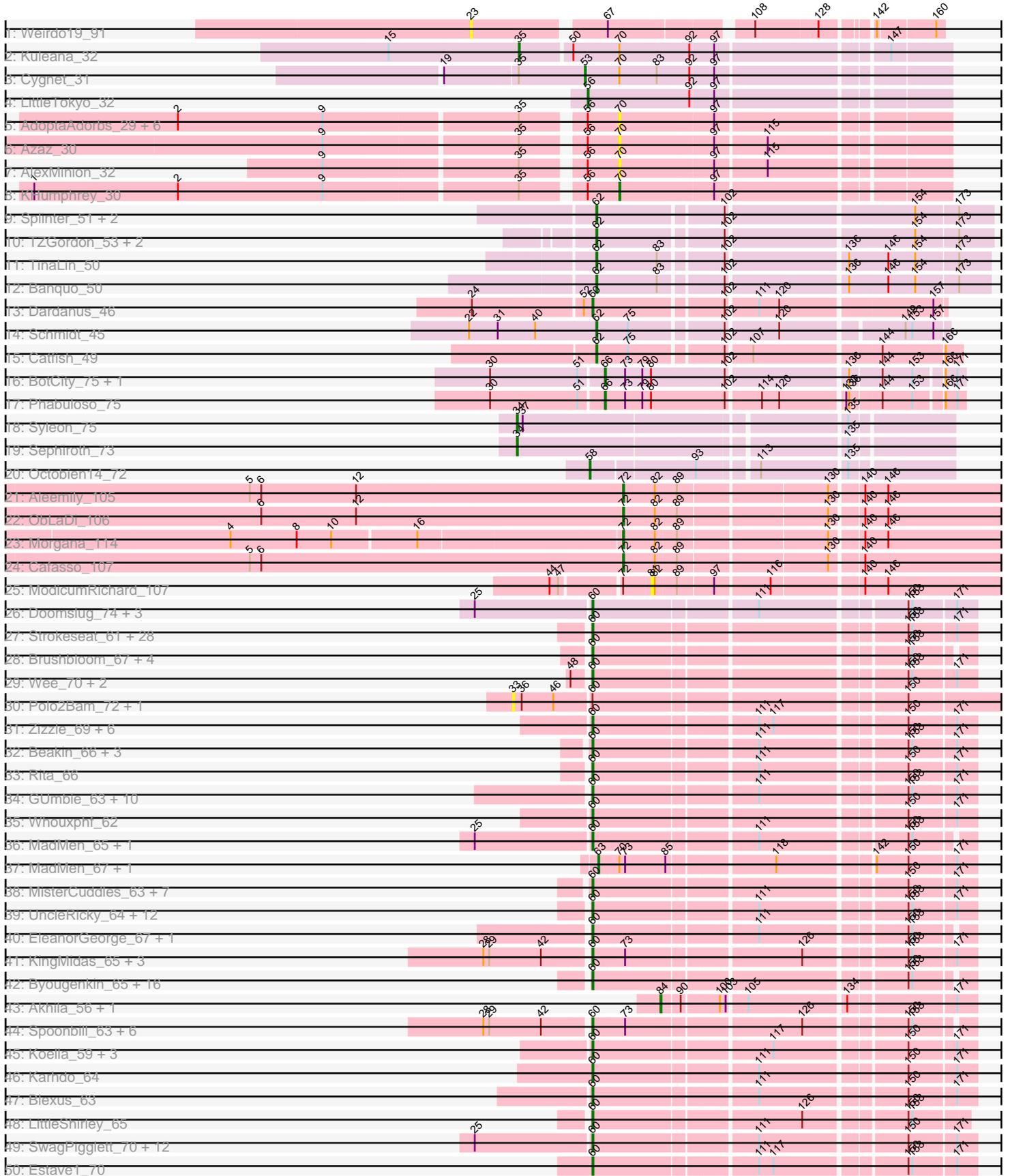


Pham 283396



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 283396 Report

This analysis was run 02/23/26 on database version 636.

Pham number 283396 has 358 members, 38 are drafts.

Phages represented in each track:

- Track 1 : Weirdo19_91
- Track 2 : Kuleana_32
- Track 3 : Cygnet_31
- Track 4 : LittleTokyo_32
- Track 5 : AdoptaAdorbs_29, Laphuphu24k_29, Amphitrite_30, Oppalora_29, Fingolfin_30, Camara_30, Rattail_30
- Track 6 : Azaz_30
- Track 7 : AlexMinion_32
- Track 8 : KHumphrey_30
- Track 9 : Splinter_51, Vendetta_51, Goib_52
- Track 10 : TZGordon_53, DinoDaryn_52, Huffy_52
- Track 11 : TinaLin_50
- Track 12 : Banquo_50
- Track 13 : Dardanus_46
- Track 14 : Schmidt_45
- Track 15 : Catfish_49
- Track 16 : BotCity_75, BearBQ_70
- Track 17 : Phabuloso_75
- Track 18 : Syleon_75
- Track 19 : Sephiroth_73
- Track 20 : Octobien14_72
- Track 21 : Aleemily_105
- Track 22 : ObLaDi_106
- Track 23 : Morgana_114
- Track 24 : Cafasso_107
- Track 25 : ModicumRichard_107
- Track 26 : Doomslug_74, Hegedechwinu_65, Gandalph_68, Topiatin_72
- Track 27 : Strokeseat_61, Plumbus_68, Filuzino_63, Chevrolet_70, Shauna1_63, StAnnes_63, Hlubikazi_61, Ovechkin_65, DotProduct_60, Donkeykong_68, Girafales_73, Florinda_76, Phalconet_63, Slim_67, Ms6_62, IrishSherpFalk_66, PopTart_59, Seagreen_64, DLane_60, Rialto_70, Phanphagia_61, Melissauren88_63, SassyB_59, WillSterrel_66, Spartacus_67, Emmaloid_67, Flathead_66, Quico_73, Mandlovu_61
- Track 28 : Brushbloom_67, Bobi_69, Batiatus_63, MilleniumForce_68, Ihubesi_65
- Track 29 : Wee_70, DeadP_72, Taj_70
- Track 30 : Polo2Bam_72, Enzomatic_73

- Track 31 : Zizzle_69, Maravista_67, ByChance_58, Pippy_64, ShowerHandel_68, Crumble_60, BobaPhett_69
- Track 32 : Beakin_66, Guppsters_66, Hades_66, Soul22_71
- Track 33 : Rita_66
- Track 34 : GUmbie_63, James_69, BuzzLyseyear_71, Tchotchke_64, Mattes_69, Lizziana_71, Saal_67, Che8_70, OlympiaSaint_67, Eradicator_58, Gorge_69
- Track 35 : Whouxphf_62
- Track 36 : MadMen_65, Martik_65
- Track 37 : MadMen_67, Leozinho_66
- Track 38 : MisterCuddles_63, XFactor_63, Zerg_65, Alexphander_69, Doug_67, Girr_63, RockyHorror_66, Ruby_61
- Track 39 : UncleRicky_64, Eish_68, ArcusAngelus_67, Lorde_65, Phatniss_63, Drago_62, Totinger_65, DosHalletts_67, DirtMcgirt_64, Mova_69, Lij_61, Radiance_64, Enby_66
- Track 40 : EleanorGeorge_67, Leozinho_64
- Track 41 : KingMidas_65, Sassafras_64, RedBird_64, Dorothy_64
- Track 42 : Byougenkin_65, Rockne_66, Kimberlium_70, QuickMath_69, Hamulus_65, Chuckly_68, MulchExplorer_73, Starceвич_65, Juice456_66, JalFarm20_78, Jant_69, PMC_62, Boomer_70, SiSi_63, Ardmore_57, KristaRAM_68, Avani_73
- Track 43 : Akhila_56, MilanaBonita_55
- Track 44 : Spoonbill_63, Polka14_64, JoeyJr_61, PHappiness_61, Leperchaun_58, RitaG_61, Daenerys_60
- Track 45 : Koella_59, Priscilla_65, NormanBulbieJr_65, Cabrinians_66
- Track 46 : Karhdo_64
- Track 47 : Blexus_63
- Track 48 : LittleShirley_65
- Track 49 : SwagPiggett_70, Pacc40_59, LastJedi_59, CaptainTrips_63, MinionDave_64, Nivrat_62, Minnie_68, LilMoolah_64, Clifton_60, Aubs_65, Brocalys_60, Burwell21_63, Sandalphon_66
- Track 50 : Estave1_70
- Track 51 : DoRead_69
- Track 52 : Sparkdehlily_72
- Track 53 : Moonbeam_64, Emma_67
- Track 54 : Job42_68
- Track 55 : Tweety_65
- Track 56 : Grimmer_75
- Track 57 : LunaBlu_67, Galactic_64
- Track 58 : Medindi_61
- Track 59 : Madiba_66, DaWorst_65, Ramsey_64
- Track 60 : Kingsley_63, Coco12_65, Sarma624_64, Cerasum_62, Brookers_63, Velveteen_61, BigPhil_62
- Track 61 : Fancypants_68, Mozy_75
- Track 62 : Whatsapiecost_65
- Track 63 : PhlipPhlop_65, Vivum_68
- Track 64 : BodEinwohner17_66, Geralt_60, Deb65_60, Empress_64, Nimbo_59, IbOuu_67, Scottish_64, OldBen_63
- Track 65 : Marker_67
- Track 66 : Nitzel_62
- Track 67 : SG4_62, Mahavrat_62
- Track 68 : BlueCrab_66, FreddyB_66
- Track 69 : Harley_67
- Track 70 : VRedHorse_65

- Track 71 : Dante_66
- Track 72 : Modragons_69, OfUltron_71, Llama_70, Jinglebell_71, Ochi17_69, AlpineSix_71, Seabastian_71
- Track 73 : Firehouse51_68
- Track 74 : OwlsT2W_65
- Track 75 : Doomphist_65, Poenanya_65
- Track 76 : Kenuha5_63, SuperGrey_69
- Track 77 : Stap_63
- Track 78 : Juniper1_65
- Track 79 : Yorick_64
- Track 80 : Fastidio_66
- Track 81 : Pollywog_66
- Track 82 : Inventum_61
- Track 83 : PhesterPhotato_65
- Track 84 : DillTech15_63
- Track 85 : NewHope4_67
- Track 86 : GigiOuiOui_61
- Track 87 : Krakatau_62
- Track 88 : Mutaforma13_71
- Track 89 : KingJulian_66
- Track 90 : Spikelee_72
- Track 91 : Violac_66
- Track 92 : Wachhund_66
- Track 93 : TDanisky_72
- Track 94 : DRBy19_69, Philus_69
- Track 95 : Royals2015_68
- Track 96 : Zapner_79, Jabbawokkie_80, Blarby_78, Mantra_62
- Track 97 : Yoshi_81
- Track 98 : Che9d_75, ShiLan_64, Kersh_67
- Track 99 : SilverChicken_75, Cornucopia_67, Veteran_62
- Track 100 : Demsculpinboyz_78
- Track 101 : Squirty_67
- Track 102 : TChen_67, LunaStella_65
- Track 103 : ThetaBob_73, Ogopogo_71
- Track 104 : Renaud18_75
- Track 105 : Cornie_63, CheesePuff_74, Bipolar_65
- Track 106 : Skitty_47, MrSmee_53, Merpity_54
- Track 107 : Hum25_55
- Track 108 : Pitbull_53
- Track 109 : Altostratus_54
- Track 110 : Khuang_54
- Track 111 : Lesiram_59
- Track 112 : Wrackline_71
- Track 113 : DelaGarza_58
- Track 114 : Gingerbug_57
- Track 115 : Sweetums_58
- Track 116 : Teng_62
- Track 117 : Hughesyang_122, Zelink_117, Minerva_120, ThreeRngTarjay_118
- Track 118 : Constella_107
- Track 119 : EricMillard_114, Duke13_117, Optimus_113, BAKA_122
- Track 120 : Gonephishing_112, LittleE_122
- Track 121 : Redno2_116, Halley_125, Ejimix_117
- Track 122 : Bagrid_123, Kalah2_114, DmpstrDiver_123

- Track 123 : Ariel_118, Squint_116, Courthouse_113, Superphikiman_115
- Track 124 : Klein_119, Bobby_115
- Track 125 : Pound_112
- Track 126 : Wanda_122
- Track 127 : Colossa_115
- Track 128 : VanLee_116
- Track 129 : Pringar_68, VasuNzinga_68, MosMoris_66, Clarkson_70, Tesla_66, JoieB_70, FeliMaine_71, Poise_69, Gattaca_67, Raela_69, Beelzebub_73, Caprice_64, LittleLaf_69, Corazon_67, Marvin_65, Blackbeetle_69, RedRaider77_68, GoongGoong_66, Huphlepuuff_71, Lilbit_67
- Track 130 : GodPhather_53, Taptic_52, PR_52, Megabear_52, Jeon_52, Cepens_52, D12_51, Argie_53
- Track 131 : Nebkiss_84, Gaia_85
- Track 132 : Cracklewink_62
- Track 133 : Bipper_62
- Track 134 : Hilltopfarm_64
- Track 135 : Faiyaz_65
- Track 136 : AuntGwenStacy_65, Typha_64
- Track 137 : Gilgamesh_151
- Track 138 : Tonitrus_70
- Track 139 : DillyDally_47
- Track 140 : GAL1_54
- Track 141 : MooMoo_66

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

The start number called the most often in the published annotations is 60, it was called in 218 of the 320 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Alexphander_69, AlpineSix_71, ArcusAngelus_67, Ardmore_57, Aubs_65, Avani_73, Batiatus_63, Beakin_66, BigPhil_62, Bipolar_65, Blarby_78, Blexus_63, BlueCrab_66, BobaPhett_69, Bobi_69, BodEinwohner17_66, Boomer_70, Brocalys_60, Brookers_63, Brushbloom_67, Burwell21_63, BuzzLyseyear_71, ByChance_58, Byougenkin_65, Cabrinians_66, CaptainTrips_63, Cerasum_62, Che8_70, Che9d_75, CheesePuff_74, Chevrolet_70, Chuckly_68, Clifton_60, Coco12_65, Cornie_63, Cornucopia_67, Crumble_60, DLane_60, DRBy19_69, DaWorst_65, Daenerys_60, Dante_66, Dardanus_46, DeadP_72, Deb65_60, Demsculpinboyz_78, DillTech15_63, DirtMcGirt_64, DoRead_69, Donkeykong_68, Doomslug_74, Dorothy_64, 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, Firehouse51_68, 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, Harley_67, Hegedechwinu_65, Hlubikazi_61, IbOuu_67, Ibhubesu_65, IrishSherpFalk_66, Jabbawokkie_80, JalFarm20_78, James_69, Jant_69, Jinglebell_71, Job42_68, JoeyJr_61, Juice456_66, Juniper1_65, Karhdo_64, Kenuha5_63, Kersh_67, Kimberlium_70, KingMidas_65, Kingsley_63, Koella_59, Krakatau_62, KristaRAM_68, LastJedi_59, Leozinho_64, Leperchaun_58, LilMoolah_64, LittleShirley_65, Lizziana_71,

Llama_70, Llij_61, Lorde_65, LunaBlu_67, LunaStella_65, MadMen_65, Madiba_66, Mahavrat_62, Mandlovu_61, Mantra_62, Maravista_67, Marker_67, Martik_65, Mattes_69, Medindi_61, Melissauren88_63, MilleniumForce_68, MinionDave_64, Minnie_68, MisterCuddles_63, Modragons_69, Moonbeam_64, Mova_69, Mozy_75, Ms6_62, MulchExplorer_73, Mutaforma13_71, NewHope4_67, Nimbo_59, Nitzel_62, Nivrat_62, NormanBulbieJr_65, Ochi17_69, OfUltron_71, Ogopogo_71, OldBen_63, OlympiaSaint_67, Ovechkin_65, OwlsT2W_65, PHappiness_61, PMC_62, Pacc40_59, Phalconet_63, Phanphagia_61, Phatniss_63, PhesterPhotato_65, Philus_69, PhlipPhlop_65, Pippy_64, Plumbus_68, Polka14_64, Pollywog_66, PopTart_59, Priscilla_65, QuickMath_69, Quico_73, Radiance_64, Ramsey_64, RedBird_64, Renaud18_75, Rialto_70, RitaG_61, Rita_66, Rockne_66, RockyHorror_66, Royals2015_68, Ruby_61, SG4_62, Saal_67, Sandalphon_66, Sarma624_64, Sassafras_64, SassyB_59, Scottish_64, Seabastian_71, Seagreen_64, Shauna1_63, ShiLan_64, ShowerHandel_68, SiSi_63, SilverChicken_75, Slim_67, Soul22_71, Spartacus_67, Spikelee_72, Spoonbill_63, Squirty_67, StAnnes_63, Stap_63, Starcevic_65, Strokeseat_61, SuperGrey_69, SwagPiggett_70, TChen_67, TDanisky_72, Taj_70, Tchotchke_64, ThetaBob_73, Topiatin_72, Totinger_65, Tweety_65, UncleRicky_64, VRedHorse_65, Velveteen_61, Veteran_62, Violac_66, Vivum_68, Wachhund_66, Wee_70, Whatsapiecost_65, Whouxphf_62, WillSterrel_66, XFactor_63, Yorick_64, Yoshi_81, Zapner_79, Zerg_65, Zizzle_69,

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

- Enzomatic_73, Inventum_61, Polo2Bam_72,

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

- AdoptaAdorbs_29, Akhila_56, Aleemily_105, AlexMinion_32, Altostratus_54, Amphitrite_30, Argie_53, Ariel_118, AuntGwenStacy_65, Azaz_30, BAKA_122, Bagrid_123, Banquo_50, BearBQ_70, Beelzebub_73, Bipper_62, Blackbeetle_69, Bobby_115, BotCity_75, Cafasso_107, Camara_30, Caprice_64, Catfish_49, Cepens_52, Clarkson_70, Colossa_115, Constella_107, Corazon_67, Courthouse_113, Cracklewink_62, Cygnet_31, D12_51, DelaGarza_58, DillyDally_47, DinoDaryn_52, DmpstrDiver_123, Doomphist_65, Duke13_117, Ejimix_117, EricMillard_114, Faiyaz_65, FeliMaine_71, Fingolfin_30, GAL1_54, Gaia_85, Gattaca_67, Gilgamesh_151, Gingerbug_57, GodPhather_53, Goib_52, Gonephishing_112, GoongGoong_66, Halley_125, Hilltopfarm_64, Huffy_52, Hughesyang_122, Hum25_55, Huphlepuuff_71, Jeon_52, JoieB_70, KHumphrey_30, Kalah2_114, Khuang_54, KingJulian_66, Klein_119, Kuleana_32, Laphuphu24k_29, Leozinho_66, Lesiram_59, Lilbit_67, LittleE_122, LittleLaf_69, LittleTokyo_32, MadMen_67, Marvin_65, Megabear_52, Merpity_54, MilanaBonita_55, Minerva_120, ModicumRichard_107, MooMoo_66, Morgana_114, MosMoris_66, MrSmee_53, Nebkiss_84, ObLaDi_106, Octobien14_72, Oppalora_29, Optimus_113, PR_52, Phabuloso_75, Pitbull_53, Poenanya_65, Poise_69, Pound_112, Pringar_68, Raela_69, Rattail_30, RedRaider77_68, Redno2_116, Schmidt_45, Sephiroth_73, Skitty_47, Sparkdehlily_72, Splinter_51, Squint_116, Superphikiman_115, Sweetums_58, Syleon_75, TZGordon_53, Taptic_52, Teng_62, Tesla_66, ThreeRngTarjay_118, TinaLin_50, Tonitrus_70, Typha_64, VanLee_116, VasuNzinga_68, Vendetta_51, Wanda_122, Weirido19_91, Wrackline_71, Zelink_117,

Summary by start number:

Start 23:

- Found in 1 of 358 (0.3%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Weirido19_91 (AH),

Start 33:

- Found in 4 of 358 (1.1%) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Enzomatic_73 (F1), Polo2Bam_72 (F1),

Start 34:

- Found in 2 of 358 (0.6%) of genes in pham
- Manual Annotations of this start: 2 of 320
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Sephiroth_73 (DU1), Syleon_75 (DU1),

Start 35:

- Found in 18 of 358 (5.0%) of genes in pham
- Manual Annotations of this start: 1 of 320
- Called 5.6% of time when present
- Phage (with cluster) where this start called: Kuleana_32 (AS2),

Start 39:

- Found in 1 of 358 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 320
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Tonitrus_70 (singleton),

Start 49:

- Found in 1 of 358 (0.3%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: DillyDally_47 (singleton),

Start 53:

- Found in 1 of 358 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 320
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cygnet_31 (AS2),

Start 54:

- Found in 1 of 358 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 320
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Gilgamesh_151 (singleton),

Start 55:

- Found in 20 of 358 (5.6%) of genes in pham
- Manual Annotations of this start: 18 of 320
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Beelzebub_73 (S), Blackbeetle_69 (S), Caprice_64 (S), Clarkson_70 (S), Corazon_67 (S), FeliMaine_71 (S), Gattaca_67 (S),

GoongGoong_66 (S), Huphlepuuff_71 (S), JoieB_70 (S), Lilbit_67 (S), LittleLaf_69 (S), Marvin_65 (S), MosMoris_66 (S), Poise_69 (S), Pringar_68 (S), Raela_69 (S), RedRaider77_68 (S), Tesla_66 (S), VasuNzinga_68 (S),

Start 56:

- Found in 11 of 358 (3.1%) of genes in pham
- Manual Annotations of this start: 1 of 320
- Called 9.1% of time when present
- Phage (with cluster) where this start called: LittleTokyo_32 (AS2),

Start 57:

- Found in 6 of 358 (1.7%) of genes in pham
- Manual Annotations of this start: 5 of 320
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AuntGwenStacy_65 (Y), Bipper_62 (Y), Cracklewink_62 (Y), Faiyaz_65 (Y), Hilltopfarm_64 (Y), Typha_64 (Y),

Start 58:

- Found in 1 of 358 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 320
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Octobien14_72 (DU1),

Start 59:

- Found in 8 of 358 (2.2%) of genes in pham
- Manual Annotations of this start: 8 of 320
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Argie_53 (W), Cepens_52 (W), D12_51 (W), GodPhather_53 (W), Jeon_52 (W), Megabear_52 (W), PR_52 (W), Taptic_52 (W),

Start 60:

- Found in 234 of 358 (65.4%) of genes in pham
- Manual Annotations of this start: 218 of 320
- Called 98.7% of time when present
- Phage (with cluster) where this start called: Alexphander_69 (F1), AlpineSix_71 (F1), ArcusAngelus_67 (F1), Ardmore_57 (F1), Aubs_65 (F1), Avani_73 (F2), Batiatus_63 (F1), Beakin_66 (F1), BigPhil_62 (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), Brookers_63 (F1), Brushbloom_67 (F1), Burwell21_63 (F1), BuzzLyseyear_71 (F1), ByChance_58 (F1), Byougenkin_65 (F1), Cabrinians_66 (F1), CaptainTrips_63 (F1), Cerasum_62 (F1), Che8_70 (F1), Che9d_75 (F2), Cheesepuff_74 (F1), Chevrolet_70 (F1), Chuckly_68 (F1), Clifton_60 (F1), Coco12_65 (F1), Cornie_63 (F5), Cornucopia_67 (F1), Crumble_60 (F1), DLane_60 (F1), DRBy19_69 (F1), DaWorst_65 (F1), Daenerys_60 (F1), Dante_66 (F1), Dardanus_46 (CU3), DeadP_72 (F1), Deb65_60 (F1), Demsculpinboyz_78 (F2), DillTech15_63 (F1), DirtMcgirt_64 (F1), DoRead_69 (F1), Donkeykong_68 (F1), Doomslug_74 (F), Dorothy_64 (F1), 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), Firehouse51_68 (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), Harley_67 (F1), Hegedechwinu_65 (F1), Hlubikazi_61 (F1), IbOuu_67 (F1), Ibhubesi_65 (F1), IrishSherpFalk_66 (F1), Jabbawokkie_80 (F2), JalFarm20_78 (F1), James_69 (F1), Jant_69 (F1), Jinglebell_71 (F1), Job42_68 (F1), JoeyJr_61 (F1), Juice456_66 (F1), Juniper1_65 (F1), Karhdo_64 (F1), Kenuha5_63 (F1), Kersh_67 (F1), Kimberlium_70 (F1), KingMidas_65 (F1), Kingsley_63 (F1), Koella_59 (F1), Krakatau_62 (F1), KristaRAM_68 (F1), LastJedi_59 (F1), Leozinho_64 (F1), Leperchaun_58 (F1), LilMoolah_64 (F1), LittleShirley_65 (F1), Lizziana_71 (F1), Llama_70 (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), Marker_67 (F1), Martik_65 (F1), Mattes_69 (F1), Medindi_61 (F1), Melissauren88_63 (F1), MilleniumForce_68 (F1), MinionDave_64 (F1), Minnie_68 (F1), MisterCuddles_63 (F1), Modragons_69 (F1), Moonbeam_64 (F1), Mova_69 (F1), Mozy_75 (F1), Ms6_62 (F1), MulchExplorer_73 (F1), Mutaforma13_71 (F1), NewHope4_67 (F1), Nimbo_59 (F1), Nitzel_62 (F1), Nivrat_62 (F1), NormanBulbieJr_65 (F1), Ochi17_69 (F1), OfUltron_71 (F1), Ogoopogo_71 (F1), OldBen_63 (F1), OlympiaSaint_67 (F1), Ovechkin_65 (F1), OwlsT2W_65 (F1), PHappiness_61 (F1), PMC_62 (F1), Pacc40_59 (F1), Phalconet_63 (F1), Phanphagia_61 (F1), Phatniss_63 (F1), PhesterPotato_65 (F1), Philus_69 (F1), PhilipPhlop_65 (F1), Pippy_64 (F1), Plumbus_68 (F1), Polka14_64 (F1), Pollywog_66 (F1), PopTart_59 (F1), Priscilla_65 (F1), QuickMath_69 (F1), Quico_73 (F1), Radiance_64 (F1), Ramsey_64 (F1), RedBird_64 (F1), Renaud18_75 (F4), Rialto_70 (F1), RitaG_61 (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), Sarma624_64 (F1), Sassafras_64 (F1), SassyB_59 (F1), Scottish_64 (F1), Seabastian_71 (F1), Seagreen_64 (F1), Shauna1_63 (F1), ShiLan_64 (F1), ShowerHandel_68 (F1), SiSi_63 (F1), SilverChicken_75 (F2), Slim_67 (F1), Soul22_71 (F2), Spartacus_67 (F1), Spikelee_72 (F1), Spoonbill_63 (F1), Squirty_67 (F3), StAnnes_63 (F1), Stap_63 (F1), Starceвич_65 (F1), Strokeseat_61 (F1), SuperGrey_69 (F1), SwagPigglett_70 (F1), TChen_67 (F4), TDanisky_72 (F1), Taj_70 (F1), Tchotchke_64 (F1), ThetaBob_73 (F4), Topiatin_72 (F1), Totinger_65 (F1), Tweety_65 (F1), UncleRicky_64 (F1), VRedHorse_65 (F1), Velveteen_61 (F1), Veteran_62 (F1), Violac_66 (F1), Vivum_68 (F1), Wachhund_66 (F1), Wee_70 (F1), Whatsapiecost_65 (F1), Whouxphf_62 (F1), WillSterrel_66 (F1), XFactor_63 (F1), Yorick_64 (F1), Yoshi_81 (F2), Zapner_79 (F2), Zerg_65 (F1), Zizzle_69 (F1),

Start 61:

- Found in 6 of 358 (1.7%) of genes in pham
- Manual Annotations of this start: 4 of 320
- Called 100.0% of time when present
- Phage (with cluster) where this start called: DelaGarza_58 (GF), Gingerbug_57 (GF), Lesiram_59 (GF), Sweetums_58 (GF), Teng_62 (GF), Wrackline_71 (GF),

Start 62:

- Found in 10 of 358 (2.8%) of genes in pham
- Manual Annotations of this start: 10 of 320
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Banquo_50 (CU1), Catfish_49 (CU5), DinoDaryn_52 (CU1), Goib_52 (CU1), Huffy_52 (CU1), Schmidt_45 (CU4), Splinter_51 (CU1), TZGordon_53 (CU1), TinaLin_50 (CU1), Vendetta_51 (CU1),

Start 63:

- Found in 3 of 358 (0.8%) of genes in pham
- Manual Annotations of this start: 3 of 320
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Leozinho_66 (F1), MadMen_67 (F1), MooMoo_66 (singleton),

Start 65:

- Found in 26 of 358 (7.3%) of genes in pham
- Manual Annotations of this start: 24 of 320
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ariel_118 (J), BAKA_122 (J), Bagrid_123 (J), Bobby_115 (J), Courthouse_113 (J), DmpstrDiver_123 (J), Duke13_117 (J), Ejimix_117 (J), EricMillard_114 (J), 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), Pound_112 (J), Redno2_116 (J), Squint_116 (J), Superphikiman_115 (J), ThreeRngTarjay_118 (J), Wanda_122 (J), Zelink_117 (J),

Start 66:

- Found in 4 of 358 (1.1%) of genes in pham
- Manual Annotations of this start: 3 of 320
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BearBQ_70 (DN), BotCity_75 (DN), GAL1_54 (singleton), Phabuloso_75 (DN1),

Start 67:

- Found in 2 of 358 (0.6%) of genes in pham
- Manual Annotations of this start: 1 of 320
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Constella_107 (J),

Start 69:

- Found in 7 of 358 (2.0%) of genes in pham
- Manual Annotations of this start: 5 of 320
- 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 70:

- Found in 15 of 358 (4.2%) of genes in pham
- Manual Annotations of this start: 1 of 320
- Called 66.7% 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 72:

- Found in 9 of 358 (2.5%) of genes in pham
- Manual Annotations of this start: 4 of 320
- Called 44.4% of time when present
- Phage (with cluster) where this start called: Aleemily_105 (DZ), Cafasso_107 (DZ), Morgana_114 (DZ), ObLaDi_106 (DZ),

Start 73:

- Found in 34 of 358 (9.5%) of genes in pham
- Manual Annotations of this start: 1 of 320
- Called 2.9% of time when present
- Phage (with cluster) where this start called: Inventum_61 (F1),

Start 74:

- Found in 2 of 358 (0.6%) of genes in pham
- Manual Annotations of this start: 1 of 320
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Colossa_115 (KA), VanLee_116 (KA),

Start 81:

- Found in 1 of 358 (0.3%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ModicumRichard_107 (DZ),

Start 84:

- Found in 6 of 358 (1.7%) of genes in pham
- Manual Annotations of this start: 6 of 320
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Akhila_56 (F1), Doomphist_65 (F1), KingJulian_66 (F1), MilanaBonita_55 (F1), Poenanya_65 (F1), Sparkdehlily_72 (F1),

Summary by clusters:

There are 27 clusters represented in this pham: DN, FQ, singleton, FS, DZ, CU5, CU4, CU3, CU1, DN1, DU1, AS3, AS2, F, AH, J, F2, GF, S, W, Y, X, F1, KA, F3, F4, F5,

Info for manual annotations of cluster AS2:

- Start number 35 was manually annotated 1 time for cluster AS2.
- Start number 53 was manually annotated 1 time for cluster AS2.
- Start number 56 was manually annotated 1 time for cluster AS2.

Info for manual annotations of cluster AS3:

- Start number 70 was manually annotated 1 time for cluster AS3.

Info for manual annotations of cluster CU1:

- Start number 62 was manually annotated 8 times for cluster CU1.

Info for manual annotations of cluster CU3:

- Start number 60 was manually annotated 1 time for cluster CU3.

Info for manual annotations of cluster CU4:

- Start number 62 was manually annotated 1 time for cluster CU4.

Info for manual annotations of cluster CU5:

- Start number 62 was manually annotated 1 time for cluster CU5.

Info for manual annotations of cluster DN:

- Start number 66 was manually annotated 2 times for cluster DN.

Info for manual annotations of cluster DN1:

- Start number 66 was manually annotated 1 time for cluster DN1.

Info for manual annotations of cluster DU1:

- Start number 34 was manually annotated 2 times for cluster DU1.
- Start number 58 was manually annotated 1 time for cluster DU1.

Info for manual annotations of cluster DZ:

- Start number 72 was manually annotated 4 times for cluster DZ.

Info for manual annotations of cluster F1:

- Start number 60 was manually annotated 204 times for cluster F1.
- Start number 63 was manually annotated 2 times for cluster F1.
- Start number 73 was manually annotated 1 time for cluster F1.
- Start number 84 was manually annotated 6 times for cluster F1.

Info for manual annotations of cluster F2:

- Start number 60 was manually annotated 7 times for cluster F2.

Info for manual annotations of cluster F3:

- Start number 60 was manually annotated 1 time for cluster F3.

Info for manual annotations of cluster F4:

- Start number 60 was manually annotated 4 times for cluster F4.

Info for manual annotations of cluster F5:

- Start number 60 was manually annotated 1 time for cluster F5.

Info for manual annotations of cluster FQ:

- Start number 69 was manually annotated 4 times for cluster FQ.

Info for manual annotations of cluster FS:

- Start number 69 was manually annotated 1 time for cluster FS.

Info for manual annotations of cluster GF:

- Start number 61 was manually annotated 4 times for cluster GF.

Info for manual annotations of cluster J:

- Start number 65 was manually annotated 22 times for cluster J.
- Start number 67 was manually annotated 1 time for cluster J.

Info for manual annotations of cluster KA:

- Start number 74 was manually annotated 1 time for cluster KA.

Info for manual annotations of cluster S:

- Start number 55 was manually annotated 18 times for cluster S.

Info for manual annotations of cluster W:

- Start number 59 was manually annotated 8 times for cluster W.

Info for manual annotations of cluster X:

- Start number 65 was manually annotated 2 times for cluster X.

Info for manual annotations of cluster Y:

- Start number 57 was manually annotated 5 times for cluster Y.

Gene Information:

Gene: AdoptaAdorbs_29 Start: 20838, Stop: 20518, Start Num: 70

Candidate Starts for AdoptaAdorbs_29:

(2, 21273), (9, 21123), (Start: 35 @20928 has 1 MA's), (Start: 56 @20871 has 1 MA's), (Start: 70 @20838 has 1 MA's), (97, 20742),

Gene: Akhila_56 Start: 38018, Stop: 38311, Start Num: 84

Candidate Starts for Akhila_56:

(Start: 84 @38018 has 6 MA's), (90, 38036), (100, 38072), (103, 38078), (105, 38096), (134, 38192), (171, 38294),

Gene: Aleemily_105 Start: 59933, Stop: 60322, Start Num: 72

Candidate Starts for Aleemily_105:

(5, 59546), (6, 59558), (12, 59657), (Start: 72 @59933 has 4 MA's), (82, 59966), (89, 59987), (130, 60134), (140, 60164), (146, 60188),

Gene: AlexMinion_32 Start: 21027, Stop: 20707, Start Num: 70

Candidate Starts for AlexMinion_32:

(9, 21312), (Start: 35 @21117 has 1 MA's), (Start: 56 @21060 has 1 MA's), (Start: 70 @21027 has 1 MA's), (97, 20931), (115, 20880),

Gene: Alexphander_69 Start: 42282, Stop: 42644, Start Num: 60

Candidate Starts for Alexphander_69:

(Start: 60 @42282 has 218 MA's), (150, 42582), (171, 42627),

Gene: AlpineSix_71 Start: 45319, Stop: 45681, Start Num: 60

Candidate Starts for AlpineSix_71:

(Start: 60 @45319 has 218 MA's), (126, 45523), (150, 45619), (171, 45664),

Gene: Altostratus_54 Start: 31416, Stop: 31790, Start Num: 69

Candidate Starts for Altostratus_54:

(Start: 69 @31416 has 5 MA's), (112, 31569), (168, 31749), (174, 31761),

Gene: Amphitrite_30 Start: 20836, Stop: 20516, Start Num: 70

Candidate Starts for Amphitrite_30:

(2, 21271), (9, 21121), (Start: 35 @20926 has 1 MA's), (Start: 56 @20869 has 1 MA's), (Start: 70 @20836 has 1 MA's), (97, 20740),

Gene: ArcusAngelus_67 Start: 42632, Stop: 42994, Start Num: 60

Candidate Starts for ArcusAngelus_67:

(Start: 60 @42632 has 218 MA's), (111, 42791), (150, 42932), (153, 42935), (171, 42977),

Gene: Ardmore_57 Start: 40049, Stop: 40405, Start Num: 60

Candidate Starts for Ardmore_57:

(Start: 60 @40049 has 218 MA's), (150, 40349), (153, 40352),

Gene: Argie_53 Start: 44207, Stop: 44548, Start Num: 59

Candidate Starts for Argie_53:

(Start: 59 @44207 has 8 MA's), (80, 44261), (85, 44276), (91, 44294), (114, 44360), (120, 44378), (131, 44432), (145, 44477), (150, 44498), (158, 44522), (161, 44525),

Gene: Ariel_118 Start: 64179, Stop: 64499, Start Num: 65

Candidate Starts for Ariel_118:

(Start: 65 @64179 has 24 MA's), (87, 64248), (102, 64290), (136, 64407),

Gene: Aubs_65 Start: 42690, Stop: 43052, Start Num: 60

Candidate Starts for Aubs_65:

(25, 42573), (Start: 60 @42690 has 218 MA's), (111, 42849), (150, 42990), (171, 43035),

Gene: AuntGwenStacy_65 Start: 45161, Stop: 45511, Start Num: 57

Candidate Starts for AuntGwenStacy_65:

(Start: 35 @45089 has 1 MA's), (43, 45119), (Start: 57 @45161 has 5 MA's), (64, 45176), (Start: 72 @45194 has 4 MA's), (86, 45242), (89, 45248), (97, 45284), (126, 45368), (127, 45374), (132, 45404), (144, 45437),

Gene: Avani_73 Start: 42666, Stop: 43022, Start Num: 60

Candidate Starts for Avani_73:

(Start: 60 @42666 has 218 MA's), (150, 42966), (153, 42969),

Gene: Azaz_30 Start: 20910, Stop: 20590, Start Num: 70

Candidate Starts for Azaz_30:

(9, 21195), (Start: 35 @21000 has 1 MA's), (Start: 56 @20943 has 1 MA's), (Start: 70 @20910 has 1 MA's), (97, 20814), (115, 20763),

Gene: BAKA_122 Start: 67774, Stop: 68106, Start Num: 65

Candidate Starts for BAKA_122:

(Start: 65 @67774 has 24 MA's), (87, 67843), (118, 67933), (120, 67936), (136, 68002),

Gene: Bagrid_123 Start: 67735, Stop: 68064, Start Num: 65

Candidate Starts for Bagrid_123:

(Start: 65 @67735 has 24 MA's), (87, 67804), (136, 67963), (164, 68047),

Gene: Banquo_50 Start: 32516, Stop: 32896, Start Num: 62

Candidate Starts for Banquo_50:

(Start: 62 @32516 has 10 MA's), (83, 32579), (102, 32639), (136, 32756), (146, 32795), (154, 32822), (173, 32864),

Gene: Batiatus_63 Start: 41925, Stop: 42281, Start Num: 60

Candidate Starts for Batiatus_63:

(Start: 60 @41925 has 218 MA's), (150, 42225), (153, 42228),

Gene: Beakin_66 Start: 41229, Stop: 41591, Start Num: 60

Candidate Starts for Beakin_66:

(Start: 60 @41229 has 218 MA's), (111, 41388), (150, 41529), (153, 41532), (171, 41574),

Gene: BearBQ_70 Start: 44365, Stop: 44712, Start Num: 66

Candidate Starts for BearBQ_70:

(30, 44251), (51, 44341), (Start: 66 @44365 has 3 MA's), (Start: 73 @44386 has 1 MA's), (79, 44404), (80, 44413), (102, 44488), (136, 44605), (144, 44635), (153, 44665), (166, 44692), (171, 44704),

Gene: Beelzebub_73 Start: 40109, Stop: 40462, Start Num: 55

Candidate Starts for Beelzebub_73:

(Start: 55 @40109 has 18 MA's), (68, 40136), (109, 40271), (123, 40301), (132, 40352), (135, 40358), (140, 40373), (146, 40391), (152, 40415), (154, 40418),

Gene: BigPhil_62 Start: 39148, Stop: 39510, Start Num: 60

Candidate Starts for BigPhil_62:

(Start: 60 @39148 has 218 MA's), (111, 39307), (126, 39352), (150, 39448), (153, 39451), (171, 39493),

Gene: Bipolar_65 Start: 42690, Stop: 43052, Start Num: 60

Candidate Starts for Bipolar_65:

(Start: 60 @42690 has 218 MA's), (111, 42849), (150, 42990), (171, 43035),

Gene: Bipper_62 Start: 43632, Stop: 43982, Start Num: 57

Candidate Starts for Bipper_62:

(11, 43371), (18, 43479), (20, 43488), (Start: 35 @43560 has 1 MA's), (43, 43590), (Start: 57 @43632 has 5 MA's), (64, 43647), (71, 43662), (78, 43680), (86, 43713), (97, 43755), (131, 43869), (154, 43935),

Gene: Blackbeetle_69 Start: 39121, Stop: 39474, Start Num: 55

Candidate Starts for Blackbeetle_69:

(Start: 55 @39121 has 18 MA's), (68, 39148), (109, 39283), (123, 39313), (132, 39364), (135, 39370), (140, 39385), (146, 39403), (152, 39427), (154, 39430),

Gene: Blarby_78 Start: 44162, Stop: 44503, Start Num: 60

Candidate Starts for Blarby_78:

(48, 44147), (Start: 60 @44162 has 218 MA's), (150, 44462), (153, 44465),

Gene: Blexus_63 Start: 42819, Stop: 43181, Start Num: 60

Candidate Starts for Blexus_63:

(Start: 60 @42819 has 218 MA's), (111, 42978), (150, 43119), (171, 43164),

Gene: BlueCrab_66 Start: 43528, Stop: 43884, Start Num: 60

Candidate Starts for BlueCrab_66:

(Start: 60 @43528 has 218 MA's), (117, 43702), (150, 43828),

Gene: BobaPhett_69 Start: 45114, Stop: 45476, Start Num: 60

Candidate Starts for BobaPhett_69:

(Start: 60 @45114 has 218 MA's), (111, 45273), (117, 45288), (150, 45414), (171, 45459),

Gene: Bobby_115 Start: 69193, Stop: 69522, Start Num: 65

Candidate Starts for Bobby_115:

(Start: 65 @69193 has 24 MA's), (87, 69262), (118, 69352), (120, 69355), (136, 69421), (164, 69505),

Gene: Bobi_69 Start: 43528, Stop: 43884, Start Num: 60

Candidate Starts for Bobi_69:

(Start: 60 @43528 has 218 MA's), (150, 43828), (153, 43831),

Gene: BodEinwohner17_66 Start: 42524, Stop: 42886, Start Num: 60
Candidate Starts for BodEinwohner17_66:
(28, 42419), (29, 42425), (42, 42479), (Start: 60 @42524 has 218 MA's), (Start: 73 @42557 has 1 MA's), (150, 42824), (153, 42827), (171, 42869),

Gene: Boomer_70 Start: 44186, Stop: 44542, Start Num: 60
Candidate Starts for Boomer_70:
(Start: 60 @44186 has 218 MA's), (150, 44486), (153, 44489),

Gene: BotCity_75 Start: 44601, Stop: 44948, Start Num: 66
Candidate Starts for BotCity_75:
(30, 44487), (51, 44577), (Start: 66 @44601 has 3 MA's), (Start: 73 @44622 has 1 MA's), (79, 44640), (80, 44649), (102, 44724), (136, 44841), (144, 44871), (153, 44901), (166, 44928), (171, 44940),

Gene: Brocalys_60 Start: 39296, Stop: 39658, Start Num: 60
Candidate Starts for Brocalys_60:
(25, 39179), (Start: 60 @39296 has 218 MA's), (111, 39455), (150, 39596), (171, 39641),

Gene: Brookers_63 Start: 42099, Stop: 42461, Start Num: 60
Candidate Starts for Brookers_63:
(Start: 60 @42099 has 218 MA's), (111, 42258), (126, 42303), (150, 42399), (153, 42402), (171, 42444),

Gene: Brushbloom_67 Start: 42857, Stop: 43213, Start Num: 60
Candidate Starts for Brushbloom_67:
(Start: 60 @42857 has 218 MA's), (150, 43157), (153, 43160),

Gene: Burwell21_63 Start: 42397, Stop: 42759, Start Num: 60
Candidate Starts for Burwell21_63:
(25, 42280), (Start: 60 @42397 has 218 MA's), (111, 42556), (150, 42697), (171, 42742),

Gene: BuzzLyseyear_71 Start: 43599, Stop: 43961, Start Num: 60
Candidate Starts for BuzzLyseyear_71:
(Start: 60 @43599 has 218 MA's), (111, 43758), (150, 43899), (153, 43902), (171, 43944),

Gene: ByChance_58 Start: 38456, Stop: 38818, Start Num: 60
Candidate Starts for ByChance_58:
(Start: 60 @38456 has 218 MA's), (111, 38615), (117, 38630), (150, 38756), (171, 38801),

Gene: Byougenkin_65 Start: 42188, Stop: 42544, Start Num: 60
Candidate Starts for Byougenkin_65:
(Start: 60 @42188 has 218 MA's), (150, 42488), (153, 42491),

Gene: Cabrinians_66 Start: 42475, Stop: 42837, Start Num: 60
Candidate Starts for Cabrinians_66:
(Start: 60 @42475 has 218 MA's), (117, 42649), (150, 42775), (171, 42820),

Gene: Cafasso_107 Start: 60484, Stop: 60873, Start Num: 72
Candidate Starts for Cafasso_107:
(5, 60097), (6, 60109), (Start: 72 @60484 has 4 MA's), (82, 60517), (89, 60538), (130, 60685), (140, 60715),

Gene: Camara_30 Start: 20839, Stop: 20519, Start Num: 70

Candidate Starts for Camara_30:

(2, 21274), (9, 21124), (Start: 35 @20929 has 1 MA's), (Start: 56 @20872 has 1 MA's), (Start: 70 @20839 has 1 MA's), (97, 20743),

Gene: Caprice_64 Start: 39435, Stop: 39788, Start Num: 55

Candidate Starts for Caprice_64:

(Start: 55 @39435 has 18 MA's), (68, 39462), (109, 39597), (123, 39627), (132, 39678), (135, 39684), (140, 39699), (146, 39717), (152, 39741), (154, 39744),

Gene: CaptainTrips_63 Start: 42210, Stop: 42572, Start Num: 60

Candidate Starts for CaptainTrips_63:

(25, 42093), (Start: 60 @42210 has 218 MA's), (111, 42369), (150, 42510), (171, 42555),

Gene: Catfish_49 Start: 34051, Stop: 34401, Start Num: 62

Candidate Starts for Catfish_49:

(Start: 62 @34051 has 10 MA's), (75, 34084), (102, 34174), (107, 34198), (144, 34324), (166, 34384),

Gene: Cepens_52 Start: 43922, Stop: 44263, Start Num: 59

Candidate Starts for Cepens_52:

(Start: 59 @43922 has 8 MA's), (80, 43976), (85, 43991), (91, 44009), (114, 44075), (120, 44093), (131, 44147), (145, 44192), (150, 44213), (158, 44237), (161, 44240),

Gene: Cerasum_62 Start: 39166, Stop: 39528, Start Num: 60

Candidate Starts for Cerasum_62:

(Start: 60 @39166 has 218 MA's), (111, 39325), (126, 39370), (150, 39466), (153, 39469), (171, 39511),

Gene: Che8_70 Start: 45095, Stop: 45457, Start Num: 60

Candidate Starts for Che8_70:

(Start: 60 @45095 has 218 MA's), (111, 45254), (150, 45395), (153, 45398), (171, 45440),

Gene: Che9d_75 Start: 42864, Stop: 43220, Start Num: 60

Candidate Starts for Che9d_75:

(Start: 60 @42864 has 218 MA's), (111, 43023), (150, 43164), (153, 43167),

Gene: Cheesepuff_74 Start: 44480, Stop: 44842, Start Num: 60

Candidate Starts for Cheesepuff_74:

(Start: 60 @44480 has 218 MA's), (111, 44639), (150, 44780), (171, 44825),

Gene: Chevrolet_70 Start: 42633, Stop: 42995, Start Num: 60

Candidate Starts for Chevrolet_70:

(Start: 60 @42633 has 218 MA's), (150, 42933), (153, 42936), (171, 42978),

Gene: Chuckly_68 Start: 42655, Stop: 43011, Start Num: 60

Candidate Starts for Chuckly_68:

(Start: 60 @42655 has 218 MA's), (150, 42955), (153, 42958),

Gene: Clarkson_70 Start: 39837, Stop: 40190, Start Num: 55

Candidate Starts for Clarkson_70:

(Start: 55 @39837 has 18 MA's), (68, 39864), (109, 39999), (123, 40029), (132, 40080), (135, 40086), (140, 40101), (146, 40119), (152, 40143), (154, 40146),

Gene: Clifton_60 Start: 39647, Stop: 40009, Start Num: 60

Candidate Starts for Clifton_60:

(25, 39530), (Start: 60 @39647 has 218 MA's), (111, 39806), (150, 39947), (171, 39992),

Gene: Coco12_65 Start: 43223, Stop: 43585, Start Num: 60

Candidate Starts for Coco12_65:

(Start: 60 @43223 has 218 MA's), (111, 43382), (126, 43427), (150, 43523), (153, 43526), (171, 43568),

Gene: Colossa_115 Start: 60533, Stop: 60895, Start Num: 74

Candidate Starts for Colossa_115:

(Start: 74 @60533 has 1 MA's), (135, 60746), (144, 60773), (151, 60800), (159, 60824), (176, 60863),

Gene: Constella_107 Start: 63055, Stop: 63387, Start Num: 67

Candidate Starts for Constella_107:

(Start: 67 @63055 has 1 MA's), (101, 63166), (106, 63190), (162, 63370),

Gene: Corazon_67 Start: 40031, Stop: 40384, Start Num: 55

Candidate Starts for Corazon_67:

(Start: 55 @40031 has 18 MA's), (68, 40058), (109, 40193), (123, 40223), (132, 40274), (135, 40280), (140, 40295), (146, 40313), (152, 40337), (154, 40340),

Gene: Cornie_63 Start: 40942, Stop: 41304, Start Num: 60

Candidate Starts for Cornie_63:

(Start: 60 @40942 has 218 MA's), (111, 41101), (150, 41242), (171, 41287),

Gene: Cornucopia_67 Start: 42579, Stop: 42941, Start Num: 60

Candidate Starts for Cornucopia_67:

(Start: 60 @42579 has 218 MA's), (126, 42783), (150, 42879), (153, 42882), (171, 42924),

Gene: Courthouse_113 Start: 63779, Stop: 64099, Start Num: 65

Candidate Starts for Courthouse_113:

(Start: 65 @63779 has 24 MA's), (87, 63848), (102, 63890), (136, 64007),

Gene: Cracklewink_62 Start: 43613, Stop: 43963, Start Num: 57

Candidate Starts for Cracklewink_62:

(11, 43352), (18, 43460), (20, 43469), (Start: 35 @43541 has 1 MA's), (43, 43571), (Start: 57 @43613 has 5 MA's), (64, 43628), (78, 43661), (86, 43694), (97, 43736), (131, 43850), (154, 43916),

Gene: Crumble_60 Start: 38411, Stop: 38773, Start Num: 60

Candidate Starts for Crumble_60:

(Start: 60 @38411 has 218 MA's), (111, 38570), (117, 38585), (150, 38711), (171, 38756),

Gene: Cygnet_31 Start: 22172, Stop: 21816, Start Num: 53

Candidate Starts for Cygnet_31:

(19, 22316), (Start: 35 @22241 has 1 MA's), (Start: 53 @22172 has 1 MA's), (Start: 70 @22136 has 1 MA's), (83, 22097), (92, 22064), (97, 22040),

Gene: D12_51 Start: 44470, Stop: 44811, Start Num: 59

Candidate Starts for D12_51:

(Start: 59 @44470 has 8 MA's), (80, 44524), (85, 44539), (91, 44557), (114, 44623), (120, 44641), (131, 44695), (145, 44740), (150, 44761), (158, 44785), (161, 44788),

Gene: DLane_60 Start: 40555, Stop: 40917, Start Num: 60

Candidate Starts for DLane_60:

(Start: 60 @40555 has 218 MA's), (150, 40855), (153, 40858), (171, 40900),

Gene: DRBy19_69 Start: 43907, Stop: 44263, Start Num: 60

Candidate Starts for DRBy19_69:

(25, 43790), (Start: 60 @43907 has 218 MA's), (117, 44081), (150, 44207), (153, 44210), (171, 44246),

Gene: DaWorst_65 Start: 42022, Stop: 42384, Start Num: 60

Candidate Starts for DaWorst_65:

(Start: 60 @42022 has 218 MA's), (111, 42181), (150, 42322), (171, 42367),

Gene: Daenerys_60 Start: 41329, Stop: 41685, Start Num: 60

Candidate Starts for Daenerys_60:

(28, 41224), (29, 41230), (42, 41284), (Start: 60 @41329 has 218 MA's), (Start: 73 @41362 has 1 MA's), (126, 41533), (150, 41629), (153, 41632),

Gene: Dante_66 Start: 41796, Stop: 42161, Start Num: 60

Candidate Starts for Dante_66:

(Start: 60 @41796 has 218 MA's), (111, 41955), (150, 42096), (157, 42120),

Gene: Dardanus_46 Start: 31283, Stop: 31621, Start Num: 60

Candidate Starts for Dardanus_46:

(24, 31163), (52, 31274), (Start: 60 @31283 has 218 MA's), (102, 31409), (111, 31439), (120, 31460), (157, 31610),

Gene: DeadP_72 Start: 44907, Stop: 45269, Start Num: 60

Candidate Starts for DeadP_72:

(48, 44892), (Start: 60 @44907 has 218 MA's), (150, 45207), (153, 45210), (171, 45252),

Gene: Deb65_60 Start: 41299, Stop: 41661, Start Num: 60

Candidate Starts for Deb65_60:

(28, 41194), (29, 41200), (42, 41254), (Start: 60 @41299 has 218 MA's), (Start: 73 @41332 has 1 MA's), (150, 41599), (153, 41602), (171, 41644),

Gene: DelaGarza_58 Start: 33298, Stop: 33687, Start Num: 61

Candidate Starts for DelaGarza_58:

(Start: 61 @33298 has 4 MA's), (99, 33424), (129, 33532), (170, 33652),

Gene: Demsculpinboyz_78 Start: 42611, Stop: 42973, Start Num: 60

Candidate Starts for Demsculpinboyz_78:

(Start: 60 @42611 has 218 MA's), (126, 42815), (150, 42911), (171, 42956),

Gene: DillTech15_63 Start: 40922, Stop: 41284, Start Num: 60

Candidate Starts for DillTech15_63:

(50, 40907), (Start: 60 @40922 has 218 MA's), (150, 41222), (173, 41267),

Gene: DillyDally_47 Start: 29839, Stop: 30222, Start Num: 49

Candidate Starts for DillyDally_47:

(41, 29803), (49, 29839), (Start: 73 @29875 has 1 MA's), (103, 29980), (112, 30016), (119, 30034), (121, 30040), (125, 30049), (143, 30124), (163, 30184),

Gene: DinoDaryn_52 Start: 33048, Stop: 33431, Start Num: 62

Candidate Starts for DinoDaryn_52:

(Start: 62 @33048 has 10 MA's), (102, 33171), (154, 33354), (173, 33396),

Gene: DirtMcgirt_64 Start: 40554, Stop: 40916, Start Num: 60

Candidate Starts for DirtMcgirt_64:

(Start: 60 @40554 has 218 MA's), (111, 40713), (150, 40854), (153, 40857), (171, 40899),

Gene: DmpstrDiver_123 Start: 68024, Stop: 68353, Start Num: 65

Candidate Starts for DmpstrDiver_123:

(Start: 65 @68024 has 24 MA's), (87, 68093), (136, 68252), (164, 68336),

Gene: DoRead_69 Start: 42341, Stop: 42703, Start Num: 60

Candidate Starts for DoRead_69:

(33, 42263), (36, 42272), (46, 42305), (Start: 60 @42341 has 218 MA's), (173, 42686),

Gene: Donkeykong_68 Start: 44468, Stop: 44830, Start Num: 60

Candidate Starts for Donkeykong_68:

(Start: 60 @44468 has 218 MA's), (150, 44768), (153, 44771), (171, 44813),

Gene: Doomphist_65 Start: 43033, Stop: 43326, Start Num: 84

Candidate Starts for Doomphist_65:

(Start: 84 @43033 has 6 MA's), (88, 43045), (90, 43051), (100, 43087), (111, 43123), (150, 43264), (153, 43267), (171, 43309),

Gene: Doomslug_74 Start: 42992, Stop: 43354, Start Num: 60

Candidate Starts for Doomslug_74:

(25, 42875), (Start: 60 @42992 has 218 MA's), (111, 43151), (150, 43292), (153, 43295), (171, 43337),

Gene: Dorothy_64 Start: 42261, Stop: 42623, Start Num: 60

Candidate Starts for Dorothy_64:

(28, 42156), (29, 42162), (42, 42216), (Start: 60 @42261 has 218 MA's), (Start: 73 @42294 has 1 MA's), (126, 42465), (150, 42561), (153, 42564), (171, 42606),

Gene: DosHalletts_67 Start: 43303, Stop: 43665, Start Num: 60

Candidate Starts for DosHalletts_67:

(Start: 60 @43303 has 218 MA's), (111, 43462), (150, 43603), (153, 43606), (171, 43648),

Gene: DotProduct_60 Start: 40802, Stop: 41164, Start Num: 60

Candidate Starts for DotProduct_60:

(Start: 60 @40802 has 218 MA's), (150, 41102), (153, 41105), (171, 41147),

Gene: Doug_67 Start: 42635, Stop: 42997, Start Num: 60

Candidate Starts for Doug_67:

(Start: 60 @42635 has 218 MA's), (150, 42935), (171, 42980),

Gene: Drago_62 Start: 40557, Stop: 40919, Start Num: 60

Candidate Starts for Drago_62:

(Start: 60 @40557 has 218 MA's), (111, 40716), (150, 40857), (153, 40860), (171, 40902),

Gene: Duke13_117 Start: 65442, Stop: 65774, Start Num: 65

Candidate Starts for Duke13_117:

(Start: 65 @65442 has 24 MA's), (87, 65511), (118, 65601), (120, 65604), (136, 65670),

Gene: Eish_68 Start: 42537, Stop: 42899, Start Num: 60

Candidate Starts for Eish_68:

(Start: 60 @42537 has 218 MA's), (111, 42696), (150, 42837), (153, 42840), (171, 42882),

Gene: Ejimix_117 Start: 69176, Stop: 69505, Start Num: 65

Candidate Starts for Ejimix_117:

(Start: 65 @69176 has 24 MA's), (87, 69245), (118, 69335), (120, 69338), (136, 69404), (164, 69488),

Gene: EleanorGeorge_67 Start: 43317, Stop: 43673, Start Num: 60

Candidate Starts for EleanorGeorge_67:

(Start: 60 @43317 has 218 MA's), (111, 43476), (150, 43617), (153, 43620),

Gene: Emma_67 Start: 42045, Stop: 42407, Start Num: 60

Candidate Starts for Emma_67:

(Start: 60 @42045 has 218 MA's), (76, 42087), (111, 42204), (150, 42345), (171, 42390),

Gene: Emmaloid_67 Start: 43062, Stop: 43424, Start Num: 60

Candidate Starts for Emmaloid_67:

(Start: 60 @43062 has 218 MA's), (150, 43362), (153, 43365), (171, 43407),

Gene: Empress_64 Start: 42743, Stop: 43105, Start Num: 60

Candidate Starts for Empress_64:

(28, 42638), (29, 42644), (42, 42698), (Start: 60 @42743 has 218 MA's), (Start: 73 @42776 has 1 MA's), (150, 43043), (153, 43046), (171, 43088),

Gene: Enby_66 Start: 40833, Stop: 41195, Start Num: 60

Candidate Starts for Enby_66:

(Start: 60 @40833 has 218 MA's), (111, 40992), (150, 41133), (153, 41136), (171, 41178),

Gene: Enzomatic_73 Start: 42241, Stop: 42768, Start Num: 33

Candidate Starts for Enzomatic_73:

(33, 42241), (36, 42250), (46, 42283), (Start: 60 @42319 has 218 MA's), (150, 42619),

Gene: Eradicator_58 Start: 40449, Stop: 40811, Start Num: 60

Candidate Starts for Eradicator_58:

(Start: 60 @40449 has 218 MA's), (111, 40608), (150, 40749), (153, 40752), (171, 40794),

Gene: EricMillard_114 Start: 67411, Stop: 67743, Start Num: 65

Candidate Starts for EricMillard_114:

(Start: 65 @67411 has 24 MA's), (87, 67480), (118, 67570), (120, 67573), (136, 67639),

Gene: Estave1_70 Start: 44873, Stop: 45235, Start Num: 60

Candidate Starts for Estave1_70:

(Start: 60 @44873 has 218 MA's), (111, 45032), (117, 45047), (150, 45173), (153, 45176), (171, 45218),

Gene: Faiyaz_65 Start: 45151, Stop: 45501, Start Num: 57

Candidate Starts for Faiyaz_65:

(Start: 35 @45079 has 1 MA's), (43, 45109), (Start: 57 @45151 has 5 MA's), (64, 45166), (Start: 72 @45184 has 4 MA's), (86, 45232), (89, 45238), (97, 45274), (126, 45358), (132, 45394),

Gene: Fancypants_68 Start: 43057, Stop: 43419, Start Num: 60

Candidate Starts for Fancypants_68:

(50, 43042), (Start: 60 @43057 has 218 MA's), (111, 43216), (150, 43357), (173, 43402),

Gene: Fastidio_66 Start: 41072, Stop: 41428, Start Num: 60
Candidate Starts for Fastidio_66:
(48, 41057), (Start: 60 @41072 has 218 MA's), (111, 41231), (150, 41372), (153, 41375),

Gene: FeliMaine_71 Start: 40079, Stop: 40432, Start Num: 55
Candidate Starts for FeliMaine_71:
(Start: 55 @40079 has 18 MA's), (68, 40106), (109, 40241), (123, 40271), (132, 40322), (135, 40328),
(140, 40343), (146, 40361), (152, 40385), (154, 40388),

Gene: Filuzino_63 Start: 40860, Stop: 41222, Start Num: 60
Candidate Starts for Filuzino_63:
(Start: 60 @40860 has 218 MA's), (150, 41160), (153, 41163), (171, 41205),

Gene: Fingolfin_30 Start: 20839, Stop: 20519, Start Num: 70
Candidate Starts for Fingolfin_30:
(2, 21274), (9, 21124), (Start: 35 @20929 has 1 MA's), (Start: 56 @20872 has 1 MA's), (Start: 70
@20839 has 1 MA's), (97, 20743),

Gene: Firehouse51_68 Start: 46363, Stop: 46704, Start Num: 60
Candidate Starts for Firehouse51_68:
(Start: 60 @46363 has 218 MA's), (126, 46567), (150, 46663), (153, 46666),

Gene: Flathead_66 Start: 42514, Stop: 42876, Start Num: 60
Candidate Starts for Flathead_66:
(Start: 60 @42514 has 218 MA's), (150, 42814), (153, 42817), (171, 42859),

Gene: Florinda_76 Start: 43974, Stop: 44336, Start Num: 60
Candidate Starts for Florinda_76:
(Start: 60 @43974 has 218 MA's), (150, 44274), (153, 44277), (171, 44319),

Gene: FreddyB_66 Start: 41323, Stop: 41679, Start Num: 60
Candidate Starts for FreddyB_66:
(Start: 60 @41323 has 218 MA's), (117, 41497), (150, 41623),

Gene: GAL1_54 Start: 37553, Stop: 37900, Start Num: 66
Candidate Starts for GAL1_54:
(45, 37502), (Start: 66 @37553 has 3 MA's), (Start: 73 @37574 has 1 MA's), (79, 37592), (80, 37601),
(102, 37676), (120, 37727), (133, 37790), (136, 37793), (144, 37823), (153, 37853), (166, 37880),
(171, 37892),

Gene: GUmbie_63 Start: 41676, Stop: 42038, Start Num: 60
Candidate Starts for GUmbie_63:
(Start: 60 @41676 has 218 MA's), (111, 41835), (150, 41976), (153, 41979), (171, 42021),

Gene: Gaia_85 Start: 50308, Stop: 50631, Start Num: 65
Candidate Starts for Gaia_85:
(Start: 65 @50308 has 24 MA's), (85, 50371), (153, 50596), (154, 50599),

Gene: Galactic_64 Start: 41833, Stop: 42195, Start Num: 60
Candidate Starts for Galactic_64:
(Start: 60 @41833 has 218 MA's), (111, 41992), (150, 42133), (171, 42178),

Gene: Gandalph_68 Start: 42720, Stop: 43082, Start Num: 60
Candidate Starts for Gandalph_68:
(25, 42603), (Start: 60 @42720 has 218 MA's), (111, 42879), (150, 43020), (153, 43023), (171, 43065),

Gene: Gattaca_67 Start: 39225, Stop: 39578, Start Num: 55
Candidate Starts for Gattaca_67:
(Start: 55 @39225 has 18 MA's), (68, 39252), (109, 39387), (123, 39417), (132, 39468), (135, 39474),
(140, 39489), (146, 39507), (152, 39531), (154, 39534),

Gene: Geralt_60 Start: 41298, Stop: 41660, Start Num: 60
Candidate Starts for Geralt_60:
(28, 41193), (29, 41199), (42, 41253), (Start: 60 @41298 has 218 MA's), (Start: 73 @41331 has 1
MA's), (150, 41598), (153, 41601), (171, 41643),

Gene: GigiOuiOui_61 Start: 40822, Stop: 41184, Start Num: 60
Candidate Starts for GigiOuiOui_61:
(Start: 60 @40822 has 218 MA's), (150, 41122), (153, 41125), (171, 41167),

Gene: Gilgamesh_151 Start: 125936, Stop: 126292, Start Num: 54
Candidate Starts for Gilgamesh_151:
(38, 125873), (Start: 54 @125936 has 1 MA's), (Start: 73 @125972 has 1 MA's), (96, 126053), (102,
126065), (120, 126116), (136, 126182), (155, 126242), (157, 126260), (169, 126275),

Gene: Gingerbug_57 Start: 33770, Stop: 34138, Start Num: 61
Candidate Starts for Gingerbug_57:
(Start: 61 @33770 has 4 MA's), (77, 33791), (99, 33872), (129, 33980),

Gene: Girafales_73 Start: 43765, Stop: 44127, Start Num: 60
Candidate Starts for Girafales_73:
(Start: 60 @43765 has 218 MA's), (150, 44065), (153, 44068), (171, 44110),

Gene: Girr_63 Start: 41692, Stop: 42054, Start Num: 60
Candidate Starts for Girr_63:
(Start: 60 @41692 has 218 MA's), (150, 41992), (171, 42037),

Gene: GodPhather_53 Start: 44710, Stop: 45051, Start Num: 59
Candidate Starts for GodPhather_53:
(Start: 59 @44710 has 8 MA's), (80, 44764), (85, 44779), (91, 44797), (114, 44863), (120, 44881),
(131, 44935), (145, 44980), (150, 45001), (158, 45025), (161, 45028),

Gene: Goib_52 Start: 33585, Stop: 33968, Start Num: 62
Candidate Starts for Goib_52:
(Start: 62 @33585 has 10 MA's), (102, 33708), (154, 33891), (173, 33933),

Gene: Gonephishing_112 Start: 63185, Stop: 63505, Start Num: 65
Candidate Starts for Gonephishing_112:
(Start: 65 @63185 has 24 MA's), (87, 63254), (102, 63296), (136, 63413),

Gene: GoongGoong_66 Start: 39024, Stop: 39377, Start Num: 55
Candidate Starts for GoongGoong_66:
(Start: 55 @39024 has 18 MA's), (68, 39051), (109, 39186), (123, 39216), (132, 39267), (135, 39273),
(140, 39288), (146, 39306), (152, 39330), (154, 39333),

Gene: Gorge_69 Start: 43618, Stop: 43980, Start Num: 60
Candidate Starts for Gorge_69:
(Start: 60 @43618 has 218 MA's), (111, 43777), (150, 43918), (153, 43921), (171, 43963),

Gene: Grimmer_75 Start: 43862, Stop: 44218, Start Num: 60
Candidate Starts for Grimmer_75:
(Start: 60 @43862 has 218 MA's), (150, 44162),

Gene: Guppsters_66 Start: 41977, Stop: 42339, Start Num: 60
Candidate Starts for Guppsters_66:
(Start: 60 @41977 has 218 MA's), (111, 42136), (150, 42277), (153, 42280), (171, 42322),

Gene: Hades_66 Start: 42692, Stop: 43054, Start Num: 60
Candidate Starts for Hades_66:
(Start: 60 @42692 has 218 MA's), (111, 42851), (150, 42992), (153, 42995), (171, 43037),

Gene: Halley_125 Start: 69492, Stop: 69821, Start Num: 65
Candidate Starts for Halley_125:
(Start: 65 @69492 has 24 MA's), (87, 69561), (118, 69651), (120, 69654), (136, 69720), (164, 69804),

Gene: Hamulus_65 Start: 42334, Stop: 42690, Start Num: 60
Candidate Starts for Hamulus_65:
(Start: 60 @42334 has 218 MA's), (150, 42634), (153, 42637),

Gene: Harley_67 Start: 42941, Stop: 43297, Start Num: 60
Candidate Starts for Harley_67:
(Start: 60 @42941 has 218 MA's), (111, 43100), (117, 43115), (150, 43241), (153, 43244),

Gene: Hegedechwinu_65 Start: 41510, Stop: 41872, Start Num: 60
Candidate Starts for Hegedechwinu_65:
(25, 41393), (Start: 60 @41510 has 218 MA's), (111, 41669), (150, 41810), (153, 41813), (171, 41855),

Gene: Hilltopfarm_64 Start: 44853, Stop: 45203, Start Num: 57
Candidate Starts for Hilltopfarm_64:
(Start: 35 @44781 has 1 MA's), (43, 44811), (Start: 57 @44853 has 5 MA's), (64, 44868), (Start: 72 @44886 has 4 MA's), (86, 44934), (89, 44940), (97, 44976), (135, 45102),

Gene: Hlubikazi_61 Start: 39912, Stop: 40274, Start Num: 60
Candidate Starts for Hlubikazi_61:
(Start: 60 @39912 has 218 MA's), (150, 40212), (153, 40215), (171, 40257),

Gene: Huffy_52 Start: 33048, Stop: 33431, Start Num: 62
Candidate Starts for Huffy_52:
(Start: 62 @33048 has 10 MA's), (102, 33171), (154, 33354), (173, 33396),

Gene: Hughesyang_122 Start: 68948, Stop: 69280, Start Num: 65
Candidate Starts for Hughesyang_122:
(Start: 65 @68948 has 24 MA's), (87, 69017), (136, 69176),

Gene: Hum25_55 Start: 30658, Stop: 30984, Start Num: 69
Candidate Starts for Hum25_55:
(21, 30499), (Start: 69 @30658 has 5 MA's), (99, 30763), (138, 30895),

Gene: Huphlepuuff_71 Start: 39642, Stop: 39995, Start Num: 55

Candidate Starts for Huphlepuuff_71:

(Start: 55 @39642 has 18 MA's), (68, 39669), (109, 39804), (123, 39834), (132, 39885), (135, 39891), (140, 39906), (146, 39924), (152, 39948), (154, 39951),

Gene: lbOuu_67 Start: 43348, Stop: 43710, Start Num: 60

Candidate Starts for lbOuu_67:

(28, 43243), (29, 43249), (42, 43303), (Start: 60 @43348 has 218 MA's), (Start: 73 @43381 has 1 MA's), (150, 43648), (153, 43651), (171, 43693),

Gene: lbhubesi_65 Start: 41957, Stop: 42313, Start Num: 60

Candidate Starts for lbhubesi_65:

(Start: 60 @41957 has 218 MA's), (150, 42257), (153, 42260),

Gene: Inventum_61 Start: 42492, Stop: 42821, Start Num: 73

Candidate Starts for Inventum_61:

(28, 42354), (29, 42360), (42, 42414), (Start: 60 @42459 has 218 MA's), (Start: 73 @42492 has 1 MA's), (126, 42663), (150, 42759), (153, 42762), (171, 42804),

Gene: IrishSherpFalk_66 Start: 43547, Stop: 43909, Start Num: 60

Candidate Starts for IrishSherpFalk_66:

(Start: 60 @43547 has 218 MA's), (150, 43847), (153, 43850), (171, 43892),

Gene: Jabbawokkie_80 Start: 44082, Stop: 44423, Start Num: 60

Candidate Starts for Jabbawokkie_80:

(48, 44067), (Start: 60 @44082 has 218 MA's), (150, 44382), (153, 44385),

Gene: JalFarm20_78 Start: 46016, Stop: 46372, Start Num: 60

Candidate Starts for JalFarm20_78:

(Start: 60 @46016 has 218 MA's), (150, 46316), (153, 46319),

Gene: James_69 Start: 43743, Stop: 44105, Start Num: 60

Candidate Starts for James_69:

(Start: 60 @43743 has 218 MA's), (111, 43902), (150, 44043), (153, 44046), (171, 44088),

Gene: Jant_69 Start: 43594, Stop: 43950, Start Num: 60

Candidate Starts for Jant_69:

(Start: 60 @43594 has 218 MA's), (150, 43894), (153, 43897),

Gene: Jeon_52 Start: 44452, Stop: 44793, Start Num: 59

Candidate Starts for Jeon_52:

(Start: 59 @44452 has 8 MA's), (80, 44506), (85, 44521), (91, 44539), (114, 44605), (120, 44623), (131, 44677), (145, 44722), (150, 44743), (158, 44767), (161, 44770),

Gene: Jinglebell_71 Start: 45318, Stop: 45680, Start Num: 60

Candidate Starts for Jinglebell_71:

(Start: 60 @45318 has 218 MA's), (126, 45522), (150, 45618), (171, 45663),

Gene: Job42_68 Start: 44715, Stop: 45080, Start Num: 60

Candidate Starts for Job42_68:

(25, 44598), (Start: 60 @44715 has 218 MA's), (100, 44841), (103, 44847), (121, 44901), (122, 44904), (150, 45018), (153, 45021), (171, 45063),

Gene: JoeyJr_61 Start: 41497, Stop: 41853, Start Num: 60
Candidate Starts for JoeyJr_61:
(28, 41392), (29, 41398), (42, 41452), (Start: 60 @41497 has 218 MA's), (Start: 73 @41530 has 1 MA's), (126, 41701), (150, 41797), (153, 41800),

Gene: JoieB_70 Start: 40075, Stop: 40428, Start Num: 55
Candidate Starts for JoieB_70:
(Start: 55 @40075 has 18 MA's), (68, 40102), (109, 40237), (123, 40267), (132, 40318), (135, 40324), (140, 40339), (146, 40357), (152, 40381), (154, 40384),

Gene: Juice456_66 Start: 43972, Stop: 44328, Start Num: 60
Candidate Starts for Juice456_66:
(Start: 60 @43972 has 218 MA's), (150, 44272), (153, 44275),

Gene: Juniper1_65 Start: 42735, Stop: 43091, Start Num: 60
Candidate Starts for Juniper1_65:
(50, 42720), (Start: 60 @42735 has 218 MA's), (126, 42939), (150, 43035), (153, 43038),

Gene: KHumphrey_30 Start: 20837, Stop: 20517, Start Num: 70
Candidate Starts for KHumphrey_30:
(1, 21422), (2, 21272), (9, 21122), (Start: 35 @20927 has 1 MA's), (Start: 56 @20870 has 1 MA's), (Start: 70 @20837 has 1 MA's), (97, 20741),

Gene: Kalah2_114 Start: 67637, Stop: 67966, Start Num: 65
Candidate Starts for Kalah2_114:
(Start: 65 @67637 has 24 MA's), (87, 67706), (136, 67865), (164, 67949),

Gene: Karhdo_64 Start: 43305, Stop: 43667, Start Num: 60
Candidate Starts for Karhdo_64:
(Start: 60 @43305 has 218 MA's), (111, 43464), (150, 43605), (171, 43650),

Gene: Kenuha5_63 Start: 41295, Stop: 41651, Start Num: 60
Candidate Starts for Kenuha5_63:
(Start: 60 @41295 has 218 MA's), (111, 41454), (150, 41595), (153, 41598), (171, 41634),

Gene: Kersh_67 Start: 44741, Stop: 45097, Start Num: 60
Candidate Starts for Kersh_67:
(Start: 60 @44741 has 218 MA's), (111, 44900), (150, 45041), (153, 45044),

Gene: Khuang_54 Start: 31611, Stop: 31976, Start Num: 69
Candidate Starts for Khuang_54:
(Start: 69 @31611 has 5 MA's), (110, 31761), (143, 31872), (148, 31887),

Gene: Kimberlium_70 Start: 44253, Stop: 44594, Start Num: 60
Candidate Starts for Kimberlium_70:
(Start: 60 @44253 has 218 MA's), (150, 44553), (153, 44556),

Gene: KingJulian_66 Start: 41550, Stop: 41834, Start Num: 84
Candidate Starts for KingJulian_66:
(Start: 84 @41550 has 6 MA's), (100, 41604), (103, 41610), (105, 41628), (122, 41667), (134, 41724), (156, 41802),

Gene: KingMidas_65 Start: 43159, Stop: 43521, Start Num: 60

Candidate Starts for KingMidas_65:

(28, 43054), (29, 43060), (42, 43114), (Start: 60 @43159 has 218 MA's), (Start: 73 @43192 has 1 MA's), (126, 43363), (150, 43459), (153, 43462), (171, 43504),

Gene: Kingsley_63 Start: 41956, Stop: 42318, Start Num: 60

Candidate Starts for Kingsley_63:

(Start: 60 @41956 has 218 MA's), (111, 42115), (126, 42160), (150, 42256), (153, 42259), (171, 42301),

Gene: Klein_119 Start: 65994, Stop: 66323, Start Num: 65

Candidate Starts for Klein_119:

(Start: 65 @65994 has 24 MA's), (87, 66063), (118, 66153), (120, 66156), (136, 66222), (164, 66306),

Gene: Koella_59 Start: 38373, Stop: 38735, Start Num: 60

Candidate Starts for Koella_59:

(Start: 60 @38373 has 218 MA's), (117, 38547), (150, 38673), (171, 38718),

Gene: Krakatau_62 Start: 41145, Stop: 41507, Start Num: 60

Candidate Starts for Krakatau_62:

(Start: 60 @41145 has 218 MA's), (150, 41445), (153, 41448), (171, 41490),

Gene: KristaRAM_68 Start: 44341, Stop: 44697, Start Num: 60

Candidate Starts for KristaRAM_68:

(Start: 60 @44341 has 218 MA's), (150, 44641), (153, 44644),

Gene: Kuleana_32 Start: 21579, Stop: 21160, Start Num: 35

Candidate Starts for Kuleana_32:

(15, 21714), (Start: 35 @21579 has 1 MA's), (50, 21528), (Start: 70 @21480 has 1 MA's), (92, 21408), (97, 21384), (147, 21219),

Gene: Laphuphu24k_29 Start: 20823, Stop: 20503, Start Num: 70

Candidate Starts for Laphuphu24k_29:

(2, 21258), (9, 21108), (Start: 35 @20913 has 1 MA's), (Start: 56 @20856 has 1 MA's), (Start: 70 @20823 has 1 MA's), (97, 20727),

Gene: LastJedi_59 Start: 39690, Stop: 40052, Start Num: 60

Candidate Starts for LastJedi_59:

(25, 39573), (Start: 60 @39690 has 218 MA's), (111, 39849), (150, 39990), (171, 40035),

Gene: Leozinho_66 Start: 42196, Stop: 42552, Start Num: 63

Candidate Starts for Leozinho_66:

(Start: 63 @42196 has 3 MA's), (Start: 70 @42217 has 1 MA's), (Start: 73 @42223 has 1 MA's), (85, 42265), (118, 42367), (142, 42457), (150, 42490), (171, 42535),

Gene: Leozinho_64 Start: 41151, Stop: 41507, Start Num: 60

Candidate Starts for Leozinho_64:

(Start: 60 @41151 has 218 MA's), (111, 41310), (150, 41451), (153, 41454),

Gene: Leperchaun_58 Start: 40727, Stop: 41083, Start Num: 60

Candidate Starts for Leperchaun_58:

(28, 40622), (29, 40628), (42, 40682), (Start: 60 @40727 has 218 MA's), (Start: 73 @40760 has 1 MA's), (126, 40931), (150, 41027), (153, 41030),

Gene: Lesiram_59 Start: 33428, Stop: 33817, Start Num: 61
Candidate Starts for Lesiram_59:
(Start: 61 @33428 has 4 MA's), (99, 33554), (129, 33662), (170, 33782),

Gene: LilMoolah_64 Start: 42220, Stop: 42582, Start Num: 60
Candidate Starts for LilMoolah_64:
(25, 42103), (Start: 60 @42220 has 218 MA's), (111, 42379), (150, 42520), (171, 42565),

Gene: Lilbit_67 Start: 39805, Stop: 40158, Start Num: 55
Candidate Starts for Lilbit_67:
(Start: 55 @39805 has 18 MA's), (68, 39832), (109, 39967), (123, 39997), (132, 40048), (135, 40054),
(140, 40069), (146, 40087), (152, 40111), (154, 40114),

Gene: LittleE_122 Start: 67384, Stop: 67704, Start Num: 65
Candidate Starts for LittleE_122:
(Start: 65 @67384 has 24 MA's), (87, 67453), (102, 67495), (136, 67612),

Gene: LittleLaf_69 Start: 39534, Stop: 39887, Start Num: 55
Candidate Starts for LittleLaf_69:
(Start: 55 @39534 has 18 MA's), (68, 39561), (109, 39696), (123, 39726), (132, 39777), (135, 39783),
(140, 39798), (146, 39816), (152, 39840), (154, 39843),

Gene: LittleShirley_65 Start: 42793, Stop: 43149, Start Num: 60
Candidate Starts for LittleShirley_65:
(Start: 60 @42793 has 218 MA's), (126, 42997), (150, 43093), (153, 43096),

Gene: LittleTokyo_32 Start: 21633, Stop: 21280, Start Num: 56
Candidate Starts for LittleTokyo_32:
(Start: 56 @21633 has 1 MA's), (92, 21528), (97, 21504),

Gene: Lizziana_71 Start: 43224, Stop: 43586, Start Num: 60
Candidate Starts for Lizziana_71:
(Start: 60 @43224 has 218 MA's), (111, 43383), (150, 43524), (153, 43527), (171, 43569),

Gene: Llama_70 Start: 45173, Stop: 45535, Start Num: 60
Candidate Starts for Llama_70:
(Start: 60 @45173 has 218 MA's), (126, 45377), (150, 45473), (171, 45518),

Gene: Llij_61 Start: 40711, Stop: 41073, Start Num: 60
Candidate Starts for Llij_61:
(Start: 60 @40711 has 218 MA's), (111, 40870), (150, 41011), (153, 41014), (171, 41056),

Gene: Lorde_65 Start: 39998, Stop: 40360, Start Num: 60
Candidate Starts for Lorde_65:
(Start: 60 @39998 has 218 MA's), (111, 40157), (150, 40298), (153, 40301), (171, 40343),

Gene: LunaBlu_67 Start: 42492, Stop: 42854, Start Num: 60
Candidate Starts for LunaBlu_67:
(Start: 60 @42492 has 218 MA's), (111, 42651), (150, 42792), (171, 42837),

Gene: LunaStella_65 Start: 42568, Stop: 42930, Start Num: 60
Candidate Starts for LunaStella_65:
(Start: 60 @42568 has 218 MA's), (150, 42868), (153, 42871), (171, 42913),

Gene: MadMen_65 Start: 42619, Stop: 42975, Start Num: 60

Candidate Starts for MadMen_65:

(25, 42502), (Start: 60 @42619 has 218 MA's), (111, 42778), (150, 42919), (153, 42922),

Gene: MadMen_67 Start: 43664, Stop: 44020, Start Num: 63

Candidate Starts for MadMen_67:

(Start: 63 @43664 has 3 MA's), (Start: 70 @43685 has 1 MA's), (Start: 73 @43691 has 1 MA's), (85, 43733), (118, 43835), (142, 43925), (150, 43958), (171, 44003),

Gene: Madiba_66 Start: 41725, Stop: 42087, Start Num: 60

Candidate Starts for Madiba_66:

(Start: 60 @41725 has 218 MA's), (111, 41884), (150, 42025), (171, 42070),

Gene: Mahavrat_62 Start: 41431, Stop: 41787, Start Num: 60

Candidate Starts for Mahavrat_62:

(Start: 60 @41431 has 218 MA's), (150, 41731),

Gene: Mandlovu_61 Start: 39854, Stop: 40216, Start Num: 60

Candidate Starts for Mandlovu_61:

(Start: 60 @39854 has 218 MA's), (150, 40154), (153, 40157), (171, 40199),

Gene: Mantra_62 Start: 41207, Stop: 41563, Start Num: 60

Candidate Starts for Mantra_62:

(48, 41192), (Start: 60 @41207 has 218 MA's), (150, 41507), (153, 41510),

Gene: Maravista_67 Start: 44362, Stop: 44724, Start Num: 60

Candidate Starts for Maravista_67:

(Start: 60 @44362 has 218 MA's), (111, 44521), (117, 44536), (150, 44662), (171, 44707),

Gene: Marker_67 Start: 42458, Stop: 42814, Start Num: 60

Candidate Starts for Marker_67:

(25, 42341), (Start: 60 @42458 has 218 MA's), (150, 42758), (153, 42761), (171, 42797),

Gene: Martik_65 Start: 42396, Stop: 42752, Start Num: 60

Candidate Starts for Martik_65:

(25, 42279), (Start: 60 @42396 has 218 MA's), (111, 42555), (150, 42696), (153, 42699),

Gene: Marvin_65 Start: 39295, Stop: 39648, Start Num: 55

Candidate Starts for Marvin_65:

(Start: 55 @39295 has 18 MA's), (68, 39322), (109, 39457), (123, 39487), (132, 39538), (135, 39544), (140, 39559), (146, 39577), (152, 39601), (154, 39604),

Gene: Mattes_69 Start: 43743, Stop: 44105, Start Num: 60

Candidate Starts for Mattes_69:

(Start: 60 @43743 has 218 MA's), (111, 43902), (150, 44043), (153, 44046), (171, 44088),

Gene: Medindi_61 Start: 39515, Stop: 39877, Start Num: 60

Candidate Starts for Medindi_61:

(Start: 60 @39515 has 218 MA's), (Start: 73 @39548 has 1 MA's), (126, 39719), (150, 39815), (153, 39818), (171, 39860),

Gene: Megabear_52 Start: 43843, Stop: 44184, Start Num: 59

Candidate Starts for Megabear_52:

(Start: 59 @43843 has 8 MA's), (80, 43897), (85, 43912), (91, 43930), (114, 43996), (120, 44014), (131, 44068), (145, 44113), (150, 44134), (158, 44158), (161, 44161),

Gene: Melissauren88_63 Start: 41372, Stop: 41734, Start Num: 60

Candidate Starts for Melissauren88_63:

(Start: 60 @41372 has 218 MA's), (150, 41672), (153, 41675), (171, 41717),

Gene: Merpity_54 Start: 31317, Stop: 31670, Start Num: 69

Candidate Starts for Merpity_54:

(Start: 69 @31317 has 5 MA's), (99, 31422), (168, 31638),

Gene: MilanaBonita_55 Start: 38018, Stop: 38311, Start Num: 84

Candidate Starts for MilanaBonita_55:

(Start: 84 @38018 has 6 MA's), (90, 38036), (100, 38072), (103, 38078), (105, 38096), (134, 38192), (171, 38294),

Gene: MilleniumForce_68 Start: 44060, Stop: 44416, Start Num: 60

Candidate Starts for MilleniumForce_68:

(Start: 60 @44060 has 218 MA's), (150, 44360), (153, 44363),

Gene: Minerva_120 Start: 67549, Stop: 67881, Start Num: 65

Candidate Starts for Minerva_120:

(Start: 65 @67549 has 24 MA's), (87, 67618), (136, 67777),

Gene: MinionDave_64 Start: 42746, Stop: 43108, Start Num: 60

Candidate Starts for MinionDave_64:

(25, 42629), (Start: 60 @42746 has 218 MA's), (111, 42905), (150, 43046), (171, 43091),

Gene: Minnie_68 Start: 43966, Stop: 44328, Start Num: 60

Candidate Starts for Minnie_68:

(25, 43849), (Start: 60 @43966 has 218 MA's), (111, 44125), (150, 44266), (171, 44311),

Gene: MisterCuddles_63 Start: 41692, Stop: 42054, Start Num: 60

Candidate Starts for MisterCuddles_63:

(Start: 60 @41692 has 218 MA's), (150, 41992), (171, 42037),

Gene: ModicumRichard_107 Start: 60796, Stop: 61155, Start Num: 81

Candidate Starts for ModicumRichard_107:

(44, 60703), (47, 60712), (Start: 72 @60769 has 4 MA's), (81, 60796), (82, 60799), (89, 60820), (97, 60856), (116, 60910), (140, 60997), (146, 61021),

Gene: Modragons_69 Start: 45162, Stop: 45524, Start Num: 60

Candidate Starts for Modragons_69:

(Start: 60 @45162 has 218 MA's), (126, 45366), (150, 45462), (171, 45507),

Gene: MooMoo_66 Start: 43589, Stop: 43945, Start Num: 63

Candidate Starts for MooMoo_66:

(Start: 63 @43589 has 3 MA's), (Start: 70 @43610 has 1 MA's), (Start: 73 @43616 has 1 MA's), (85, 43658), (102, 43712), (118, 43760), (139, 43838), (142, 43850), (150, 43883), (157, 43907), (175, 43937),

Gene: Moonbeam_64 Start: 41974, Stop: 42336, Start Num: 60

Candidate Starts for Moonbeam_64:

(Start: 60 @41974 has 218 MA's), (76, 42016), (111, 42133), (150, 42274), (171, 42319),

Gene: Morgana_114 Start: 62857, Stop: 63246, Start Num: 72

Candidate Starts for Morgana_114:

(4, 62464), (8, 62533), (10, 62569), (16, 62653), (Start: 72 @62857 has 4 MA's), (82, 62890), (89, 62911), (130, 63058), (140, 63088), (146, 63112),

Gene: MosMoris_66 Start: 39225, Stop: 39578, Start Num: 55

Candidate Starts for MosMoris_66:

(Start: 55 @39225 has 18 MA's), (68, 39252), (109, 39387), (123, 39417), (132, 39468), (135, 39474), (140, 39489), (146, 39507), (152, 39531), (154, 39534),

Gene: Mova_69 Start: 42229, Stop: 42585, Start Num: 60

Candidate Starts for Mova_69:

(Start: 60 @42229 has 218 MA's), (111, 42388), (150, 42529), (153, 42532), (171, 42568),

Gene: Mozy_75 Start: 44841, Stop: 45203, Start Num: 60

Candidate Starts for Mozy_75:

(50, 44826), (Start: 60 @44841 has 218 MA's), (111, 45000), (150, 45141), (173, 45186),

Gene: MrSmee_53 Start: 31291, Stop: 31644, Start Num: 69

Candidate Starts for MrSmee_53:

(Start: 69 @31291 has 5 MA's), (99, 31396), (168, 31612),

Gene: Ms6_62 Start: 37737, Stop: 38099, Start Num: 60

Candidate Starts for Ms6_62:

(Start: 60 @37737 has 218 MA's), (150, 38037), (153, 38040), (171, 38082),

Gene: MulchExplorer_73 Start: 44252, Stop: 44593, Start Num: 60

Candidate Starts for MulchExplorer_73:

(Start: 60 @44252 has 218 MA's), (150, 44552), (153, 44555),

Gene: Mutaforma13_71 Start: 45673, Stop: 46035, Start Num: 60

Candidate Starts for Mutaforma13_71:

(Start: 60 @45673 has 218 MA's), (150, 45973), (171, 46018),

Gene: Nebkiss_84 Start: 48920, Stop: 49243, Start Num: 65

Candidate Starts for Nebkiss_84:

(Start: 65 @48920 has 24 MA's), (85, 48983), (153, 49208), (154, 49211),

Gene: NewHope4_67 Start: 42465, Stop: 42914, Start Num: 60

Candidate Starts for NewHope4_67:

(33, 42387), (36, 42396), (46, 42429), (Start: 60 @42465 has 218 MA's), (150, 42765),

Gene: Nimbo_59 Start: 41301, Stop: 41663, Start Num: 60

Candidate Starts for Nimbo_59:

(28, 41196), (29, 41202), (42, 41256), (Start: 60 @41301 has 218 MA's), (Start: 73 @41334 has 1 MA's), (150, 41601), (153, 41604), (171, 41646),

Gene: Nitzel_62 Start: 41489, Stop: 41851, Start Num: 60

Candidate Starts for Nitzel_62:

(Start: 60 @41489 has 218 MA's), (150, 41789), (153, 41792), (171, 41834),

Gene: Nivrat_62 Start: 42093, Stop: 42455, Start Num: 60

Candidate Starts for Nivrat_62:

(25, 41976), (Start: 60 @42093 has 218 MA's), (111, 42252), (150, 42393), (171, 42438),

Gene: NormanBulbieJr_65 Start: 42386, Stop: 42748, Start Num: 60

Candidate Starts for NormanBulbieJr_65:

(Start: 60 @42386 has 218 MA's), (117, 42560), (150, 42686), (171, 42731),

Gene: ObLaDi_106 Start: 60168, Stop: 60557, Start Num: 72

Candidate Starts for ObLaDi_106:

(6, 59793), (12, 59892), (Start: 72 @60168 has 4 MA's), (82, 60201), (89, 60222), (130, 60369), (140, 60399), (146, 60423),

Gene: Ochi17_69 Start: 44769, Stop: 45131, Start Num: 60

Candidate Starts for Ochi17_69:

(Start: 60 @44769 has 218 MA's), (126, 44973), (150, 45069), (171, 45114),

Gene: Octobien14_72 Start: 45181, Stop: 45522, Start Num: 58

Candidate Starts for Octobien14_72:

(Start: 58 @45181 has 1 MA's), (93, 45283), (113, 45337), (135, 45421),

Gene: OfUltron_71 Start: 45318, Stop: 45680, Start Num: 60

Candidate Starts for OfUltron_71:

(Start: 60 @45318 has 218 MA's), (126, 45522), (150, 45618), (171, 45663),

Gene: Ogopogo_71 Start: 42797, Stop: 43153, Start Num: 60

Candidate Starts for Ogopogo_71:

(27, 42686), (Start: 60 @42797 has 218 MA's), (150, 43097), (153, 43100),

Gene: OldBen_63 Start: 42694, Stop: 43056, Start Num: 60

Candidate Starts for OldBen_63:

(28, 42589), (29, 42595), (42, 42649), (Start: 60 @42694 has 218 MA's), (Start: 73 @42727 has 1 MA's), (150, 42994), (153, 42997), (171, 43039),

Gene: OlympiaSaint_67 Start: 42685, Stop: 43047, Start Num: 60

Candidate Starts for OlympiaSaint_67:

(Start: 60 @42685 has 218 MA's), (111, 42844), (150, 42985), (153, 42988), (171, 43030),

Gene: Oppalora_29 Start: 20837, Stop: 20517, Start Num: 70

Candidate Starts for Oppalora_29:

(2, 21272), (9, 21122), (Start: 35 @20927 has 1 MA's), (Start: 56 @20870 has 1 MA's), (Start: 70 @20837 has 1 MA's), (97, 20741),

Gene: Optimus_113 Start: 65945, Stop: 66277, Start Num: 65

Candidate Starts for Optimus_113:

(Start: 65 @65945 has 24 MA's), (87, 66014), (118, 66104), (120, 66107), (136, 66173),

Gene: Ovechkin_65 Start: 42688, Stop: 43050, Start Num: 60

Candidate Starts for Ovechkin_65:

(Start: 60 @42688 has 218 MA's), (150, 42988), (153, 42991), (171, 43033),

Gene: OwlsT2W_65 Start: 42020, Stop: 42376, Start Num: 60

Candidate Starts for OwlsT2W_65:

(Start: 60 @42020 has 218 MA's), (111, 42179), (150, 42320),

Gene: PHappiness_61 Start: 41273, Stop: 41629, Start Num: 60

Candidate Starts for PHappiness_61:

(28, 41168), (29, 41174), (42, 41228), (Start: 60 @41273 has 218 MA's), (Start: 73 @41306 has 1 MA's), (126, 41477), (150, 41573), (153, 41576),

Gene: PMC_62 Start: 42410, Stop: 42766, Start Num: 60

Candidate Starts for PMC_62:

(Start: 60 @42410 has 218 MA's), (150, 42710), (153, 42713),

Gene: PR_52 Start: 44447, Stop: 44788, Start Num: 59

Candidate Starts for PR_52:

(Start: 59 @44447 has 8 MA's), (80, 44501), (85, 44516), (91, 44534), (114, 44600), (120, 44618), (131, 44672), (145, 44717), (150, 44738), (158, 44762), (161, 44765),

Gene: Pacc40_59 Start: 40742, Stop: 41104, Start Num: 60

Candidate Starts for Pacc40_59:

(25, 40625), (Start: 60 @40742 has 218 MA's), (111, 40901), (150, 41042), (171, 41087),

Gene: Phabuloso_75 Start: 43819, Stop: 44166, Start Num: 66

Candidate Starts for Phabuloso_75:

(30, 43705), (51, 43795), (Start: 66 @43819 has 3 MA's), (Start: 73 @43840 has 1 MA's), (79, 43858), (80, 43867), (102, 43942), (114, 43975), (120, 43993), (133, 44056), (136, 44059), (144, 44089), (153, 44119), (166, 44146), (171, 44158),

Gene: Phalconet_63 Start: 40623, Stop: 40985, Start Num: 60

Candidate Starts for Phalconet_63:

(Start: 60 @40623 has 218 MA's), (150, 40923), (153, 40926), (171, 40968),

Gene: Phanphagia_61 Start: 42234, Stop: 42596, Start Num: 60

Candidate Starts for Phanphagia_61:

(Start: 60 @42234 has 218 MA's), (150, 42534), (153, 42537), (171, 42579),

Gene: Phatniss_63 Start: 41806, Stop: 42168, Start Num: 60

Candidate Starts for Phatniss_63:

(Start: 60 @41806 has 218 MA's), (111, 41965), (150, 42106), (153, 42109), (171, 42151),

Gene: PhesterPhotato_65 Start: 41443, Stop: 41799, Start Num: 60

Candidate Starts for PhesterPhotato_65:

(Start: 60 @41443 has 218 MA's), (111, 41602), (150, 41743), (153, 41746),

Gene: Philus_69 Start: 43883, Stop: 44239, Start Num: 60

Candidate Starts for Philus_69:

(25, 43766), (Start: 60 @43883 has 218 MA's), (117, 44057), (150, 44183), (153, 44186), (171, 44222),

Gene: PhlipPhlop_65 Start: 44108, Stop: 44470, Start Num: 60

Candidate Starts for PhlipPhlop_65:

(25, 43991), (Start: 60 @44108 has 218 MA's), (76, 44150), (111, 44267), (150, 44408), (153, 44411), (171, 44453),

Gene: Pippy_64 Start: 41724, Stop: 42086, Start Num: 60

Candidate Starts for Pippy_64:

(Start: 60 @41724 has 218 MA's), (111, 41883), (117, 41898), (150, 42024), (171, 42069),

Gene: Pitbull_53 Start: 29779, Stop: 30105, Start Num: 69

Candidate Starts for Pitbull_53:

(32, 29674), (Start: 69 @29779 has 5 MA's), (99, 29884), (138, 30016),

Gene: Plumbus_68 Start: 42573, Stop: 42935, Start Num: 60

Candidate Starts for Plumbus_68:

(Start: 60 @42573 has 218 MA's), (150, 42873), (153, 42876), (171, 42918),

Gene: Poenanya_65 Start: 43033, Stop: 43326, Start Num: 84

Candidate Starts for Poenanya_65:

(Start: 84 @43033 has 6 MA's), (88, 43045), (90, 43051), (100, 43087), (111, 43123), (150, 43264), (153, 43267), (171, 43309),

Gene: Poise_69 Start: 39121, Stop: 39474, Start Num: 55

Candidate Starts for Poise_69:

(Start: 55 @39121 has 18 MA's), (68, 39148), (109, 39283), (123, 39313), (132, 39364), (135, 39370), (140, 39385), (146, 39403), (152, 39427), (154, 39430),

Gene: Polka14_64 Start: 42337, Stop: 42693, Start Num: 60

Candidate Starts for Polka14_64:

(28, 42232), (29, 42238), (42, 42292), (Start: 60 @42337 has 218 MA's), (Start: 73 @42370 has 1 MA's), (126, 42541), (150, 42637), (153, 42640),

Gene: Pollywog_66 Start: 43003, Stop: 43359, Start Num: 60

Candidate Starts for Pollywog_66:

(Start: 60 @43003 has 218 MA's), (111, 43162), (150, 43303), (153, 43306),

Gene: Polo2Bam_72 Start: 42241, Stop: 42768, Start Num: 33

Candidate Starts for Polo2Bam_72:

(33, 42241), (36, 42250), (46, 42283), (Start: 60 @42319 has 218 MA's), (150, 42619),

Gene: PopTart_59 Start: 40248, Stop: 40610, Start Num: 60

Candidate Starts for PopTart_59:

(Start: 60 @40248 has 218 MA's), (150, 40548), (153, 40551), (171, 40593),

Gene: Pound_112 Start: 66568, Stop: 66897, Start Num: 65

Candidate Starts for Pound_112:

(Start: 65 @66568 has 24 MA's), (87, 66637), (136, 66796), (164, 66880),

Gene: Pringar_68 Start: 39443, Stop: 39796, Start Num: 55

Candidate Starts for Pringar_68:

(Start: 55 @39443 has 18 MA's), (68, 39470), (109, 39605), (123, 39635), (132, 39686), (135, 39692), (140, 39707), (146, 39725), (152, 39749), (154, 39752),

Gene: Priscilla_65 Start: 42485, Stop: 42847, Start Num: 60

Candidate Starts for Priscilla_65:

(Start: 60 @42485 has 218 MA's), (117, 42659), (150, 42785), (171, 42830),

Gene: QuickMath_69 Start: 44476, Stop: 44817, Start Num: 60

Candidate Starts for QuickMath_69:

(Start: 60 @44476 has 218 MA's), (150, 44776), (153, 44779),

Gene: Quico_73 Start: 43794, Stop: 44156, Start Num: 60

Candidate Starts for Quico_73:

(Start: 60 @43794 has 218 MA's), (150, 44094), (153, 44097), (171, 44139),

Gene: Radiance_64 Start: 41901, Stop: 42263, Start Num: 60

Candidate Starts for Radiance_64:

(Start: 60 @41901 has 218 MA's), (111, 42060), (150, 42201), (153, 42204), (171, 42246),

Gene: Raela_69 Start: 39678, Stop: 40031, Start Num: 55

Candidate Starts for Raela_69:

(Start: 55 @39678 has 18 MA's), (68, 39705), (109, 39840), (123, 39870), (132, 39921), (135, 39927), (140, 39942), (146, 39960), (152, 39984), (154, 39987),

Gene: Ramsey_64 Start: 42214, Stop: 42576, Start Num: 60

Candidate Starts for Ramsey_64:

(Start: 60 @42214 has 218 MA's), (111, 42373), (150, 42514), (171, 42559),

Gene: Rattail_30 Start: 20919, Stop: 20599, Start Num: 70

Candidate Starts for Rattail_30:

(2, 21354), (9, 21204), (Start: 35 @21009 has 1 MA's), (Start: 56 @20952 has 1 MA's), (Start: 70 @20919 has 1 MA's), (97, 20823),

Gene: RedBird_64 Start: 42140, Stop: 42502, Start Num: 60

Candidate Starts for RedBird_64:

(28, 42035), (29, 42041), (42, 42095), (Start: 60 @42140 has 218 MA's), (Start: 73 @42173 has 1 MA's), (126, 42344), (150, 42440), (153, 42443), (171, 42485),

Gene: RedRaider77_68 Start: 39066, Stop: 39419, Start Num: 55

Candidate Starts for RedRaider77_68:

(Start: 55 @39066 has 18 MA's), (68, 39093), (109, 39228), (123, 39258), (132, 39309), (135, 39315), (140, 39330), (146, 39348), (152, 39372), (154, 39375),

Gene: Redno2_116 Start: 66004, Stop: 66333, Start Num: 65

Candidate Starts for Redno2_116:

(Start: 65 @66004 has 24 MA's), (87, 66073), (118, 66163), (120, 66166), (136, 66232), (164, 66316),

Gene: Renaud18_75 Start: 44207, Stop: 44563, Start Num: 60

Candidate Starts for Renaud18_75:

(Start: 60 @44207 has 218 MA's), (111, 44366), (150, 44507),

Gene: Rialto_70 Start: 44435, Stop: 44797, Start Num: 60

Candidate Starts for Rialto_70:

(Start: 60 @44435 has 218 MA's), (150, 44735), (153, 44738), (171, 44780),

Gene: Rita_66 Start: 40513, Stop: 40875, Start Num: 60

Candidate Starts for Rita_66:

(Start: 60 @40513 has 218 MA's), (111, 40672), (150, 40813), (171, 40858),

Gene: RitaG_61 Start: 41618, Stop: 41974, Start Num: 60

Candidate Starts for RitaG_61:

(28, 41513), (29, 41519), (42, 41573), (Start: 60 @41618 has 218 MA's), (Start: 73 @41651 has 1 MA's), (126, 41822), (150, 41918), (153, 41921),

Gene: Rockne_66 Start: 42422, Stop: 42778, Start Num: 60
Candidate Starts for Rockne_66:
(Start: 60 @42422 has 218 MA's), (150, 42722), (153, 42725),

Gene: RockyHorror_66 Start: 41564, Stop: 41926, Start Num: 60
Candidate Starts for RockyHorror_66:
(Start: 60 @41564 has 218 MA's), (150, 41864), (171, 41909),

Gene: Royals2015_68 Start: 42421, Stop: 42777, Start Num: 60
Candidate Starts for Royals2015_68:
(Start: 60 @42421 has 218 MA's), (76, 42463), (111, 42580), (150, 42721),

Gene: Ruby_61 Start: 41693, Stop: 42055, Start Num: 60
Candidate Starts for Ruby_61:
(Start: 60 @41693 has 218 MA's), (150, 41993), (171, 42038),

Gene: SG4_62 Start: 41300, Stop: 41665, Start Num: 60
Candidate Starts for SG4_62:
(Start: 60 @41300 has 218 MA's), (150, 41600),

Gene: Saal_67 Start: 43437, Stop: 43799, Start Num: 60
Candidate Starts for Saal_67:
(Start: 60 @43437 has 218 MA's), (111, 43596), (150, 43737), (153, 43740), (171, 43782),

Gene: Sandalphon_66 Start: 42944, Stop: 43306, Start Num: 60
Candidate Starts for Sandalphon_66:
(25, 42827), (Start: 60 @42944 has 218 MA's), (111, 43103), (150, 43244), (171, 43289),

Gene: Sarma624_64 Start: 39148, Stop: 39510, Start Num: 60
Candidate Starts for Sarma624_64:
(Start: 60 @39148 has 218 MA's), (111, 39307), (126, 39352), (150, 39448), (153, 39451), (171, 39493),

Gene: Sassafras_64 Start: 42458, Stop: 42820, Start Num: 60
Candidate Starts for Sassafras_64:
(28, 42353), (29, 42359), (42, 42413), (Start: 60 @42458 has 218 MA's), (Start: 73 @42491 has 1 MA's), (126, 42662), (150, 42758), (153, 42761), (171, 42803),

Gene: SassyB_59 Start: 40248, Stop: 40610, Start Num: 60
Candidate Starts for SassyB_59:
(Start: 60 @40248 has 218 MA's), (150, 40548), (153, 40551), (171, 40593),

Gene: Schmidt_45 Start: 30353, Stop: 30685, Start Num: 62
Candidate Starts for Schmidt_45:
(22, 30221), (31, 30251), (40, 30290), (Start: 62 @30353 has 10 MA's), (75, 30386), (102, 30476), (120, 30527), (149, 30644), (153, 30650), (157, 30671),

Gene: Scottish_64 Start: 42414, Stop: 42776, Start Num: 60
Candidate Starts for Scottish_64:

(28, 42309), (29, 42315), (42, 42369), (Start: 60 @42414 has 218 MA's), (Start: 73 @42447 has 1 MA's), (150, 42714), (153, 42717), (171, 42759),

Gene: Seabastian_71 Start: 45319, Stop: 45681, Start Num: 60
Candidate Starts for Seabastian_71:
(Start: 60 @45319 has 218 MA's), (126, 45523), (150, 45619), (171, 45664),

Gene: Seagreen_64 Start: 41603, Stop: 41965, Start Num: 60
Candidate Starts for Seagreen_64:
(Start: 60 @41603 has 218 MA's), (150, 41903), (153, 41906), (171, 41948),

Gene: Sephiroth_73 Start: 45931, Stop: 46353, Start Num: 34
Candidate Starts for Sephiroth_73:
(Start: 34 @45931 has 2 MA's), (135, 46252),

Gene: Shauna1_63 Start: 42143, Stop: 42505, Start Num: 60
Candidate Starts for Shauna1_63:
(Start: 60 @42143 has 218 MA's), (150, 42443), (153, 42446), (171, 42488),

Gene: ShiLan_64 Start: 42432, Stop: 42788, Start Num: 60
Candidate Starts for ShiLan_64:
(Start: 60 @42432 has 218 MA's), (111, 42591), (150, 42732), (153, 42735),

Gene: ShowerHandel_68 Start: 42396, Stop: 42758, Start Num: 60
Candidate Starts for ShowerHandel_68:
(Start: 60 @42396 has 218 MA's), (111, 42555), (117, 42570), (150, 42696), (171, 42741),

Gene: SiSi_63 Start: 41202, Stop: 41558, Start Num: 60
Candidate Starts for SiSi_63:
(Start: 60 @41202 has 218 MA's), (150, 41502), (153, 41505),

Gene: SilverChicken_75 Start: 42112, Stop: 42474, Start Num: 60
Candidate Starts for SilverChicken_75:
(Start: 60 @42112 has 218 MA's), (126, 42316), (150, 42412), (153, 42415), (171, 42457),

Gene: Skitty_47 Start: 29133, Stop: 29486, Start Num: 69
Candidate Starts for Skitty_47:
(Start: 69 @29133 has 5 MA's), (99, 29238), (168, 29454),

Gene: Slim_67 Start: 43053, Stop: 43415, Start Num: 60
Candidate Starts for Slim_67:
(Start: 60 @43053 has 218 MA's), (150, 43353), (153, 43356), (171, 43398),

Gene: Soul22_71 Start: 43477, Stop: 43839, Start Num: 60
Candidate Starts for Soul22_71:
(Start: 60 @43477 has 218 MA's), (111, 43636), (150, 43777), (153, 43780), (171, 43822),

Gene: Sparkdehlily_72 Start: 43335, Stop: 43628, Start Num: 84
Candidate Starts for Sparkdehlily_72:
(Start: 84 @43335 has 6 MA's), (90, 43353), (100, 43389), (103, 43395), (105, 43413), (121, 43449), (134, 43509), (151, 43566), (153, 43569), (171, 43611),

Gene: Spartacus_67 Start: 42463, Stop: 42825, Start Num: 60

Candidate Starts for Spartacus_67:

(Start: 60 @42463 has 218 MA's), (150, 42763), (153, 42766), (171, 42808),

Gene: Spikelee_72 Start: 44062, Stop: 44424, Start Num: 60

Candidate Starts for Spikelee_72:

(Start: 60 @44062 has 218 MA's), (150, 44362), (171, 44407),

Gene: Splinter_51 Start: 33608, Stop: 33991, Start Num: 62

Candidate Starts for Splinter_51:

(Start: 62 @33608 has 10 MA's), (102, 33731), (154, 33914), (173, 33956),

Gene: Spoonbill_63 Start: 41578, Stop: 41934, Start Num: 60

Candidate Starts for Spoonbill_63:

(28, 41473), (29, 41479), (42, 41533), (Start: 60 @41578 has 218 MA's), (Start: 73 @41611 has 1 MA's), (126, 41782), (150, 41878), (153, 41881),

Gene: Squint_116 Start: 64970, Stop: 65290, Start Num: 65

Candidate Starts for Squint_116:

(Start: 65 @64970 has 24 MA's), (87, 65039), (102, 65081), (136, 65198),

Gene: Squirty_67 Start: 43396, Stop: 43758, Start Num: 60

Candidate Starts for Squirty_67:

(Start: 60 @43396 has 218 MA's), (Start: 73 @43429 has 1 MA's), (126, 43600), (150, 43696), (153, 43699), (171, 43741),

Gene: StAnnes_63 Start: 42321, Stop: 42683, Start Num: 60

Candidate Starts for StAnnes_63:

(Start: 60 @42321 has 218 MA's), (150, 42621), (153, 42624), (171, 42666),

Gene: Stap_63 Start: 42347, Stop: 42709, Start Num: 60

Candidate Starts for Stap_63:

(28, 42242), (29, 42248), (42, 42302), (Start: 60 @42347 has 218 MA's), (Start: 73 @42380 has 1 MA's), (111, 42506), (150, 42647), (153, 42650), (171, 42692),

Gene: Starcevich_65 Start: 41944, Stop: 42300, Start Num: 60

Candidate Starts for Starcevich_65:

(Start: 60 @41944 has 218 MA's), (150, 42244), (153, 42247),

Gene: Strokeseat_61 Start: 39911, Stop: 40273, Start Num: 60

Candidate Starts for Strokeseat_61:

(Start: 60 @39911 has 218 MA's), (150, 40211), (153, 40214), (171, 40256),

Gene: SuperGrey_69 Start: 44472, Stop: 44828, Start Num: 60

Candidate Starts for SuperGrey_69:

(Start: 60 @44472 has 218 MA's), (111, 44631), (150, 44772), (153, 44775), (171, 44811),

Gene: Superphikiman_115 Start: 64061, Stop: 64381, Start Num: 65

Candidate Starts for Superphikiman_115:

(Start: 65 @64061 has 24 MA's), (87, 64130), (102, 64172), (136, 64289),

Gene: SwagPigglett_70 Start: 44704, Stop: 45066, Start Num: 60

Candidate Starts for SwagPigglett_70:

(25, 44587), (Start: 60 @44704 has 218 MA's), (111, 44863), (150, 45004), (171, 45049),

Gene: Sweetums_58 Start: 33367, Stop: 33756, Start Num: 61
Candidate Starts for Sweetums_58:
(Start: 61 @33367 has 4 MA's), (99, 33493), (129, 33601), (170, 33721),

Gene: Syleon_75 Start: 45869, Stop: 46291, Start Num: 34
Candidate Starts for Syleon_75:
(Start: 34 @45869 has 2 MA's), (37, 45875), (135, 46190),

Gene: TChen_67 Start: 44519, Stop: 44881, Start Num: 60
Candidate Starts for TChen_67:
(Start: 60 @44519 has 218 MA's), (150, 44819), (153, 44822), (171, 44864),

Gene: TDanisky_72 Start: 43265, Stop: 43606, Start Num: 60
Candidate Starts for TDanisky_72:
(Start: 60 @43265 has 218 MA's), (111, 43424),

Gene: TZGordon_53 Start: 32954, Stop: 33337, Start Num: 62
Candidate Starts for TZGordon_53:
(Start: 62 @32954 has 10 MA's), (102, 33077), (154, 33260), (173, 33302),

Gene: Taj_70 Start: 44021, Stop: 44383, Start Num: 60
Candidate Starts for Taj_70:
(48, 44006), (Start: 60 @44021 has 218 MA's), (150, 44321), (153, 44324), (171, 44366),

Gene: Taptic_52 Start: 43843, Stop: 44184, Start Num: 59
Candidate Starts for Taptic_52:
(Start: 59 @43843 has 8 MA's), (80, 43897), (85, 43912), (91, 43930), (114, 43996), (120, 44014),
(131, 44068), (145, 44113), (150, 44134), (158, 44158), (161, 44161),

Gene: Tchotchke_64 Start: 41928, Stop: 42290, Start Num: 60
Candidate Starts for Tchotchke_64:
(Start: 60 @41928 has 218 MA's), (111, 42087), (150, 42228), (153, 42231), (171, 42273),

Gene: Teng_62 Start: 33271, Stop: 33660, Start Num: 61
Candidate Starts for Teng_62:
(13, 33037), (Start: 61 @33271 has 4 MA's), (99, 33397), (119, 33460), (129, 33505), (167, 33622),
(170, 33625),

Gene: Tesla_66 Start: 38915, Stop: 39268, Start Num: 55
Candidate Starts for Tesla_66:
(Start: 55 @38915 has 18 MA's), (68, 38942), (109, 39077), (123, 39107), (132, 39158), (135, 39164),
(140, 39179), (146, 39197), (152, 39221), (154, 39224),

Gene: ThetaBob_73 Start: 44248, Stop: 44604, Start Num: 60
Candidate Starts for ThetaBob_73:
(27, 44137), (Start: 60 @44248 has 218 MA's), (150, 44548), (153, 44551),

Gene: ThreeRngTarjay_118 Start: 68893, Stop: 69225, Start Num: 65
Candidate Starts for ThreeRngTarjay_118:
(Start: 65 @68893 has 24 MA's), (87, 68962), (136, 69121),

Gene: TinaLin_50 Start: 32410, Stop: 32790, Start Num: 62

Candidate Starts for TinaLin_50:

(Start: 62 @32410 has 10 MA's), (83, 32473), (102, 32533), (136, 32650), (146, 32689), (154, 32716), (173, 32758),

Gene: Tonitrus_70 Start: 51892, Stop: 52272, Start Num: 39

Candidate Starts for Tonitrus_70:

(Start: 39 @51892 has 1 MA's), (95, 52051), (98, 52063), (124, 52135),

Gene: Topiatin_72 Start: 44952, Stop: 45314, Start Num: 60

Candidate Starts for Topiatin_72:

(25, 44835), (Start: 60 @44952 has 218 MA's), (111, 45111), (150, 45252), (153, 45255), (171, 45297),

Gene: Totinger_65 Start: 41519, Stop: 41875, Start Num: 60

Candidate Starts for Totinger_65:

(Start: 60 @41519 has 218 MA's), (111, 41678), (150, 41819), (153, 41822), (171, 41858),

Gene: Tweety_65 Start: 43115, Stop: 43471, Start Num: 60

Candidate Starts for Tweety_65:

(Start: 60 @43115 has 218 MA's), (111, 43274), (117, 43289), (150, 43415), (153, 43418), (171, 43454),

Gene: Typha_64 Start: 45161, Stop: 45511, Start Num: 57

Candidate Starts for Typha_64:

(Start: 35 @45089 has 1 MA's), (43, 45119), (Start: 57 @45161 has 5 MA's), (64, 45176), (Start: 72 @45194 has 4 MA's), (86, 45242), (89, 45248), (97, 45284), (126, 45368), (127, 45374), (132, 45404), (144, 45437),

Gene: UncleRicky_64 Start: 42054, Stop: 42416, Start Num: 60

Candidate Starts for UncleRicky_64:

(Start: 60 @42054 has 218 MA's), (111, 42213), (150, 42354), (153, 42357), (171, 42399),

Gene: VRedHorse_65 Start: 41397, Stop: 41759, Start Num: 60

Candidate Starts for VRedHorse_65:

(Start: 60 @41397 has 218 MA's), (Start: 73 @41430 has 1 MA's), (111, 41556), (150, 41697), (153, 41700), (171, 41742),

Gene: VanLee_116 Start: 60612, Stop: 60974, Start Num: 74

Candidate Starts for VanLee_116:

(Start: 74 @60612 has 1 MA's), (146, 60858), (159, 60903), (167, 60918), (172, 60927), (176, 60942),

Gene: VasuNzinga_68 Start: 39017, Stop: 39370, Start Num: 55

Candidate Starts for VasuNzinga_68:

(Start: 55 @39017 has 18 MA's), (68, 39044), (109, 39179), (123, 39209), (132, 39260), (135, 39266), (140, 39281), (146, 39299), (152, 39323), (154, 39326),

Gene: Velveteen_61 Start: 39148, Stop: 39510, Start Num: 60

Candidate Starts for Velveteen_61:

(Start: 60 @39148 has 218 MA's), (111, 39307), (126, 39352), (150, 39448), (153, 39451), (171, 39493),

Gene: Vendetta_51 Start: 33608, Stop: 33991, Start Num: 62

Candidate Starts for Vendetta_51:

(Start: 62 @33608 has 10 MA's), (102, 33731), (154, 33914), (173, 33956),

Gene: Veteran_62 Start: 40798, Stop: 41154, Start Num: 60

Candidate Starts for Veteran_62:

(Start: 60 @40798 has 218 MA's), (126, 41002), (150, 41098), (153, 41101), (171, 41137),

Gene: Violac_66 Start: 42928, Stop: 43290, Start Num: 60

Candidate Starts for Violac_66:

(Start: 60 @42928 has 218 MA's), (111, 43087), (117, 43102), (150, 43228), (171, 43273),

Gene: Vivum_68 Start: 42717, Stop: 43079, Start Num: 60

Candidate Starts for Vivum_68:

(25, 42600), (Start: 60 @42717 has 218 MA's), (76, 42759), (111, 42876), (150, 43017), (153, 43020), (171, 43062),

Gene: Wachhund_66 Start: 42028, Stop: 42390, Start Num: 60

Candidate Starts for Wachhund_66:

(Start: 60 @42028 has 218 MA's), (150, 42328), (171, 42373),

Gene: Wanda_122 Start: 66271, Stop: 66600, Start Num: 65

Candidate Starts for Wanda_122:

(Start: 65 @66271 has 24 MA's), (87, 66340), (94, 66358), (118, 66430), (120, 66433), (136, 66499), (164, 66583),

Gene: Wee_70 Start: 44097, Stop: 44459, Start Num: 60

Candidate Starts for Wee_70:

(48, 44082), (Start: 60 @44097 has 218 MA's), (150, 44397), (153, 44400), (171, 44442),

Gene: Weirido19_91 Start: 53190, Stop: 53612, Start Num: 23

Candidate Starts for Weirido19_91:

(23, 53190), (Start: 67 @53316 has 1 MA's), (108, 53445), (128, 53508), (142, 53550), (160, 53604),

Gene: Whatsapiecost_65 Start: 41324, Stop: 41686, Start Num: 60

Candidate Starts for Whatsapiecost_65:

(Start: 60 @41324 has 218 MA's), (Start: 73 @41357 has 1 MA's), (150, 41624), (153, 41627), (171, 41669),

Gene: Whouxphf_62 Start: 42311, Stop: 42673, Start Num: 60

Candidate Starts for Whouxphf_62:

(Start: 60 @42311 has 218 MA's), (150, 42611), (171, 42656),

Gene: WillSterrel_66 Start: 43580, Stop: 43942, Start Num: 60

Candidate Starts for WillSterrel_66:

(Start: 60 @43580 has 218 MA's), (150, 43880), (153, 43883), (171, 43925),

Gene: Wrackline_71 Start: 37367, Stop: 37759, Start Num: 61

Candidate Starts for Wrackline_71:

(3, 36971), (7, 37061), (14, 37163), (17, 37205), (Start: 61 @37367 has 4 MA's), (77, 37394), (99, 37475), (104, 37502), (129, 37583), (137, 37619), (141, 37640), (165, 37712), (170, 37721),

Gene: XFactor_63 Start: 40832, Stop: 41194, Start Num: 60

Candidate Starts for XFactor_63:

(Start: 60 @40832 has 218 MA's), (150, 41132), (171, 41177),

Gene: Yorick_64 Start: 42551, Stop: 42913, Start Num: 60
Candidate Starts for Yorick_64:
(Start: 60 @42551 has 218 MA's), (111, 42710), (150, 42851), (171, 42896),

Gene: Yoshi_81 Start: 44512, Stop: 44874, Start Num: 60
Candidate Starts for Yoshi_81:
(26, 44401), (Start: 60 @44512 has 218 MA's), (150, 44812), (153, 44815), (171, 44857),

Gene: Zapner_79 Start: 44176, Stop: 44517, Start Num: 60
Candidate Starts for Zapner_79:
(48, 44161), (Start: 60 @44176 has 218 MA's), (150, 44476), (153, 44479),

Gene: Zelink_117 Start: 68840, Stop: 69172, Start Num: 65
Candidate Starts for Zelink_117:
(Start: 65 @68840 has 24 MA's), (87, 68909), (136, 69068),

Gene: Zerg_65 Start: 41676, Stop: 42038, Start Num: 60
Candidate Starts for Zerg_65:
(Start: 60 @41676 has 218 MA's), (150, 41976), (171, 42021),

Gene: Zizzle_69 Start: 44029, Stop: 44391, Start Num: 60
Candidate Starts for Zizzle_69:
(Start: 60 @44029 has 218 MA's), (111, 44188), (117, 44203), (150, 44329), (171, 44374),