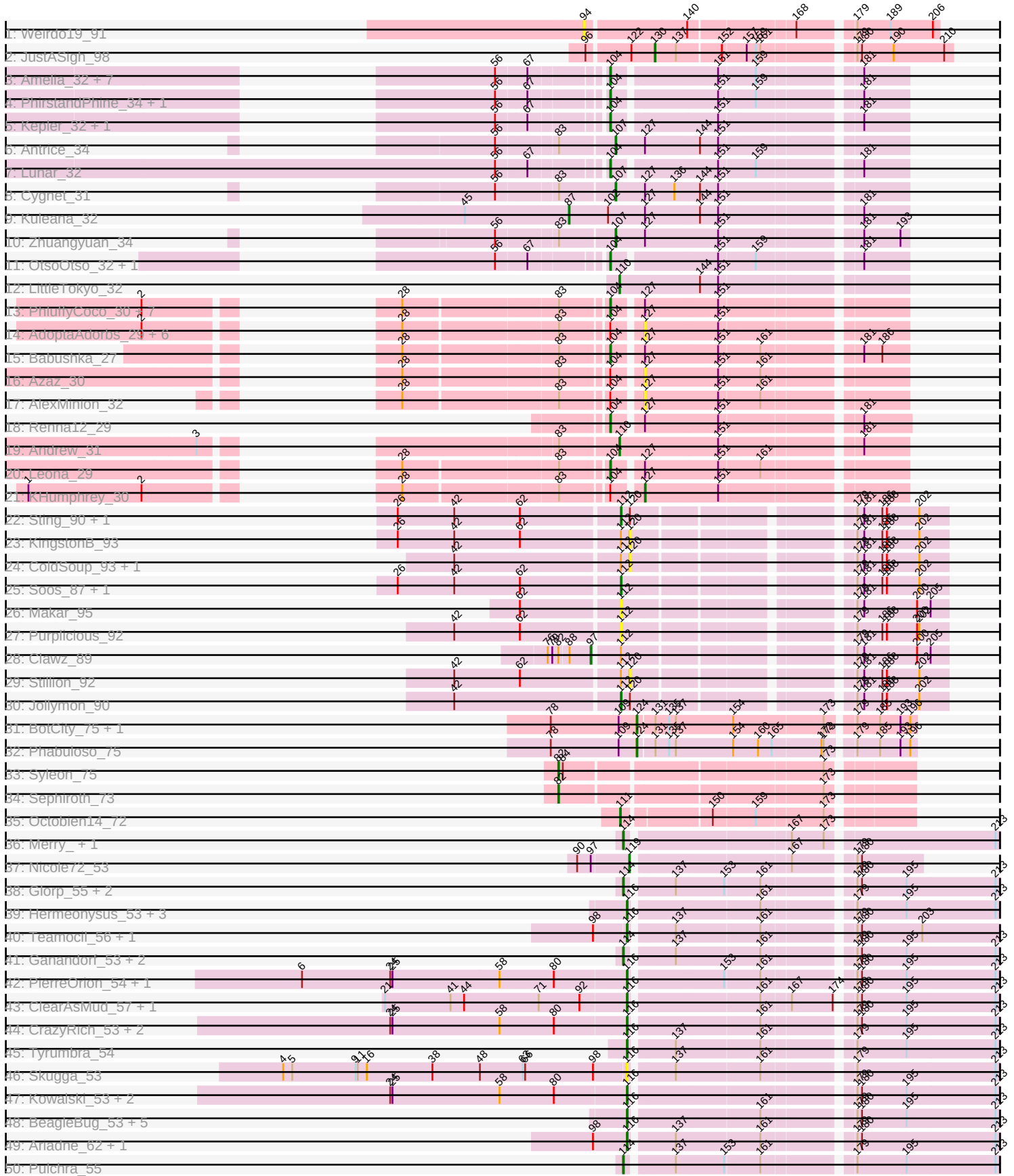
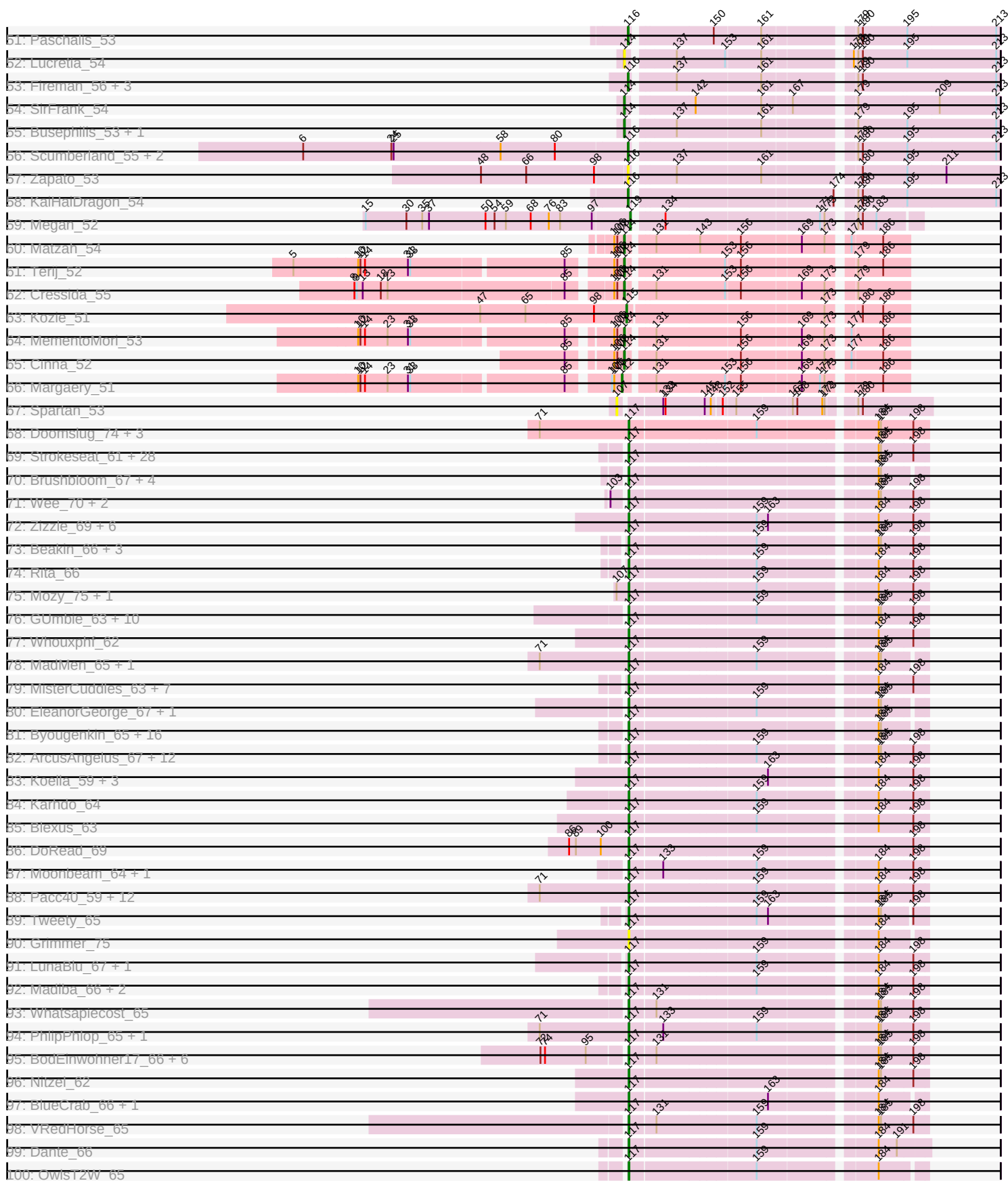
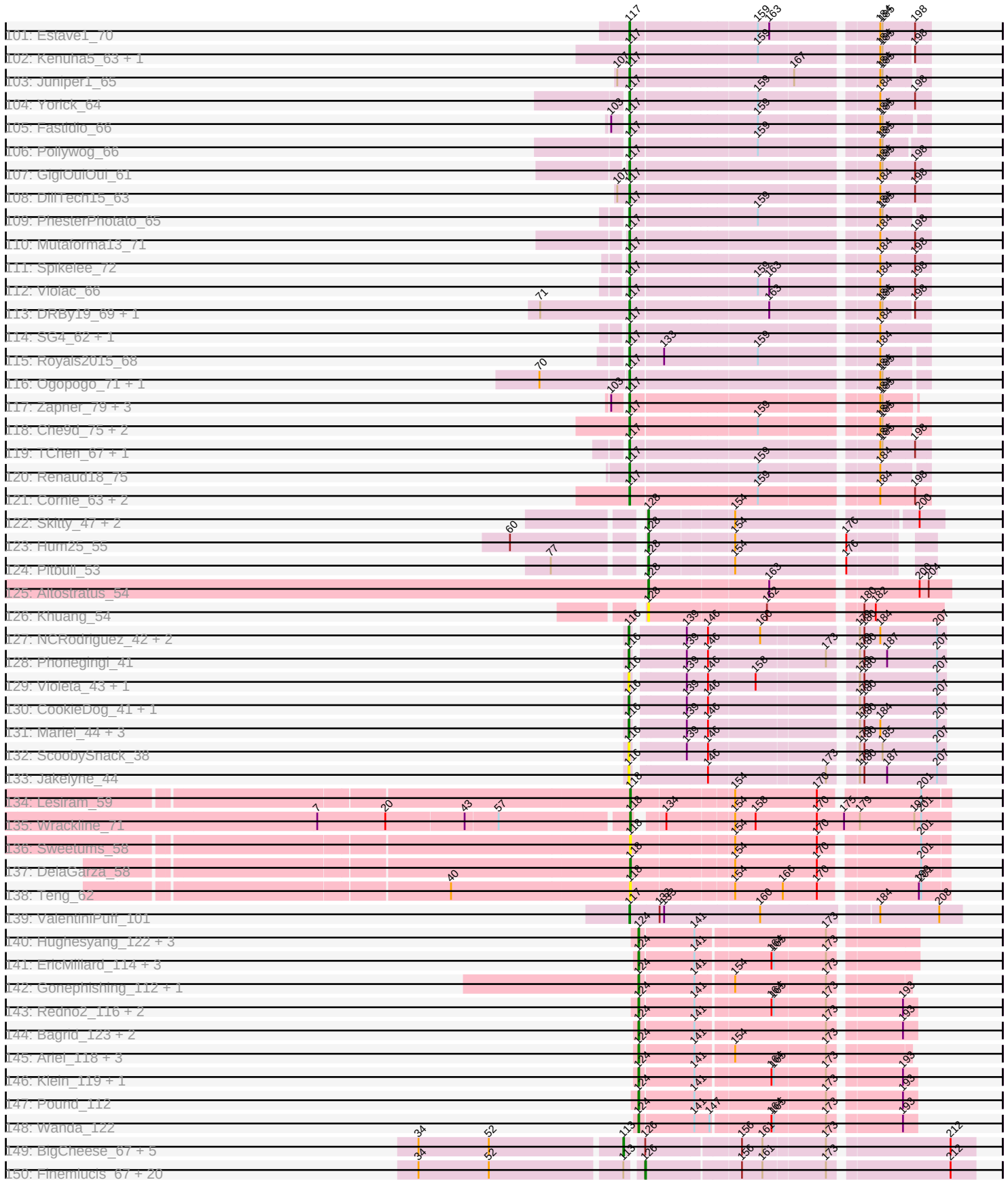


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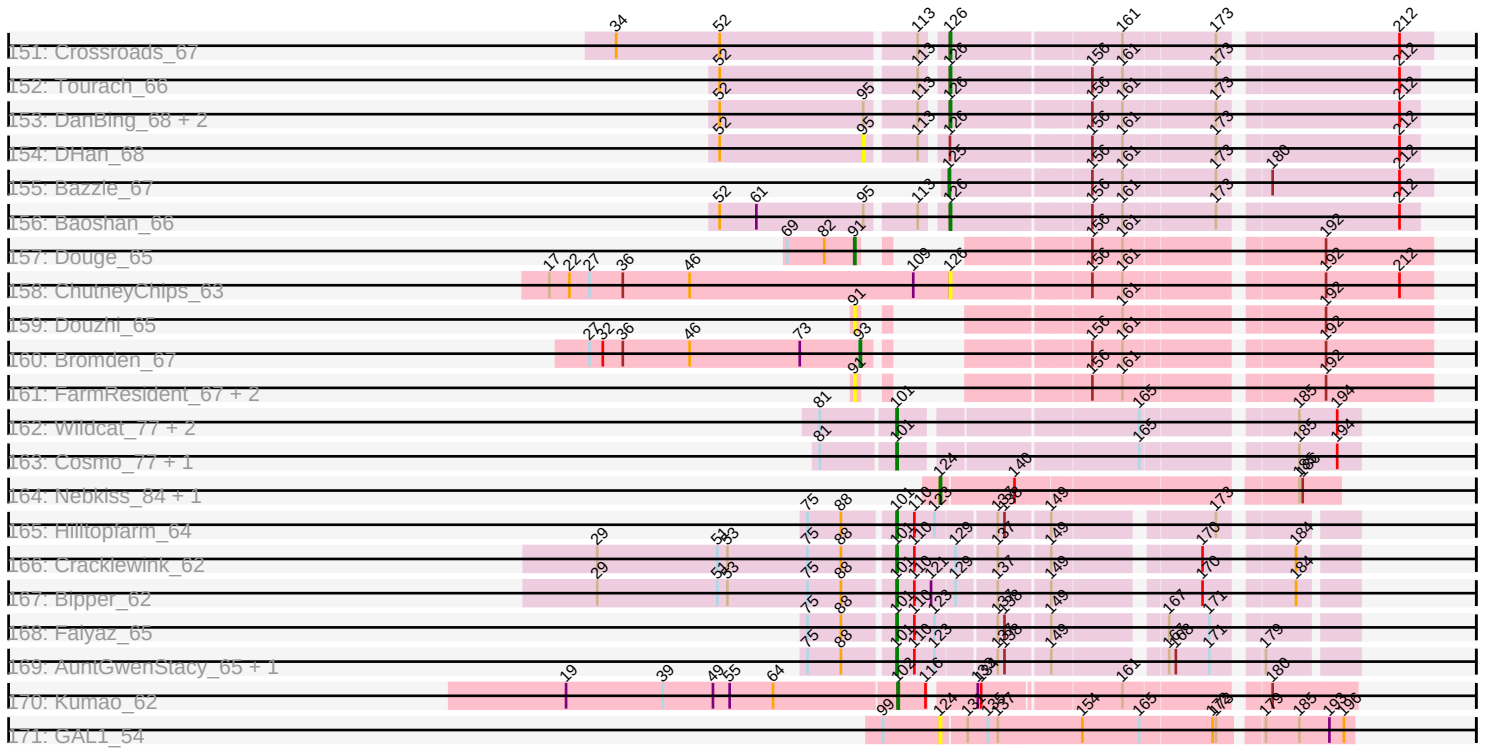


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 294337 Report

This analysis was run 04/18/26 on database version 643.

Pham number 294337 has 416 members, 64 are drafts.

Phages represented in each track:

- Track 1 : Weirido19_91
- Track 2 : JustASigh_98
- Track 3 : Amelia_32, HannahPhantana_32, Bedetta_34, Cote_33, Pineda_33, Jerole_32, Coral_31, Colusalem_32
- Track 4 : PhirstandPhine_34, Melons_32
- Track 5 : Kepler_32, Daob_33
- Track 6 : Antrice_34
- Track 7 : Lunar_32
- Track 8 : Cygnet_31
- Track 9 : Kuleana_32
- Track 10 : Zhuangyuan_34
- Track 11 : OtsoOtso_32, Polka_31
- Track 12 : LittleTokyo_32
- Track 13 : PhluffyCoco_30, Atlantica_30, RedFox_30, HamCheese_30, Juno112_29, DanHam62_30, Glotell_31, AmiCi24_29
- Track 14 : AdoptaAdorbs_29, Laphuphu24k_29, Amphitrite_30, Oppalora_29, Fingolfin_30, Camara_30, Rattail_30
- Track 15 : Babushka_27
- Track 16 : Azaz_30
- Track 17 : AlexMinion_32
- Track 18 : Renna12_29
- Track 19 : Andrew_31
- Track 20 : Leona_29
- Track 21 : KHumphrey_30
- Track 22 : Sting_90, DonTron_91
- Track 23 : KingstonB_93
- Track 24 : ColdSoup_93, Amo99_93
- Track 25 : Soos_87, Grumio_93
- Track 26 : Makar_95
- Track 27 : Purplicious_92
- Track 28 : Clawz_89
- Track 29 : Stillion_92
- Track 30 : Jollymon_90
- Track 31 : BotCity_75, BearBQ_70
- Track 32 : Phabuloso_75
- Track 33 : Syleon_75
- Track 34 : Sephiroth_73

- Track 35 : Octobien14_72
- Track 36 : Merry_, Sunny_
- Track 37 : Nicole72_53
- Track 38 : Glorp_55, Yeti_54, Honeyfin_55
- Track 39 : Hermeonysus_53, Onika_53, Rockwell_53, PiperSansNom_54
- Track 40 : Teamocil_56, Gina_56
- Track 41 : Ganandorf_53, Piperis_54, Phorgeous_53
- Track 42 : PierreOrion_54, Jollipop_54
- Track 43 : ClearAsMud_57, NoodlelyBoi_55
- Track 44 : CrazyRich_53, Crisis_55, Jefe_54
- Track 45 : Tyumbra_54
- Track 46 : Skugga_53
- Track 47 : Kowalski_53, BrazzalePHS_53, Ramiel05_53
- Track 48 : BeagleBug_53, Quhwah_57, Shotgun_53, Antares_54, PhedwardCullen_52, Savannah_53
- Track 49 : Ariadne_62, Smarties_62
- Track 50 : Pulchra_55
- Track 51 : Paschalīs_53
- Track 52 : Lucretia_54
- Track 53 : Fireman_56, Shrubaron_56, RobsFeet_57, Metamorphoo_56
- Track 54 : SirFrank_54
- Track 55 : Busephilis_53, Phrancesco_54
- Track 56 : Scumberland_55, LittleFortune_55, Cranjis_55
- Track 57 : Zapato_53
- Track 58 : KaiHaiDragon_54
- Track 59 : Megan_52
- Track 60 : Matzah_54
- Track 61 : Terij_52
- Track 62 : Cressida_55
- Track 63 : Kozie_51
- Track 64 : MementoMori_53
- Track 65 : Cinna_52
- Track 66 : Margaery_51
- Track 67 : Spartan_53
- Track 68 : Doomslug_74, Hegedechwinu_65, Gandalph_68, Topiatin_72
- Track 69 : Strokeseat_61, Plumbus_68, Emmaloid_67, Chevrolet_70, Shauna1_63, StAnnes_63, Hlubikazi_61, Flathead_66, Ovechkin_65, DotProduct_60, Donkeykong_68, Girafales_73, Florinda_76, Filuzino_63, Slim_67, Ms6_62, IrishSherpFalk_66, PopTart_59, Seagreen_64, DLane_60, Rialto_70, Phanphagia_61, Melissauren88_63, SassyB_59, WillSterrel_66, Phalconet_63, Spartacus_67, Quico_73, Mandlovu_61
- Track 70 : Brushbloom_67, Bobi_69, Batiatus_63, MilleniumForce_68, Ibhubesi_65
- Track 71 : Wee_70, DeadP_72, Taj_70
- Track 72 : Zizzle_69, Pippy_64, Maravista_67, ByChance_58, ShowerHandel_68, Crumble_60, BobaPhett_69
- Track 73 : Beakin_66, Guppsters_66, Hades_66, Soul22_71
- Track 74 : Rita_66
- Track 75 : Mozy_75, Fancypants_68
- Track 76 : GUmbie_63, OlympiaSaint_67, James_69, BuzzLyseyear_71, Tchotchke_64, Mattes_69, Saal_67, Che8_70, Lizziana_71, Eradicator_58, Gorge_69
- Track 77 : Whouxphf_62
- Track 78 : MadMen_65, Martik_65

- Track 79 : MisterCuddles_63, XFactor_63, Zerg_65, Alexphander_69, Doug_67, Girr_63, RockyHorror_66, Ruby_61
- Track 80 : EleanorGeorge_67, Leozinho_64
- Track 81 : Byougenkin_65, MulchExplorer_69, Rockne_66, Kimberlium_70, QuickMath_69, Hamulus_65, Chuckly_68, Starceвич_65, Juice456_66, JalFarm20_78, Jant_69, PMC_62, Boomer_70, SiSi_63, Ardmore_57, KristaRAM_68, Avani_73
- Track 82 : ArcusAngelus_67, Lorde_65, Drago_62, Phatniss_63, Totinger_65, Enby_66, DosHalletts_67, UncleRicky_64, DirtMcGirt_64, Mova_69, Llij_61, Radiance_64, Eish_68
- Track 83 : Koella_59, Priscilla_65, NormanBulbieJr_65, Cabrinians_66
- Track 84 : Karhdo_64
- Track 85 : Blexus_63
- Track 86 : DoRead_69
- Track 87 : Moonbeam_64, Emma_67
- Track 88 : Pacc40_59, LastJedi_59, CaptainTrips_63, MinionDave_64, Nivrat_62, Minnie_68, LilMoolah_64, Clifton_60, Aubs_65, Brocalys_60, Burwell21_63, SwagPigglett_70, Sandalphon_66
- Track 89 : Tweety_65
- Track 90 : Grimmer_75
- Track 91 : LunaBlu_67, Galactic_64
- Track 92 : Madiba_66, Ramsey_64, DaWorst_65
- Track 93 : Whatsapiecost_65
- Track 94 : PhlipPhlop_65, Vivum_66
- Track 95 : BodEinwohner17_66, Geralt_60, Deb65_60, Empress_64, Nimbo_59, IbOuu_65, OldBen_63
- Track 96 : Nitzel_62
- Track 97 : BlueCrab_66, FreddyB_66
- Track 98 : VRedHorse_65
- Track 99 : Dante_66
- Track 100 : OwlsT2W_65
- Track 101 : Estave1_70
- Track 102 : Kenuha5_63, SuperGrey_69
- Track 103 : Juniper1_65
- Track 104 : Yorick_64
- Track 105 : Fastidio_66
- Track 106 : Pollywog_66
- Track 107 : GigiOuiOui_61
- Track 108 : DillTech15_63
- Track 109 : PhesterPhotato_65
- Track 110 : Mutaforma13_71
- Track 111 : Spikelee_72
- Track 112 : Violac_66
- Track 113 : DRBy19_69, Philus_69
- Track 114 : SG4_62, Mahavrat_62
- Track 115 : Royals2015_68
- Track 116 : Ogopogo_71, ThetaBob_73
- Track 117 : Zapner_79, Jabbawokkie_80, Blarby_78, Mantra_62
- Track 118 : Che9d_75, ShiLan_64, Kersh_67
- Track 119 : TChen_67, LunaStella_65
- Track 120 : Renaud18_75
- Track 121 : Cornie_63, Cheesepuff_74, Bipolar_65
- Track 122 : Skitty_47, MrSmee_53, Merpity_54

- Track 123 : Hum25_55
- Track 124 : Pitbull_53
- Track 125 : Altostratus_54
- Track 126 : Khuang_54
- Track 127 : NCRodriguez_42, Blett_41, Bush_42
- Track 128 : Phonegingi_41
- Track 129 : Violeta_43, Carrillo_43
- Track 130 : CookieDog_41, Phingu_44
- Track 131 : Mariel_44, Warren_41, Antuna_42, MenE_42
- Track 132 : ScoobySnack_38
- Track 133 : Jakelyne_44
- Track 134 : Lesiram_59
- Track 135 : Wrackline_71
- Track 136 : Sweetums_58
- Track 137 : DelaGarza_58
- Track 138 : Teng_62
- Track 139 : ValentiniPuff_101
- Track 140 : Hughesyang_122, Zelink_117, Minerva_120, ThreeRngTarjay_118
- Track 141 : EricMillard_114, Duke13_117, Optimus_113, BAKA_122
- Track 142 : Gonephishing_112, LittleE_122
- Track 143 : Redno2_116, Halley_125, Ejimix_117
- Track 144 : Bagrid_123, Kalah2_114, DmpstrDiver_123
- Track 145 : Ariel_118, Squint_116, Courthouse_113, Superphikiman_115
- Track 146 : Klein_119, Bobby_115
- Track 147 : Pound_112
- Track 148 : Wanda_122
- Track 149 : BigCheese_67, Vetrix_67, BobsGarage_67, Nicholasp3_67, Underpass_58, Lewan_68
- Track 150 : Finemlucis_67, GuuelaD_66, Itos_66, Rumpelstiltskin_66, Winky_67, Wigglewiggles_67, Zakai_68, Lynnae_69, Breezona_67, Sarshaun_68, LilDestine_67, Wilder_68, Miley16_67, MkaliMitinis3_68, Loadrie_66, Gabriela_64, OverPar_69, Kahlid_67, Rossetti_69, Gardann_68, Hafay_69
- Track 151 : Crossroads_67
- Track 152 : Tourach_66
- Track 153 : DanBing_68, Claus_67, ZhongYanYuan_66
- Track 154 : DHan_68
- Track 155 : Bazzle_67
- Track 156 : Baoshan_66
- Track 157 : Douge_65
- Track 158 : ChutneyChips_63
- Track 159 : Douzhi_65
- Track 160 : Bromden_67
- Track 161 : FarmResident_67, Quby_65, PYPDinur_63
- Track 162 : Wildcat_77, MaryV_77, EniyanLRS_168
- Track 163 : Cosmo_77, Azrael100_76
- Track 164 : Nebkiss_84, Gaia_85
- Track 165 : Hilltopfarm_64
- Track 166 : Cracklewink_62
- Track 167 : Bipper_62
- Track 168 : Faiyaz_65
- Track 169 : AuntGwenStacy_65, Typha_64
- Track 170 : Kumao_62
- Track 171 : GAL1_54

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

The start number called the most often in the published annotations is 117, it was called in 180 of the 352 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Alexphander_69, ArcusAngelus_67, Ardmore_57, Aubs_65, Avani_73, Batiatus_63, Beakin_66, Bipolar_65, Blarby_78, Blexus_63, BlueCrab_66, BobaPhett_69, Bobi_69, BodEinwohner17_66, Boomer_70, Brocalys_60, Brushbloom_67, Burwell21_63, BuzzLyseyear_71, ByChance_58, Byougenkin_65, Cabrinians_66, CaptainTrips_63, Che8_70, Che9d_75, CheesePuff_74, Chevrolet_70, Chuckly_68, Clifton_60, Cornie_63, Crumble_60, DLane_60, DRBy19_69, DaWorst_65, Dante_66, DeadP_72, Deb65_60, DillTech15_63, DirtMcGirt_64, DoRead_69, Donkeykong_68, Doomslug_74, DosHalletts_67, DotProduct_60, Doug_67, Drago_62, Eish_68, EleanorGeorge_67, Emma_67, Emmaloid_67, Empress_64, Enby_66, Eradicator_58, Estave1_70, Fancypants_68, Fastidio_66, Filuzino_63, Flathead_66, Florinda_76, FreddyB_66, GUmbie_63, Galactic_64, Gandolph_68, Geralt_60, GigiOuiOui_61, Girafales_73, Girr_63, Gorge_69, Grimmer_75, Guppsters_66, Hades_66, Hamulus_65, Hegedechwinu_65, Hlubikazi_61, IbOuu_65, Ibhubesi_65, IrishSherpFalk_66, Jabbawokkie_80, JalFarm20_78, James_69, Jant_69, Juice456_66, Juniper1_65, Karhdo_64, Kenuha5_63, Kersh_67, Kimberlium_70, Koella_59, KristaRAM_68, LastJedi_59, Leozinho_64, LilMoolah_64, Lizziana_71, Lij_61, Lorde_65, LunaBlu_67, LunaStella_65, MadMen_65, Madiba_66, Mahavrat_62, Mandlovu_61, Mantra_62, Maravista_67, Martik_65, Mattes_69, Melissauren88_63, MillenniumForce_68, MinionDave_64, Minnie_68, MisterCuddles_63, Moonbeam_64, Mova_69, Mozy_75, Ms6_62, MulchExplorer_69, Mutaforma13_71, Nimbo_59, Nitzel_62, Nivrat_62, NormanBulbieJr_65, OgoPogo_71, OldBen_63, OlympiaSaint_67, Ovechkin_65, OwlsT2W_65, PMC_62, Pacc40_59, Phalconet_63, Phanphagia_61, Phatniss_63, PhesterPhotato_65, Philus_69, PhilipPhlop_65, Pippy_64, Plumbus_68, Pollywog_66, PopTart_59, Priscilla_65, QuickMath_69, Quico_73, Radiance_64, Ramsey_64, Renaud18_75, Rialto_70, Rita_66, Rockne_66, RockyHorror_66, Royals2015_68, Ruby_61, SG4_62, Saal_67, Sandalphon_66, SassyB_59, Seagreen_64, Shauna1_63, ShiLan_64, ShowerHandel_68, SiSi_63, Slim_67, Soul22_71, Spartacus_67, Spikelee_72, StAnnes_63, StarceVich_65, Strokeseat_61, SuperGrey_69, SwagPigglett_70, TChen_67, Taj_70, Tchotchke_64, ThetaBob_73, Topiatin_72, Totinger_65, Tweety_65, UncleRicky_64, VRedHorse_65, ValentiniPuff_101, Violac_66, Vivum_66, Wee_70, Whatsapiecost_65, Whouxphf_62, WillSterrel_66, XFactor_63, Yorick_64, Zapner_79, Zerg_65, Zizzle_69,

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

-

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

- AdoptaAdorbs_29, AlexMinion_32, Altostratus_54, Amelia_32, AmiCi24_29, Amo99_93, Amphitrite_30, Andrew_31, Antares_54, Antrice_34, Antuna_42, Ariadne_62, Ariel_118, Atlantica_30, AuntGwenStacy_65, Azaz_30, Azrael100_76, BAKA_122, Babushka_27, Bagrid_123, Baoshan_66, Bazzle_67, BeagleBug_53, BearBQ_70, Bedetta_34, BigCheese_67, Bipper_62, Blett_41, Bobby_115,

BobsGarage_67, BotCity_75, BrazzalePHS_53, Breezona_67, Bromden_67, Busephilis_53, Bush_42, Camara_30, Carrillo_43, ChutneyChips_63, Cinna_52, Claus_67, Clawz_89, ClearAsMud_57, ColdSoup_93, Colusalem_32, CookieDog_41, Coral_31, Cosmo_77, Cote_33, Courthouse_113, Cracklewink_62, Cranjis_55, CrazyRich_53, Cressida_55, Crisis_55, Crossroads_67, Cygnet_31, DHan_68, DanBing_68, DanHam62_30, Daob_33, DelaGarza_58, DmpstrDiver_123, DonTron_91, Douge_65, Douzhi_65, Duke13_117, Ejimix_117, EniyanLRS_168, EricMillard_114, Faiyaz_65, FarmResident_67, Finemlucis_67, Fingolfin_30, Fireman_56, GAL1_54, Gabriela_64, Gaia_85, Ganandorf_53, Gardann_68, Gina_56, Glorp_55, Glotell_31, Gonephishing_112, Grumio_93, GuuelaD_66, Hafay_69, Halley_125, HamCheese_30, HannahPhantana_32, Hermeonysus_53, Hilltopfarm_64, Honeyfin_55, Hughesyang_122, Hum25_55, Itos_66, Jakelyne_44, Jefe_54, Jerole_32, Jollipop_54, Jollymon_90, Juno112_29, JustASigh_98, KHumphrey_30, Kahlid_67, KaiHaiDragon_54, Kalah2_114, Kepler_32, Khuang_54, KingstonB_93, Klein_119, Kowalski_53, Kozie_51, Kuleana_32, Kumao_62, Laphuphu24k_29, Leona_29, Lesiram_59, Lewan_68, LilDestine_67, LittleE_122, LittleFortune_55, LittleTokyo_32, Loadrie_66, Lucretia_54, Lunar_32, Lynnae_69, Makar_95, Margaery_51, Mariel_44, MaryV_77, Matzah_54, Megan_52, Melons_32, MementoMori_53, MenE_42, Merpity_54, Merry_, Metamorphoo_56, Miley16_67, Minerva_120, MkaliMitinis3_68, MrSmee_53, NCRodriguez_42, Nebkiss_84, Nicholasp3_67, Nicole72_53, NoodlelyBoi_55, Octobien14_72, Onika_53, Oppalora_29, Optimus_113, OtsoOtso_32, OverPar_69, PYPDinur_63, Paschalis_53, Phabuloso_75, PhedwardCullen_52, Phingu_44, PhirstandPhine_34, PhluffyCoco_30, Phonegingi_41, Phorgeous_53, Phrancesco_54, PierreOrion_54, Pineda_33, PiperSansNom_54, Piperis_54, Pitbull_53, Polka_31, Pound_112, Pulchra_55, Purplicious_92, Quby_65, Quhwah_57, Ramiel05_53, Rattail_30, RedFox_30, Redno2_116, Renna12_29, RobsFeet_57, Rockwell_53, Rossetti_69, Rumpelstiltskin_66, Sarshaun_68, Savannah_53, ScoobySnack_38, Scumberland_55, Sephiroth_73, Shotgun_53, Shrubaron_56, SirFrank_54, Skitty_47, Skugga_53, Smarties_62, Soos_87, Spartan_53, Squint_116, Stillion_92, Sting_90, Sunny_, Superphikiman_115, Sweetums_58, Syleon_75, Teamocil_56, Teng_62, Terij_52, ThreeRngTarjay_118, Tourach_66, Typha_64, Tyrumbra_54, Underpass_58, Vetrix_67, Violeta_43, Wanda_122, Warren_41, Weirdo19_91, Wigglewiggle_67, Wildcat_77, Wilder_68, Winky_67, Wrackline_71, Yeti_54, Zakai_68, Zapato_53, Zelink_117, ZhongYanYuan_66, Zhuangyuan_34,

Summary by start number:

Start 82:

- Found in 4 of 416 (1.0%) of genes in pham
- Manual Annotations of this start: 2 of 352
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Sephiroth_73 (DU1), Syleon_75 (DU1),

Start 87:

- Found in 1 of 416 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 352
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kuleana_32 (AS2),

Start 91:

- Found in 5 of 416 (1.2%) of genes in pham
- Manual Annotations of this start: 1 of 352

- Called 100.0% of time when present
- Phage (with cluster) where this start called: Douge_65 (L4), Douzhi_65 (L4), FarmResident_67 (L4), PYPDinur_63 (L4), Quby_65 (L4),

Start 93:

- Found in 1 of 416 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 352
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bromden_67 (L4),

Start 94:

- Found in 1 of 416 (0.2%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Weirido19_91 (AH),

Start 95:

- Found in 12 of 416 (2.9%) of genes in pham
- No Manual Annotations of this start.
- Called 8.3% of time when present
- Phage (with cluster) where this start called: DHan_68 (L2),

Start 97:

- Found in 3 of 416 (0.7%) of genes in pham
- Manual Annotations of this start: 1 of 352
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Clawz_89 (CP),

Start 101:

- Found in 11 of 416 (2.6%) of genes in pham
- Manual Annotations of this start: 10 of 352
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AuntGwenStacy_65 (Y), Azrael100_76 (V), Bipper_62 (Y), Cosmo_77 (V), Cracklewink_62 (Y), EniyanLRS_168 (V), Faiyaz_65 (Y), Hilltopfarm_64 (Y), MaryV_77 (V), Typha_64 (Y), Wildcat_77 (V),

Start 102:

- Found in 2 of 416 (0.5%) of genes in pham
- Manual Annotations of this start: 1 of 352
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Kumao_62 (singleton),

Start 104:

- Found in 36 of 416 (8.7%) of genes in pham
- Manual Annotations of this start: 23 of 352
- Called 72.2% of time when present
- Phage (with cluster) where this start called: Amelia_32 (AS2), AmiCi24_29 (AS3), Atlantica_30 (AS3), Babushka_27 (AS3), Bedetta_34 (AS2), Colusalem_32 (AS2), Coral_31 (AS2), Cote_33 (AS2), DanHam62_30 (AS3), Daob_33 (AS2), Glotell_31 (AS3), HamCheese_30 (AS3), HannahPhantana_32 (AS2), Jerole_32 (AS2), Juno112_29 (AS3), Kepler_32 (AS2), Leona_29 (AS3), Lunar_32 (AS2), Melons_32 (AS2), OtsoOtso_32 (AS2), PhirstandPhine_34 (AS2), PhluffyCoco_30 (AS3), Pineda_33 (AS2), Polka_31 (AS2), RedFox_30 (AS3), Renna12_29 (AS3),

Start 107:

- Found in 8 of 416 (1.9%) of genes in pham
- Manual Annotations of this start: 3 of 352
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Antrice_34 (AS2), Cygnet_31 (AS2), Spartan_53 (ES), Zhuangyuan_34 (AS2),

Start 110:

- Found in 8 of 416 (1.9%) of genes in pham
- Manual Annotations of this start: 2 of 352
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Andrew_31 (AS3), LittleTokyo_32 (AS2),

Start 111:

- Found in 1 of 416 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 352
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Octobien14_72 (DU1),

Start 112:

- Found in 13 of 416 (3.1%) of genes in pham
- Manual Annotations of this start: 5 of 352
- Called 61.5% of time when present
- Phage (with cluster) where this start called: DonTron_91 (CP), Grumio_93 (CP), Jollymon_90 (CP), Makar_95 (CP), Margaery_51 (EI), Purplicious_92 (CP), Soos_87 (CP), Sting_90 (CP),

Start 113:

- Found in 34 of 416 (8.2%) of genes in pham
- Manual Annotations of this start: 6 of 352
- Called 17.6% of time when present
- Phage (with cluster) where this start called: BigCheese_67 (L2), BobsGarage_67 (L2), Lewan_68 (L2), Nicholasp3_67 (L2), Underpass_58 (L2), Vetrix_67 (L2),

Start 114:

- Found in 18 of 416 (4.3%) of genes in pham
- Manual Annotations of this start: 17 of 352
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Busephilis_53 (EC), Cinna_52 (EI), Cressida_55 (EI), Ganandorf_53 (EC), Glorp_55 (EC), Honeyfin_55 (EC), Lucretia_54 (EC), Matzah_54 (EI), MementoMori_53 (EI), Merry_54 (EC), Phorgeous_53 (EC), Phrancesco_54 (EC), Piperis_54 (EC), Pulchra_55 (EC), SirFrank_54 (EC), Sunny_54 (EC), Terij_52 (EI), Yeti_54 (EC),

Start 115:

- Found in 1 of 416 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 352
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kozie_51 (EI),

Start 116:

- Found in 51 of 416 (12.3%) of genes in pham

- Manual Annotations of this start: 37 of 352
- Called 98.0% of time when present
- Phage (with cluster) where this start called: Antares_54 (EC), Antuna_42 (GA), Ariadne_62 (EC), BeagleBug_53 (EC), Blett_41 (GA), BrazzalePHS_53 (EC), Bush_42 (GA), Carrillo_43 (GA), ClearAsMud_57 (EC), CookieDog_41 (GA), Cranjīs_55 (EC), CrazyRich_53 (EC), Crisis_55 (EC), Fireman_56 (EC), Gina_56 (EC), Hermeonysus_53 (EC), Jakelyne_44 (GA), Jefe_54 (EC), Jollipop_54 (EC), KaiHaiDragon_54 (EC), Kowalski_53 (EC), LittleFortune_55 (EC), Mariel_44 (GA), MenE_42 (GA), Metamorphoo_56 (EC), NCRodriguez_42 (GA), NoodlelyBoi_55 (EC), Onika_53 (EC), Paschalis_53 (EC), PhedwardCullen_52 (EC), Phingu_44 (GA), Phonegingi_41 (GA), PierreOrion_54 (EC), PiperSansNom_54 (EC), Quhwah_57 (EC), Ramiel05_53 (EC), RobsFeet_57 (EC), Rockwell_53 (EC), Savannah_53 (EC), ScoobySnack_38 (GA), Scumberland_55 (EC), Shotgun_53 (EC), Shrubaron_56 (EC), Skugga_53 (EC), Smarties_62 (EC), Teamocil_56 (EC), Tyrumbra_54 (EC), Violeta_43 (GA), Warren_41 (GA), Zapato_53 (EC),

Start 117:

- Found in 188 of 416 (45.2%) of genes in pham
- Manual Annotations of this start: 180 of 352
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Alexphander_69 (F1), ArcusAngelus_67 (F1), Ardmore_57 (F1), Aubs_65 (F1), Avani_73 (F2), Batiatus_63 (F1), Beakin_66 (F1), Bipolar_65 (F1), Blarby_78 (F), Blexus_63 (F1), BlueCrab_66 (F1), BobaPhett_69 (F1), Bobi_69 (F1), BodEinwohner17_66 (F1), Boomer_70 (F1), Brocalys_60 (F1), Brushbloom_67 (F1), Burwell21_63 (F1), BuzzLyseyear_71 (F1), ByChance_58 (F1), Byougenkin_65 (F1), Cabrinians_66 (F1), CaptainTrips_63 (F1), Che8_70 (F1), Che9d_75 (F2), CheesePuff_74 (F1), Chevrolet_70 (F1), Chuckly_68 (F1), Clifton_60 (F1), Cornie_63 (F5), Crumble_60 (F1), DLane_60 (F1), DRBy19_69 (F1), DaWorst_65 (F1), Dante_66 (F1), DeadP_72 (F1), Deb65_60 (F1), DillTech15_63 (F1), DirtMcGirt_64 (F1), DoRead_69 (F1), Donkeykong_68 (F1), Doomslug_74 (F), DosHalletts_67 (F1), DotProduct_60 (F1), Doug_67 (F1), Drago_62 (F1), Eish_68 (F1), EleanorGeorge_67 (F1), Emma_67 (F1), Emmaloid_67 (F1), Empress_64 (F1), Enby_66 (F1), Eradicator_58 (F1), Estave1_70 (F1), Fancypants_68 (F1), Fastidio_66 (F1), Filuzino_63 (F1), Flathead_66 (F1), Florinda_76 (F1), FreddyB_66 (F1), GUmbie_63 (F1), Galactic_64 (F1), Gandolph_68 (F1), Geralt_60 (F1), GigiOuiOui_61 (F1), Girafales_73 (F1), Girr_63 (F1), Gorge_69 (F1), Grimmer_75 (F1), Guppsters_66 (F1), Hades_66 (F1), Hamulus_65 (F1), Hegedechwinu_65 (F1), Hlubikazi_61 (F1), IbOuu_65 (F1), Ibhubesi_65 (F1), IrishSherpFalk_66 (F1), Jabbawokkie_80 (F2), JalFarm20_78 (F1), James_69 (F1), Jant_69 (F1), Juice456_66 (F1), Juniper1_65 (F1), Karhdo_64 (F1), Kenuha5_63 (F1), Kersh_67 (F1), Kimberlium_70 (F1), Koella_59 (F1), KristaRAM_68 (F1), LastJedi_59 (F1), Leozinho_64 (F1), LilMoolah_64 (F1), Lizziana_71 (F1), Llij_61 (F1), Lorde_65 (F1), LunaBlu_67 (F1), LunaStella_65 (F4), MadMen_65 (F1), Madiba_66 (F1), Mahavrat_62 (F1), Mandlovu_61 (F1), Mantra_62 (F1), Maravista_67 (F1), Martik_65 (F1), Mattes_69 (F1), Melissauren88_63 (F1), MilleniumForce_68 (F1), MinionDave_64 (F1), Minnie_68 (F1), MisterCuddles_63 (F1), Moonbeam_64 (F1), Mova_69 (F1), Mozy_75 (F1), Ms6_62 (F1), MulchExplorer_69 (F1), Mutaforma13_71 (F1), Nimbo_59 (F1), Nitzel_62 (F1), Nivrat_62 (F1), NormanBulbieJr_65 (F1), Ogopogo_71 (F1), OldBen_63 (F1), OlympiaSaint_67 (F1), Ovechkin_65 (F1), OwlsT2W_65 (F1), PMC_62 (F1), Pacc40_59 (F1), Phalconet_63 (F1), Phanphagia_61 (F1), Phatniss_63 (F1), PhesterPhotato_65 (F1), Philus_69 (F1), PhilipPhlop_65 (F1), Pippy_64 (F1), Plumbus_68 (F1), Pollywog_66 (F1), PopTart_59 (F1), Priscilla_65 (F1),

QuickMath_69 (F1), Quico_73 (F1), Radiance_64 (F1), Ramsey_64 (F1), Renaud18_75 (F4), Rialto_70 (F1), Rita_66 (F1), Rockne_66 (F1), RockyHorror_66 (F1), Royals2015_68 (F1), Ruby_61 (F1), SG4_62 (F1), Saal_67 (F1), Sandalphon_66 (F1), SassyB_59 (F1), Seagreen_64 (F1), Shauna1_63 (F1), ShiLan_64 (F1), ShowerHandel_68 (F1), SiSi_63 (F1), Slim_67 (F1), Soul22_71 (F2), Spartacus_67 (F1), Spikelee_72 (F1), StAnnes_63 (F1), Starceвич_65 (F1), Strokeseat_61 (F1), SuperGrey_69 (F1), SwagPigglett_70 (F1), TChen_67 (F4), Taj_70 (F1), Tchotchke_64 (F1), ThetaBob_73 (F4), Topiatin_72 (F1), Totinger_65 (F1), Tweety_65 (F1), UncleRicky_64 (F1), VRedHorse_65 (F1), ValentiniPuff_101 (GL), Violac_66 (F1), Vivum_66 (F1), Wee_70 (F1), Whatsapiecost_65 (F1), Whouxphf_62 (F1), WillSterrel_66 (F1), XFactor_63 (F1), Yorick_64 (F1), Zapner_79 (F2), Zerg_65 (F1), Zizzle_69 (F1),

Start 118:

- Found in 5 of 416 (1.2%) of genes in pham
- Manual Annotations of this start: 3 of 352
- Called 100.0% of time when present
- Phage (with cluster) where this start called: DelaGarza_58 (GF), Lesiram_59 (GF), Sweetums_58 (GF), Teng_62 (GF), Wrackline_71 (GF),

Start 119:

- Found in 2 of 416 (0.5%) of genes in pham
- Manual Annotations of this start: 2 of 352
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Megan_52 (EC), Nicole72_53 (EC),

Start 120:

- Found in 7 of 416 (1.7%) of genes in pham
- No Manual Annotations of this start.
- Called 57.1% of time when present
- Phage (with cluster) where this start called: Amo99_93 (CP), ColdSoup_93 (CP), KingstonB_93 (CP), Stillion_92 (CP),

Start 124:

- Found in 30 of 416 (7.2%) of genes in pham
- Manual Annotations of this start: 27 of 352
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ariel_118 (J), BAKA_122 (J), Bagrid_123 (J), BearBQ_70 (DN), Bobby_115 (J), BotCity_75 (DN), Courthouse_113 (J), DmpstrDiver_123 (J), Duke13_117 (J), Ejimix_117 (J), EricMillard_114 (J), GAL1_54 (singleton), Gaia_85 (X), Gonephishing_112 (J), Halley_125 (J), Hughesyang_122 (J), Kalah2_114 (J), Klein_119 (J), LittleE_122 (J), Minerva_120 (J), Nebkiss_84 (X), Optimus_113 (J), Phabuloso_75 (DN1), Pound_112 (J), Redno2_116 (J), Squint_116 (J), Superphikiman_115 (J), ThreeRngTarjay_118 (J), Wanda_122 (J), Zelink_117 (J),

Start 125:

- Found in 1 of 416 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 352
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bazzle_67 (L2),

Start 126:

- Found in 35 of 416 (8.4%) of genes in pham
- Manual Annotations of this start: 20 of 352
- Called 80.0% of time when present
- Phage (with cluster) where this start called: Baoshan_66 (L2), Breezona_67 (L2), ChutneyChips_63 (L4), Claus_67 (L2), Crossroads_67 (L2), DanBing_68 (L2), Finemlucis_67 (L2), Gabriela_64 (L2), Gardann_68 (L2), GuuelaD_66 (L2), Hafay_69 (L2), Itos_66 (L2), Kahlid_67 (L2), LilDestine_67 (L2), Loadrie_66 (L2), Lynnae_69 (L2), Miley16_67 (L2), MkaliMitinis3_68 (L2), OverPar_69 (L2), Rossetti_69 (L2), Rumpelstiltskin_66 (L2), Sarshaun_68 (L2), Tourach_66 (L2), Wigglewiggles_67 (L2), Wilder_68 (L2), Winky_67 (L2), Zakai_68 (L2), ZhongYanYuan_66 (L2),

Start 127:

- Found in 25 of 416 (6.0%) of genes in pham
- Manual Annotations of this start: 1 of 352
- Called 40.0% of time when present
- Phage (with cluster) where this start called: AdoptaAdorbs_29 (AS3), AlexMinion_32 (AS3), Amphitrite_30 (AS3), Azaz_30 (AS3), Camara_30 (AS3), Fingolfin_30 (AS3), KHumphrey_30 (AS3), Laphuphu24k_29 (AS3), Oppalora_29 (AS3), Rattail_30 (AS3),

Start 128:

- Found in 7 of 416 (1.7%) of genes in pham
- Manual Annotations of this start: 5 of 352
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Altostratus_54 (FS), Hum25_55 (FQ), Khuang_54 (FS), Merpity_54 (FQ), MrSmee_53 (FQ), Pitbull_53 (FQ), Skitty_47 (FQ),

Start 130:

- Found in 1 of 416 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 352
- Called 100.0% of time when present
- Phage (with cluster) where this start called: JustASigh_98 (AH),

Summary by clusters:

There are 27 clusters represented in this pham: DN, FQ, singleton, FS, GL, DN1, DU1, AS3, AS2, EI, F, AH, J, EC, GF, L4, L2, GA, V, Y, X, CP, ES, F1, F2, F4, F5,

Info for manual annotations of cluster AH:

- Start number 130 was manually annotated 1 time for cluster AH.

Info for manual annotations of cluster AS2:

- Start number 87 was manually annotated 1 time for cluster AS2.
- Start number 104 was manually annotated 12 times for cluster AS2.
- Start number 107 was manually annotated 3 times for cluster AS2.
- Start number 110 was manually annotated 1 time for cluster AS2.

Info for manual annotations of cluster AS3:

- Start number 104 was manually annotated 11 times for cluster AS3.
- Start number 110 was manually annotated 1 time for cluster AS3.
- Start number 127 was manually annotated 1 time for cluster AS3.

Info for manual annotations of cluster CP:

- Start number 97 was manually annotated 1 time for cluster CP.
- Start number 112 was manually annotated 4 times for cluster CP.

Info for manual annotations of cluster DN:

- Start number 124 was manually annotated 2 times for cluster DN.

Info for manual annotations of cluster DN1:

- Start number 124 was manually annotated 1 time for cluster DN1.

Info for manual annotations of cluster DU1:

- Start number 82 was manually annotated 2 times for cluster DU1.
- Start number 111 was manually annotated 1 time for cluster DU1.

Info for manual annotations of cluster EC:

- Start number 114 was manually annotated 12 times for cluster EC.
- Start number 116 was manually annotated 30 times for cluster EC.
- Start number 119 was manually annotated 2 times for cluster EC.

Info for manual annotations of cluster EI:

- Start number 112 was manually annotated 1 time for cluster EI.
- Start number 114 was manually annotated 5 times for cluster EI.
- Start number 115 was manually annotated 1 time for cluster EI.

Info for manual annotations of cluster F1:

- Start number 117 was manually annotated 169 times for cluster F1.

Info for manual annotations of cluster F2:

- Start number 117 was manually annotated 5 times for cluster F2.

Info for manual annotations of cluster F4:

- Start number 117 was manually annotated 4 times for cluster F4.

Info for manual annotations of cluster F5:

- Start number 117 was manually annotated 1 time for cluster F5.

Info for manual annotations of cluster FQ:

- Start number 128 was manually annotated 4 times for cluster FQ.

Info for manual annotations of cluster FS:

- Start number 128 was manually annotated 1 time for cluster FS.

Info for manual annotations of cluster GA:

- Start number 116 was manually annotated 7 times for cluster GA.

Info for manual annotations of cluster GF:

- Start number 118 was manually annotated 3 times for cluster GF.

Info for manual annotations of cluster GL:

- Start number 117 was manually annotated 1 time for cluster GL.

Info for manual annotations of cluster J:

- Start number 124 was manually annotated 22 times for cluster J.

Info for manual annotations of cluster L2:

- Start number 113 was manually annotated 6 times for cluster L2.
- Start number 125 was manually annotated 1 time for cluster L2.
- Start number 126 was manually annotated 20 times for cluster L2.

Info for manual annotations of cluster L4:

- Start number 91 was manually annotated 1 time for cluster L4.
- Start number 93 was manually annotated 1 time for cluster L4.

Info for manual annotations of cluster V:

- Start number 101 was manually annotated 5 times for cluster V.

Info for manual annotations of cluster X:

- Start number 124 was manually annotated 2 times for cluster X.

Info for manual annotations of cluster Y:

- Start number 101 was manually annotated 5 times for cluster Y.

Gene Information:

Gene: AdoptaAdorbs_29 Start: 20838, Stop: 20518, Start Num: 127

Candidate Starts for AdoptaAdorbs_29:

(2, 21273), (28, 21123), (83, 20928), (Start: 104 @20871 has 23 MA's), (Start: 127 @20838 has 1 MA's), (151, 20742),

Gene: AlexMinion_32 Start: 21027, Stop: 20707, Start Num: 127

Candidate Starts for AlexMinion_32:

(28, 21312), (83, 21117), (Start: 104 @21060 has 23 MA's), (Start: 127 @21027 has 1 MA's), (151, 20931), (161, 20880),

Gene: Alexphander_69 Start: 42282, Stop: 42644, Start Num: 117

Candidate Starts for Alexphander_69:

(Start: 117 @42282 has 180 MA's), (184, 42582), (198, 42627),

Gene: Altostratus_54 Start: 31416, Stop: 31790, Start Num: 128

Candidate Starts for Altostratus_54:

(Start: 128 @31416 has 5 MA's), (163, 31569), (200, 31749), (204, 31761),

Gene: Amelia_32 Start: 21518, Stop: 21165, Start Num: 104

Candidate Starts for Amelia_32:

(56, 21644), (67, 21605), (Start: 104 @21518 has 23 MA's), (151, 21389), (159, 21344), (181, 21224),

Gene: AmiCi24_29 Start: 20870, Stop: 20517, Start Num: 104

Candidate Starts for AmiCi24_29:

(2, 21272), (28, 21122), (83, 20927), (Start: 104 @20870 has 23 MA's), (Start: 127 @20837 has 1 MA's), (151, 20741),

Gene: Amo99_93 Start: 57523, Stop: 57891, Start Num: 120

Candidate Starts for Amo99_93:

(42, 57298), (Start: 112 @57511 has 5 MA's), (120, 57523), (179, 57772), (181, 57781), (186, 57805), (188, 57811), (202, 57853),

Gene: Amphitrite_30 Start: 20836, Stop: 20516, Start Num: 127

Candidate Starts for Amphitrite_30:

(2, 21271), (28, 21121), (83, 20926), (Start: 104 @20869 has 23 MA's), (Start: 127 @20836 has 1 MA's), (151, 20740),

Gene: Andrew_31 Start: 20815, Stop: 20462, Start Num: 110

Candidate Starts for Andrew_31:

(3, 21166), (83, 20890), (Start: 110 @20815 has 2 MA's), (151, 20686), (181, 20521),

Gene: Antares_54 Start: 35918, Stop: 36367, Start Num: 116

Candidate Starts for Antares_54:

(Start: 116 @35918 has 37 MA's), (161, 36077), (179, 36182), (180, 36188), (195, 36245), (213, 36362),

Gene: Antrice_34 Start: 22599, Stop: 22243, Start Num: 107

Candidate Starts for Antrice_34:

(56, 22743), (83, 22668), (Start: 107 @22599 has 3 MA's), (Start: 127 @22563 has 1 MA's), (144, 22491), (151, 22467),

Gene: Antuna_42 Start: 25698, Stop: 26075, Start Num: 116

Candidate Starts for Antuna_42:

(Start: 116 @25698 has 37 MA's), (139, 25761), (146, 25788), (179, 25962), (180, 25968), (184, 25989), (207, 26064),

Gene: ArcusAngelus_67 Start: 42632, Stop: 42994, Start Num: 117

Candidate Starts for ArcusAngelus_67:

(Start: 117 @42632 has 180 MA's), (159, 42791), (184, 42932), (185, 42935), (198, 42977),

Gene: Ardmore_57 Start: 40049, Stop: 40405, Start Num: 117

Candidate Starts for Ardmore_57:

(Start: 117 @40049 has 180 MA's), (184, 40349), (185, 40352),

Gene: Ariadne_62 Start: 37502, Stop: 37951, Start Num: 116

Candidate Starts for Ariadne_62:

(98, 37460), (Start: 116 @37502 has 37 MA's), (137, 37553), (161, 37661), (179, 37766), (180, 37772), (213, 37946),

Gene: Ariel_118 Start: 64179, Stop: 64499, Start Num: 124

Candidate Starts for Ariel_118:

(Start: 124 @64179 has 27 MA's), (141, 64248), (154, 64290), (173, 64407),

Gene: Atlantica_30 Start: 20871, Stop: 20518, Start Num: 104

Candidate Starts for Atlantica_30:

(2, 21273), (28, 21123), (83, 20928), (Start: 104 @20871 has 23 MA's), (Start: 127 @20838 has 1 MA's), (151, 20742),

Gene: Aubs_65 Start: 42690, Stop: 43052, Start Num: 117

Candidate Starts for Aubs_65:

(71, 42573), (Start: 117 @42690 has 180 MA's), (159, 42849), (184, 42990), (198, 43035),

Gene: AuntGwenStacy_65 Start: 45161, Stop: 45511, Start Num: 101

Candidate Starts for AuntGwenStacy_65:

(75, 45089), (88, 45119), (Start: 101 @45161 has 10 MA's), (Start: 110 @45176 has 2 MA's), (123, 45194), (137, 45242), (138, 45248), (149, 45284), (167, 45368), (168, 45374), (171, 45404), (179, 45437),

Gene: Avani_73 Start: 42666, Stop: 43022, Start Num: 117

Candidate Starts for Avani_73:

(Start: 117 @42666 has 180 MA's), (184, 42966), (185, 42969),

Gene: Azaz_30 Start: 20910, Stop: 20590, Start Num: 127

Candidate Starts for Azaz_30:

(28, 21195), (83, 21000), (Start: 104 @20943 has 23 MA's), (Start: 127 @20910 has 1 MA's), (151, 20814), (161, 20763),

Gene: Azrael100_76 Start: 48787, Stop: 49152, Start Num: 101

Candidate Starts for Azrael100_76:

(81, 48724), (Start: 101 @48787 has 10 MA's), (165, 48979), (185, 49099), (194, 49132),

Gene: BAKA_122 Start: 67774, Stop: 68106, Start Num: 124

Candidate Starts for BAKA_122:

(Start: 124 @67774 has 27 MA's), (141, 67843), (164, 67933), (165, 67936), (173, 68002),

Gene: Babushka_27 Start: 20785, Stop: 20432, Start Num: 104

Candidate Starts for Babushka_27:

(28, 21037), (83, 20842), (Start: 104 @20785 has 23 MA's), (Start: 127 @20752 has 1 MA's), (151, 20656), (161, 20605), (181, 20491), (186, 20467),

Gene: Bagrid_123 Start: 67735, Stop: 68064, Start Num: 124

Candidate Starts for Bagrid_123:

(Start: 124 @67735 has 27 MA's), (141, 67804), (173, 67963), (193, 68047),

Gene: Baoshan_66 Start: 46306, Stop: 46692, Start Num: 126

Candidate Starts for Baoshan_66:

(52, 46120), (61, 46153), (95, 46249), (Start: 113 @46288 has 6 MA's), (Start: 126 @46306 has 20 MA's), (156, 46423), (161, 46450), (173, 46528), (212, 46675),

Gene: Batiatus_63 Start: 41925, Stop: 42281, Start Num: 117

Candidate Starts for Batiatus_63:

(Start: 117 @41925 has 180 MA's), (184, 42225), (185, 42228),

Gene: Bazzle_67 Start: 46701, Stop: 47099, Start Num: 125

Candidate Starts for Bazzle_67:

(Start: 125 @46701 has 1 MA's), (156, 46818), (161, 46845), (173, 46923), (180, 46956), (212, 47070),

Gene: BeagleBug_53 Start: 35699, Stop: 36148, Start Num: 116

Candidate Starts for BeagleBug_53:

(Start: 116 @35699 has 37 MA's), (161, 35858), (179, 35963), (180, 35969), (195, 36026), (213, 36143),

Gene: Beakin_66 Start: 41229, Stop: 41591, Start Num: 117

Candidate Starts for Beakin_66:

(Start: 117 @41229 has 180 MA's), (159, 41388), (184, 41529), (185, 41532), (198, 41574),

Gene: BearBQ_70 Start: 44365, Stop: 44712, Start Num: 124

Candidate Starts for BearBQ_70:

(78, 44251), (109, 44341), (Start: 124 @44365 has 27 MA's), (131, 44386), (135, 44404), (137, 44413), (154, 44488), (173, 44605), (179, 44635), (185, 44665), (193, 44692), (196, 44704),

Gene: Bedetta_34 Start: 21656, Stop: 21303, Start Num: 104

Candidate Starts for Bedetta_34:

(56, 21782), (67, 21743), (Start: 104 @21656 has 23 MA's), (151, 21527), (159, 21482), (181, 21362),

Gene: BigCheese_67 Start: 46345, Stop: 46764, Start Num: 113

Candidate Starts for BigCheese_67:

(34, 46084), (52, 46177), (Start: 113 @46345 has 6 MA's), (Start: 126 @46363 has 20 MA's), (156, 46480), (161, 46507), (173, 46585), (212, 46732),

Gene: Bipolar_65 Start: 42690, Stop: 43052, Start Num: 117

Candidate Starts for Bipolar_65:

(Start: 117 @42690 has 180 MA's), (159, 42849), (184, 42990), (198, 43035),

Gene: Bipper_62 Start: 43632, Stop: 43982, Start Num: 101

Candidate Starts for Bipper_62:

(29, 43371), (51, 43479), (53, 43488), (75, 43560), (88, 43590), (Start: 101 @43632 has 10 MA's), (Start: 110 @43647 has 2 MA's), (121, 43662), (129, 43680), (137, 43713), (149, 43755), (170, 43869), (184, 43935),

Gene: Blarby_78 Start: 44162, Stop: 44503, Start Num: 117

Candidate Starts for Blarby_78:

(103, 44147), (Start: 117 @44162 has 180 MA's), (184, 44462), (185, 44465),

Gene: Blett_41 Start: 25800, Stop: 26177, Start Num: 116

Candidate Starts for Blett_41:

(Start: 116 @25800 has 37 MA's), (139, 25863), (146, 25890), (160, 25956), (179, 26064), (180, 26070), (184, 26091), (207, 26166),

Gene: Blexus_63 Start: 42819, Stop: 43181, Start Num: 117

Candidate Starts for Blexus_63:

(Start: 117 @42819 has 180 MA's), (159, 42978), (184, 43119), (198, 43164),

Gene: BlueCrab_66 Start: 43528, Stop: 43884, Start Num: 117

Candidate Starts for BlueCrab_66:

(Start: 117 @43528 has 180 MA's), (163, 43702), (184, 43828),

Gene: BobaPhett_69 Start: 45114, Stop: 45476, Start Num: 117

Candidate Starts for BobaPhett_69:

(Start: 117 @45114 has 180 MA's), (159, 45273), (163, 45288), (184, 45414), (198, 45459),

Gene: Bobby_115 Start: 69193, Stop: 69522, Start Num: 124

Candidate Starts for Bobby_115:

(Start: 124 @69193 has 27 MA's), (141, 69262), (164, 69352), (165, 69355), (173, 69421), (193, 69505),

Gene: Bobi_69 Start: 43528, Stop: 43884, Start Num: 117

Candidate Starts for Bobi_69:

(Start: 117 @43528 has 180 MA's), (184, 43828), (185, 43831),

Gene: BobsGarage_67 Start: 46345, Stop: 46764, Start Num: 113

Candidate Starts for BobsGarage_67:

(34, 46084), (52, 46177), (Start: 113 @46345 has 6 MA's), (Start: 126 @46363 has 20 MA's), (156, 46480), (161, 46507), (173, 46585), (212, 46732),

Gene: BodEinwohner17_66 Start: 42524, Stop: 42886, Start Num: 117

Candidate Starts for BodEinwohner17_66:

(72, 42419), (74, 42425), (95, 42479), (Start: 117 @42524 has 180 MA's), (131, 42557), (184, 42824), (185, 42827), (198, 42869),

Gene: Boomer_70 Start: 44186, Stop: 44542, Start Num: 117

Candidate Starts for Boomer_70:

(Start: 117 @44186 has 180 MA's), (184, 44486), (185, 44489),

Gene: BotCity_75 Start: 44601, Stop: 44948, Start Num: 124

Candidate Starts for BotCity_75:

(78, 44487), (109, 44577), (Start: 124 @44601 has 27 MA's), (131, 44622), (135, 44640), (137, 44649), (154, 44724), (173, 44841), (179, 44871), (185, 44901), (193, 44928), (196, 44940),

Gene: BrazzalePHS_53 Start: 35714, Stop: 36163, Start Num: 116

Candidate Starts for BrazzalePHS_53:

(24, 35405), (25, 35408), (58, 35549), (80, 35621), (Start: 116 @35714 has 37 MA's), (179, 35978), (180, 35984), (195, 36041), (213, 36158),

Gene: Breezona_67 Start: 46363, Stop: 46764, Start Num: 126

Candidate Starts for Breezona_67:

(34, 46084), (52, 46177), (Start: 113 @46345 has 6 MA's), (Start: 126 @46363 has 20 MA's), (156, 46480), (161, 46507), (173, 46585), (212, 46732),

Gene: Brocalys_60 Start: 39296, Stop: 39658, Start Num: 117

Candidate Starts for Brocalys_60:

(71, 39179), (Start: 117 @39296 has 180 MA's), (159, 39455), (184, 39596), (198, 39641),

Gene: Bromden_67 Start: 46292, Stop: 46696, Start Num: 93

Candidate Starts for Bromden_67:

(27, 46049), (32, 46061), (36, 46079), (46, 46139), (73, 46238), (Start: 93 @46292 has 1 MA's), (156, 46415), (161, 46442), (192, 46601),

Gene: Brushbloom_67 Start: 42857, Stop: 43213, Start Num: 117

Candidate Starts for Brushbloom_67:

(Start: 117 @42857 has 180 MA's), (184, 43157), (185, 43160),

Gene: Burwell21_63 Start: 42397, Stop: 42759, Start Num: 117

Candidate Starts for Burwell21_63:

(71, 42280), (Start: 117 @42397 has 180 MA's), (159, 42556), (184, 42697), (198, 42742),

Gene: Busephilis_53 Start: 35622, Stop: 36074, Start Num: 114

Candidate Starts for Busephilis_53:

(Start: 114 @35622 has 17 MA's), (137, 35676), (161, 35784), (179, 35889), (195, 35952), (213, 36069),

Gene: Bush_42 Start: 25748, Stop: 26125, Start Num: 116

Candidate Starts for Bush_42:

(Start: 116 @25748 has 37 MA's), (139, 25811), (146, 25838), (160, 25904), (179, 26012), (180, 26018), (184, 26039), (207, 26114),

Gene: BuzzLyseyear_71 Start: 43599, Stop: 43961, Start Num: 117

Candidate Starts for BuzzLyseyear_71:

(Start: 117 @43599 has 180 MA's), (159, 43758), (184, 43899), (185, 43902), (198, 43944),

Gene: ByChance_58 Start: 38456, Stop: 38818, Start Num: 117

Candidate Starts for ByChance_58:

(Start: 117 @38456 has 180 MA's), (159, 38615), (163, 38630), (184, 38756), (198, 38801),

Gene: Byougenkin_65 Start: 42188, Stop: 42544, Start Num: 117

Candidate Starts for Byougenkin_65:

(Start: 117 @42188 has 180 MA's), (184, 42488), (185, 42491),

Gene: Cabrinians_66 Start: 42475, Stop: 42837, Start Num: 117

Candidate Starts for Cabrinians_66:

(Start: 117 @42475 has 180 MA's), (163, 42649), (184, 42775), (198, 42820),

Gene: Camara_30 Start: 20839, Stop: 20519, Start Num: 127

Candidate Starts for Camara_30:

(2, 21274), (28, 21124), (83, 20929), (Start: 104 @20872 has 23 MA's), (Start: 127 @20839 has 1 MA's), (151, 20743),

Gene: CaptainTrips_63 Start: 42210, Stop: 42572, Start Num: 117

Candidate Starts for CaptainTrips_63:

(71, 42093), (Start: 117 @42210 has 180 MA's), (159, 42369), (184, 42510), (198, 42555),

Gene: Carrillo_43 Start: 25721, Stop: 26098, Start Num: 116

Candidate Starts for Carrillo_43:

(Start: 116 @25721 has 37 MA's), (139, 25784), (146, 25811), (158, 25871), (179, 25985), (180, 25991), (207, 26087),

Gene: Che8_70 Start: 45095, Stop: 45457, Start Num: 117

Candidate Starts for Che8_70:

(Start: 117 @45095 has 180 MA's), (159, 45254), (184, 45395), (185, 45398), (198, 45440),

Gene: Che9d_75 Start: 42864, Stop: 43220, Start Num: 117

Candidate Starts for Che9d_75:

(Start: 117 @42864 has 180 MA's), (159, 43023), (184, 43164), (185, 43167),

Gene: Cheesepuff_74 Start: 44480, Stop: 44842, Start Num: 117

Candidate Starts for Cheesepuff_74:

(Start: 117 @44480 has 180 MA's), (159, 44639), (184, 44780), (198, 44825),

Gene: Chevrolet_70 Start: 42633, Stop: 42995, Start Num: 117

Candidate Starts for Chevrolet_70:

(Start: 117 @42633 has 180 MA's), (184, 42933), (185, 42936), (198, 42978),

Gene: Chuckly_68 Start: 42655, Stop: 43011, Start Num: 117

Candidate Starts for Chuckly_68:

(Start: 117 @42655 has 180 MA's), (184, 42955), (185, 42958),

Gene: ChutneyChips_63 Start: 45296, Stop: 45694, Start Num: 126

Candidate Starts for ChutneyChips_63:

(17, 44936), (22, 44954), (27, 44972), (36, 45002), (46, 45062), (109, 45263), (Start: 126 @45296 has 20 MA's), (156, 45413), (161, 45440), (192, 45599), (212, 45665),

Gene: Cinna_52 Start: 36948, Stop: 37283, Start Num: 114

Candidate Starts for Cinna_52:

(85, 36891), (106, 36936), (108, 36939), (Start: 114 @36948 has 17 MA's), (131, 36975), (156, 37083), (169, 37158), (173, 37188), (177, 37209), (186, 37248),

Gene: Claus_67 Start: 46444, Stop: 46830, Start Num: 126

Candidate Starts for Claus_67:

(52, 46258), (95, 46387), (Start: 113 @46426 has 6 MA's), (Start: 126 @46444 has 20 MA's), (156, 46561), (161, 46588), (173, 46666), (212, 46813),

Gene: Clawz_89 Start: 57153, Stop: 57563, Start Num: 97

Candidate Starts for Clawz_89:

(76, 57102), (79, 57108), (Start: 82 @57114 has 2 MA's), (88, 57126), (Start: 97 @57153 has 1 MA's), (Start: 112 @57183 has 5 MA's), (179, 57444), (181, 57453), (200, 57522), (205, 57540),

Gene: ClearAsMud_57 Start: 36175, Stop: 36624, Start Num: 116

Candidate Starts for ClearAsMud_57:

(21, 35857), (41, 35944), (44, 35962), (71, 36061), (92, 36115), (Start: 116 @36175 has 37 MA's), (161, 36334), (167, 36370), (174, 36424), (179, 36439), (180, 36445), (195, 36502), (213, 36619),

Gene: Clifton_60 Start: 39647, Stop: 40009, Start Num: 117

Candidate Starts for Clifton_60:

(71, 39530), (Start: 117 @39647 has 180 MA's), (159, 39806), (184, 39947), (198, 39992),

Gene: ColdSoup_93 Start: 57604, Stop: 57972, Start Num: 120

Candidate Starts for ColdSoup_93:

(42, 57379), (Start: 112 @57592 has 5 MA's), (120, 57604), (179, 57853), (181, 57862), (186, 57886), (188, 57892), (202, 57934),

Gene: Colusalem_32 Start: 21495, Stop: 21142, Start Num: 104

Candidate Starts for Colusalem_32:

(56, 21621), (67, 21582), (Start: 104 @21495 has 23 MA's), (151, 21366), (159, 21321), (181, 21201),

Gene: CookieDog_41 Start: 25721, Stop: 26098, Start Num: 116

Candidate Starts for CookieDog_41:

(Start: 116 @25721 has 37 MA's), (139, 25784), (146, 25811), (179, 25985), (180, 25991), (207, 26087),

Gene: Coral_31 Start: 21357, Stop: 21004, Start Num: 104

Candidate Starts for Coral_31:

(56, 21483), (67, 21444), (Start: 104 @21357 has 23 MA's), (151, 21228), (159, 21183), (181, 21063),

Gene: Cornie_63 Start: 40942, Stop: 41304, Start Num: 117

Candidate Starts for Cornie_63:

(Start: 117 @40942 has 180 MA's), (159, 41101), (184, 41242), (198, 41287),

Gene: Cosmo_77 Start: 48788, Stop: 49153, Start Num: 101

Candidate Starts for Cosmo_77:

(81, 48725), (Start: 101 @48788 has 10 MA's), (165, 48980), (185, 49100), (194, 49133),

Gene: Cote_33 Start: 21834, Stop: 21481, Start Num: 104

Candidate Starts for Cote_33:

(56, 21960), (67, 21921), (Start: 104 @21834 has 23 MA's), (151, 21705), (159, 21660), (181, 21540),

Gene: Courthouse_113 Start: 63779, Stop: 64099, Start Num: 124

Candidate Starts for Courthouse_113:

(Start: 124 @63779 has 27 MA's), (141, 63848), (154, 63890), (173, 64007),

Gene: Cracklewink_62 Start: 43613, Stop: 43963, Start Num: 101

Candidate Starts for Cracklewink_62:

(29, 43352), (51, 43460), (53, 43469), (75, 43541), (88, 43571), (Start: 101 @43613 has 10 MA's),
(Start: 110 @43628 has 2 MA's), (129, 43661), (137, 43694), (149, 43736), (170, 43850), (184, 43916),

Gene: Cranjis_55 Start: 35873, Stop: 36322, Start Num: 116

Candidate Starts for Cranjis_55:

(6, 35447), (24, 35564), (25, 35567), (58, 35708), (80, 35780), (Start: 116 @35873 has 37 MA's), (179, 36137), (180, 36143), (195, 36200), (213, 36317),

Gene: CrazyRich_53 Start: 35682, Stop: 36131, Start Num: 116

Candidate Starts for CrazyRich_53:

(24, 35373), (25, 35376), (58, 35517), (80, 35589), (Start: 116 @35682 has 37 MA's), (161, 35841),
(179, 35946), (180, 35952), (195, 36009), (213, 36126),

Gene: Cressida_55 Start: 36599, Stop: 36934, Start Num: 114

Candidate Starts for Cressida_55:

(8, 36272), (9, 36275), (13, 36281), (18, 36305), (23, 36314), (85, 36542), (106, 36587), (108, 36590),
(Start: 114 @36599 has 17 MA's), (131, 36626), (153, 36716), (156, 36734), (169, 36809), (173, 36839), (179, 36866),

Gene: Crisis_55 Start: 35673, Stop: 36122, Start Num: 116

Candidate Starts for Crisis_55:

(24, 35364), (25, 35367), (58, 35508), (80, 35580), (Start: 116 @35673 has 37 MA's), (161, 35832),
(179, 35937), (180, 35943), (195, 36000), (213, 36117),

Gene: Crossroads_67 Start: 46441, Stop: 46839, Start Num: 126

Candidate Starts for Crossroads_67:

(34, 46162), (52, 46255), (Start: 113 @46423 has 6 MA's), (Start: 126 @46441 has 20 MA's), (161, 46585), (173, 46663), (212, 46810),

Gene: Crumble_60 Start: 38411, Stop: 38773, Start Num: 117

Candidate Starts for Crumble_60:

(Start: 117 @38411 has 180 MA's), (159, 38570), (163, 38585), (184, 38711), (198, 38756),

Gene: Cygnet_31 Start: 22172, Stop: 21816, Start Num: 107

Candidate Starts for Cygnet_31:

(56, 22316), (83, 22241), (Start: 107 @22172 has 3 MA's), (Start: 127 @22136 has 1 MA's), (136, 22097), (144, 22064), (151, 22040),

Gene: DHan_68 Start: 46287, Stop: 46730, Start Num: 95

Candidate Starts for DHan_68:

(52, 46158), (95, 46287), (Start: 113 @46326 has 6 MA's), (Start: 126 @46344 has 20 MA's), (156, 46461), (161, 46488), (173, 46566), (212, 46713),

Gene: DLane_60 Start: 40555, Stop: 40917, Start Num: 117

Candidate Starts for DLane_60:

(Start: 117 @40555 has 180 MA's), (184, 40855), (185, 40858), (198, 40900),

Gene: DRBy19_69 Start: 43907, Stop: 44263, Start Num: 117

Candidate Starts for DRBy19_69:

(71, 43790), (Start: 117 @43907 has 180 MA's), (163, 44081), (184, 44207), (185, 44210), (198, 44246),

Gene: DaWorst_65 Start: 42022, Stop: 42384, Start Num: 117

Candidate Starts for DaWorst_65:

(Start: 117 @42022 has 180 MA's), (159, 42181), (184, 42322), (198, 42367),

Gene: DanBing_68 Start: 46313, Stop: 46699, Start Num: 126

Candidate Starts for DanBing_68:

(52, 46127), (95, 46256), (Start: 113 @46295 has 6 MA's), (Start: 126 @46313 has 20 MA's), (156, 46430), (161, 46457), (173, 46535), (212, 46682),

Gene: DanHam62_30 Start: 20871, Stop: 20518, Start Num: 104

Candidate Starts for DanHam62_30:

(2, 21273), (28, 21123), (83, 20928), (Start: 104 @20871 has 23 MA's), (Start: 127 @20838 has 1 MA's), (151, 20742),

Gene: Dante_66 Start: 41796, Stop: 42161, Start Num: 117

Candidate Starts for Dante_66:

(Start: 117 @41796 has 180 MA's), (159, 41955), (184, 42096), (191, 42120),

Gene: Daob_33 Start: 21852, Stop: 21499, Start Num: 104

Candidate Starts for Daob_33:

(56, 21978), (67, 21939), (Start: 104 @21852 has 23 MA's), (151, 21723), (181, 21558),

Gene: DeadP_72 Start: 44907, Stop: 45269, Start Num: 117

Candidate Starts for DeadP_72:

(103, 44892), (Start: 117 @44907 has 180 MA's), (184, 45207), (185, 45210), (198, 45252),

Gene: Deb65_60 Start: 41299, Stop: 41661, Start Num: 117

Candidate Starts for Deb65_60:

(72, 41194), (74, 41200), (95, 41254), (Start: 117 @41299 has 180 MA's), (131, 41332), (184, 41599), (185, 41602), (198, 41644),

Gene: DelaGarza_58 Start: 33298, Stop: 33687, Start Num: 118

Candidate Starts for DelaGarza_58:

(Start: 118 @33298 has 3 MA's), (154, 33424), (170, 33532), (201, 33652),

Gene: DillTech15_63 Start: 40922, Stop: 41284, Start Num: 117

Candidate Starts for DillTech15_63:

(Start: 107 @40907 has 3 MA's), (Start: 117 @40922 has 180 MA's), (184, 41222), (198, 41267),

Gene: DirtMcgirt_64 Start: 40554, Stop: 40916, Start Num: 117

Candidate Starts for DirtMcgirt_64:

(Start: 117 @40554 has 180 MA's), (159, 40713), (184, 40854), (185, 40857), (198, 40899),

Gene: DmpstrDiver_123 Start: 68024, Stop: 68353, Start Num: 124

Candidate Starts for DmpstrDiver_123:

(Start: 124 @68024 has 27 MA's), (141, 68093), (173, 68252), (193, 68336),

Gene: DoRead_69 Start: 42341, Stop: 42703, Start Num: 117

Candidate Starts for DoRead_69:

(86, 42263), (89, 42272), (100, 42305), (Start: 117 @42341 has 180 MA's), (198, 42686),

Gene: DonTron_91 Start: 57708, Stop: 58088, Start Num: 112

Candidate Starts for DonTron_91:

(26, 57420), (42, 57495), (62, 57582), (Start: 112 @57708 has 5 MA's), (120, 57720), (179, 57969), (181, 57978), (186, 58002), (188, 58008), (202, 58050),

Gene: Donkeykong_68 Start: 44468, Stop: 44830, Start Num: 117

Candidate Starts for Donkeykong_68:

(Start: 117 @44468 has 180 MA's), (184, 44768), (185, 44771), (198, 44813),

Gene: Doomslug_74 Start: 42992, Stop: 43354, Start Num: 117

Candidate Starts for Doomslug_74:

(71, 42875), (Start: 117 @42992 has 180 MA's), (159, 43151), (184, 43292), (185, 43295), (198, 43337),

Gene: DosHalletts_67 Start: 43303, Stop: 43665, Start Num: 117

Candidate Starts for DosHalletts_67:

(Start: 117 @43303 has 180 MA's), (159, 43462), (184, 43603), (185, 43606), (198, 43648),

Gene: DotProduct_60 Start: 40802, Stop: 41164, Start Num: 117

Candidate Starts for DotProduct_60:

(Start: 117 @40802 has 180 MA's), (184, 41102), (185, 41105), (198, 41147),

Gene: Doug_67 Start: 42635, Stop: 42997, Start Num: 117

Candidate Starts for Doug_67:

(Start: 117 @42635 has 180 MA's), (184, 42935), (198, 42980),

Gene: Douge_65 Start: 45034, Stop: 45432, Start Num: 91

Candidate Starts for Douge_65:

(69, 44974), (Start: 82 @45007 has 2 MA's), (Start: 91 @45034 has 1 MA's), (156, 45151), (161, 45178), (192, 45337),

Gene: Douzhi_65 Start: 45087, Stop: 45485, Start Num: 91

Candidate Starts for Douzhi_65:

(Start: 91 @45087 has 1 MA's), (161, 45231), (192, 45390),

Gene: Drago_62 Start: 40557, Stop: 40919, Start Num: 117

Candidate Starts for Drago_62:

(Start: 117 @40557 has 180 MA's), (159, 40716), (184, 40857), (185, 40860), (198, 40902),

Gene: Duke13_117 Start: 65442, Stop: 65774, Start Num: 124

Candidate Starts for Duke13_117:

(Start: 124 @65442 has 27 MA's), (141, 65511), (164, 65601), (165, 65604), (173, 65670),

Gene: Eish_68 Start: 42537, Stop: 42899, Start Num: 117

Candidate Starts for Eish_68:

(Start: 117 @42537 has 180 MA's), (159, 42696), (184, 42837), (185, 42840), (198, 42882),

Gene: Ejimix_117 Start: 69176, Stop: 69505, Start Num: 124

Candidate Starts for Ejimix_117:

(Start: 124 @69176 has 27 MA's), (141, 69245), (164, 69335), (165, 69338), (173, 69404), (193, 69488),

Gene: EleanorGeorge_67 Start: 43317, Stop: 43673, Start Num: 117

Candidate Starts for EleanorGeorge_67:

(Start: 117 @43317 has 180 MA's), (159, 43476), (184, 43617), (185, 43620),

Gene: Emma_67 Start: 42045, Stop: 42407, Start Num: 117

Candidate Starts for Emma_67:

(Start: 117 @42045 has 180 MA's), (133, 42087), (159, 42204), (184, 42345), (198, 42390),

Gene: Emmaloid_67 Start: 43062, Stop: 43424, Start Num: 117

Candidate Starts for Emmaloid_67:

(Start: 117 @43062 has 180 MA's), (184, 43362), (185, 43365), (198, 43407),

Gene: Empress_64 Start: 42743, Stop: 43105, Start Num: 117

Candidate Starts for Empress_64:

(72, 42638), (74, 42644), (95, 42698), (Start: 117 @42743 has 180 MA's), (131, 42776), (184, 43043), (185, 43046), (198, 43088),

Gene: Enby_66 Start: 40833, Stop: 41195, Start Num: 117

Candidate Starts for Enby_66:

(Start: 117 @40833 has 180 MA's), (159, 40992), (184, 41133), (185, 41136), (198, 41178),

Gene: EniyanLRS_168 Start: 48527, Stop: 48892, Start Num: 101

Candidate Starts for EniyanLRS_168:

(81, 48464), (Start: 101 @48527 has 10 MA's), (165, 48719), (185, 48839), (194, 48872),

Gene: Eradicator_58 Start: 40449, Stop: 40811, Start Num: 117

Candidate Starts for Eradicator_58:

(Start: 117 @40449 has 180 MA's), (159, 40608), (184, 40749), (185, 40752), (198, 40794),

Gene: EricMillard_114 Start: 67411, Stop: 67743, Start Num: 124

Candidate Starts for EricMillard_114:

(Start: 124 @67411 has 27 MA's), (141, 67480), (164, 67570), (165, 67573), (173, 67639),

Gene: Estave1_70 Start: 44873, Stop: 45235, Start Num: 117

Candidate Starts for Estave1_70:

(Start: 117 @44873 has 180 MA's), (159, 45032), (163, 45047), (184, 45173), (185, 45176), (198, 45218),

Gene: Faiyaz_65 Start: 45151, Stop: 45501, Start Num: 101

Candidate Starts for Faiyaz_65:

(75, 45079), (88, 45109), (Start: 101 @45151 has 10 MA's), (Start: 110 @45166 has 2 MA's), (123, 45184), (137, 45232), (138, 45238), (149, 45274), (167, 45358), (171, 45394),

Gene: Fancypants_68 Start: 43057, Stop: 43419, Start Num: 117
Candidate Starts for Fancypants_68:
(Start: 107 @43042 has 3 MA's), (Start: 117 @43057 has 180 MA's), (159, 43216), (184, 43357), (198, 43402),

Gene: FarmResident_67 Start: 45043, Stop: 45441, Start Num: 91
Candidate Starts for FarmResident_67:
(Start: 91 @45043 has 1 MA's), (156, 45160), (161, 45187), (192, 45346),

Gene: Fastidio_66 Start: 41072, Stop: 41428, Start Num: 117
Candidate Starts for Fastidio_66:
(103, 41057), (Start: 117 @41072 has 180 MA's), (159, 41231), (184, 41372), (185, 41375),

Gene: Filuzino_63 Start: 40860, Stop: 41222, Start Num: 117
Candidate Starts for Filuzino_63:
(Start: 117 @40860 has 180 MA's), (184, 41160), (185, 41163), (198, 41205),

Gene: Finemlucis_67 Start: 46684, Stop: 47085, Start Num: 126
Candidate Starts for Finemlucis_67:
(34, 46405), (52, 46498), (Start: 113 @46666 has 6 MA's), (Start: 126 @46684 has 20 MA's), (156, 46801), (161, 46828), (173, 46906), (212, 47053),

Gene: Fingolfin_30 Start: 20839, Stop: 20519, Start Num: 127
Candidate Starts for Fingolfin_30:
(2, 21274), (28, 21124), (83, 20929), (Start: 104 @20872 has 23 MA's), (Start: 127 @20839 has 1 MA's), (151, 20743),

Gene: Fireman_56 Start: 37569, Stop: 38018, Start Num: 116
Candidate Starts for Fireman_56:
(Start: 116 @37569 has 37 MA's), (137, 37620), (161, 37728), (179, 37833), (180, 37839), (213, 38013),

Gene: Flathead_66 Start: 42514, Stop: 42876, Start Num: 117
Candidate Starts for Flathead_66:
(Start: 117 @42514 has 180 MA's), (184, 42814), (185, 42817), (198, 42859),

Gene: Florinda_76 Start: 43974, Stop: 44336, Start Num: 117
Candidate Starts for Florinda_76:
(Start: 117 @43974 has 180 MA's), (184, 44274), (185, 44277), (198, 44319),

Gene: FreddyB_66 Start: 41323, Stop: 41679, Start Num: 117
Candidate Starts for FreddyB_66:
(Start: 117 @41323 has 180 MA's), (163, 41497), (184, 41623),

Gene: GAL1_54 Start: 37553, Stop: 37900, Start Num: 124
Candidate Starts for GAL1_54:
(99, 37502), (Start: 124 @37553 has 27 MA's), (131, 37574), (135, 37592), (137, 37601), (154, 37676), (165, 37727), (172, 37790), (173, 37793), (179, 37823), (185, 37853), (193, 37880), (196, 37892),

Gene: GUmbie_63 Start: 41676, Stop: 42038, Start Num: 117
Candidate Starts for GUmbie_63:
(Start: 117 @41676 has 180 MA's), (159, 41835), (184, 41976), (185, 41979), (198, 42021),

Gene: Gabriela_64 Start: 44813, Stop: 45211, Start Num: 126

Candidate Starts for Gabriela_64:

(34, 44534), (52, 44627), (Start: 113 @44795 has 6 MA's), (Start: 126 @44813 has 20 MA's), (156, 44930), (161, 44957), (173, 45035), (212, 45182),

Gene: Gaia_85 Start: 50308, Stop: 50631, Start Num: 124

Candidate Starts for Gaia_85:

(Start: 124 @50308 has 27 MA's), (140, 50371), (185, 50596), (186, 50599),

Gene: Galactic_64 Start: 41833, Stop: 42195, Start Num: 117

Candidate Starts for Galactic_64:

(Start: 117 @41833 has 180 MA's), (159, 41992), (184, 42133), (198, 42178),

Gene: Ganandorf_53 Start: 35703, Stop: 36155, Start Num: 114

Candidate Starts for Ganandorf_53:

(Start: 114 @35703 has 17 MA's), (137, 35757), (161, 35865), (179, 35970), (180, 35976), (195, 36033), (213, 36150),

Gene: Gandalph_68 Start: 42720, Stop: 43082, Start Num: 117

Candidate Starts for Gandalph_68:

(71, 42603), (Start: 117 @42720 has 180 MA's), (159, 42879), (184, 43020), (185, 43023), (198, 43065),

Gene: Gardann_68 Start: 46399, Stop: 46797, Start Num: 126

Candidate Starts for Gardann_68:

(34, 46120), (52, 46213), (Start: 113 @46381 has 6 MA's), (Start: 126 @46399 has 20 MA's), (156, 46516), (161, 46543), (173, 46621), (212, 46768),

Gene: Geralt_60 Start: 41298, Stop: 41660, Start Num: 117

Candidate Starts for Geralt_60:

(72, 41193), (74, 41199), (95, 41253), (Start: 117 @41298 has 180 MA's), (131, 41331), (184, 41598), (185, 41601), (198, 41643),

Gene: GigiOuiOui_61 Start: 40822, Stop: 41184, Start Num: 117

Candidate Starts for GigiOuiOui_61:

(Start: 117 @40822 has 180 MA's), (184, 41122), (185, 41125), (198, 41167),

Gene: Gina_56 Start: 35677, Stop: 36126, Start Num: 116

Candidate Starts for Gina_56:

(98, 35638), (Start: 116 @35677 has 37 MA's), (137, 35728), (161, 35836), (179, 35941), (180, 35947), (203, 36025),

Gene: Girafales_73 Start: 43765, Stop: 44127, Start Num: 117

Candidate Starts for Girafales_73:

(Start: 117 @43765 has 180 MA's), (184, 44065), (185, 44068), (198, 44110),

Gene: Girr_63 Start: 41692, Stop: 42054, Start Num: 117

Candidate Starts for Girr_63:

(Start: 117 @41692 has 180 MA's), (184, 41992), (198, 42037),

Gene: Glorp_55 Start: 35704, Stop: 36156, Start Num: 114

Candidate Starts for Glorp_55:

(Start: 114 @35704 has 17 MA's), (137, 35758), (153, 35821), (161, 35866), (179, 35971), (180, 35977), (195, 36034), (213, 36151),

Gene: Glotell_31 Start: 21028, Stop: 20675, Start Num: 104

Candidate Starts for Glotell_31:

(2, 21430), (28, 21280), (83, 21085), (Start: 104 @21028 has 23 MA's), (Start: 127 @20995 has 1 MA's), (151, 20899),

Gene: Gonephishing_112 Start: 63185, Stop: 63505, Start Num: 124

Candidate Starts for Gonephishing_112:

(Start: 124 @63185 has 27 MA's), (141, 63254), (154, 63296), (173, 63413),

Gene: Gorge_69 Start: 43618, Stop: 43980, Start Num: 117

Candidate Starts for Gorge_69:

(Start: 117 @43618 has 180 MA's), (159, 43777), (184, 43918), (185, 43921), (198, 43963),

Gene: Grimmer_75 Start: 43862, Stop: 44218, Start Num: 117

Candidate Starts for Grimmer_75:

(Start: 117 @43862 has 180 MA's), (184, 44162),

Gene: Grumio_93 Start: 57321, Stop: 57701, Start Num: 112

Candidate Starts for Grumio_93:

(26, 57033), (42, 57108), (62, 57195), (Start: 112 @57321 has 5 MA's), (179, 57582), (181, 57591), (186, 57615), (188, 57621), (202, 57663),

Gene: Guppsters_66 Start: 41977, Stop: 42339, Start Num: 117

Candidate Starts for Guppsters_66:

(Start: 117 @41977 has 180 MA's), (159, 42136), (184, 42277), (185, 42280), (198, 42322),

Gene: GuuelaD_66 Start: 46478, Stop: 46879, Start Num: 126

Candidate Starts for GuuelaD_66:

(34, 46199), (52, 46292), (Start: 113 @46460 has 6 MA's), (Start: 126 @46478 has 20 MA's), (156, 46595), (161, 46622), (173, 46700), (212, 46847),

Gene: Hades_66 Start: 42692, Stop: 43054, Start Num: 117

Candidate Starts for Hades_66:

(Start: 117 @42692 has 180 MA's), (159, 42851), (184, 42992), (185, 42995), (198, 43037),

Gene: Hafay_69 Start: 46467, Stop: 46868, Start Num: 126

Candidate Starts for Hafay_69:

(34, 46188), (52, 46281), (Start: 113 @46449 has 6 MA's), (Start: 126 @46467 has 20 MA's), (156, 46584), (161, 46611), (173, 46689), (212, 46836),

Gene: Halley_125 Start: 69492, Stop: 69821, Start Num: 124

Candidate Starts for Halley_125:

(Start: 124 @69492 has 27 MA's), (141, 69561), (164, 69651), (165, 69654), (173, 69720), (193, 69804),

Gene: HamCheese_30 Start: 20856, Stop: 20503, Start Num: 104

Candidate Starts for HamCheese_30:

(2, 21258), (28, 21108), (83, 20913), (Start: 104 @20856 has 23 MA's), (Start: 127 @20823 has 1 MA's), (151, 20727),

Gene: Hamulus_65 Start: 42334, Stop: 42690, Start Num: 117

Candidate Starts for Hamulus_65:

(Start: 117 @42334 has 180 MA's), (184, 42634), (185, 42637),

Gene: HannahPhantana_32 Start: 21514, Stop: 21161, Start Num: 104

Candidate Starts for HannahPhantana_32:

(56, 21640), (67, 21601), (Start: 104 @21514 has 23 MA's), (151, 21385), (159, 21340), (181, 21220),

Gene: Hegedechwinu_65 Start: 41510, Stop: 41872, Start Num: 117

Candidate Starts for Hegedechwinu_65:

(71, 41393), (Start: 117 @41510 has 180 MA's), (159, 41669), (184, 41810), (185, 41813), (198, 41855),

Gene: Hermeonysus_53 Start: 35602, Stop: 36051, Start Num: 116

Candidate Starts for Hermeonysus_53:

(Start: 116 @35602 has 37 MA's), (161, 35761), (179, 35866), (195, 35929), (213, 36046),

Gene: Hilltopfarm_64 Start: 44853, Stop: 45203, Start Num: 101

Candidate Starts for Hilltopfarm_64:

(75, 44781), (88, 44811), (Start: 101 @44853 has 10 MA's), (Start: 110 @44868 has 2 MA's), (123, 44886), (137, 44934), (138, 44940), (149, 44976), (173, 45102),

Gene: Hlubikazi_61 Start: 39912, Stop: 40274, Start Num: 117

Candidate Starts for Hlubikazi_61:

(Start: 117 @39912 has 180 MA's), (184, 40212), (185, 40215), (198, 40257),

Gene: Honeyfin_55 Start: 35891, Stop: 36343, Start Num: 114

Candidate Starts for Honeyfin_55:

(Start: 114 @35891 has 17 MA's), (137, 35945), (153, 36008), (161, 36053), (179, 36158), (180, 36164), (195, 36221), (213, 36338),

Gene: Hughesyang_122 Start: 68948, Stop: 69280, Start Num: 124

Candidate Starts for Hughesyang_122:

(Start: 124 @68948 has 27 MA's), (141, 69017), (173, 69176),

Gene: Hum25_55 Start: 30658, Stop: 30984, Start Num: 128

Candidate Starts for Hum25_55:

(60, 30499), (Start: 128 @30658 has 5 MA's), (154, 30763), (176, 30895),

Gene: IbOuu_65 Start: 43348, Stop: 43710, Start Num: 117

Candidate Starts for IbOuu_65:

(72, 43243), (74, 43249), (95, 43303), (Start: 117 @43348 has 180 MA's), (131, 43381), (184, 43648), (185, 43651), (198, 43693),

Gene: Ibhubesi_65 Start: 41957, Stop: 42313, Start Num: 117

Candidate Starts for Ibhubesi_65:

(Start: 117 @41957 has 180 MA's), (184, 42257), (185, 42260),

Gene: IrishSherpFalk_66 Start: 43547, Stop: 43909, Start Num: 117

Candidate Starts for IrishSherpFalk_66:

(Start: 117 @43547 has 180 MA's), (184, 43847), (185, 43850), (198, 43892),

Gene: Itos_66 Start: 45269, Stop: 45670, Start Num: 126

Candidate Starts for Itos_66:

(34, 44990), (52, 45083), (Start: 113 @45251 has 6 MA's), (Start: 126 @45269 has 20 MA's), (156, 45386), (161, 45413), (173, 45491), (212, 45638),

Gene: Jabbawokkie_80 Start: 44082, Stop: 44423, Start Num: 117

Candidate Starts for Jabbawokkie_80:

(103, 44067), (Start: 117 @44082 has 180 MA's), (184, 44382), (185, 44385),

Gene: Jakelyne_44 Start: 25830, Stop: 26207, Start Num: 116

Candidate Starts for Jakelyne_44:

(Start: 116 @25830 has 37 MA's), (146, 25920), (173, 26067), (179, 26094), (180, 26100), (187, 26130), (207, 26196),

Gene: JalFarm20_78 Start: 46016, Stop: 46372, Start Num: 117

Candidate Starts for JalFarm20_78:

(Start: 117 @46016 has 180 MA's), (184, 46316), (185, 46319),

Gene: James_69 Start: 43743, Stop: 44105, Start Num: 117

Candidate Starts for James_69:

(Start: 117 @43743 has 180 MA's), (159, 43902), (184, 44043), (185, 44046), (198, 44088),

Gene: Jant_69 Start: 43594, Stop: 43950, Start Num: 117

Candidate Starts for Jant_69:

(Start: 117 @43594 has 180 MA's), (184, 43894), (185, 43897),

Gene: Jefe_54 Start: 35660, Stop: 36109, Start Num: 116

Candidate Starts for Jefe_54:

(24, 35351), (25, 35354), (58, 35495), (80, 35567), (Start: 116 @35660 has 37 MA's), (161, 35819), (179, 35924), (180, 35930), (195, 35987), (213, 36104),

Gene: Jerole_32 Start: 21637, Stop: 21284, Start Num: 104

Candidate Starts for Jerole_32:

(56, 21763), (67, 21724), (Start: 104 @21637 has 23 MA's), (151, 21508), (159, 21463), (181, 21343),

Gene: Jollipop_54 Start: 35999, Stop: 36448, Start Num: 116

Candidate Starts for Jollipop_54:

(6, 35573), (24, 35690), (25, 35693), (58, 35834), (80, 35906), (Start: 116 @35999 has 37 MA's), (153, 36113), (161, 36158), (179, 36263), (180, 36269), (195, 36326), (213, 36443),

Gene: Jollymon_90 Start: 57592, Stop: 57972, Start Num: 112

Candidate Starts for Jollymon_90:

(42, 57379), (Start: 112 @57592 has 5 MA's), (120, 57604), (179, 57853), (181, 57862), (186, 57886), (188, 57892), (202, 57934),

Gene: Juice456_66 Start: 43972, Stop: 44328, Start Num: 117

Candidate Starts for Juice456_66:

(Start: 117 @43972 has 180 MA's), (184, 44272), (185, 44275),

Gene: Juniper1_65 Start: 42735, Stop: 43091, Start Num: 117

Candidate Starts for Juniper1_65:

(Start: 107 @42720 has 3 MA's), (Start: 117 @42735 has 180 MA's), (167, 42939), (184, 43035), (185, 43038),

Gene: Juno112_29 Start: 20872, Stop: 20519, Start Num: 104

Candidate Starts for Juno112_29:

(2, 21274), (28, 21124), (83, 20929), (Start: 104 @20872 has 23 MA's), (Start: 127 @20839 has 1 MA's), (151, 20743),

Gene: JustASigh_98 Start: 55410, Stop: 55766, Start Num: 130

Candidate Starts for JustASigh_98:

(96, 55332), (122, 55383), (Start: 130 @55410 has 1 MA's), (137, 55437), (152, 55491), (157, 55521), (159, 55533), (161, 55539), (179, 55644), (180, 55650), (190, 55689), (210, 55755),

Gene: KHumphrey_30 Start: 20837, Stop: 20517, Start Num: 127

Candidate Starts for KHumphrey_30:

(1, 21422), (2, 21272), (28, 21122), (83, 20927), (Start: 104 @20870 has 23 MA's), (Start: 127 @20837 has 1 MA's), (151, 20741),

Gene: Kahlid_67 Start: 46369, Stop: 46770, Start Num: 126

Candidate Starts for Kahlid_67:

(34, 46090), (52, 46183), (Start: 113 @46351 has 6 MA's), (Start: 126 @46369 has 20 MA's), (156, 46486), (161, 46513), (173, 46591), (212, 46738),

Gene: KaiHaiDragon_54 Start: 35596, Stop: 36045, Start Num: 116

Candidate Starts for KaiHaiDragon_54:

(Start: 116 @35596 has 37 MA's), (174, 35845), (179, 35860), (180, 35866), (195, 35923), (213, 36040),

Gene: Kalah2_114 Start: 67637, Stop: 67966, Start Num: 124

Candidate Starts for Kalah2_114:

(Start: 124 @67637 has 27 MA's), (141, 67706), (173, 67865), (193, 67949),

Gene: Karhdo_64 Start: 43305, Stop: 43667, Start Num: 117

Candidate Starts for Karhdo_64:

(Start: 117 @43305 has 180 MA's), (159, 43464), (184, 43605), (198, 43650),

Gene: Kenuha5_63 Start: 41295, Stop: 41651, Start Num: 117

Candidate Starts for Kenuha5_63:

(Start: 117 @41295 has 180 MA's), (159, 41454), (184, 41595), (185, 41598), (198, 41634),

Gene: Kepler_32 Start: 21801, Stop: 21448, Start Num: 104

Candidate Starts for Kepler_32:

(56, 21927), (67, 21888), (Start: 104 @21801 has 23 MA's), (151, 21672), (181, 21507),

Gene: Kersh_67 Start: 44741, Stop: 45097, Start Num: 117

Candidate Starts for Kersh_67:

(Start: 117 @44741 has 180 MA's), (159, 44900), (184, 45041), (185, 45044),

Gene: Khuang_54 Start: 31611, Stop: 31976, Start Num: 128

Candidate Starts for Khuang_54:

(Start: 128 @31611 has 5 MA's), (162, 31761), (180, 31872), (182, 31887),

Gene: Kimberlium_70 Start: 44253, Stop: 44594, Start Num: 117

Candidate Starts for Kimberlium_70:

(Start: 117 @44253 has 180 MA's), (184, 44553), (185, 44556),

Gene: KingstonB_93 Start: 57137, Stop: 57505, Start Num: 120

Candidate Starts for KingstonB_93:

(26, 56837), (42, 56912), (62, 56999), (Start: 112 @57125 has 5 MA's), (120, 57137), (179, 57386), (181, 57395), (186, 57419), (188, 57425), (202, 57467),

Gene: Klein_119 Start: 65994, Stop: 66323, Start Num: 124

Candidate Starts for Klein_119:

(Start: 124 @65994 has 27 MA's), (141, 66063), (164, 66153), (165, 66156), (173, 66222), (193, 66306),

Gene: Koella_59 Start: 38373, Stop: 38735, Start Num: 117

Candidate Starts for Koella_59:

(Start: 117 @38373 has 180 MA's), (163, 38547), (184, 38673), (198, 38718),

Gene: Kowalski_53 Start: 35709, Stop: 36158, Start Num: 116

Candidate Starts for Kowalski_53:

(24, 35400), (25, 35403), (58, 35544), (80, 35616), (Start: 116 @35709 has 37 MA's), (179, 35973), (180, 35979), (195, 36036), (213, 36153),

Gene: Kozie_51 Start: 36191, Stop: 36532, Start Num: 115

Candidate Starts for Kozie_51:

(47, 35999), (65, 36059), (98, 36149), (Start: 115 @36191 has 1 MA's), (173, 36437), (180, 36470), (186, 36497),

Gene: KristaRAM_68 Start: 44341, Stop: 44697, Start Num: 117

Candidate Starts for KristaRAM_68:

(Start: 117 @44341 has 180 MA's), (184, 44641), (185, 44644),

Gene: Kuleana_32 Start: 21579, Stop: 21160, Start Num: 87

Candidate Starts for Kuleana_32:

(45, 21714), (Start: 87 @21579 has 1 MA's), (Start: 102 @21528 has 1 MA's), (Start: 127 @21480 has 1 MA's), (144, 21408), (151, 21384), (181, 21219),

Gene: Kumao_62 Start: 44058, Stop: 44420, Start Num: 102

Candidate Starts for Kumao_62:

(19, 43764), (39, 43851), (49, 43896), (55, 43911), (64, 43950), (Start: 102 @44058 has 1 MA's), (Start: 116 @44082 has 37 MA's), (133, 44118), (134, 44121), (161, 44235), (180, 44346),

Gene: Laphuphu24k_29 Start: 20823, Stop: 20503, Start Num: 127

Candidate Starts for Laphuphu24k_29:

(2, 21258), (28, 21108), (83, 20913), (Start: 104 @20856 has 23 MA's), (Start: 127 @20823 has 1 MA's), (151, 20727),

Gene: LastJedi_59 Start: 39690, Stop: 40052, Start Num: 117

Candidate Starts for LastJedi_59:

(71, 39573), (Start: 117 @39690 has 180 MA's), (159, 39849), (184, 39990), (198, 40035),

Gene: Leona_29 Start: 20943, Stop: 20590, Start Num: 104

Candidate Starts for Leona_29:

(28, 21195), (83, 21000), (Start: 104 @20943 has 23 MA's), (Start: 127 @20910 has 1 MA's), (151, 20814), (161, 20763),

Gene: Leozinho_64 Start: 41151, Stop: 41507, Start Num: 117

Candidate Starts for Leozinho_64:

(Start: 117 @41151 has 180 MA's), (159, 41310), (184, 41451), (185, 41454),

Gene: Lesiram_59 Start: 33428, Stop: 33817, Start Num: 118

Candidate Starts for Lesiram_59:

(Start: 118 @33428 has 3 MA's), (154, 33554), (170, 33662), (201, 33782),

Gene: Lewan_68 Start: 46405, Stop: 46821, Start Num: 113

Candidate Starts for Lewan_68:

(34, 46144), (52, 46237), (Start: 113 @46405 has 6 MA's), (Start: 126 @46423 has 20 MA's), (156, 46540), (161, 46567), (173, 46645), (212, 46792),

Gene: LilDestine_67 Start: 46396, Stop: 46797, Start Num: 126

Candidate Starts for LilDestine_67:

(34, 46117), (52, 46210), (Start: 113 @46378 has 6 MA's), (Start: 126 @46396 has 20 MA's), (156, 46513), (161, 46540), (173, 46618), (212, 46765),

Gene: LilMoolah_64 Start: 42220, Stop: 42582, Start Num: 117

Candidate Starts for LilMoolah_64:

(71, 42103), (Start: 117 @42220 has 180 MA's), (159, 42379), (184, 42520), (198, 42565),

Gene: LittleE_122 Start: 67384, Stop: 67704, Start Num: 124

Candidate Starts for LittleE_122:

(Start: 124 @67384 has 27 MA's), (141, 67453), (154, 67495), (173, 67612),

Gene: LittleFortune_55 Start: 35965, Stop: 36414, Start Num: 116

Candidate Starts for LittleFortune_55:

(6, 35539), (24, 35656), (25, 35659), (58, 35800), (80, 35872), (Start: 116 @35965 has 37 MA's), (179, 36229), (180, 36235), (195, 36292), (213, 36409),

Gene: LittleTokyo_32 Start: 21633, Stop: 21280, Start Num: 110

Candidate Starts for LittleTokyo_32:

(Start: 110 @21633 has 2 MA's), (144, 21528), (151, 21504),

Gene: Lizziana_71 Start: 43224, Stop: 43586, Start Num: 117

Candidate Starts for Lizziana_71:

(Start: 117 @43224 has 180 MA's), (159, 43383), (184, 43524), (185, 43527), (198, 43569),

Gene: Llij_61 Start: 40711, Stop: 41073, Start Num: 117

Candidate Starts for Llij_61:

(Start: 117 @40711 has 180 MA's), (159, 40870), (184, 41011), (185, 41014), (198, 41056),

Gene: Loadrie_66 Start: 46451, Stop: 46849, Start Num: 126

Candidate Starts for Loadrie_66:

(34, 46172), (52, 46265), (Start: 113 @46433 has 6 MA's), (Start: 126 @46451 has 20 MA's), (156, 46568), (161, 46595), (173, 46673), (212, 46820),

Gene: Lorde_65 Start: 39998, Stop: 40360, Start Num: 117

Candidate Starts for Lorde_65:

(Start: 117 @39998 has 180 MA's), (159, 40157), (184, 40298), (185, 40301), (198, 40343),

Gene: Lucretia_54 Start: 35620, Stop: 36072, Start Num: 114

Candidate Starts for Lucretia_54:

(Start: 114 @35620 has 17 MA's), (137, 35674), (153, 35737), (161, 35782), (178, 35884), (179, 35887), (180, 35893), (195, 35950), (213, 36067),

Gene: LunaBlu_67 Start: 42492, Stop: 42854, Start Num: 117

Candidate Starts for LunaBlu_67:

(Start: 117 @42492 has 180 MA's), (159, 42651), (184, 42792), (198, 42837),

Gene: LunaStella_65 Start: 42568, Stop: 42930, Start Num: 117

Candidate Starts for LunaStella_65:

(Start: 117 @42568 has 180 MA's), (184, 42868), (185, 42871), (198, 42913),

Gene: Lunar_32 Start: 21502, Stop: 21149, Start Num: 104

Candidate Starts for Lunar_32:

(56, 21628), (67, 21589), (Start: 104 @21502 has 23 MA's), (151, 21373), (159, 21328), (181, 21208),

Gene: Lynnae_69 Start: 46394, Stop: 46795, Start Num: 126

Candidate Starts for Lynnae_69:

(34, 46115), (52, 46208), (Start: 113 @46376 has 6 MA's), (Start: 126 @46394 has 20 MA's), (156, 46511), (161, 46538), (173, 46616), (212, 46763),

Gene: MadMen_65 Start: 42619, Stop: 42975, Start Num: 117

Candidate Starts for MadMen_65:

(71, 42502), (Start: 117 @42619 has 180 MA's), (159, 42778), (184, 42919), (185, 42922),

Gene: Madiba_66 Start: 41725, Stop: 42087, Start Num: 117

Candidate Starts for Madiba_66:

(Start: 117 @41725 has 180 MA's), (159, 41884), (184, 42025), (198, 42070),

Gene: Mahavrat_62 Start: 41431, Stop: 41787, Start Num: 117

Candidate Starts for Mahavrat_62:

(Start: 117 @41431 has 180 MA's), (184, 41731),

Gene: Makar_95 Start: 57425, Stop: 57805, Start Num: 112

Candidate Starts for Makar_95:

(62, 57299), (Start: 112 @57425 has 5 MA's), (179, 57686), (181, 57695), (200, 57764), (205, 57782),

Gene: Mandlovu_61 Start: 39854, Stop: 40216, Start Num: 117

Candidate Starts for Mandlovu_61:

(Start: 117 @39854 has 180 MA's), (184, 40154), (185, 40157), (198, 40199),

Gene: Mantra_62 Start: 41207, Stop: 41563, Start Num: 117

Candidate Starts for Mantra_62:

(103, 41192), (Start: 117 @41207 has 180 MA's), (184, 41507), (185, 41510),

Gene: Maravista_67 Start: 44362, Stop: 44724, Start Num: 117

Candidate Starts for Maravista_67:

(Start: 117 @44362 has 180 MA's), (159, 44521), (163, 44536), (184, 44662), (198, 44707),

Gene: Margaery_51 Start: 36177, Stop: 36518, Start Num: 112

Candidate Starts for Margaery_51:

(10, 35859), (12, 35862), (14, 35868), (23, 35898), (31, 35925), (33, 35928), (85, 36120), (105, 36165), (106, 36168), (Start: 112 @36177 has 5 MA's), (131, 36210), (153, 36300), (156, 36318), (169, 36393), (171, 36417), (173, 36423), (186, 36483),

Gene: Mariel_44 Start: 26189, Stop: 26566, Start Num: 116

Candidate Starts for Mariel_44:

(Start: 116 @26189 has 37 MA's), (139, 26252), (146, 26279), (179, 26453), (180, 26459), (184, 26480), (207, 26555),

Gene: Martik_65 Start: 42396, Stop: 42752, Start Num: 117

Candidate Starts for Martik_65:

(71, 42279), (Start: 117 @42396 has 180 MA's), (159, 42555), (184, 42696), (185, 42699),

Gene: MaryV_77 Start: 48609, Stop: 48974, Start Num: 101

Candidate Starts for MaryV_77:

(81, 48546), (Start: 101 @48609 has 10 MA's), (165, 48801), (185, 48921), (194, 48954),

Gene: Mattes_69 Start: 43743, Stop: 44105, Start Num: 117

Candidate Starts for Mattes_69:

(Start: 117 @43743 has 180 MA's), (159, 43902), (184, 44043), (185, 44046), (198, 44088),

Gene: Matzah_54 Start: 37029, Stop: 37364, Start Num: 114

Candidate Starts for Matzah_54:

(106, 37017), (108, 37020), (Start: 114 @37029 has 17 MA's), (131, 37056), (143, 37113), (156, 37164), (169, 37239), (173, 37269), (177, 37290), (186, 37329),

Gene: Megan_52 Start: 39265, Stop: 39606, Start Num: 119

Candidate Starts for Megan_52:

(15, 38917), (30, 38971), (35, 38992), (37, 39001), (50, 39076), (54, 39088), (59, 39103), (68, 39136), (76, 39160), (83, 39175), (Start: 97 @39217 has 1 MA's), (Start: 119 @39265 has 2 MA's), (134, 39298), (171, 39493), (173, 39499), (179, 39526), (180, 39532), (183, 39550),

Gene: Melissauren88_63 Start: 41372, Stop: 41734, Start Num: 117

Candidate Starts for Melissauren88_63:

(Start: 117 @41372 has 180 MA's), (184, 41672), (185, 41675), (198, 41717),

Gene: Melons_32 Start: 21502, Stop: 21149, Start Num: 104

Candidate Starts for Melons_32:

(56, 21628), (67, 21589), (Start: 104 @21502 has 23 MA's), (151, 21373), (159, 21328), (181, 21208),

Gene: MementoMori_53 Start: 36606, Stop: 36941, Start Num: 114

Candidate Starts for MementoMori_53:

(10, 36288), (12, 36291), (14, 36297), (23, 36327), (31, 36354), (33, 36357), (85, 36549), (106, 36594), (108, 36597), (Start: 114 @36606 has 17 MA's), (131, 36633), (156, 36741), (169, 36816), (173, 36846), (177, 36867), (186, 36906),

Gene: MenE_42 Start: 25720, Stop: 26097, Start Num: 116

Candidate Starts for MenE_42:

(Start: 116 @25720 has 37 MA's), (139, 25783), (146, 25810), (179, 25984), (180, 25990), (184, 26011), (207, 26086),

Gene: Merpity_54 Start: 31317, Stop: 31670, Start Num: 128

Candidate Starts for Merpity_54:

(Start: 128 @31317 has 5 MA's), (154, 31422), (200, 31638),

Gene: Merry_ Start: 37459, Stop: 37911, Start Num: 114

Candidate Starts for Merry_:

(Start: 114 @37459 has 17 MA's), (167, 37657), (173, 37699), (213, 37906),

Gene: Metamorphoo_56 Start: 36831, Stop: 37280, Start Num: 116

Candidate Starts for Metamorphoo_56:

(Start: 116 @36831 has 37 MA's), (137, 36882), (161, 36990), (179, 37095), (180, 37101), (213, 37275),

Gene: Miley16_67 Start: 46363, Stop: 46764, Start Num: 126

Candidate Starts for Miley16_67:

(34, 46084), (52, 46177), (Start: 113 @46345 has 6 MA's), (Start: 126 @46363 has 20 MA's), (156, 46480), (161, 46507), (173, 46585), (212, 46732),

Gene: MilleniumForce_68 Start: 44060, Stop: 44416, Start Num: 117

Candidate Starts for MilleniumForce_68:

(Start: 117 @44060 has 180 MA's), (184, 44360), (185, 44363),

Gene: Minerva_120 Start: 67549, Stop: 67881, Start Num: 124

Candidate Starts for Minerva_120:

(Start: 124 @67549 has 27 MA's), (141, 67618), (173, 67777),

Gene: MinionDave_64 Start: 42746, Stop: 43108, Start Num: 117

Candidate Starts for MinionDave_64:

(71, 42629), (Start: 117 @42746 has 180 MA's), (159, 42905), (184, 43046), (198, 43091),

Gene: Minnie_68 Start: 43966, Stop: 44328, Start Num: 117

Candidate Starts for Minnie_68:

(71, 43849), (Start: 117 @43966 has 180 MA's), (159, 44125), (184, 44266), (198, 44311),

Gene: MisterCuddles_63 Start: 41692, Stop: 42054, Start Num: 117

Candidate Starts for MisterCuddles_63:

(Start: 117 @41692 has 180 MA's), (184, 41992), (198, 42037),

Gene: MkaliMitinis3_68 Start: 46435, Stop: 46833, Start Num: 126

Candidate Starts for MkaliMitinis3_68:

(34, 46156), (52, 46249), (Start: 113 @46417 has 6 MA's), (Start: 126 @46435 has 20 MA's), (156, 46552), (161, 46579), (173, 46657), (212, 46804),

Gene: Moonbeam_64 Start: 41974, Stop: 42336, Start Num: 117

Candidate Starts for Moonbeam_64:

(Start: 117 @41974 has 180 MA's), (133, 42016), (159, 42133), (184, 42274), (198, 42319),

Gene: Mova_69 Start: 42229, Stop: 42585, Start Num: 117

Candidate Starts for Mova_69:

(Start: 117 @42229 has 180 MA's), (159, 42388), (184, 42529), (185, 42532), (198, 42568),

Gene: Mozy_75 Start: 44841, Stop: 45203, Start Num: 117

Candidate Starts for Mozy_75:

(Start: 107 @44826 has 3 MA's), (Start: 117 @44841 has 180 MA's), (159, 45000), (184, 45141), (198, 45186),

Gene: MrSmee_53 Start: 31291, Stop: 31644, Start Num: 128

Candidate Starts for MrSmee_53:

(Start: 128 @31291 has 5 MA's), (154, 31396), (200, 31612),

Gene: Ms6_62 Start: 37737, Stop: 38099, Start Num: 117

Candidate Starts for Ms6_62:

(Start: 117 @37737 has 180 MA's), (184, 38037), (185, 38040), (198, 38082),

Gene: MulchExplorer_69 Start: 44252, Stop: 44593, Start Num: 117

Candidate Starts for MulchExplorer_69:

(Start: 117 @44252 has 180 MA's), (184, 44552), (185, 44555),

Gene: Mutaforma13_71 Start: 45673, Stop: 46035, Start Num: 117

Candidate Starts for Mutaforma13_71:

(Start: 117 @45673 has 180 MA's), (184, 45973), (198, 46018),

Gene: NCRodriguez_42 Start: 25942, Stop: 26319, Start Num: 116

Candidate Starts for NCRodriguez_42:

(Start: 116 @25942 has 37 MA's), (139, 26005), (146, 26032), (160, 26098), (179, 26206), (180, 26212), (184, 26233), (207, 26308),

Gene: Nebkiss_84 Start: 48920, Stop: 49243, Start Num: 124

Candidate Starts for Nebkiss_84:

(Start: 124 @48920 has 27 MA's), (140, 48983), (185, 49208), (186, 49211),

Gene: Nicholasp3_67 Start: 46381, Stop: 46797, Start Num: 113

Candidate Starts for Nicholasp3_67:

(34, 46120), (52, 46213), (Start: 113 @46381 has 6 MA's), (Start: 126 @46399 has 20 MA's), (156, 46516), (161, 46543), (173, 46621), (212, 46768),

Gene: Nicole72_53 Start: 39892, Stop: 40239, Start Num: 119

Candidate Starts for Nicole72_53:

(90, 39826), (Start: 97 @39844 has 1 MA's), (Start: 119 @39892 has 2 MA's), (167, 40084), (179, 40153), (180, 40159),

Gene: Nimbo_59 Start: 41301, Stop: 41663, Start Num: 117

Candidate Starts for Nimbo_59:

(72, 41196), (74, 41202), (95, 41256), (Start: 117 @41301 has 180 MA's), (131, 41334), (184, 41601), (185, 41604), (198, 41646),

Gene: Nitzel_62 Start: 41489, Stop: 41851, Start Num: 117

Candidate Starts for Nitzel_62:

(Start: 117 @41489 has 180 MA's), (184, 41789), (185, 41792), (198, 41834),

Gene: Nivrat_62 Start: 42093, Stop: 42455, Start Num: 117

Candidate Starts for Nivrat_62:

(71, 41976), (Start: 117 @42093 has 180 MA's), (159, 42252), (184, 42393), (198, 42438),

Gene: NoodlelyBoi_55 Start: 36387, Stop: 36836, Start Num: 116

Candidate Starts for NoodlelyBoi_55:

(21, 36069), (41, 36156), (44, 36174), (71, 36273), (92, 36327), (Start: 116 @36387 has 37 MA's), (161, 36546), (167, 36582), (174, 36636), (179, 36651), (180, 36657), (195, 36714), (213, 36831),

Gene: NormanBulbieJr_65 Start: 42386, Stop: 42748, Start Num: 117

Candidate Starts for NormanBulbieJr_65:

(Start: 117 @42386 has 180 MA's), (163, 42560), (184, 42686), (198, 42731),

Gene: Octobien14_72 Start: 45181, Stop: 45522, Start Num: 111

Candidate Starts for Octobien14_72:

(Start: 111 @45181 has 1 MA's), (150, 45283), (159, 45337), (173, 45421),

Gene: Ogopogo_71 Start: 42797, Stop: 43153, Start Num: 117

Candidate Starts for Ogopogo_71:

(70, 42686), (Start: 117 @42797 has 180 MA's), (184, 43097), (185, 43100),

Gene: OldBen_63 Start: 42694, Stop: 43056, Start Num: 117

Candidate Starts for OldBen_63:

(72, 42589), (74, 42595), (95, 42649), (Start: 117 @42694 has 180 MA's), (131, 42727), (184, 42994), (185, 42997), (198, 43039),

Gene: OlympiaSaint_67 Start: 42685, Stop: 43047, Start Num: 117

Candidate Starts for OlympiaSaint_67:

(Start: 117 @42685 has 180 MA's), (159, 42844), (184, 42985), (185, 42988), (198, 43030),

Gene: Onika_53 Start: 35684, Stop: 36133, Start Num: 116

Candidate Starts for Onika_53:

(Start: 116 @35684 has 37 MA's), (161, 35843), (179, 35948), (195, 36011), (213, 36128),

Gene: Oppalora_29 Start: 20837, Stop: 20517, Start Num: 127

Candidate Starts for Oppalora_29:

(2, 21272), (28, 21122), (83, 20927), (Start: 104 @20870 has 23 MA's), (Start: 127 @20837 has 1 MA's), (151, 20741),

Gene: Optimus_113 Start: 65945, Stop: 66277, Start Num: 124

Candidate Starts for Optimus_113:

(Start: 124 @65945 has 27 MA's), (141, 66014), (164, 66104), (165, 66107), (173, 66173),

Gene: OtsoOtso_32 Start: 21366, Stop: 21013, Start Num: 104

Candidate Starts for OtsoOtso_32:

(56, 21492), (67, 21453), (Start: 104 @21366 has 23 MA's), (151, 21237), (159, 21192), (181, 21072),

Gene: Ovechkin_65 Start: 42688, Stop: 43050, Start Num: 117

Candidate Starts for Ovechkin_65:

(Start: 117 @42688 has 180 MA's), (184, 42988), (185, 42991), (198, 43033),

Gene: OverPar_69 Start: 46451, Stop: 46849, Start Num: 126

Candidate Starts for OverPar_69:

(34, 46172), (52, 46265), (Start: 113 @46433 has 6 MA's), (Start: 126 @46451 has 20 MA's), (156, 46568), (161, 46595), (173, 46673), (212, 46820),

Gene: OwlsT2W_65 Start: 42020, Stop: 42376, Start Num: 117

Candidate Starts for OwlsT2W_65:

(Start: 117 @42020 has 180 MA's), (159, 42179), (184, 42320),

Gene: PMC_62 Start: 42410, Stop: 42766, Start Num: 117

Candidate Starts for PMC_62:

(Start: 117 @42410 has 180 MA's), (184, 42710), (185, 42713),

Gene: PYPDinur_63 Start: 45117, Stop: 45515, Start Num: 91

Candidate Starts for PYPDinur_63:

(Start: 91 @45117 has 1 MA's), (156, 45234), (161, 45261), (192, 45420),

Gene: Pacc40_59 Start: 40742, Stop: 41104, Start Num: 117

Candidate Starts for Pacc40_59:

(71, 40625), (Start: 117 @40742 has 180 MA's), (159, 40901), (184, 41042), (198, 41087),

Gene: Paschalis_53 Start: 35691, Stop: 36140, Start Num: 116

Candidate Starts for Paschalis_53:

(Start: 116 @35691 has 37 MA's), (150, 35790), (161, 35850), (179, 35955), (180, 35961), (195, 36018), (213, 36135),

Gene: Phabuloso_75 Start: 43819, Stop: 44166, Start Num: 124

Candidate Starts for Phabuloso_75:

(78, 43705), (109, 43795), (Start: 124 @43819 has 27 MA's), (131, 43840), (135, 43858), (137, 43867), (154, 43942), (160, 43975), (165, 43993), (172, 44056), (173, 44059), (179, 44089), (185, 44119), (193, 44146), (196, 44158),

Gene: Phalconet_63 Start: 40623, Stop: 40985, Start Num: 117

Candidate Starts for Phalconet_63:

(Start: 117 @40623 has 180 MA's), (184, 40923), (185, 40926), (198, 40968),

Gene: Phanphagia_61 Start: 42234, Stop: 42596, Start Num: 117

Candidate Starts for Phanphagia_61:

(Start: 117 @42234 has 180 MA's), (184, 42534), (185, 42537), (198, 42579),

Gene: Phatniss_63 Start: 41806, Stop: 42168, Start Num: 117

Candidate Starts for Phatniss_63:

(Start: 117 @41806 has 180 MA's), (159, 41965), (184, 42106), (185, 42109), (198, 42151),

Gene: PhedwardCullen_52 Start: 35442, Stop: 35891, Start Num: 116

Candidate Starts for PhedwardCullen_52:

(Start: 116 @35442 has 37 MA's), (161, 35601), (179, 35706), (180, 35712), (195, 35769), (213, 35886),

Gene: PhesterPhotato_65 Start: 41443, Stop: 41799, Start Num: 117

Candidate Starts for PhesterPhotato_65:

(Start: 117 @41443 has 180 MA's), (159, 41602), (184, 41743), (185, 41746),

Gene: Philus_69 Start: 43883, Stop: 44239, Start Num: 117

Candidate Starts for Philus_69:

(71, 43766), (Start: 117 @43883 has 180 MA's), (163, 44057), (184, 44183), (185, 44186), (198, 44222),

Gene: Phingu_44 Start: 25833, Stop: 26210, Start Num: 116

Candidate Starts for Phingu_44:

(Start: 116 @25833 has 37 MA's), (139, 25896), (146, 25923), (179, 26097), (180, 26103), (207, 26199),

Gene: PhirstandPhine_34 Start: 21645, Stop: 21292, Start Num: 104

Candidate Starts for PhirstandPhine_34:

(56, 21771), (67, 21732), (Start: 104 @21645 has 23 MA's), (151, 21516), (159, 21471), (181, 21351),

Gene: PhlipPhlop_65 Start: 44108, Stop: 44470, Start Num: 117

Candidate Starts for PhlipPhlop_65:

(71, 43991), (Start: 117 @44108 has 180 MA's), (133, 44150), (159, 44267), (184, 44408), (185, 44411), (198, 44453),

Gene: PhluffyCoco_30 Start: 20856, Stop: 20503, Start Num: 104

Candidate Starts for PhluffyCoco_30:

(2, 21258), (28, 21108), (83, 20913), (Start: 104 @20856 has 23 MA's), (Start: 127 @20823 has 1 MA's), (151, 20727),

Gene: Phonegingi_41 Start: 25666, Stop: 26043, Start Num: 116

Candidate Starts for Phonegingi_41:

(Start: 116 @25666 has 37 MA's), (139, 25729), (146, 25756), (173, 25903), (179, 25930), (180, 25936), (187, 25966), (207, 26032),

Gene: Phorgeous_53 Start: 35522, Stop: 35974, Start Num: 114

Candidate Starts for Phorgeous_53:

(Start: 114 @35522 has 17 MA's), (137, 35576), (161, 35684), (179, 35789), (180, 35795), (195, 35852), (213, 35969),

Gene: Phrancesco_54 Start: 35812, Stop: 36264, Start Num: 114

Candidate Starts for Phrancesco_54:

(Start: 114 @35812 has 17 MA's), (137, 35866), (161, 35974), (179, 36079), (195, 36142), (213, 36259),

Gene: PierreOrion_54 Start: 35858, Stop: 36307, Start Num: 116

Candidate Starts for PierreOrion_54:

(6, 35432), (24, 35549), (25, 35552), (58, 35693), (80, 35765), (Start: 116 @35858 has 37 MA's), (153, 35972), (161, 36017), (179, 36122), (180, 36128), (195, 36185), (213, 36302),

Gene: Pineda_33 Start: 21654, Stop: 21301, Start Num: 104

Candidate Starts for Pineda_33:

(56, 21780), (67, 21741), (Start: 104 @21654 has 23 MA's), (151, 21525), (159, 21480), (181, 21360),

Gene: PiperSansNom_54 Start: 35998, Stop: 36447, Start Num: 116

Candidate Starts for PiperSansNom_54:

(Start: 116 @35998 has 37 MA's), (161, 36157), (179, 36262), (195, 36325), (213, 36442),

Gene: Piperis_54 Start: 35645, Stop: 36097, Start Num: 114

Candidate Starts for Piperis_54:

(Start: 114 @35645 has 17 MA's), (137, 35699), (161, 35807), (179, 35912), (180, 35918), (195, 35975), (213, 36092),

Gene: Pippy_64 Start: 41724, Stop: 42086, Start Num: 117

Candidate Starts for Pippy_64:

(Start: 117 @41724 has 180 MA's), (159, 41883), (163, 41898), (184, 42024), (198, 42069),

Gene: Pitbull_53 Start: 29779, Stop: 30105, Start Num: 128

Candidate Starts for Pitbull_53:

(77, 29674), (Start: 128 @29779 has 5 MA's), (154, 29884), (176, 30016),

Gene: Plumbus_68 Start: 42573, Stop: 42935, Start Num: 117

Candidate Starts for Plumbus_68:

(Start: 117 @42573 has 180 MA's), (184, 42873), (185, 42876), (198, 42918),

Gene: Polka_31 Start: 21366, Stop: 21013, Start Num: 104

Candidate Starts for Polka_31:

(56, 21492), (67, 21453), (Start: 104 @21366 has 23 MA's), (151, 21237), (159, 21192), (181, 21072),

Gene: Pollywog_66 Start: 43003, Stop: 43359, Start Num: 117

Candidate Starts for Pollywog_66:

(Start: 117 @43003 has 180 MA's), (159, 43162), (184, 43303), (185, 43306),

Gene: PopTart_59 Start: 40248, Stop: 40610, Start Num: 117

Candidate Starts for PopTart_59:

(Start: 117 @40248 has 180 MA's), (184, 40548), (185, 40551), (198, 40593),

Gene: Pound_112 Start: 66568, Stop: 66897, Start Num: 124

Candidate Starts for Pound_112:

(Start: 124 @66568 has 27 MA's), (141, 66637), (173, 66796), (193, 66880),

Gene: Priscilla_65 Start: 42485, Stop: 42847, Start Num: 117

Candidate Starts for Priscilla_65:

(Start: 117 @42485 has 180 MA's), (163, 42659), (184, 42785), (198, 42830),

Gene: Pulchra_55 Start: 36042, Stop: 36494, Start Num: 114

Candidate Starts for Pulchra_55:

(Start: 114 @36042 has 17 MA's), (137, 36096), (153, 36159), (161, 36204), (179, 36309), (195, 36372), (213, 36489),

Gene: Purplicious_92 Start: 57086, Stop: 57466, Start Num: 112

Candidate Starts for Purplicious_92:

(42, 56873), (62, 56960), (Start: 112 @57086 has 5 MA's), (179, 57347), (186, 57380), (188, 57386), (200, 57425), (202, 57428),

Gene: Quby_65 Start: 45009, Stop: 45407, Start Num: 91

Candidate Starts for Quby_65:

(Start: 91 @45009 has 1 MA's), (156, 45126), (161, 45153), (192, 45312),

Gene: Quhwah_57 Start: 36306, Stop: 36755, Start Num: 116

Candidate Starts for Quhwah_57:

(Start: 116 @36306 has 37 MA's), (161, 36465), (179, 36570), (180, 36576), (195, 36633), (213, 36750),

Gene: QuickMath_69 Start: 44476, Stop: 44817, Start Num: 117

Candidate Starts for QuickMath_69:

(Start: 117 @44476 has 180 MA's), (184, 44776), (185, 44779),

Gene: Quico_73 Start: 43794, Stop: 44156, Start Num: 117

Candidate Starts for Quico_73:

(Start: 117 @43794 has 180 MA's), (184, 44094), (185, 44097), (198, 44139),

Gene: Radiance_64 Start: 41901, Stop: 42263, Start Num: 117

Candidate Starts for Radiance_64:

(Start: 117 @41901 has 180 MA's), (159, 42060), (184, 42201), (185, 42204), (198, 42246),

Gene: Ramiel05_53 Start: 35709, Stop: 36158, Start Num: 116

Candidate Starts for Ramiel05_53:

(24, 35400), (25, 35403), (58, 35544), (80, 35616), (Start: 116 @35709 has 37 MA's), (179, 35973), (180, 35979), (195, 36036), (213, 36153),

Gene: Ramsey_64 Start: 42214, Stop: 42576, Start Num: 117

Candidate Starts for Ramsey_64:

(Start: 117 @42214 has 180 MA's), (159, 42373), (184, 42514), (198, 42559),

Gene: Rattail_30 Start: 20919, Stop: 20599, Start Num: 127

Candidate Starts for Rattail_30:

(2, 21354), (28, 21204), (83, 21009), (Start: 104 @20952 has 23 MA's), (Start: 127 @20919 has 1 MA's), (151, 20823),

Gene: RedFox_30 Start: 20869, Stop: 20516, Start Num: 104

Candidate Starts for RedFox_30:

(2, 21271), (28, 21121), (83, 20926), (Start: 104 @20869 has 23 MA's), (Start: 127 @20836 has 1 MA's), (151, 20740),

Gene: Redno2_116 Start: 66004, Stop: 66333, Start Num: 124

Candidate Starts for Redno2_116:

(Start: 124 @66004 has 27 MA's), (141, 66073), (164, 66163), (165, 66166), (173, 66232), (193, 66316),

Gene: Renaud18_75 Start: 44207, Stop: 44563, Start Num: 117

Candidate Starts for Renaud18_75:

(Start: 117 @44207 has 180 MA's), (159, 44366), (184, 44507),

Gene: Renna12_29 Start: 20890, Stop: 20534, Start Num: 104

Candidate Starts for Renna12_29:

(Start: 104 @20890 has 23 MA's), (Start: 127 @20857 has 1 MA's), (151, 20761), (181, 20596),

Gene: Rialto_70 Start: 44435, Stop: 44797, Start Num: 117

Candidate Starts for Rialto_70:

(Start: 117 @44435 has 180 MA's), (184, 44735), (185, 44738), (198, 44780),

Gene: Rita_66 Start: 40513, Stop: 40875, Start Num: 117

Candidate Starts for Rita_66:

(Start: 117 @40513 has 180 MA's), (159, 40672), (184, 40813), (198, 40858),

Gene: RobsFeet_57 Start: 37130, Stop: 37579, Start Num: 116

Candidate Starts for RobsFeet_57:

(Start: 116 @37130 has 37 MA's), (137, 37181), (161, 37289), (179, 37394), (180, 37400), (213, 37574),

Gene: Rockne_66 Start: 42422, Stop: 42778, Start Num: 117

Candidate Starts for Rockne_66:

(Start: 117 @42422 has 180 MA's), (184, 42722), (185, 42725),

Gene: Rockwell_53 Start: 35709, Stop: 36158, Start Num: 116

Candidate Starts for Rockwell_53:

(Start: 116 @35709 has 37 MA's), (161, 35868), (179, 35973), (195, 36036), (213, 36153),

Gene: RockyHorror_66 Start: 41564, Stop: 41926, Start Num: 117

Candidate Starts for RockyHorror_66:

(Start: 117 @41564 has 180 MA's), (184, 41864), (198, 41909),

Gene: Rossetti_69 Start: 46945, Stop: 47343, Start Num: 126

Candidate Starts for Rossetti_69:

(34, 46666), (52, 46759), (Start: 113 @46927 has 6 MA's), (Start: 126 @46945 has 20 MA's), (156, 47062), (161, 47089), (173, 47167), (212, 47314),

Gene: Royals2015_68 Start: 42421, Stop: 42777, Start Num: 117

Candidate Starts for Royals2015_68:

(Start: 117 @42421 has 180 MA's), (133, 42463), (159, 42580), (184, 42721),

Gene: Ruby_61 Start: 41693, Stop: 42055, Start Num: 117

Candidate Starts for Ruby_61:

(Start: 117 @41693 has 180 MA's), (184, 41993), (198, 42038),

Gene: Rumpelstiltskin_66 Start: 45792, Stop: 46190, Start Num: 126

Candidate Starts for Rumpelstiltskin_66:

(34, 45513), (52, 45606), (Start: 113 @45774 has 6 MA's), (Start: 126 @45792 has 20 MA's), (156, 45909), (161, 45936), (173, 46014), (212, 46161),

Gene: SG4_62 Start: 41300, Stop: 41665, Start Num: 117

Candidate Starts for SG4_62:

(Start: 117 @41300 has 180 MA's), (184, 41600),

Gene: Saal_67 Start: 43437, Stop: 43799, Start Num: 117

Candidate Starts for Saal_67:

(Start: 117 @43437 has 180 MA's), (159, 43596), (184, 43737), (185, 43740), (198, 43782),

Gene: Sandalphon_66 Start: 42944, Stop: 43306, Start Num: 117

Candidate Starts for Sandalphon_66:

(71, 42827), (Start: 117 @42944 has 180 MA's), (159, 43103), (184, 43244), (198, 43289),

Gene: Sarshaun_68 Start: 46459, Stop: 46857, Start Num: 126

Candidate Starts for Sarshaun_68:

(34, 46180), (52, 46273), (Start: 113 @46441 has 6 MA's), (Start: 126 @46459 has 20 MA's), (156, 46576), (161, 46603), (173, 46681), (212, 46828),

Gene: SassyB_59 Start: 40248, Stop: 40610, Start Num: 117

Candidate Starts for SassyB_59:

(Start: 117 @40248 has 180 MA's), (184, 40548), (185, 40551), (198, 40593),

Gene: Savannah_53 Start: 35736, Stop: 36185, Start Num: 116

Candidate Starts for Savannah_53:

(Start: 116 @35736 has 37 MA's), (161, 35895), (179, 36000), (180, 36006), (195, 36063), (213, 36180),

Gene: ScoobySnack_38 Start: 25435, Stop: 25812, Start Num: 116

Candidate Starts for ScoobySnack_38:

(Start: 116 @25435 has 37 MA's), (139, 25498), (146, 25525), (179, 25699), (180, 25705), (185, 25729), (207, 25801),

Gene: Scumberland_55 Start: 35931, Stop: 36380, Start Num: 116

Candidate Starts for Scumberland_55:

(6, 35505), (24, 35622), (25, 35625), (58, 35766), (80, 35838), (Start: 116 @35931 has 37 MA's), (179, 36195), (180, 36201), (195, 36258), (213, 36375),

Gene: Seagreen_64 Start: 41603, Stop: 41965, Start Num: 117

Candidate Starts for Seagreen_64:

(Start: 117 @41603 has 180 MA's), (184, 41903), (185, 41906), (198, 41948),

Gene: Sephiroth_73 Start: 45931, Stop: 46353, Start Num: 82

Candidate Starts for Sephiroth_73:

(Start: 82 @45931 has 2 MA's), (173, 46252),

Gene: Shauna1_63 Start: 42143, Stop: 42505, Start Num: 117

Candidate Starts for Shauna1_63:

(Start: 117 @42143 has 180 MA's), (184, 42443), (185, 42446), (198, 42488),

Gene: ShiLan_64 Start: 42432, Stop: 42788, Start Num: 117

Candidate Starts for ShiLan_64:

(Start: 117 @42432 has 180 MA's), (159, 42591), (184, 42732), (185, 42735),

Gene: Shotgun_53 Start: 35535, Stop: 35984, Start Num: 116

Candidate Starts for Shotgun_53:

(Start: 116 @35535 has 37 MA's), (161, 35694), (179, 35799), (180, 35805), (195, 35862), (213, 35979),

Gene: ShowerHandel_68 Start: 42396, Stop: 42758, Start Num: 117

Candidate Starts for ShowerHandel_68:

(Start: 117 @42396 has 180 MA's), (159, 42555), (163, 42570), (184, 42696), (198, 42741),

Gene: Shrubaron_56 Start: 36743, Stop: 37192, Start Num: 116

Candidate Starts for Shrubaron_56:

(Start: 116 @36743 has 37 MA's), (137, 36794), (161, 36902), (179, 37007), (180, 37013), (213, 37187),

Gene: SiSi_63 Start: 41202, Stop: 41558, Start Num: 117

Candidate Starts for SiSi_63:

(Start: 117 @41202 has 180 MA's), (184, 41502), (185, 41505),

Gene: SirFrank_54 Start: 35866, Stop: 36318, Start Num: 114

Candidate Starts for SirFrank_54:

(Start: 114 @35866 has 17 MA's), (142, 35944), (161, 36028), (167, 36064), (179, 36133), (209, 36238), (213, 36313),

Gene: Skitty_47 Start: 29133, Stop: 29486, Start Num: 128

Candidate Starts for Skitty_47:

(Start: 128 @29133 has 5 MA's), (154, 29238), (200, 29454),

Gene: Skugga_53 Start: 35695, Stop: 36144, Start Num: 116

Candidate Starts for Skugga_53:

(4, 35245), (5, 35257), (9, 35341), (11, 35344), (16, 35356), (38, 35443), (48, 35506), (63, 35563), (66, 35566), (98, 35656), (Start: 116 @35695 has 37 MA's), (137, 35746), (161, 35854), (179, 35959), (213,

36139),

Gene: Slim_67 Start: 43053, Stop: 43415, Start Num: 117

Candidate Starts for Slim_67:

(Start: 117 @43053 has 180 MA's), (184, 43353), (185, 43356), (198, 43398),

Gene: Smarties_62 Start: 37502, Stop: 37951, Start Num: 116

Candidate Starts for Smarties_62:

(98, 37460), (Start: 116 @37502 has 37 MA's), (137, 37553), (161, 37661), (179, 37766), (180, 37772), (213, 37946),

Gene: Soos_87 Start: 57034, Stop: 57414, Start Num: 112

Candidate Starts for Soos_87:

(26, 56746), (42, 56821), (62, 56908), (Start: 112 @57034 has 5 MA's), (179, 57295), (181, 57304), (186, 57328), (188, 57334), (202, 57376),

Gene: Soul22_71 Start: 43477, Stop: 43839, Start Num: 117

Candidate Starts for Soul22_71:

(Start: 117 @43477 has 180 MA's), (159, 43636), (184, 43777), (185, 43780), (198, 43822),

Gene: Spartacus_67 Start: 42463, Stop: 42825, Start Num: 117

Candidate Starts for Spartacus_67:

(Start: 117 @42463 has 180 MA's), (184, 42763), (185, 42766), (198, 42808),

Gene: Spartan_53 Start: 40162, Stop: 40533, Start Num: 107

Candidate Starts for Spartan_53:

(Start: 107 @40162 has 3 MA's), (133, 40210), (134, 40213), (145, 40264), (148, 40270), (152, 40282), (155, 40297), (167, 40366), (168, 40372), (172, 40405), (173, 40408), (179, 40435), (180, 40441),

Gene: Spikelee_72 Start: 44062, Stop: 44424, Start Num: 117

Candidate Starts for Spikelee_72:

(Start: 117 @44062 has 180 MA's), (184, 44362), (198, 44407),

Gene: Squint_116 Start: 64970, Stop: 65290, Start Num: 124

Candidate Starts for Squint_116:

(Start: 124 @64970 has 27 MA's), (141, 65039), (154, 65081), (173, 65198),

Gene: StAnnes_63 Start: 42321, Stop: 42683, Start Num: 117

Candidate Starts for StAnnes_63:

(Start: 117 @42321 has 180 MA's), (184, 42621), (185, 42624), (198, 42666),

Gene: Starceovich_65 Start: 41944, Stop: 42300, Start Num: 117

Candidate Starts for Starceovich_65:

(Start: 117 @41944 has 180 MA's), (184, 42244), (185, 42247),

Gene: Stillion_92 Start: 57704, Stop: 58072, Start Num: 120

Candidate Starts for Stillion_92:

(42, 57479), (62, 57566), (Start: 112 @57692 has 5 MA's), (120, 57704), (179, 57953), (181, 57962), (186, 57986), (188, 57992), (202, 58034),

Gene: Sting_90 Start: 57473, Stop: 57853, Start Num: 112

Candidate Starts for Sting_90:

(26, 57185), (42, 57260), (62, 57347), (Start: 112 @57473 has 5 MA's), (120, 57485), (179, 57734), (181, 57743), (186, 57767), (188, 57773), (202, 57815),

Gene: Strokeseat_61 Start: 39911, Stop: 40273, Start Num: 117
Candidate Starts for Strokeseat_61:
(Start: 117 @39911 has 180 MA's), (184, 40211), (185, 40214), (198, 40256),

Gene: Sunny_ Start: 37461, Stop: 37913, Start Num: 114
Candidate Starts for Sunny_:
(Start: 114 @37461 has 17 MA's), (167, 37659), (173, 37701), (213, 37908),

Gene: SuperGrey_69 Start: 44472, Stop: 44828, Start Num: 117
Candidate Starts for SuperGrey_69:
(Start: 117 @44472 has 180 MA's), (159, 44631), (184, 44772), (185, 44775), (198, 44811),

Gene: Superphikiman_115 Start: 64061, Stop: 64381, Start Num: 124
Candidate Starts for Superphikiman_115:
(Start: 124 @64061 has 27 MA's), (141, 64130), (154, 64172), (173, 64289),

Gene: SwagPiggett_70 Start: 44704, Stop: 45066, Start Num: 117
Candidate Starts for SwagPiggett_70:
(71, 44587), (Start: 117 @44704 has 180 MA's), (159, 44863), (184, 45004), (198, 45049),

Gene: Sweetums_58 Start: 33367, Stop: 33756, Start Num: 118
Candidate Starts for Sweetums_58:
(Start: 118 @33367 has 3 MA's), (154, 33493), (170, 33601), (201, 33721),

Gene: Syleon_75 Start: 45869, Stop: 46291, Start Num: 82
Candidate Starts for Syleon_75:
(Start: 82 @45869 has 2 MA's), (84, 45875), (173, 46190),

Gene: TChen_67 Start: 44519, Stop: 44881, Start Num: 117
Candidate Starts for TChen_67:
(Start: 117 @44519 has 180 MA's), (184, 44819), (185, 44822), (198, 44864),

Gene: Taj_70 Start: 44021, Stop: 44383, Start Num: 117
Candidate Starts for Taj_70:
(103, 44006), (Start: 117 @44021 has 180 MA's), (184, 44321), (185, 44324), (198, 44366),

Gene: Tchotchke_64 Start: 41928, Stop: 42290, Start Num: 117
Candidate Starts for Tchotchke_64:
(Start: 117 @41928 has 180 MA's), (159, 42087), (184, 42228), (185, 42231), (198, 42273),

Gene: Teamocil_56 Start: 35776, Stop: 36225, Start Num: 116
Candidate Starts for Teamocil_56:
(98, 35737), (Start: 116 @35776 has 37 MA's), (137, 35827), (161, 35935), (179, 36040), (180, 36046), (203, 36124),

Gene: Teng_62 Start: 33271, Stop: 33660, Start Num: 118
Candidate Starts for Teng_62:
(40, 33037), (Start: 118 @33271 has 3 MA's), (154, 33397), (166, 33460), (170, 33505), (199, 33622), (201, 33625),

Gene: Terij_52 Start: 35668, Stop: 36003, Start Num: 114

Candidate Starts for Terij_52:

(5, 35263), (10, 35347), (12, 35350), (14, 35356), (31, 35413), (33, 35416), (85, 35608), (106, 35656), (108, 35659), (Start: 114 @35668 has 17 MA's), (153, 35785), (156, 35803), (179, 35935), (186, 35968),

Gene: ThetaBob_73 Start: 44248, Stop: 44604, Start Num: 117

Candidate Starts for ThetaBob_73:

(70, 44137), (Start: 117 @44248 has 180 MA's), (184, 44548), (185, 44551),

Gene: ThreeRngTarjay_118 Start: 68893, Stop: 69225, Start Num: 124

Candidate Starts for ThreeRngTarjay_118:

(Start: 124 @68893 has 27 MA's), (141, 68962), (173, 69121),

Gene: Topiatin_72 Start: 44952, Stop: 45314, Start Num: 117

Candidate Starts for Topiatin_72:

(71, 44835), (Start: 117 @44952 has 180 MA's), (159, 45111), (184, 45252), (185, 45255), (198, 45297),

Gene: Totinger_65 Start: 41519, Stop: 41875, Start Num: 117

Candidate Starts for Totinger_65:

(Start: 117 @41519 has 180 MA's), (159, 41678), (184, 41819), (185, 41822), (198, 41858),

Gene: Tourach_66 Start: 46445, Stop: 46831, Start Num: 126

Candidate Starts for Tourach_66:

(52, 46259), (Start: 113 @46427 has 6 MA's), (Start: 126 @46445 has 20 MA's), (156, 46562), (161, 46589), (173, 46667), (212, 46814),

Gene: Tweety_65 Start: 43115, Stop: 43471, Start Num: 117

Candidate Starts for Tweety_65:

(Start: 117 @43115 has 180 MA's), (159, 43274), (163, 43289), (184, 43415), (185, 43418), (198, 43454),

Gene: Typha_64 Start: 45161, Stop: 45511, Start Num: 101

Candidate Starts for Typha_64:

(75, 45089), (88, 45119), (Start: 101 @45161 has 10 MA's), (Start: 110 @45176 has 2 MA's), (123, 45194), (137, 45242), (138, 45248), (149, 45284), (167, 45368), (168, 45374), (171, 45404), (179, 45437),

Gene: Tyumbra_54 Start: 36909, Stop: 37358, Start Num: 116

Candidate Starts for Tyumbra_54:

(Start: 116 @36909 has 37 MA's), (137, 36960), (161, 37068), (179, 37173), (195, 37236), (213, 37353),

Gene: UncleRicky_64 Start: 42054, Stop: 42416, Start Num: 117

Candidate Starts for UncleRicky_64:

(Start: 117 @42054 has 180 MA's), (159, 42213), (184, 42354), (185, 42357), (198, 42399),

Gene: Underpass_58 Start: 41417, Stop: 41833, Start Num: 113

Candidate Starts for Underpass_58:

(34, 41156), (52, 41249), (Start: 113 @41417 has 6 MA's), (Start: 126 @41435 has 20 MA's), (156, 41552), (161, 41579), (173, 41657), (212, 41804),

Gene: VRedHorse_65 Start: 41397, Stop: 41759, Start Num: 117
Candidate Starts for VRedHorse_65:
(Start: 117 @41397 has 180 MA's), (131, 41430), (159, 41556), (184, 41697), (185, 41700), (198, 41742),

Gene: ValentiniPuff_101 Start: 57583, Stop: 57990, Start Num: 117
Candidate Starts for ValentiniPuff_101:
(Start: 117 @57583 has 180 MA's), (132, 57622), (133, 57628), (160, 57748), (184, 57883), (208, 57961),

Gene: Vetrix_67 Start: 46385, Stop: 46804, Start Num: 113
Candidate Starts for Vetrix_67:
(34, 46124), (52, 46217), (Start: 113 @46385 has 6 MA's), (Start: 126 @46403 has 20 MA's), (156, 46520), (161, 46547), (173, 46625), (212, 46772),

Gene: Violac_66 Start: 42928, Stop: 43290, Start Num: 117
Candidate Starts for Violac_66:
(Start: 117 @42928 has 180 MA's), (159, 43087), (163, 43102), (184, 43228), (198, 43273),

Gene: Violeta_43 Start: 25712, Stop: 26089, Start Num: 116
Candidate Starts for Violeta_43:
(Start: 116 @25712 has 37 MA's), (139, 25775), (146, 25802), (158, 25862), (179, 25976), (180, 25982), (207, 26078),

Gene: Vivum_66 Start: 42717, Stop: 43079, Start Num: 117
Candidate Starts for Vivum_66:
(71, 42600), (Start: 117 @42717 has 180 MA's), (133, 42759), (159, 42876), (184, 43017), (185, 43020), (198, 43062),

Gene: Wanda_122 Start: 66271, Stop: 66600, Start Num: 124
Candidate Starts for Wanda_122:
(Start: 124 @66271 has 27 MA's), (141, 66340), (147, 66358), (164, 66430), (165, 66433), (173, 66499), (193, 66583),

Gene: Warren_41 Start: 25673, Stop: 26050, Start Num: 116
Candidate Starts for Warren_41:
(Start: 116 @25673 has 37 MA's), (139, 25736), (146, 25763), (179, 25937), (180, 25943), (184, 25964), (207, 26039),

Gene: Wee_70 Start: 44097, Stop: 44459, Start Num: 117
Candidate Starts for Wee_70:
(103, 44082), (Start: 117 @44097 has 180 MA's), (184, 44397), (185, 44400), (198, 44442),

Gene: Weirdo19_91 Start: 53190, Stop: 53612, Start Num: 94
Candidate Starts for Weirdo19_91:
(94, 53190), (140, 53316), (168, 53445), (179, 53508), (189, 53550), (206, 53604),

Gene: Whatsapiecost_65 Start: 41324, Stop: 41686, Start Num: 117
Candidate Starts for Whatsapiecost_65:
(Start: 117 @41324 has 180 MA's), (131, 41357), (184, 41624), (185, 41627), (198, 41669),

Gene: Whouxphf_62 Start: 42311, Stop: 42673, Start Num: 117
Candidate Starts for Whouxphf_62:

(Start: 117 @42311 has 180 MA's), (184, 42611), (198, 42656),

Gene: Wigglewiggle_67 Start: 46423, Stop: 46821, Start Num: 126

Candidate Starts for Wigglewiggle_67:

(34, 46144), (52, 46237), (Start: 113 @46405 has 6 MA's), (Start: 126 @46423 has 20 MA's), (156, 46540), (161, 46567), (173, 46645), (212, 46792),

Gene: Wildcat_77 Start: 48619, Stop: 48984, Start Num: 101

Candidate Starts for Wildcat_77:

(81, 48556), (Start: 101 @48619 has 10 MA's), (165, 48811), (185, 48931), (194, 48964),

Gene: Wilder_68 Start: 46369, Stop: 46770, Start Num: 126

Candidate Starts for Wilder_68:

(34, 46090), (52, 46183), (Start: 113 @46351 has 6 MA's), (Start: 126 @46369 has 20 MA's), (156, 46480), (161, 46513), (173, 46591), (212, 46738),

Gene: WillSterrel_66 Start: 43580, Stop: 43942, Start Num: 117

Candidate Starts for WillSterrel_66:

(Start: 117 @43580 has 180 MA's), (184, 43880), (185, 43883), (198, 43925),

Gene: Winky_67 Start: 46363, Stop: 46764, Start Num: 126

Candidate Starts for Winky_67:

(34, 46084), (52, 46177), (Start: 113 @46345 has 6 MA's), (Start: 126 @46363 has 20 MA's), (156, 46480), (161, 46507), (173, 46585), (212, 46732),

Gene: Wrackline_71 Start: 37367, Stop: 37759, Start Num: 118

Candidate Starts for Wrackline_71:

(7, 36971), (20, 37061), (43, 37163), (57, 37205), (Start: 118 @37367 has 3 MA's), (134, 37394), (154, 37475), (158, 37502), (170, 37583), (175, 37619), (179, 37640), (197, 37712), (201, 37721),

Gene: XFactor_63 Start: 40832, Stop: 41194, Start Num: 117

Candidate Starts for XFactor_63:

(Start: 117 @40832 has 180 MA's), (184, 41132), (198, 41177),

Gene: Yeti_54 Start: 35678, Stop: 36130, Start Num: 114

Candidate Starts for Yeti_54:

(Start: 114 @35678 has 17 MA's), (137, 35732), (153, 35795), (161, 35840), (179, 35945), (180, 35951), (195, 36008), (213, 36125),

Gene: Yorick_64 Start: 42551, Stop: 42913, Start Num: 117

Candidate Starts for Yorick_64:

(Start: 117 @42551 has 180 MA's), (159, 42710), (184, 42851), (198, 42896),

Gene: Zakai_68 Start: 46689, Stop: 47090, Start Num: 126

Candidate Starts for Zakai_68:

(34, 46410), (52, 46503), (Start: 113 @46671 has 6 MA's), (Start: 126 @46689 has 20 MA's), (156, 46806), (161, 46833), (173, 46911), (212, 47058),

Gene: Zapato_53 Start: 35894, Stop: 36343, Start Num: 116

Candidate Starts for Zapato_53:

(48, 35705), (66, 35765), (98, 35855), (Start: 116 @35894 has 37 MA's), (137, 35945), (161, 36053), (180, 36164), (195, 36221), (211, 36272),

Gene: Zapner_79 Start: 44176, Stop: 44517, Start Num: 117
Candidate Starts for Zapner_79:
(103, 44161), (Start: 117 @44176 has 180 MA's), (184, 44476), (185, 44479),

Gene: Zelink_117 Start: 68840, Stop: 69172, Start Num: 124
Candidate Starts for Zelink_117:
(Start: 124 @68840 has 27 MA's), (141, 68909), (173, 69068),

Gene: Zerg_65 Start: 41676, Stop: 42038, Start Num: 117
Candidate Starts for Zerg_65:
(Start: 117 @41676 has 180 MA's), (184, 41976), (198, 42021),

Gene: ZhongYanYuan_66 Start: 46258, Stop: 46644, Start Num: 126
Candidate Starts for ZhongYanYuan_66:
(52, 46072), (95, 46201), (Start: 113 @46240 has 6 MA's), (Start: 126 @46258 has 20 MA's), (156, 46375), (161, 46402), (173, 46480), (212, 46627),

Gene: Zhuangyuan_34 Start: 22580, Stop: 22224, Start Num: 107
Candidate Starts for Zhuangyuan_34:
(56, 22724), (83, 22649), (Start: 107 @22580 has 3 MA's), (Start: 127 @22544 has 1 MA's), (151, 22448), (181, 22283), (193, 22235),

Gene: Zizzle_69 Start: 44029, Stop: 44391, Start Num: 117
Candidate Starts for Zizzle_69:
(Start: 117 @44029 has 180 MA's), (159, 44188), (163, 44203), (184, 44329), (198, 44374),