: 30
Candidate Starts for StarStruck_26:
(Start: 30 @14578 has 23 MA's), (32, 14584), (36, 14602), (54, 14662), (85, 14854), (97, 14932), (102, 14956), (137, 15157), (148, 15190), (173, 15277), (178, 15310), (199, 15412), (203, 15424), (220, 15505), (236, 15646), (256, 15745), (260, 15769), (262, 15778), (277, 15838), (287, 15898), (292, 15922), (293, 15931),

Gene: Stickynote_15 Start: 9569, Stop: 11131, Start Num: 34
Candidate Starts for Stickynote_15:
(Start: 29 @9554 has 8 MA's), (Start: 34 @9569 has 6 MA's), (51, 9632), (56, 9653), (61, 9695), (68, 9755), (70, 9764), (73, 9773), (97, 9908), (115, 10028), (116, 10034), (127, 10097), (129, 10103), (162, 10217), (167, 10238), (176, 10292), (180, 10316), (193, 10391), (198, 10406), (203, 10421), (221, 10526), (224, 10535), (236, 10643), (263, 10775), (278, 10838), (284, 10883), (294, 10928), (295, 10934), (298, 10961), (300, 10970), (302, 10985), (319, 11069),

Gene: Strokeseat_3 Start: 2240, Stop: 3598, Start Num: 44
Candidate Starts for Strokeseat_3:
(Start: 44 @2240 has 159 MA's), (Start: 52 @2273 has 2 MA's), (Start: 57 @2300 has 1 MA's), (58, 2309), (59, 2315), (60, 2318), (64, 2357), (77, 2420), (78, 2423), (79, 2426), (89, 2495), (91, 2501), (97, 2534), (99, 2543), (109, 2591), (118, 2651), (123, 2672), (128, 2699), (140, 2744), (163, 2789), (168, 2816), (175, 2861), (180, 2882), (181, 2885), (182, 2888), (186, 2909), (188, 2918), (197, 2969), (198, 2972), (201, 2981), (207, 3011), (211, 3032), (221, 3101), (224, 3110), (229, 3161), (230, 3164), (238, 3224), (240, 3230), (254, 3308), (260, 3341), (263, 3353), (272, 3386), (274, 3392), (279, 3416), (303, 3560),

Gene: Sudan_8 Start: 4182, Stop: 5615, Start Num: 43
Candidate Starts for Sudan_8:
(Start: 43 @4182 has 102 MA's), (63, 4299), (69, 4347), (73, 4359), (117, 4602), (138, 4689), (155, 4749), (157, 4767), (159, 4773), (178, 4872), (191, 4947), (196, 4965), (213, 5004), (220, 5040), (232, 5142), (260, 5304), (265, 5322), (278, 5379), (287, 5436), (293, 5469), (301, 5511), (313, 5577), (318, 5601),

Gene: Sujidade_8 Start: 4351, Stop: 5787, Start Num: 43
Candidate Starts for Sujidade_8:
(Start: 39 @4345 has 4 MA's), (Start: 43 @4351 has 102 MA's), (49, 4375), (55, 4399), (63, 4468), (69, 4516), (81, 4567), (113, 4750), (130, 4834), (143, 4876), (175, 5032), (178, 5044), (196, 5137), (220, 5215), (225, 5260), (232, 5317), (273, 5530), (278, 5554), (318, 5773),

Gene: Sukkupi_27 Start: 13681, Stop: 15303, Start Num: 18
Candidate Starts for Sukkupi_27:
(Start: 18 @13681 has 7 MA's), (Start: 30 @13726 has 23 MA's), (36, 13750), (41, 13759), (161, 14365), (170, 14410), (193, 14542), (203, 14572), (220, 14653), (231, 14749), (235, 14779), (236, 14794), (260, 14917), (262, 14926), (271, 14962), (277, 14986), (289, 15052), (292, 15070), (293, 15079), (300, 15124),

Gene: SunkenRoot_9 Start: 4245, Stop: 5678, Start Num: 43
Candidate Starts for SunkenRoot_9:
(Start: 43 @4245 has 102 MA's), (63, 4362), (69, 4410), (73, 4422), (117, 4665), (138, 4752), (157, 4830), (159, 4836), (178, 4935), (191, 5010), (196, 5028), (213, 5067), (220, 5103), (232, 5205), (260, 5367), (265, 5385), (278, 5442), (301, 5574), (306, 5604), (318, 5664),

Gene: SunsetPointe_7 Start: 4080, Stop: 5522, Start Num: 43
Candidate Starts for SunsetPointe_7:
(37, 4071), (Start: 39 @4074 has 4 MA's), (Start: 43 @4080 has 102 MA's), (63, 4197), (69, 4245), (130, 4563), (143, 4605), (150, 4632), (156, 4665), (175, 4758), (178, 4770), (196, 4863), (220, 4941), (225, 4986), (232, 5043), (235, 5067), (278, 5280), (318, 5508),

Gene: SuperGrey_3 Start: 2255, Stop: 3625, Start Num: 44
Candidate Starts for SuperGrey_3:
(Start: 44 @2255 has 159 MA's), (Start: 57 @2315 has 1 MA's), (58, 2324), (59, 2330), (60, 2333), (64, 2372), (77, 2435), (78, 2438), (89, 2510), (97, 2549), (99, 2558), (109, 2606), (118, 2666), (128, 2714), (140, 2759), (163, 2804), (168, 2831), (175, 2876), (180, 2897), (181, 2900), (182, 2903), (186, 2924), (188, 2933), (197, 2984), (198, 2987), (201, 2996), (207, 3026), (211, 3047), (221, 3116), (224, 3125), (229, 3176), (230, 3179), (236, 3233), (238, 3239), (240, 3245), (254, 3323), (260, 3356), (263, 3368), (274, 3407), (279, 3431), (303, 3575), (309, 3593),

Gene: SuperSulley_26 Start: 14757, Stop: 16334, Start Num: 30
Candidate Starts for SuperSulley_26:
(Start: 30 @14757 has 23 MA's), (32, 14763), (35, 14778), (36, 14781), (85, 15033), (97, 15111), (102, 15135), (137, 15336), (148, 15369), (161, 15396), (173, 15456), (199, 15591), (203, 15603), (220, 15684), (231, 15780), (236, 15825), (256, 15924), (260, 15948), (262, 15957), (277, 16017), (287, 16077), (290, 16089), (292, 16101), (293, 16110), (299, 16149),

Gene: Superstar_9 Start: 4995, Stop: 6473, Start Num: 43
Candidate Starts for Superstar_9:
(Start: 43 @4995 has 102 MA's), (63, 5112), (73, 5172), (81, 5211), (97, 5304), (143, 5517), (150, 5544), (174, 5664), (175, 5670), (178, 5682), (191, 5757), (196, 5775), (200, 5787), (202, 5793), (225, 5940), (232, 5997), (239, 6045), (265, 6177), (278, 6234), (291, 6312), (293, 6324), (301, 6366), (318, 6459),

Gene: SwagPigglett_3 Start: 2241, Stop: 3611, Start Num: 44
Candidate Starts for SwagPigglett_3:
(Start: 44 @2241 has 159 MA's), (Start: 53 @2277 has 9 MA's), (Start: 57 @2301 has 1 MA's), (58, 2310), (59, 2316), (60, 2319), (64, 2358), (78, 2424), (79, 2427), (89, 2496), (97, 2535), (99, 2544), (109, 2592), (118, 2652), (128, 2700), (140, 2745), (163, 2790), (168, 2817), (175, 2862), (180, 2883), (181, 2886), (182, 2889), (186, 2910), (188, 2919), (197, 2970), (198, 2973), (201, 2982), (207, 3012), (211, 3033), (221, 3102), (224, 3111), (229, 3162), (230, 3165), (238, 3225), (240, 3231), (254, 3309), (260, 3342), (263, 3354), (274, 3393), (279, 3417), (309, 3579),

Gene: TDanisky_3 Start: 2256, Stop: 3626, Start Num: 44
Candidate Starts for TDanisky_3:

(Start: 44 @2256 has 159 MA's), (Start: 53 @2292 has 9 MA's), (Start: 57 @2316 has 1 MA's), (58, 2325), (59, 2331), (60, 2334), (64, 2373), (78, 2439), (79, 2442), (89, 2511), (97, 2550), (99, 2559), (109, 2607), (118, 2667), (128, 2715), (140, 2760), (163, 2805), (168, 2832), (175, 2877), (180, 2898), (181, 2901), (182, 2904), (186, 2925), (188, 2934), (197, 2985), (198, 2988), (201, 2997), (207, 3027), (211, 3048), (221, 3117), (224, 3126), (229, 3177), (230, 3180), (236, 3234), (238, 3240), (239, 3243), (240, 3246), (251, 3303), (260, 3357), (263, 3369), (272, 3402), (274, 3408), (279, 3432), (303, 3576), (309, 3594),

Gene: TagePhighter_8 Start: 4055, Stop: 5491, Start Num: 43
Candidate Starts for TagePhighter_8:
(Start: 39 @4049 has 4 MA's), (Start: 43 @4055 has 102 MA's), (49, 4079), (55, 4103), (63, 4172), (69, 4220), (73, 4232), (81, 4271), (107, 4424), (130, 4538), (143, 4580), (156, 4640), (158, 4646), (175, 4736), (178, 4748), (191, 4823), (196, 4841), (220, 4919), (225, 4964), (232, 5021), (273, 5234), (278, 5258), (301, 5390), (313, 5456), (318, 5477),

Gene: Taj_3 Start: 2255, Stop: 3625, Start Num: 44
Candidate Starts for Taj_3:
(Start: 44 @2255 has 159 MA's), (Start: 53 @2291 has 9 MA's), (Start: 57 @2315 has 1 MA's), (58, 2324), (59, 2330), (60, 2333), (64, 2372), (78, 2438), (79, 2441), (89, 2510), (97, 2549), (99, 2558), (109, 2606), (118, 2666), (128, 2714), (140, 2759), (163, 2804), (168, 2831), (175, 2876), (180, 2897), (181, 2900), (182, 2903), (186, 2924), (188, 2933), (197, 2984), (198, 2987), (201, 2996), (207, 3026), (211, 3047), (221, 3116), (224, 3125), (229, 3176), (230, 3179), (236, 3233), (238, 3239), (240, 3245), (260, 3356), (263, 3368), (272, 3401), (274, 3407), (279, 3431), (303, 3575), (309, 3593),

Gene: Tefunt_7 Start: 3857, Stop: 5332, Start Num: 43
Candidate Starts for Tefunt_7:
(Start: 43 @3857 has 102 MA's), (63, 3974), (81, 4073), (97, 4166), (156, 4439), (178, 4544), (191, 4619), (196, 4637), (200, 4649), (202, 4655), (225, 4802), (231, 4853), (232, 4859), (239, 4907), (265, 5039), (278, 5096), (293, 5186), (318, 5318),

Gene: Thestral_8 Start: 3928, Stop: 5409, Start Num: 43
Candidate Starts for Thestral_8:
(Start: 43 @3928 has 102 MA's), (63, 4045), (69, 4093), (73, 4105), (81, 4144), (97, 4237), (101, 4258), (143, 4450), (150, 4477), (178, 4615), (191, 4690), (196, 4708), (202, 4726), (205, 4735), (221, 4852), (225, 4873), (232, 4930), (239, 4978), (265, 5110), (278, 5167), (293, 5257), (295, 5266), (318, 5395),

Gene: TinaBelcher_7 Start: 3879, Stop: 5354, Start Num: 43
Candidate Starts for TinaBelcher_7:
(Start: 43 @3879 has 102 MA's), (63, 3996), (69, 4044), (73, 4056), (81, 4095), (97, 4188), (101, 4209), (143, 4401), (150, 4428), (178, 4566), (187, 4608), (191, 4641), (196, 4659), (202, 4677), (205, 4686), (225, 4824), (232, 4881), (239, 4929), (265, 5061), (278, 5118), (293, 5208), (295, 5217), (315, 5322), (318, 5340),

Gene: Toma_7 Start: 4056, Stop: 5492, Start Num: 43
Candidate Starts for Toma_7:
(Start: 39 @4050 has 4 MA's), (Start: 43 @4056 has 102 MA's), (49, 4080), (55, 4104), (63, 4173), (69, 4221), (81, 4272), (113, 4455), (130, 4539), (143, 4581), (175, 4737), (178, 4749), (196, 4842), (220, 4920), (225, 4965), (232, 5022), (273, 5235), (278, 5259), (318, 5478),

Gene: Toniann_31 Start: 10389, Stop: 12005, Start Num: 22
Candidate Starts for Toniann_31:
(Start: 22 @10389 has 25 MA's), (42, 10440), (45, 10449), (Start: 57 @10509 has 1 MA's), (64, 10566), (71, 10602), (82, 10647), (86, 10674), (117, 10878), (124, 10908), (131, 10944), (142, 10989), (146,

10998), (149, 11013), (180, 11151), (181, 11154), (184, 11172), (186, 11178), (192, 11220), (223, 11412), (234, 11499), (238, 11529), (247, 11574), (256, 11622), (258, 11637), (275, 11700), (279, 11724), (280, 11730), (282, 11739), (295, 11808), (303, 11859), (304, 11862), (306, 11874),

Gene: Topiatin_5 Start: 2903, Stop: 4273, Start Num: 44
Candidate Starts for Topiatin_5:
(Start: 44 @2903 has 159 MA's), (Start: 53 @2939 has 9 MA's), (Start: 57 @2963 has 1 MA's), (58, 2972), (59, 2978), (60, 2981), (64, 3020), (78, 3086), (79, 3089), (89, 3158), (97, 3197), (99, 3206), (109, 3254), (118, 3314), (128, 3362), (140, 3407), (163, 3452), (168, 3479), (175, 3524), (180, 3545), (181, 3548), (182, 3551), (186, 3572), (188, 3581), (197, 3632), (198, 3635), (201, 3644), (207, 3674), (211, 3695), (221, 3764), (224, 3773), (229, 3824), (230, 3827), (238, 3887), (240, 3893), (254, 3971), (260, 4004), (263, 4016), (274, 4055), (279, 4079), (309, 4241),

Gene: Towmatter_12 Start: 6567, Stop: 8132, Start Num: 22
Candidate Starts for Towmatter_12:
(Start: 22 @6567 has 25 MA's), (42, 6618), (71, 6783), (82, 6828), (93, 6903), (94, 6906), (99, 6933), (112, 7014), (117, 7032), (118, 7035), (136, 7113), (142, 7143), (174, 7266), (186, 7326), (198, 7389), (216, 7497), (233, 7635), (238, 7674), (248, 7722), (253, 7746), (265, 7809), (288, 7914), (295, 7953), (303, 8004), (304, 8007), (306, 8019),

Gene: Tracker_25 Start: 13700, Stop: 15289, Start Num: 30
Candidate Starts for Tracker_25:
(Start: 30 @13700 has 23 MA's), (32, 13706), (35, 13721), (Start: 40 @13730 has 1 MA's), (54, 13784), (85, 13976), (97, 14054), (102, 14078), (105, 14108), (148, 14312), (161, 14339), (167, 14366), (181, 14456), (193, 14528), (198, 14543), (203, 14558), (220, 14639), (236, 14780), (256, 14879), (258, 14894), (260, 14903), (262, 14912), (271, 14948), (277, 14972), (292, 15056), (293, 15065), (300, 15110),

Gene: Triste_7 Start: 4056, Stop: 5492, Start Num: 43
Candidate Starts for Triste_7:
(Start: 39 @4050 has 4 MA's), (Start: 43 @4056 has 102 MA's), (49, 4080), (55, 4104), (63, 4173), (69, 4221), (73, 4233), (81, 4272), (107, 4425), (130, 4539), (143, 4581), (150, 4608), (156, 4641), (175, 4737), (178, 4749), (191, 4824), (196, 4842), (220, 4920), (225, 4965), (232, 5022), (273, 5235), (278, 5259), (301, 5391), (313, 5457), (318, 5478),

Gene: Triumph_9 Start: 3896, Stop: 5380, Start Num: 43
Candidate Starts for Triumph_9:
(Start: 43 @3896 has 102 MA's), (63, 4013), (73, 4073), (81, 4112), (97, 4205), (131, 4379), (143, 4418), (156, 4478), (174, 4565), (175, 4571), (178, 4583), (191, 4658), (196, 4676), (200, 4688), (202, 4694), (225, 4841), (231, 4892), (232, 4898), (244, 4967), (278, 5135), (295, 5234), (301, 5267), (310, 5309), (315, 5342), (318, 5366),

Gene: TrvxScott_6 Start: 3880, Stop: 5355, Start Num: 43
Candidate Starts for TrvxScott_6:
(Start: 43 @3880 has 102 MA's), (63, 3997), (69, 4045), (73, 4057), (81, 4096), (97, 4189), (101, 4210), (143, 4402), (150, 4429), (178, 4567), (191, 4642), (196, 4660), (202, 4678), (205, 4687), (225, 4825), (232, 4882), (265, 5062), (278, 5119), (293, 5209), (295, 5218), (315, 5323), (318, 5341),

Gene: TuanPN_7 Start: 4059, Stop: 5495, Start Num: 43
Candidate Starts for TuanPN_7:
(Start: 39 @4053 has 4 MA's), (Start: 43 @4059 has 102 MA's), (49, 4083), (55, 4107), (63, 4176), (69, 4224), (73, 4236), (81, 4275), (107, 4428), (113, 4458), (130, 4542), (143, 4584), (156, 4644), (158, 4650), (175, 4740), (178, 4752), (191, 4827), (196, 4845), (220, 4923), (225, 4968), (232, 5025), (273,

5238), (278, 5262), (301, 5394), (318, 5481),

Gene: Turuncu_29 Start: 15070, Stop: 16647, Start Num: 29
Candidate Starts for Turuncu_29:
(Start: 29 @15070 has 8 MA's), (85, 15346), (148, 15682), (173, 15769), (193, 15886), (203, 15916), (220, 15997), (236, 16138), (256, 16237), (260, 16261), (262, 16270), (271, 16306), (277, 16330), (292, 16414), (293, 16423), (300, 16468),

Gene: Tweety_3 Start: 2255, Stop: 3625, Start Num: 44
Candidate Starts for Tweety_3:
(Start: 44 @2255 has 159 MA's), (Start: 53 @2291 has 9 MA's), (Start: 57 @2315 has 1 MA's), (58, 2324), (59, 2330), (60, 2333), (64, 2372), (78, 2438), (79, 2441), (89, 2510), (97, 2549), (99, 2558), (109, 2606), (118, 2666), (128, 2714), (140, 2759), (163, 2804), (168, 2831), (175, 2876), (180, 2897), (181, 2900), (182, 2903), (186, 2924), (188, 2933), (197, 2984), (198, 2987), (201, 2996), (207, 3026), (211, 3047), (221, 3116), (224, 3125), (229, 3176), (230, 3179), (236, 3233), (238, 3239), (240, 3245), (254, 3323), (260, 3356), (263, 3368), (274, 3407), (279, 3431), (303, 3575), (309, 3593),

Gene: Unstoppable_7 Start: 4081, Stop: 5523, Start Num: 43
Candidate Starts for Unstoppable_7:
(37, 4072), (Start: 39 @4075 has 4 MA's), (Start: 43 @4081 has 102 MA's), (63, 4198), (69, 4246), (130, 4564), (143, 4606), (150, 4633), (156, 4666), (175, 4759), (178, 4771), (196, 4864), (220, 4942), (225, 4987), (232, 5044), (235, 5068), (278, 5281), (318, 5509),

Gene: Urza_7 Start: 4278, Stop: 5753, Start Num: 43
Candidate Starts for Urza_7:
(7, 3741), (12, 3885), (Start: 43 @4278 has 102 MA's), (Start: 48 @4299 has 1 MA's), (63, 4395), (73, 4455), (97, 4587), (101, 4608), (106, 4644), (143, 4806), (155, 4848), (172, 4932), (178, 4971), (189, 5019), (191, 5046), (196, 5064), (204, 5088), (205, 5091), (207, 5109), (212, 5145), (220, 5184), (225, 5229), (232, 5286), (235, 5310), (278, 5523), (293, 5613), (301, 5655),

Gene: VRedHorse_3 Start: 2240, Stop: 3610, Start Num: 44
Candidate Starts for VRedHorse_3:
(Start: 44 @2240 has 159 MA's), (Start: 52 @2273 has 2 MA's), (Start: 57 @2300 has 1 MA's), (58, 2309), (59, 2315), (60, 2318), (64, 2357), (77, 2420), (78, 2423), (79, 2426), (89, 2495), (91, 2501), (97, 2534), (99, 2543), (109, 2591), (118, 2651), (123, 2672), (128, 2699), (140, 2744), (163, 2789), (168, 2816), (175, 2861), (180, 2882), (181, 2885), (182, 2888), (186, 2909), (188, 2918), (197, 2969), (198, 2972), (201, 2981), (207, 3011), (211, 3032), (221, 3101), (224, 3110), (229, 3161), (230, 3164), (236, 3218), (238, 3224), (240, 3230), (254, 3308), (260, 3341), (263, 3353), (274, 3392), (279, 3416), (303, 3560), (309, 3578),

Gene: Vanseggelen_10 Start: 3797, Stop: 5233, Start Num: 43
Candidate Starts for Vanseggelen_10:
(Start: 43 @3797 has 102 MA's), (63, 3914), (69, 3962), (73, 3974), (101, 4130), (117, 4217), (157, 4385), (159, 4391), (168, 4430), (175, 4478), (178, 4490), (191, 4565), (196, 4583), (220, 4658), (232, 4760), (259, 4919), (260, 4922), (265, 4940), (268, 4952), (278, 4997), (287, 5054), (293, 5087), (301, 5129), (318, 5219),

Gene: Verabelle_8 Start: 4165, Stop: 5598, Start Num: 43
Candidate Starts for Verabelle_8:
(Start: 43 @4165 has 102 MA's), (63, 4282), (69, 4330), (73, 4342), (117, 4585), (157, 4750), (159, 4756), (175, 4843), (178, 4855), (191, 4930), (196, 4948), (220, 5023), (232, 5125), (235, 5149), (259, 5284), (260, 5287), (265, 5305), (268, 5317), (278, 5362), (287, 5419), (293, 5452), (301, 5494), (318, 5584),

Gene: Verse_7 Start: 4246, Stop: 5679, Start Num: 43
Candidate Starts for Verse_7:
(Start: 43 @4246 has 102 MA's), (63, 4363), (69, 4411), (73, 4423), (117, 4666), (138, 4753), (157, 4831), (178, 4936), (191, 5011), (196, 5029), (213, 5068), (220, 5104), (232, 5206), (260, 5368), (265, 5386), (278, 5443), (301, 5575), (306, 5605), (318, 5665),

Gene: Veteran_3 Start: 2256, Stop: 3626, Start Num: 44
Candidate Starts for Veteran_3:
(Start: 44 @2256 has 159 MA's), (Start: 52 @2289 has 2 MA's), (Start: 57 @2316 has 1 MA's), (58, 2325), (59, 2331), (60, 2334), (64, 2373), (77, 2436), (78, 2439), (79, 2442), (89, 2511), (91, 2517), (97, 2550), (99, 2559), (109, 2607), (118, 2667), (128, 2715), (140, 2760), (163, 2805), (168, 2832), (175, 2877), (180, 2898), (181, 2901), (182, 2904), (186, 2925), (188, 2934), (197, 2985), (198, 2988), (201, 2997), (207, 3027), (211, 3048), (221, 3117), (224, 3126), (229, 3177), (230, 3180), (238, 3240), (240, 3246), (254, 3324), (260, 3357), (263, 3369), (274, 3408), (279, 3432), (309, 3594),

Gene: VieEnRose_7 Start: 4373, Stop: 5827, Start Num: 48
Candidate Starts for VieEnRose_7:
(7, 3815), (12, 3959), (Start: 43 @4352 has 102 MA's), (Start: 48 @4373 has 1 MA's), (63, 4469), (73, 4529), (97, 4661), (101, 4682), (106, 4718), (143, 4880), (155, 4922), (172, 5006), (178, 5045), (189, 5093), (191, 5120), (196, 5138), (204, 5162), (205, 5165), (207, 5183), (212, 5219), (220, 5258), (225, 5303), (232, 5360), (235, 5384), (278, 5597), (293, 5687), (301, 5729),

Gene: Violac_3 Start: 2239, Stop: 3609, Start Num: 44
Candidate Starts for Violac_3:
(Start: 44 @2239 has 159 MA's), (Start: 52 @2272 has 2 MA's), (Start: 57 @2299 has 1 MA's), (58, 2308), (59, 2314), (60, 2317), (64, 2356), (77, 2419), (78, 2422), (79, 2425), (89, 2494), (91, 2500), (97, 2533), (99, 2542), (109, 2590), (118, 2650), (128, 2698), (140, 2743), (163, 2788), (168, 2815), (175, 2860), (180, 2881), (181, 2884), (182, 2887), (186, 2908), (188, 2917), (197, 2968), (198, 2971), (201, 2980), (207, 3010), (211, 3031), (221, 3100), (224, 3109), (229, 3160), (230, 3163), (238, 3223), (240, 3229), (260, 3340), (263, 3352), (272, 3385), (274, 3391), (279, 3415), (309, 3577),

Gene: Vivum_3 Start: 2240, Stop: 3610, Start Num: 44
Candidate Starts for Vivum_3:
(Start: 44 @2240 has 159 MA's), (Start: 52 @2273 has 2 MA's), (Start: 57 @2300 has 1 MA's), (58, 2309), (59, 2315), (60, 2318), (64, 2357), (78, 2423), (79, 2426), (89, 2495), (97, 2534), (99, 2543), (109, 2591), (118, 2651), (128, 2699), (140, 2744), (163, 2789), (168, 2816), (175, 2861), (180, 2882), (181, 2885), (182, 2888), (186, 2909), (188, 2918), (197, 2969), (198, 2972), (201, 2981), (207, 3011), (210, 3029), (211, 3032), (221, 3101), (224, 3110), (229, 3161), (230, 3164), (238, 3224), (240, 3230), (254, 3308), (260, 3341), (263, 3353), (274, 3392), (279, 3416), (309, 3578),

Gene: Wachhund_3 Start: 2240, Stop: 3598, Start Num: 44
Candidate Starts for Wachhund_3:
(Start: 44 @2240 has 159 MA's), (Start: 52 @2273 has 2 MA's), (Start: 57 @2300 has 1 MA's), (58, 2309), (59, 2315), (60, 2318), (64, 2357), (77, 2420), (78, 2423), (79, 2426), (89, 2495), (91, 2501), (97, 2534), (99, 2543), (109, 2591), (118, 2651), (123, 2672), (128, 2699), (140, 2744), (163, 2789), (168, 2816), (175, 2861), (180, 2882), (181, 2885), (182, 2888), (186, 2909), (188, 2918), (197, 2969), (198, 2972), (201, 2981), (207, 3011), (211, 3032), (221, 3101), (224, 3110), (229, 3161), (230, 3164), (234, 3194), (238, 3224), (240, 3230), (254, 3308), (260, 3341), (263, 3353), (272, 3386), (274, 3392), (279, 3416), (303, 3560),

Gene: Wee_3 Start: 2255, Stop: 3625, Start Num: 44
Candidate Starts for Wee_3:

(Start: 44 @2255 has 159 MA's), (Start: 53 @2291 has 9 MA's), (Start: 57 @2315 has 1 MA's), (58, 2324), (59, 2330), (60, 2333), (64, 2372), (78, 2438), (79, 2441), (89, 2510), (97, 2549), (99, 2558), (109, 2606), (118, 2666), (128, 2714), (140, 2759), (163, 2804), (168, 2831), (175, 2876), (180, 2897), (181, 2900), (182, 2903), (186, 2924), (188, 2933), (197, 2984), (198, 2987), (201, 2996), (207, 3026), (211, 3047), (221, 3116), (224, 3125), (229, 3176), (230, 3179), (236, 3233), (238, 3239), (240, 3245), (251, 3302), (260, 3356), (263, 3368), (272, 3401), (274, 3407), (279, 3431), (303, 3575), (309, 3593),

Gene: Werner_7 Start: 4056, Stop: 5492, Start Num: 43
Candidate Starts for Werner_7:
(Start: 39 @4050 has 4 MA's), (Start: 43 @4056 has 102 MA's), (49, 4080), (55, 4104), (63, 4173), (69, 4221), (73, 4233), (81, 4272), (107, 4425), (130, 4539), (143, 4581), (150, 4608), (156, 4641), (158, 4647), (175, 4737), (178, 4749), (191, 4824), (196, 4842), (220, 4920), (225, 4965), (232, 5022), (273, 5235), (278, 5259), (301, 5391), (313, 5457), (318, 5478),

Gene: Whatever_7 Start: 4056, Stop: 5492, Start Num: 43
Candidate Starts for Whatever_7:
(Start: 39 @4050 has 4 MA's), (Start: 43 @4056 has 102 MA's), (49, 4080), (55, 4104), (63, 4173), (69, 4221), (73, 4233), (81, 4272), (107, 4425), (130, 4539), (143, 4581), (150, 4608), (156, 4641), (158, 4647), (175, 4737), (178, 4749), (191, 4824), (196, 4842), (220, 4920), (225, 4965), (232, 5022), (273, 5235), (278, 5259), (301, 5391), (313, 5457), (318, 5478),

Gene: Whatsapiecost_3 Start: 2255, Stop: 3625, Start Num: 44
Candidate Starts for Whatsapiecost_3:
(Start: 44 @2255 has 159 MA's), (Start: 53 @2291 has 9 MA's), (Start: 57 @2315 has 1 MA's), (58, 2324), (59, 2330), (60, 2333), (64, 2372), (78, 2438), (79, 2441), (89, 2510), (97, 2549), (99, 2558), (109, 2606), (118, 2666), (128, 2714), (140, 2759), (163, 2804), (168, 2831), (175, 2876), (180, 2897), (181, 2900), (182, 2903), (186, 2924), (188, 2933), (197, 2984), (198, 2987), (201, 2996), (207, 3026), (211, 3047), (221, 3116), (224, 3125), (229, 3176), (230, 3179), (236, 3233), (238, 3239), (239, 3242), (240, 3245), (251, 3302), (260, 3356), (263, 3368), (272, 3401), (274, 3407), (279, 3431), (303, 3575), (309, 3593),

Gene: Wheezy_25 Start: 13903, Stop: 15492, Start Num: 30
Candidate Starts for Wheezy_25:
(Start: 30 @13903 has 23 MA's), (32, 13909), (35, 13924), (Start: 40 @13933 has 1 MA's), (54, 13987), (85, 14179), (97, 14257), (102, 14281), (105, 14311), (148, 14515), (161, 14542), (181, 14659), (193, 14731), (198, 14746), (203, 14761), (220, 14842), (236, 14983), (256, 15082), (258, 15097), (260, 15106), (262, 15115), (271, 15151), (277, 15175), (292, 15259), (293, 15268), (300, 15313),

Gene: WhoseManz_27 Start: 11741, Stop: 13363, Start Num: 18
Candidate Starts for WhoseManz_27:
(1, 10973), (2, 11045), (3, 11048), (8, 11294), (9, 11357), (11, 11405), (Start: 18 @11741 has 7 MA's), (Start: 30 @11786 has 23 MA's), (41, 11819), (161, 12425), (170, 12470), (193, 12602), (203, 12632), (220, 12713), (231, 12809), (235, 12839), (236, 12854), (260, 12977), (262, 12986), (271, 13022), (277, 13046), (289, 13112), (292, 13130), (293, 13139), (300, 13184),

Gene: Whouxphf_3 Start: 2273, Stop: 3598, Start Num: 52
Candidate Starts for Whouxphf_3:
(Start: 44 @2240 has 159 MA's), (Start: 52 @2273 has 2 MA's), (Start: 57 @2300 has 1 MA's), (58, 2309), (59, 2315), (60, 2318), (64, 2357), (77, 2420), (78, 2423), (79, 2426), (89, 2495), (91, 2501), (97, 2534), (99, 2543), (109, 2591), (118, 2651), (123, 2672), (128, 2699), (140, 2744), (163, 2789), (168, 2816), (175, 2861), (180, 2882), (181, 2885), (182, 2888), (186, 2909), (188, 2918), (197, 2969), (198, 2972), (201, 2981), (207, 3011), (211, 3032), (221, 3101), (224, 3110), (229, 3161), (230, 3164), (238, 3224), (240, 3230), (254, 3308), (260, 3341), (263, 3353), (272, 3386), (274, 3392), (279, 3416), (303,

3560),

Gene: WillSterrel_3 Start: 2243, Stop: 3613, Start Num: 44
Candidate Starts for WillSterrel_3:
(Start: 44 @2243 has 159 MA's), (Start: 53 @2279 has 9 MA's), (Start: 57 @2303 has 1 MA's), (58, 2312), (59, 2318), (60, 2321), (64, 2360), (78, 2426), (79, 2429), (89, 2498), (97, 2537), (99, 2546), (109, 2594), (118, 2654), (128, 2702), (140, 2747), (163, 2792), (168, 2819), (175, 2864), (180, 2885), (181, 2888), (182, 2891), (186, 2912), (188, 2921), (197, 2972), (198, 2975), (201, 2984), (207, 3014), (211, 3035), (221, 3104), (224, 3113), (229, 3164), (230, 3167), (238, 3227), (240, 3233), (260, 3344), (263, 3356), (272, 3389), (274, 3395), (279, 3419), (309, 3581),

Gene: WilliamBoone_31 Start: 9788, Stop: 11401, Start Num: 22
Candidate Starts for WilliamBoone_31:
(Start: 22 @9788 has 25 MA's), (42, 9839), (45, 9848), (Start: 57 @9908 has 1 MA's), (58, 9917), (64, 9965), (70, 9998), (71, 10001), (82, 10046), (86, 10073), (117, 10277), (124, 10307), (131, 10343), (134, 10352), (142, 10388), (146, 10397), (149, 10412), (181, 10553), (184, 10571), (186, 10577), (192, 10619), (221, 10805), (223, 10811), (238, 10928), (247, 10973), (256, 11021), (275, 11099), (279, 11123), (280, 11129), (282, 11138), (295, 11207), (296, 11222), (303, 11258), (304, 11261), (306, 11273), (308, 11279),

Gene: XFactor_3 Start: 2255, Stop: 3625, Start Num: 44
Candidate Starts for XFactor_3:
(Start: 44 @2255 has 159 MA's), (Start: 53 @2291 has 9 MA's), (Start: 57 @2315 has 1 MA's), (58, 2324), (59, 2330), (60, 2333), (64, 2372), (78, 2438), (79, 2441), (89, 2510), (97, 2549), (99, 2558), (109, 2606), (118, 2666), (128, 2714), (140, 2759), (163, 2804), (168, 2831), (175, 2876), (180, 2897), (181, 2900), (182, 2903), (186, 2924), (188, 2933), (197, 2984), (198, 2987), (201, 2996), (207, 3026), (211, 3047), (221, 3116), (224, 3125), (229, 3176), (230, 3179), (236, 3233), (238, 3239), (240, 3245), (251, 3302), (260, 3356), (263, 3368), (272, 3401), (274, 3407), (279, 3431), (303, 3575), (309, 3593),

Gene: Yasdnil_7 Start: 4055, Stop: 5491, Start Num: 43
Candidate Starts for Yasdnil_7:
(Start: 39 @4049 has 4 MA's), (Start: 43 @4055 has 102 MA's), (49, 4079), (55, 4103), (63, 4172), (69, 4220), (73, 4232), (81, 4271), (107, 4424), (113, 4454), (130, 4538), (143, 4580), (156, 4640), (158, 4646), (175, 4736), (178, 4748), (191, 4823), (196, 4841), (220, 4919), (225, 4964), (232, 5021), (273, 5234), (278, 5258), (301, 5390), (318, 5477),

Gene: Yndexa_27 Start: 13681, Stop: 15303, Start Num: 18
Candidate Starts for Yndexa_27:
(Start: 18 @13681 has 7 MA's), (Start: 30 @13726 has 23 MA's), (36, 13750), (41, 13759), (161, 14365), (170, 14410), (193, 14542), (203, 14572), (220, 14653), (231, 14749), (235, 14779), (236, 14794), (260, 14917), (262, 14926), (271, 14962), (277, 14986), (289, 15052), (292, 15070), (293, 15079), (300, 15124),

Gene: Yorick_3 Start: 2239, Stop: 3609, Start Num: 44
Candidate Starts for Yorick_3:
(Start: 44 @2239 has 159 MA's), (Start: 53 @2275 has 9 MA's), (Start: 57 @2299 has 1 MA's), (58, 2308), (59, 2314), (60, 2317), (64, 2356), (78, 2422), (79, 2425), (89, 2494), (97, 2533), (99, 2542), (109, 2590), (118, 2650), (128, 2698), (140, 2743), (163, 2788), (168, 2815), (175, 2860), (180, 2881), (181, 2884), (182, 2887), (186, 2908), (188, 2917), (197, 2968), (198, 2971), (201, 2980), (207, 3010), (211, 3031), (221, 3100), (224, 3109), (229, 3160), (230, 3163), (238, 3223), (240, 3229), (254, 3307), (260, 3340), (263, 3352), (274, 3391), (279, 3415), (309, 3577),

Gene: Yosif_8 Start: 4526, Stop: 5956, Start Num: 43

Candidate Starts for Yosif_8:
(Start: 43 @4526 has 102 MA's), (63, 4643), (73, 4703), (97, 4838), (101, 4859), (117, 4946), (157, 5111), (164, 5129), (175, 5204), (178, 5216), (191, 5291), (196, 5309), (220, 5384), (228, 5459), (232, 5486), (250, 5591), (276, 5711), (278, 5723), (293, 5813), (301, 5855), (318, 5945),

Gene: Yvonnetastic_29 Start: 12189, Stop: 13751, Start Num: 22
Candidate Starts for Yvonnetastic_29:
(15, 12105), (Start: 22 @12189 has 25 MA's), (42, 12240), (45, 12249), (64, 12366), (70, 12399), (82, 12447), (83, 12450), (85, 12465), (86, 12474), (96, 12534), (100, 12555), (110, 12612), (117, 12678), (119, 12684), (124, 12708), (130, 12741), (144, 12795), (146, 12798), (174, 12918), (184, 12972), (186, 12978), (198, 13041), (216, 13149), (235, 13308), (238, 13329), (247, 13374), (251, 13392), (261, 13452), (265, 13464), (266, 13467), (301, 13647), (304, 13662), (307, 13677),

Gene: Zainub_9 Start: 4426, Stop: 5895, Start Num: 43
Candidate Starts for Zainub_9:
(Start: 43 @4426 has 102 MA's), (63, 4543), (73, 4603), (81, 4642), (97, 4735), (101, 4756), (143, 4948), (150, 4975), (168, 5053), (178, 5113), (187, 5155), (191, 5188), (196, 5206), (202, 5224), (205, 5233), (217, 5314), (225, 5371), (231, 5422), (232, 5428), (265, 5608), (278, 5665), (293, 5755), (295, 5764), (318, 5881),

Gene: ZamZam_10 Start: 4178, Stop: 5602, Start Num: 43
Candidate Starts for ZamZam_10:
(Start: 43 @4178 has 102 MA's), (63, 4295), (69, 4343), (73, 4355), (97, 4490), (128, 4655), (150, 4730), (157, 4763), (159, 4769), (178, 4868), (191, 4943), (196, 4961), (213, 5000), (220, 5036), (225, 5081), (232, 5138), (250, 5243), (278, 5375), (301, 5507), (306, 5537), (317, 5588),

Gene: Zemlya_8 Start: 4055, Stop: 5491, Start Num: 43
Candidate Starts for Zemlya_8:
(Start: 39 @4049 has 4 MA's), (Start: 43 @4055 has 102 MA's), (49, 4079), (55, 4103), (63, 4172), (69, 4220), (81, 4271), (107, 4424), (113, 4454), (130, 4538), (143, 4580), (158, 4646), (175, 4736), (178, 4748), (196, 4841), (220, 4919), (225, 4964), (232, 5021), (235, 5045), (273, 5234), (278, 5258), (318, 5477),

Gene: Zerg_3 Start: 2240, Stop: 3610, Start Num: 44
Candidate Starts for Zerg_3:
(Start: 44 @2240 has 159 MA's), (Start: 53 @2276 has 9 MA's), (Start: 57 @2300 has 1 MA's), (58, 2309), (59, 2315), (60, 2318), (64, 2357), (78, 2423), (79, 2426), (89, 2495), (97, 2534), (99, 2543), (109, 2591), (118, 2651), (128, 2699), (140, 2744), (163, 2789), (168, 2816), (175, 2861), (180, 2882), (181, 2885), (182, 2888), (186, 2909), (188, 2918), (197, 2969), (198, 2972), (201, 2981), (207, 3011), (211, 3032), (221, 3101), (224, 3110), (229, 3161), (230, 3164), (238, 3224), (240, 3230), (254, 3308), (260, 3341), (263, 3353), (274, 3392), (279, 3416), (309, 3578),

Gene: Zion_13 Start: 8757, Stop: 10319, Start Num: 34
Candidate Starts for Zion_13:
(Start: 29 @8742 has 8 MA's), (Start: 34 @8757 has 6 MA's), (51, 8820), (56, 8841), (61, 8883), (68, 8943), (70, 8952), (73, 8961), (82, 9000), (97, 9096), (115, 9216), (116, 9222), (127, 9285), (129, 9291), (162, 9405), (167, 9426), (176, 9480), (180, 9504), (193, 9579), (198, 9594), (203, 9609), (221, 9714), (224, 9723), (236, 9831), (263, 9963), (278, 10026), (284, 10071), (294, 10116), (295, 10122), (298, 10149), (300, 10158), (302, 10173), (319, 10257),

Gene: Zizzle_3 Start: 2255, Stop: 3613, Start Num: 44
Candidate Starts for Zizzle_3:

(Start: 44 @2255 has 159 MA's), (Start: 53 @2291 has 9 MA's), (Start: 57 @2315 has 1 MA's), (58, 2324), (59, 2330) (60, 2333), (64, 2372), (77, 2435), (78, 2438), (79, 2441), (89, 2510), (91, 2516), (97, 2549), (99, 2558), (109, 2606), (118, 2666), (123, 2687), (128, 2714), (140, 2759), (163, 2804), (168, 2831), (175, 2876), (180, 2897), (181, 2900), (182, 2903), (186, 2924), (188, 2933), (197, 2984), (198, 2987), (201, 2996), (207, 3026), (211, 3047), (221, 3116), (224, 3125), (229, 3176), (230, 3179), (238, 3239), (240, 3245), (260, 3356), (263, 3368), (272, 3401), (274, 3407), (279, 3431), (303, 3575),

Gene: phiCAM_07 Start: 4309, Stop: 5625, Start Num: 63
Candidate Starts for phiCAM_07:
(31, 4159), (33, 4165), (Start: 43 @4192 has 102 MA's), (63, 4309), (69, 4357), (73, 4369), (117, 4612), (138, 4699), (155, 4759), (157, 4777), (159, 4783), (178, 4882), (191, 4957), (196, 4975), (213, 5014), (220, 5050), (232, 5152), (260, 5314), (265, 5332), (268, 5344), (278, 5389), (293, 5479), (301, 5521),

Gene: phiHau3_9 Start: 4031, Stop: 5515, Start Num: 43
Candidate Starts for phiHau3_9:
(Start: 43 @4031 has 102 MA's), (63, 4148), (69, 4196), (133, 4523), (143, 4556), (156, 4616), (175, 4709), (178, 4721), (191, 4796), (196, 4814), (200, 4826), (202, 4832), (221, 4958), (231, 5030), (232, 5036), (246, 5123), (259, 5195), (275, 5258), (278, 5273), (293, 5363), (301, 5405), (315, 5477),