





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 181971 Report

This analysis was run 11/02/24 on database version 579.

Pham number 181971 has 230 members, 8 are drafts.

Phages represented in each track:

- Track 1 : OlympiaSaint_57, Cabrinians_56, Burwell21_53, Jarcob_55, Koella_49, FreddyB_56, Martik_55, Lizziana_61, ShowerHandel_58, Gorge_59, NormanBulbieJr_55, Priscilla_55, LastJedi_49, Brocalys_50, ShiLan_54, Saal_57, Pippy_53, Clifton_50, Yorick_54, Crumble_50
- Track 2 : Fancypants_57, Whouxphf_52, LunaBlu_57, Galactic_54
- Track 3 : MisterCuddles_53, Girr_53, Ruby_51
- Track 4 : Quico_64, Girafales_65, Florinda_67
- Track 5 : GUmbe_53, BuzzLyseyear_61
- Track 6 : Philus_58, DRBy19_58, ByChance_47
- Track 7 : XFactor_53
- Track 8 : Poenanya_55, Doomphist_55
- Track 9 : Nimbo_49, Scottish_53, PHappiness_50, JoeyJr_50, Leperchaun_47, Deb65_50, Daenerys_49, Geralt_50, RitaG_50, KingMidas_54, Empress_53, Pacc40_49, Polka14_53
- Track 10 : SiSi_53, Mantra_51, Plumbus_57
- Track 11 : Gandolph_58, Mahavrat_53
- Track 12 : Bubbles123_52
- Track 13 : Seabastian_60, Jinglebell_60, Constella_110, OfUltron_60, Ochi17_58, SimranZ1_55, Llama_60, AlpineSix_60, Ogotogo_60, Modragons_59, Oksu_59
- Track 14 : Bipolar_54, GigiOuiOui_51
- Track 15 : Phatniss_53, Llij_51, Chuckly_58, Drago_53, DirtMcgirt_54, BobaPhett_59, MadMen_53, UncleRicky_54, Rita_56, Lorde_55
- Track 16 : RockyHorror_55, Zerg_54
- Track 17 : MilanaBonita_46, Akhila_47
- Track 18 : IrishSherpFalk_56, Spartacus_57, Melissau88_53, JalFarm20_67, WillSterrel_56, Wachhund_57, CaptainTrips_52, Flathead_55, MinionDave_54, Ms6_50, Hegedechwinu_55, SG4_52, StAnnes_54, MilleniumForce_59, Enby_56, Spikelee_62
- Track 19 : Phanphagia_53, Shauna1_54, Sassafras_53, Donkeykong_59, Inventum_50
- Track 20 : Alexphander_59, Stap_53
- Track 21 : Ardmore_47, Filuzino_53
- Track 22 : Hades_56, Harley_57
- Track 23 : Pollywog_56
- Track 24 : Job42_57
- Track 25 : LilMoolah_53, SwagPiggett_60, Zizzle_59, Mattes_59, Nivrat_51
- Track 26 : Latretium_57, Juniper1_53

- Track 27 : Phasih_53
- Track 28 : Sarma624_53, BigPhil_51, Kingsley_52, Velveteen_50, Coco12_54, Cerasum_51, Seagreen_55
- Track 29 : lbhubesi_55
- Track 30 : Strokeseat_51, Hlubikazi_51, Mandlovu_51
- Track 31 : Karhdo_52
- Track 32 : Whatsapiecost_56
- Track 33 : Blexus_53
- Track 34 : ShroomBoi_57, Kersh_57
- Track 35 : Firehouse51_56, DeadP_61, Mutaforma13_59, Tweety_55, Taj_59, Wee_58, KristaRAM_58
- Track 36 : Cornucopia_57
- Track 37 : Estave1_58, Rockne_56, PMC_52, DillTech15_52, Fastidio_55, Boomer_60
- Track 38 : Sandalphon_56, Veteran_52, OldBen_52, DaWorst_56, Renaud18_60, Chevrolet_61, ArcusAngelus_58, Phalconet_53, Eradicator_48, lbOuu_56, Doug_57, PhesterPhotato_56
- Track 39 : Kimberlium_57, QuickMath_56, MulchExplorer_61
- Track 40 : Minnie_59
- Track 41 : Batiatus_53
- Track 42 : Dante_56
- Track 43 : PopTart_49, SassyB_49
- Track 44 : Mova_56
- Track 45 : Starcevich_54
- Track 46 : Spoonbill_52
- Track 47 : RedBird_52, Dorothy_52
- Track 48 : Leozinho_54
- Track 49 : Bobi_60, Moonbeam_53
- Track 50 : SuperGrey_59
- Track 51 : Beakin_56, Royals2015_57, Che9d_62, Yoshi_66
- Track 52 : Byougenkin_53
- Track 53 : Mozy_64
- Track 54 : Fruitloop_52, DLane_50
- Track 55 : OwlsT2W_55
- Track 56 : Nitzel_51
- Track 57 : DosHalletts_57
- Track 58 : Radiance_54, BodEinwohner17_55
- Track 59 : Sparkdehlily_63, TDanisky_63, Hamulus_56
- Track 60 : Aubs_56
- Track 61 : Kenuha5_52
- Track 62 : BlueCrab_54
- Track 63 : Maravista_56
- Track 64 : Sabbb_59
- Track 65 : Krakatau_52
- Track 66 : James_59
- Track 67 : Juice456_56
- Track 68 : IMpilo_51
- Track 69 : DaddyRickover_54
- Track 70 : Madiba_53, LittleShirley_54, Totinger_54
- Track 71 : VRedHorse_54
- Track 72 : Marker_56
- Track 73 : Tootsieroll_56, Ramsey_55
- Track 74 : Eish_59

- Track 75 : Che8_58
- Track 76 : Ovechkin_54
- Track 77 : EleanorGeorge_54
- Track 78 : Rialto_60
- Track 79 : DotProduct_50
- Track 80 : Demsculpinboyz_64
- Track 81 : Jabbawokkie_69, Zapner_68, Blarby_67
- Track 82 : Soul22_59
- Track 83 : Avani_63
- Track 84 : Squirty_58
- Track 85 : TChen_55, LunaStella_53
- Track 86 : ThetaBob_58
- Track 87 : Cornie_49

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

The start number called the most often in the published annotations is 10, it was called in 222 of the 222 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Akhila_47, Alexphander_59, AlpineSix_60, ArcusAngelus_58, Ardmore_47, Aubs_56, Avani_63, Batiatus_53, Beakin_56, BigPhil_51, Bipolar_54, Blarby_67, Blexus_53, BlueCrab_54, BobaPhett_59, Bobi_60, BodEinwohner17_55, Boomer_60, Brocalys_50, Bubbles123_52, Burwell21_53, BuzzLyseyear_61, ByChance_47, Byougenkin_53, Cabrinians_56, CaptainTrips_52, Cerasum_51, Che8_58, Che9d_62, Chevrolet_61, Chuckly_58, Clifton_50, Coco12_54, Constella_110, Cornie_49, Cornucopia_57, Crumble_50, DLane_50, DRBy19_58, DaWorst_56, DaddyRickover_54, Daenerys_49, Dante_56, DeadP_61, Deb65_50, Demsculpinboyz_64, DillTech15_52, DirtMcgirt_54, Donkeykong_59, Doomphist_55, Dorothy_52, DosHalletts_57, DotProduct_50, Doug_57, Drago_53, Eish_59, EleanorGeorge_54, Empress_53, Enby_56, Eradicator_48, Estave1_58, Fancypants_57, Fastidio_55, Filuzino_53, Firehouse51_56, Flathead_55, Florinda_67, FreddyB_56, Fruitloop_52, GUmbie_53, Galactic_54, Gandalph_58, Geralt_50, GigiOuiOui_51, Girfales_65, Girr_53, Gorge_59, Hades_56, Hamulus_56, Harley_57, Hegedechwinu_55, Hlubikazi_51, IMpilo_51, IbOuu_56, Ibhubes_55, Inventum_50, IrishSherpFalk_56, Jabbawokkie_69, JalFarm20_67, James_59, Jarcob_55, Jinglebell_60, Job42_57, JoeyJr_50, Juice456_56, Juniper1_53, Karhdo_52, Kenuha5_52, Kersh_57, Kimberlium_57, KingMidas_54, Kingsley_52, Koella_49, Krakatau_52, KristaRAM_58, LastJedi_49, Latretium_57, Leozinho_54, Leperchaun_47, LilMoolah_53, LittleShirley_54, Lizziana_61, Llama_60, Llij_51, Lorde_55, LunaBlu_57, LunaStella_53, MadMen_53, Madiba_53, Mahavrat_53, Mandlovu_51, Mantra_51, Maravista_56, Marker_56, Martik_55, Mattes_59, Melissauraen88_53, MilanaBonita_46, MilleniumForce_59, MinionDave_54, Minnie_59, MisterCuddles_53, Modragons_59, Moonbeam_53, Mova_56, Mozy_64, Ms6_50, MulchExplorer_61, Mutaforma13_59, Nimbo_49, Nitzel_51, Nivrat_51, NormanBulbieJr_55, Ochi17_58, OfUltron_60, Ogoopogo_60, Oksu_59, OldBen_52, OlympiaSaint_57, Ovechkin_54, OwlsT2W_55, PHappiness_50, PMC_52, Pacc40_49, Phalconet_53, Phanphagia_53, Phasih_53, Phatniss_53, PhesterPotato_56, Philus_58, Pippy_53, Plumbus_57, Poenanya_55, Polka14_53, Pollywog_56, PopTart_49, Priscilla_55, QuickMath_56, Quico_64,

Radiance_54, Ramsey_55, RedBird_52, Renaud18_60, Rialto_60, RitaG_50, Rita_56, Rockne_56, RockyHorror_55, Royals2015_57, Ruby_51, SG4_52, Saal_57, Sabbb_59, Sandalphon_56, Sarma624_53, Sassafras_53, SassyB_49, Scottish_53, Seabastian_60, Seagreen_55, Shauna1_54, ShiLan_54, ShowerHandel_58, ShroomBoi_57, SiSi_53, SimranZ1_55, Soul22_59, Sparkdehlily_63, Spartacus_57, Spikelee_62, Spoonbill_52, Squirty_58, StAnnes_54, Stap_53, Starceвич_54, Strokeseat_51, SuperGrey_59, SwagPiggett_60, TChen_55, TDanisky_63, Taj_59, ThetaBob_58, Tootsieroll_56, Totinger_54, Tweety_55, UncleRicky_54, VRedHorse_54, Velveteen_50, Veteran_52, Wachhund_57, Wee_58, Whatsapiecost_56, Whouxphf_52, WillSterrel_56, XFactor_53, Yorick_54, Yoshi_66, Zapner_68, Zerg_54, Zizzle_59,

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

-

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

-

Summary by start number:

Start 10:

- Found in 230 of 230 (100.0%) of genes in pham
- Manual Annotations of this start: 222 of 222
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Akhila_47 (F1), Alexphander_59 (F1), AlpineSix_60 (F1), ArcusAngelus_58 (F1), Ardmore_47 (F1), Aubs_56 (F1), Avani_63 (F2), Batiatus_53 (F1), Beakin_56 (F1), BigPhil_51 (F1), Bipolar_54 (F1), Blarby_67 (F), Blexus_53 (F1), BlueCrab_54 (F1), BobaPhett_59 (F1), Bobi_60 (F1), BodEinwohner17_55 (F1), Boomer_60 (F1), Brocalys_50 (F1), Bubbles123_52 (F1), Burwell21_53 (F1), BuzzLyseyear_61 (F1), ByChance_47 (F1), Byougenkin_53 (F1), Cabrinians_56 (F1), CaptainTrips_52 (F1), Cerasum_51 (F1), Che8_58 (F1), Che9d_62 (F2), Chevrolet_61 (F1), Chuckly_58 (F1), Clifton_50 (F1), Coco12_54 (F1), Constella_110 (J), Cornie_49 (F5), Cornucopia_57 (F1), Crumble_50 (F1), DLane_50 (F1), DRBy19_58 (F1), DaWorst_56 (F1), DaddyRickover_54 (F1), Daenerys_49 (F1), Dante_56 (F1), DeadP_61 (F1), Deb65_50 (F1), Demsculpinboyz_64 (F2), DillTech15_52 (F1), DirtMcgirt_54 (F1), Donkeykong_59 (F1), Doomphist_55 (F1), Dorothy_52 (F1), DosHalletts_57 (F1), DotProduct_50 (F1), Doug_57 (F1), Drago_53 (F1), Eish_59 (F1), EleanorGeorge_54 (F1), Empress_53 (F1), Enby_56 (F1), Eradicator_48 (F1), Estave1_58 (F1), Fancypants_57 (F1), Fastidio_55 (F1), Filuzino_53 (F1), Firehouse51_56 (F1), Flathead_55 (F1), Florinda_67 (F1), FreddyB_56 (F1), Fruitloop_52 (F1), GUmbie_53 (F1), Galactic_54 (F1), Gandolph_58 (F1), Geralt_50 (F1), GigiOuiOui_51 (F1), Girafales_65 (F1), Girr_53 (F1), Gorge_59 (F1), Hades_56 (F1), Hamulus_56 (F1), Harley_57 (F1), Hegedechwinu_55 (F1), Hlubikazi_51 (F1), IMpilo_51 (F1), IbOuu_56 (F1), Ibhuesi_55 (F1), Inventum_50 (F1), IrishSherpFalk_56 (F1), Jabbawokkie_69 (F2), JalFarm20_67 (F1), James_59 (F1), Jarcob_55 (F1), Jinglebell_60 (F1), Job42_57 (F1), JoeyJr_50 (F1), Juice456_56 (F1), Juniper1_53 (F1), Karhdo_52 (F1), Kenuha5_52 (F1), Kersh_57 (F1), Kimberlium_57 (F1), KingMidas_54 (F1), Kingsley_52 (F1), Koella_49 (F1), Krakatau_52 (F1), KristaRAM_58 (F1), LastJedi_49 (F1), Latretium_57 (F1), Leozinho_54 (F1), Leperchaun_47 (F1), LilMoolah_53 (F1), LittleShirley_54 (F1), Lizziana_61 (F1), Llama_60 (F1), Llij_51 (F1), Lorde_55 (F1), LunaBlu_57 (F1), LunaStella_53 (F4), MadMen_53 (F1), Madiba_53 (F1), Mahavrat_53 (F1), Mandlovu_51 (F1), Mantra_51 (F1),

Maravista_56 (F1), Marker_56 (F1), Martik_55 (F1), Mattes_59 (F1),
Melissauren88_53 (F1), MilanaBonita_46 (F1), MilleniumForce_59 (F1),
MinionDave_54 (F1), Minnie_59 (F1), MisterCuddles_53 (F1), Modragons_59 (F1),
Moonbeam_53 (F1), Mova_56 (F1), Mozy_64 (F1), Ms6_50 (F1), MulchExplorer_61
(F1), Mutaforma13_59 (F1), Nimbo_49 (F1), Nitzel_51 (F1), Nivrat_51 (F1),
NormanBulbieJr_55 (F1), Ochi17_58 (F1), OfUltron_60 (F1), Ogopogo_60 (F1),
Oksu_59 (F1), OldBen_52 (F1), OlympiaSaint_57 (F1), Ovechkin_54 (F1),
OwlsT2W_55 (F1), PHappiness_50 (F1), PMC_52 (F1), Pacc40_49 (F1),
Phalconet_53 (F1), Phanphagia_53 (F1), Phasih_53 (F1), Phatniss_53 (F1),
PhesterPhotato_56 (F1), Philus_58 (F1), Pippy_53 (F1), Plumbus_57 (F1),
Poenanya_55 (F1), Polka14_53 (F1), Pollywog_56 (F1), PopTart_49 (F1),
Priscilla_55 (F1), QuickMath_56 (F1), Quico_64 (F1), Radiance_54 (F1), Ramsey_55
(F1), RedBird_52 (F1), Renaud18_60 (F4), Rialto_60 (F1), RitaG_50 (F1), Rita_56
(F1), Rockne_56 (F1), RockyHorror_55 (F1), Royals2015_57 (F1), Ruby_51 (F1),
SG4_52 (F1), Saal_57 (F1), Sabbb_59 (F1), Sandalphon_56 (F1), Sarma624_53
(F1), Sassafras_53 (F1), SassyB_49 (F1), Scottish_53 (F1), Seabastian_60 (F1),
Seagreen_55 (F1), Shauna1_54 (F1), ShiLan_54 (F1), ShowerHandel_58 (F1),
ShroomBoi_57 (F1), SiSi_53 (F1), SimranZ1_55 (F1), Soul22_59 (F2),
Sparkdehlily_63 (F1), Spartacus_57 (F1), Spikelee_62 (F1), Spoonbill_52 (F1),
Squirty_58 (F3), StAnnes_54 (F1), Stap_53 (F1), Starceвич_54 (F1), Strokeseat_51
(F1), SuperGrey_59 (F1), SwagPiggett_60 (F1), TChen_55 (F4), TDanisky_63 (F1),
Taj_59 (F1), ThetaBob_58 (F4), Tootsieroll_56 (F1), Totinger_54 (F1), Tweety_55
(F1), UncleRicky_54 (F1), VRedHorse_54 (F1), Velveteen_50 (F1), Veteran_52 (F1),
Wachhund_57 (F1), Wee_58 (F1), Whatsapiecost_56 (F1), Whouxphf_52 (F1),
WillSterrel_56 (F1), XFactor_53 (F1), Yorick_54 (F1), Yoshi_66 (F2), Zapner_68 (F2),
Zerg_54 (F1), Zizzle_59 (F1),

Summary by clusters:

There are 7 clusters represented in this pham: F1, F2, F3, F4, F5, F, J,

Info for manual annotations of cluster F1:

- Start number 10 was manually annotated 208 times for cluster F1.

Info for manual annotations of cluster F2:

- Start number 10 was manually annotated 7 times for cluster F2.

Info for manual annotations of cluster F3:

- Start number 10 was manually annotated 1 time for cluster F3.

Info for manual annotations of cluster F4:

- Start number 10 was manually annotated 4 times for cluster F4.

Info for manual annotations of cluster F5:

- Start number 10 was manually annotated 1 time for cluster F5.

Info for manual annotations of cluster J:

- Start number 10 was manually annotated 1 time for cluster J.

Gene Information:

Gene: Akhila_47 Start: 34867, Stop: 35148, Start Num: 10

Candidate Starts for Akhila_47:

(Start: 10 @34867 has 222 MA's), (11, 34951), (13, 34969), (15, 34987), (16, 34996), (17, 34999), (18, 35002), (19, 35020), (20, 35050), (22, 35086), (24, 35110), (25, 35113),

Gene: Alexphander_59 Start: 38824, Stop: 39105, Start Num: 10

Candidate Starts for Alexphander_59:

(Start: 10 @38824 has 222 MA's), (11, 38908), (13, 38926), (16, 38953), (17, 38956), (18, 38959), (19, 38977), (20, 39007), (22, 39043), (24, 39067), (25, 39070),

Gene: AlpineSix_60 Start: 40946, Stop: 41224, Start Num: 10

Candidate Starts for AlpineSix_60:

(Start: 10 @40946 has 222 MA's), (11, 41030), (12, 41039), (18, 41081), (22, 41162), (24, 41186),

Gene: ArcusAngelus_58 Start: 39420, Stop: 39701, Start Num: 10

Candidate Starts for ArcusAngelus_58:

(Start: 10 @39420 has 222 MA's), (11, 39504), (13, 39522), (16, 39549), (17, 39552), (18, 39555), (19, 39573), (20, 39603), (22, 39639), (24, 39663), (25, 39666),

Gene: Ardmore_47 Start: 36773, Stop: 37054, Start Num: 10

Candidate Starts for Ardmore_47:

(9, 36713), (Start: 10 @36773 has 222 MA's), (11, 36857), (13, 36875), (16, 36902), (17, 36905), (18, 36908), (19, 36926), (20, 36956), (22, 36992), (24, 37016), (25, 37019),

Gene: Aubs_56 Start: 39120, Stop: 39398, Start Num: 10

Candidate Starts for Aubs_56:

(Start: 10 @39120 has 222 MA's), (11, 39204), (12, 39213), (18, 39255), (22, 39336),

Gene: Avani_63 Start: 39078, Stop: 39377, Start Num: 10

Candidate Starts for Avani_63:

(Start: 10 @39078 has 222 MA's), (11, 39162), (15, 39198), (16, 39207), (17, 39210), (18, 39213), (19, 39231), (22, 39297), (26, 39360),

Gene: Batiatus_53 Start: 38641, Stop: 38922, Start Num: 10

Candidate Starts for Batiatus_53:

(Start: 10 @38641 has 222 MA's), (11, 38725), (13, 38743), (16, 38770), (17, 38773), (18, 38776), (19, 38794), (20, 38824), (22, 38860), (24, 38884), (25, 38887),

Gene: Beakin_56 Start: 37762, Stop: 38043, Start Num: 10

Candidate Starts for Beakin_56:

(Start: 10 @37762 has 222 MA's), (11, 37846), (13, 37864), (17, 37894), (18, 37897), (19, 37915), (22, 37981), (24, 38005),

Gene: BigPhil_51 Start: 34536, Stop: 34817, Start Num: 10

Candidate Starts for BigPhil_51:

(Start: 10 @34536 has 222 MA's), (11, 34620), (13, 34638), (17, 34668), (18, 34671), (19, 34689), (21, 34743), (22, 34755), (24, 34779),

Gene: Bipolar_54 Start: 38577, Stop: 38858, Start Num: 10

Candidate Starts for Bipolar_54:

(Start: 10 @38577 has 222 MA's), (11, 38661), (13, 38679), (16, 38706), (17, 38709), (18, 38712), (19, 38730), (22, 38796), (24, 38820), (25, 38823),

Gene: Blarby_67 Start: 40176, Stop: 40475, Start Num: 10

Candidate Starts for Blarby_67:

(Start: 10 @40176 has 222 MA's), (11, 40260), (13, 40278), (17, 40308), (18, 40311), (19, 40329), (22, 40395), (24, 40419), (25, 40422), (26, 40458),

Gene: Blexus_53 Start: 38794, Stop: 39075, Start Num: 10

Candidate Starts for Blexus_53:

(Start: 10 @38794 has 222 MA's), (11, 38878), (13, 38896), (14, 38905), (15, 38914), (16, 38923), (17, 38926), (18, 38929), (19, 38947), (22, 39013), (25, 39040),

Gene: BlueCrab_54 Start: 38908, Stop: 39189, Start Num: 10

Candidate Starts for BlueCrab_54:

(Start: 10 @38908 has 222 MA's), (11, 38992), (13, 39010), (16, 39037), (17, 39040), (19, 39061), (20, 39091), (21, 39115), (22, 39127), (24, 39151),

Gene: BobaPhett_59 Start: 41056, Stop: 41334, Start Num: 10

Candidate Starts for BobaPhett_59:

(Start: 10 @41056 has 222 MA's), (11, 41140), (12, 41149), (18, 41191), (22, 41272),

Gene: Bobi_60 Start: 40250, Stop: 40531, Start Num: 10

Candidate Starts for Bobi_60:

(4, 40115), (Start: 10 @40250 has 222 MA's), (11, 40334), (13, 40352), (16, 40379), (17, 40382), (18, 40385), (19, 40403), (20, 40433), (22, 40469), (24, 40493), (25, 40496),

Gene: BodEinwohner17_55 Start: 37864, Stop: 38145, Start Num: 10

Candidate Starts for BodEinwohner17_55:

(Start: 10 @37864 has 222 MA's), (11, 37948), (13, 37966), (16, 37993), (17, 37996), (18, 37999), (19, 38017), (20, 38047), (22, 38083), (23, 38101), (24, 38107), (25, 38110),

Gene: Boomer_60 Start: 40731, Stop: 41009, Start Num: 10

Candidate Starts for Boomer_60:

(Start: 10 @40731 has 222 MA's), (11, 40815), (12, 40824), (18, 40866), (22, 40947), (23, 40965), (24, 40971), (25, 40974),

Gene: Brocalys_50 Start: 35241, Stop: 35519, Start Num: 10

Candidate Starts for Brocalys_50:

(Start: 10 @35241 has 222 MA's), (11, 35325), (12, 35334), (18, 35376), (22, 35457),

Gene: Bubbles123_52 Start: 38682, Stop: 38978, Start Num: 10

Candidate Starts for Bubbles123_52:

(Start: 10 @38682 has 222 MA's), (11, 38766), (18, 38817), (21, 38886), (22, 38898), (26, 38961),

Gene: Burwell21_53 Start: 38339, Stop: 38617, Start Num: 10

Candidate Starts for Burwell21_53:

(Start: 10 @38339 has 222 MA's), (11, 38423), (12, 38432), (18, 38474), (22, 38555),

Gene: BuzzLyseyear_61 Start: 39760, Stop: 40041, Start Num: 10

Candidate Starts for BuzzLyseyear_61:

(Start: 10 @39760 has 222 MA's), (11, 39844), (13, 39862), (16, 39889), (17, 39892), (18, 39895), (19, 39913), (20, 39943), (22, 39979), (24, 40003), (25, 40006),

Gene: ByChance_47 Start: 34027, Stop: 34308, Start Num: 10

Candidate Starts for ByChance_47:

(7, 33919), (Start: 10 @34027 has 222 MA's), (11, 34111), (13, 34129), (15, 34147), (16, 34156), (17, 34159), (18, 34162), (19, 34180), (22, 34246),

Gene: Byougenkin_53 Start: 38099, Stop: 38380, Start Num: 10

Candidate Starts for Byougenkin_53:

(Start: 10 @38099 has 222 MA's), (11, 38183), (13, 38201), (17, 38231), (18, 38234), (19, 38252), (22, 38318), (25, 38345),

Gene: Cabrinians_56 Start: 38417, Stop: 38695, Start Num: 10

Candidate Starts for Cabrinians_56:

(Start: 10 @38417 has 222 MA's), (11, 38501), (12, 38510), (18, 38552), (22, 38633),

Gene: CaptainTrips_52 Start: 37910, Stop: 38191, Start Num: 10

Candidate Starts for CaptainTrips_52:

(Start: 10 @37910 has 222 MA's), (11, 37994), (13, 38012), (16, 38039), (17, 38042), (18, 38045), (19, 38063), (20, 38093), (22, 38129), (24, 38153), (25, 38156),

Gene: Cerasum_51 Start: 34554, Stop: 34835, Start Num: 10

Candidate Starts for Cerasum_51:

(Start: 10 @34554 has 222 MA's), (11, 34638), (13, 34656), (17, 34686), (18, 34689), (19, 34707), (21, 34761), (22, 34773), (24, 34797),

Gene: Che8_58 Start: 40132, Stop: 40413, Start Num: 10

Candidate Starts for Che8_58:

(Start: 10 @40132 has 222 MA's), (11, 40216), (13, 40234), (17, 40264), (19, 40285), (22, 40351), (24, 40375),

Gene: Che9d_62 Start: 37942, Stop: 38223, Start Num: 10

Candidate Starts for Che9d_62:

(Start: 10 @37942 has 222 MA's), (11, 38026), (13, 38044), (17, 38074), (18, 38077), (19, 38095), (22, 38161), (24, 38185),

Gene: Chevrolet_61 Start: 39421, Stop: 39702, Start Num: 10

Candidate Starts for Chevrolet_61:

(Start: 10 @39421 has 222 MA's), (11, 39505), (13, 39523), (16, 39550), (17, 39553), (18, 39556), (19, 39574), (20, 39604), (22, 39640), (24, 39664), (25, 39667),

Gene: Chuckly_58 Start: 39059, Stop: 39337, Start Num: 10

Candidate Starts for Chuckly_58:

(Start: 10 @39059 has 222 MA's), (11, 39143), (12, 39152), (18, 39194), (22, 39275),

Gene: Clifton_50 Start: 35592, Stop: 35870, Start Num: 10

Candidate Starts for Clifton_50:

(Start: 10 @35592 has 222 MA's), (11, 35676), (12, 35685), (18, 35727), (22, 35808),

Gene: Coco12_54 Start: 38611, Stop: 38892, Start Num: 10

Candidate Starts for Coco12_54:

(Start: 10 @38611 has 222 MA's), (11, 38695), (13, 38713), (17, 38743), (18, 38746), (19, 38764), (21, 38818), (22, 38830), (24, 38854),

Gene: Constella_110 Start: 64495, Stop: 64773, Start Num: 10

Candidate Starts for Constella_110:

(Start: 10 @64495 has 222 MA's), (11, 64579), (12, 64588), (18, 64630), (22, 64711), (24, 64735),

Gene: Cornie_49 Start: 36431, Stop: 36712, Start Num: 10

Candidate Starts for Cornie_49:

(Start: 10 @36431 has 222 MA's), (11, 36515), (13, 36533), (16, 36560), (17, 36563), (18, 36566), (19, 36584), (22, 36650), (24, 36674),

Gene: Cornucopia_57 Start: 39066, Stop: 39347, Start Num: 10

Candidate Starts for Cornucopia_57:

(Start: 10 @39066 has 222 MA's), (11, 39150), (13, 39168), (16, 39195), (17, 39198), (18, 39201), (19, 39219), (22, 39285),

Gene: Crumble_50 Start: 34353, Stop: 34631, Start Num: 10

Candidate Starts for Crumble_50:

(Start: 10 @34353 has 222 MA's), (11, 34437), (12, 34446), (18, 34488), (22, 34569),

Gene: DLane_50 Start: 37297, Stop: 37578, Start Num: 10

Candidate Starts for DLane_50:

(6, 37183), (8, 37195), (Start: 10 @37297 has 222 MA's), (11, 37381), (13, 37399), (15, 37417), (16, 37426), (17, 37429), (18, 37432), (19, 37450), (22, 37516), (24, 37540), (25, 37543),

Gene: DRBy19_58 Start: 39514, Stop: 39795, Start Num: 10

Candidate Starts for DRBy19_58:

(7, 39406), (Start: 10 @39514 has 222 MA's), (11, 39598), (13, 39616), (15, 39634), (16, 39643), (17, 39646), (18, 39649), (19, 39667), (22, 39733),

Gene: DaWorst_56 Start: 38812, Stop: 39096, Start Num: 10

Candidate Starts for DaWorst_56:

(Start: 10 @38812 has 222 MA's), (11, 38896), (13, 38914), (16, 38941), (17, 38944), (18, 38947), (19, 38965), (20, 38995), (22, 39031), (24, 39055), (25, 39058),

Gene: DaddyRickover_54 Start: 38556, Stop: 38834, Start Num: 10

Candidate Starts for DaddyRickover_54:

(Start: 10 @38556 has 222 MA's), (11, 38640), (12, 38649), (18, 38691), (22, 38772),

Gene: Daenerys_49 Start: 36672, Stop: 36950, Start Num: 10

Candidate Starts for Daenerys_49:

(Start: 10 @36672 has 222 MA's), (11, 36756), (12, 36765), (18, 36807), (22, 36888), (23, 36906), (24, 36912), (25, 36915),

Gene: Dante_56 Start: 38338, Stop: 38619, Start Num: 10

Candidate Starts for Dante_56:

(6, 38224), (8, 38236), (Start: 10 @38338 has 222 MA's), (11, 38422), (13, 38440), (16, 38467), (17, 38470), (18, 38473), (19, 38491), (20, 38521), (22, 38557), (24, 38581), (25, 38584),

Gene: DeadP_61 Start: 40990, Stop: 41271, Start Num: 10

Candidate Starts for DeadP_61:

(Start: 10 @40990 has 222 MA's), (11, 41074), (13, 41092), (16, 41119), (17, 41122), (18, 41125), (19, 41143), (20, 41173), (22, 41209), (25, 41236),

Gene: Deb65_50 Start: 36641, Stop: 36919, Start Num: 10

Candidate Starts for Deb65_50:

(Start: 10 @36641 has 222 MA's), (11, 36725), (12, 36734), (18, 36776), (22, 36857), (23, 36875), (24, 36881), (25, 36884),

Gene: Demsculpinboyz_64 Start: 37946, Stop: 38227, Start Num: 10

Candidate Starts for Demsculpinboyz_64:

(Start: 10 @37946 has 222 MA's), (11, 38030), (13, 38048), (17, 38078), (18, 38081), (19, 38099), (21, 38153), (22, 38165), (24, 38189),

Gene: DillTech15_52 Start: 37006, Stop: 37284, Start Num: 10

Candidate Starts for DillTech15_52:

(Start: 10 @37006 has 222 MA's), (11, 37090), (12, 37099), (18, 37141), (22, 37222), (23, 37240), (24, 37246), (25, 37249),

Gene: DirtMcgirt_54 Start: 37081, Stop: 37359, Start Num: 10

Candidate Starts for DirtMcgirt_54:

(Start: 10 @37081 has 222 MA's), (11, 37165), (12, 37174), (18, 37216), (22, 37297),

Gene: Donkeykong_59 Start: 41372, Stop: 41653, Start Num: 10

Candidate Starts for Donkeykong_59:

(Start: 10 @41372 has 222 MA's), (11, 41456), (13, 41474), (17, 41504), (18, 41507), (19, 41525), (20, 41555), (22, 41591), (24, 41615), (25, 41618),

Gene: Doomphist_55 Start: 39514, Stop: 39795, Start Num: 10

Candidate Starts for Doomphist_55:

(Start: 10 @39514 has 222 MA's), (11, 39598), (15, 39634), (17, 39646), (18, 39649), (19, 39667), (20, 39697), (22, 39733), (24, 39757), (25, 39760),

Gene: Dorothy_52 Start: 37553, Stop: 37834, Start Num: 10

Candidate Starts for Dorothy_52:

(Start: 10 @37553 has 222 MA's), (11, 37637), (13, 37655), (14, 37664), (16, 37682), (17, 37685), (18, 37688), (19, 37706), (20, 37736), (22, 37772), (24, 37796), (25, 37799),

Gene: DosHalletts_57 Start: 39869, Stop: 40150, Start Num: 10

Candidate Starts for DosHalletts_57:

(Start: 10 @39869 has 222 MA's), (11, 39953), (15, 39989), (17, 40001), (18, 40004), (19, 40022), (20, 40052), (22, 40088), (24, 40112), (25, 40115),

Gene: DotProduct_50 Start: 37132, Stop: 37413, Start Num: 10

Candidate Starts for DotProduct_50:

(Start: 10 @37132 has 222 MA's), (11, 37216), (13, 37234), (16, 37261), (17, 37264), (18, 37267), (19, 37285), (20, 37315), (22, 37351), (25, 37378),

Gene: Doug_57 Start: 39078, Stop: 39362, Start Num: 10

Candidate Starts for Doug_57:

(Start: 10 @39078 has 222 MA's), (11, 39162), (13, 39180), (16, 39207), (17, 39210), (18, 39213), (19, 39231), (20, 39261), (22, 39297), (24, 39321), (25, 39324),

Gene: Drago_53 Start: 37084, Stop: 37362, Start Num: 10

Candidate Starts for Drago_53:

(Start: 10 @37084 has 222 MA's), (11, 37168), (12, 37177), (18, 37219), (22, 37300),

Gene: Eish_59 Start: 39333, Stop: 39611, Start Num: 10

Candidate Starts for Eish_59:

(Start: 10 @39333 has 222 MA's), (11, 39417), (12, 39426), (18, 39468), (22, 39549), (24, 39573),

Gene: EleanorGeorge_54 Start: 38453, Stop: 38734, Start Num: 10

Candidate Starts for EleanorGeorge_54:

(Start: 10 @38453 has 222 MA's), (11, 38537), (13, 38555), (15, 38573), (16, 38582), (17, 38585), (18, 38588), (19, 38606), (22, 38672),

Gene: Empress_53 Start: 38086, Stop: 38364, Start Num: 10

Candidate Starts for Empress_53:

(Start: 10 @38086 has 222 MA's), (11, 38170), (12, 38179), (18, 38221), (22, 38302), (23, 38320), (24, 38326), (25, 38329),

Gene: Enby_56 Start: 37357, Stop: 37638, Start Num: 10

Candidate Starts for Enby_56:

(Start: 10 @37357 has 222 MA's), (11, 37441), (13, 37459), (16, 37486), (17, 37489), (18, 37492), (19, 37510), (20, 37540), (22, 37576), (24, 37600), (25, 37603),

Gene: Eradicator_48 Start: 36610, Stop: 36891, Start Num: 10

Candidate Starts for Eradicator_48:

(Start: 10 @36610 has 222 MA's), (11, 36694), (13, 36712), (16, 36739), (17, 36742), (18, 36745), (19, 36763), (20, 36793), (22, 36829), (24, 36853), (25, 36856),

Gene: Estave1_58 Start: 39537, Stop: 39815, Start Num: 10

Candidate Starts for Estave1_58:

(Start: 10 @39537 has 222 MA's), (11, 39621), (12, 39630), (18, 39672), (22, 39753), (23, 39771), (24, 39777), (25, 39780),

Gene: Fancypants_57 Start: 39048, Stop: 39329, Start Num: 10

Candidate Starts for Fancypants_57:

(Start: 10 @39048 has 222 MA's), (11, 39132), (13, 39150), (17, 39180), (18, 39183), (19, 39201), (20, 39231), (21, 39255), (22, 39267), (23, 39285), (24, 39291), (25, 39294),

Gene: Fastidio_55 Start: 37153, Stop: 37431, Start Num: 10

Candidate Starts for Fastidio_55:

(Start: 10 @37153 has 222 MA's), (11, 37237), (12, 37246), (18, 37288), (22, 37369), (23, 37387), (24, 37393), (25, 37396),

Gene: Filuzino_53 Start: 37599, Stop: 37880, Start Num: 10

Candidate Starts for Filuzino_53:

(9, 37539), (Start: 10 @37599 has 222 MA's), (11, 37683), (13, 37701), (16, 37728), (17, 37731), (18, 37734), (19, 37752), (20, 37782), (22, 37818), (24, 37842), (25, 37845),

Gene: Firehouse51_56 Start: 41932, Stop: 42213, Start Num: 10

Candidate Starts for Firehouse51_56:

(Start: 10 @41932 has 222 MA's), (11, 42016), (13, 42034), (16, 42061), (17, 42064), (18, 42067), (19, 42085), (20, 42115), (22, 42151), (25, 42178),

Gene: Flathead_55 Start: 39066, Stop: 39347, Start Num: 10

Candidate Starts for Flathead_55:

(Start: 10 @39066 has 222 MA's), (11, 39150), (13, 39168), (16, 39195), (17, 39198), (18, 39201), (19, 39219), (20, 39249), (22, 39285), (24, 39309), (25, 39312),

Gene: Florinda_67 Start: 40870, Stop: 41151, Start Num: 10

Candidate Starts for Florinda_67:

(Start: 10 @40870 has 222 MA's), (11, 40954), (13, 40972), (16, 40999), (17, 41002), (18, 41005), (19, 41023), (20, 41053), (21, 41077), (22, 41089), (23, 41107), (24, 41113), (25, 41116),

Gene: FreddyB_56 Start: 37265, Stop: 37543, Start Num: 10

Candidate Starts for FreddyB_56:

(Start: 10 @37265 has 222 MA's), (11, 37349), (12, 37358), (18, 37400), (22, 37481),

Gene: Fruitloop_52 Start: 38913, Stop: 39194, Start Num: 10

Candidate Starts for Fruitloop_52:

(6, 38799), (8, 38811), (Start: 10 @38913 has 222 MA's), (11, 38997), (13, 39015), (15, 39033), (16, 39042), (17, 39045), (18, 39048), (19, 39066), (22, 39132), (24, 39156), (25, 39159),

Gene: GUmbie_53 Start: 37837, Stop: 38118, Start Num: 10

Candidate Starts for GUmbie_53:

(Start: 10 @37837 has 222 MA's), (11, 37921), (13, 37939), (16, 37966), (17, 37969), (18, 37972), (19, 37990), (20, 38020), (22, 38056), (24, 38080), (25, 38083),

Gene: Galactic_54 Start: 38303, Stop: 38584, Start Num: 10

Candidate Starts for Galactic_54:

(Start: 10 @38303 has 222 MA's), (11, 38387), (13, 38405), (17, 38435), (18, 38438), (19, 38456), (20, 38486), (21, 38510), (22, 38522), (23, 38540), (24, 38546), (25, 38549),

Gene: Gandalph_58 Start: 38655, Stop: 38936, Start Num: 10

Candidate Starts for Gandalph_58:

(Start: 10 @38655 has 222 MA's), (11, 38739), (13, 38757), (17, 38787), (18, 38790), (19, 38808), (20, 38838), (22, 38874), (24, 38898),

Gene: Geralt_50 Start: 36640, Stop: 36918, Start Num: 10

Candidate Starts for Geralt_50:

(Start: 10 @36640 has 222 MA's), (11, 36724), (12, 36733), (18, 36775), (22, 36856), (23, 36874), (24, 36880), (25, 36883),

Gene: GigiOuiOui_51 Start: 37277, Stop: 37558, Start Num: 10

Candidate Starts for GigiOuiOui_51:

(Start: 10 @37277 has 222 MA's), (11, 37361), (13, 37379), (16, 37406), (17, 37409), (18, 37412), (19, 37430), (22, 37496), (24, 37520), (25, 37523),

Gene: Girafales_65 Start: 40661, Stop: 40942, Start Num: 10

Candidate Starts for Girafales_65:

(Start: 10 @40661 has 222 MA's), (11, 40745), (13, 40763), (16, 40790), (17, 40793), (18, 40796), (19, 40814), (20, 40844), (21, 40868), (22, 40880), (23, 40898), (24, 40904), (25, 40907),

Gene: Girr_53 Start: 38141, Stop: 38425, Start Num: 10

Candidate Starts for Girr_53:

(Start: 10 @38141 has 222 MA's), (11, 38225), (12, 38234), (13, 38243), (17, 38273), (18, 38276), (19, 38294), (20, 38324), (21, 38348), (22, 38360),

Gene: Gorge_59 Start: 39782, Stop: 40060, Start Num: 10

Candidate Starts for Gorge_59:

(Start: 10 @39782 has 222 MA's), (11, 39866), (12, 39875), (18, 39917), (22, 39998),

Gene: Hades_56 Start: 39235, Stop: 39516, Start Num: 10

Candidate Starts for Hades_56:

(Start: 10 @39235 has 222 MA's), (11, 39319), (14, 39346), (15, 39355), (17, 39367), (18, 39370), (19, 39388), (22, 39454), (24, 39478), (25, 39481),

Gene: Hamulus_56 Start: 39053, Stop: 39334, Start Num: 10

Candidate Starts for Hamulus_56:

(1, 38891), (5, 38927), (Start: 10 @39053 has 222 MA's), (11, 39137), (13, 39155), (16, 39182), (17, 39185), (18, 39188), (19, 39206), (20, 39236), (22, 39272), (24, 39296), (25, 39299),

Gene: Harley_57 Start: 39014, Stop: 39295, Start Num: 10

Candidate Starts for Harley_57:

(Start: 10 @39014 has 222 MA's), (11, 39098), (14, 39125), (15, 39134), (17, 39146), (18, 39149), (19, 39167), (22, 39233), (24, 39257), (25, 39260),

Gene: Hegedechwinu_55 Start: 37449, Stop: 37730, Start Num: 10

Candidate Starts for Hegedechwinu_55:

(Start: 10 @37449 has 222 MA's), (11, 37533), (13, 37551), (16, 37578), (17, 37581), (18, 37584), (19, 37602), (20, 37632), (22, 37668), (24, 37692), (25, 37695),

Gene: Hlubikazi_51 Start: 36455, Stop: 36736, Start Num: 10

Candidate Starts for Hlubikazi_51:

(Start: 10 @36455 has 222 MA's), (11, 36539), (13, 36557), (17, 36587), (18, 36590), (19, 36608), (20, 36638), (22, 36674),

Gene: IMpilo_51 Start: 36293, Stop: 36574, Start Num: 10

Candidate Starts for IMpilo_51:

(9, 36239), (Start: 10 @36293 has 222 MA's), (11, 36377), (13, 36395), (14, 36404), (16, 36422), (17, 36425), (18, 36428), (19, 36446), (20, 36476), (21, 36500), (22, 36512),

Gene: IbOuu_56 Start: 38814, Stop: 39095, Start Num: 10

Candidate Starts for IbOuu_56:

(Start: 10 @38814 has 222 MA's), (11, 38898), (13, 38916), (16, 38943), (17, 38946), (18, 38949), (19, 38967), (20, 38997), (22, 39033), (24, 39057), (25, 39060),

Gene: Ibhubesi_55 Start: 38427, Stop: 38708, Start Num: 10

Candidate Starts for Ibhubesi_55:

(Start: 10 @38427 has 222 MA's), (11, 38511), (13, 38529), (16, 38556), (17, 38559), (18, 38562), (19, 38580), (20, 38610), (21, 38634), (22, 38646), (23, 38664), (24, 38670), (25, 38673),

Gene: Inventum_50 Start: 37931, Stop: 38212, Start Num: 10

Candidate Starts for Inventum_50:

(Start: 10 @37931 has 222 MA's), (11, 38015), (13, 38033), (17, 38063), (18, 38066), (19, 38084), (20, 38114), (22, 38150), (24, 38174), (25, 38177),

Gene: IrishSherpFalk_56 Start: 40091, Stop: 40372, Start Num: 10

Candidate Starts for IrishSherpFalk_56:

(Start: 10 @40091 has 222 MA's), (11, 40175), (13, 40193), (16, 40220), (17, 40223), (18, 40226), (19, 40244), (20, 40274), (22, 40310), (24, 40334), (25, 40337),

Gene: Jabbawokkie_69 Start: 40096, Stop: 40395, Start Num: 10

Candidate Starts for Jabbawokkie_69:

(Start: 10 @40096 has 222 MA's), (11, 40180), (13, 40198), (17, 40228), (18, 40231), (19, 40249), (22, 40315), (24, 40339), (25, 40342), (26, 40378),

Gene: JalFarm20_67 Start: 42162, Stop: 42443, Start Num: 10

Candidate Starts for JalFarm20_67:

(Start: 10 @42162 has 222 MA's), (11, 42246), (13, 42264), (16, 42291), (17, 42294), (18, 42297), (19, 42315), (20, 42345), (22, 42381), (24, 42405), (25, 42408),

Gene: James_59 Start: 39904, Stop: 40185, Start Num: 10

Candidate Starts for James_59:

(Start: 10 @39904 has 222 MA's), (11, 39988), (13, 40006), (14, 40015), (15, 40024), (17, 40036), (18, 40039), (19, 40057), (20, 40087), (22, 40123),

Gene: Jarcob_55 Start: 38385, Stop: 38663, Start Num: 10

Candidate Starts for Jarcob_55:

(Start: 10 @38385 has 222 MA's), (11, 38469), (12, 38478), (18, 38520), (22, 38601),

Gene: Jinglebell_60 Start: 40945, Stop: 41223, Start Num: 10

Candidate Starts for Jinglebell_60:

(Start: 10 @40945 has 222 MA's), (11, 41029), (12, 41038), (18, 41080), (22, 41161), (24, 41185),

Gene: Job42_57 Start: 40322, Stop: 40603, Start Num: 10

Candidate Starts for Job42_57:

(Start: 10 @40322 has 222 MA's), (11, 40406), (13, 40424), (14, 40433), (15, 40442), (17, 40454), (18, 40457), (19, 40475), (20, 40505), (21, 40529), (22, 40541),

Gene: JoeyJr_50 Start: 36840, Stop: 37118, Start Num: 10

Candidate Starts for JoeyJr_50:

(Start: 10 @36840 has 222 MA's), (11, 36924), (12, 36933), (18, 36975), (22, 37056), (23, 37074), (24, 37080), (25, 37083),

Gene: Juice456_56 Start: 40298, Stop: 40579, Start Num: 10

Candidate Starts for Juice456_56:

(Start: 10 @40298 has 222 MA's), (11, 40382), (13, 40400), (15, 40418), (17, 40430), (18, 40433), (19, 40451), (22, 40517),

Gene: Juniper1_53 Start: 38241, Stop: 38519, Start Num: 10

Candidate Starts for Juniper1_53:

(Start: 10 @38241 has 222 MA's), (11, 38325), (12, 38334), (18, 38376), (22, 38457), (24, 38481), (25, 38484),

Gene: Karhdo_52 Start: 37927, Stop: 38208, Start Num: 10

Candidate Starts for Karhdo_52:

(2, 37768), (Start: 10 @37927 has 222 MA's), (11, 38011), (13, 38029), (16, 38056), (17, 38059), (18, 38062), (19, 38080), (20, 38110), (22, 38146), (23, 38164), (24, 38170), (25, 38173),

Gene: Kenuha5_52 Start: 37183, Stop: 37461, Start Num: 10

Candidate Starts for Kenuha5_52:

(3, 37024), (Start: 10 @37183 has 222 MA's), (11, 37267), (12, 37276), (18, 37318), (22, 37399), (24, 37423),

Gene: Kersh_57 Start: 40680, Stop: 40961, Start Num: 10

Candidate Starts for Kersh_57:

(Start: 10 @40680 has 222 MA's), (11, 40764), (13, 40782), (15, 40800), (16, 40809), (17, 40812), (18, 40815), (19, 40833), (22, 40899),

Gene: Kimberlium_57 Start: 40001, Stop: 40282, Start Num: 10

Candidate Starts for Kimberlium_57:

(Start: 10 @40001 has 222 MA's), (11, 40085), (13, 40103), (16, 40130), (17, 40133), (18, 40136), (19, 40154), (22, 40220), (24, 40244), (25, 40247),

Gene: KingMidas_54 Start: 38502, Stop: 38780, Start Num: 10

Candidate Starts for KingMidas_54:

(Start: 10 @38502 has 222 MA's), (11, 38586), (12, 38595), (18, 38637), (22, 38718), (23, 38736), (24, 38742), (25, 38745),

Gene: Kingsley_52 Start: 37344, Stop: 37625, Start Num: 10

Candidate Starts for Kingsley_52:

(Start: 10 @37344 has 222 MA's), (11, 37428), (13, 37446), (17, 37476), (18, 37479), (19, 37497), (21, 37551), (22, 37563), (24, 37587),

Gene: Koella_49 Start: 34315, Stop: 34593, Start Num: 10

Candidate Starts for Koella_49:

(Start: 10 @34315 has 222 MA's), (11, 34399), (12, 34408), (18, 34450), (22, 34531),

Gene: Krakatau_52 Start: 37870, Stop: 38151, Start Num: 10

Candidate Starts for Krakatau_52:

(2, 37711), (Start: 10 @37870 has 222 MA's), (11, 37954), (13, 37972), (17, 38002), (18, 38005), (19, 38023), (22, 38089),

Gene: KristaRAM_58 Start: 40884, Stop: 41165, Start Num: 10

Candidate Starts for KristaRAM_58:

(Start: 10 @40884 has 222 MA's), (11, 40968), (13, 40986), (16, 41013), (17, 41016), (18, 41019), (19, 41037), (20, 41067), (22, 41103), (25, 41130),

Gene: LastJedi_49 Start: 35635, Stop: 35913, Start Num: 10

Candidate Starts for LastJedi_49:

(Start: 10 @35635 has 222 MA's), (11, 35719), (12, 35728), (18, 35770), (22, 35851),

Gene: Latretium_57 Start: 38961, Stop: 39239, Start Num: 10

Candidate Starts for Latretium_57:

(Start: 10 @38961 has 222 MA's), (11, 39045), (12, 39054), (18, 39096), (22, 39177), (24, 39201), (25, 39204),

Gene: Leozinho_54 Start: 37714, Stop: 37998, Start Num: 10

Candidate Starts for Leozinho_54:

(Start: 10 @37714 has 222 MA's), (11, 37798), (13, 37816), (17, 37846), (18, 37849), (19, 37867), (20, 37897), (21, 37921), (22, 37933), (24, 37957), (25, 37960),

Gene: Leperchaun_47 Start: 36070, Stop: 36348, Start Num: 10

Candidate Starts for Leperchaun_47:

(Start: 10 @36070 has 222 MA's), (11, 36154), (12, 36163), (18, 36205), (22, 36286), (23, 36304), (24, 36310), (25, 36313),

Gene: LilMoolah_53 Start: 37827, Stop: 38108, Start Num: 10

Candidate Starts for LilMoolah_53:

(Start: 10 @37827 has 222 MA's), (11, 37911), (13, 37929), (14, 37938), (15, 37947), (17, 37959), (18, 37962), (19, 37980), (20, 38010), (21, 38034), (22, 38046),

Gene: LittleShirley_54 Start: 38871, Stop: 39152, Start Num: 10

Candidate Starts for LittleShirley_54:

(Start: 10 @38871 has 222 MA's), (11, 38955), (13, 38973), (15, 38991), (16, 39000), (17, 39003), (18, 39006), (19, 39024), (22, 39090),

Gene: Lizziana_61 Start: 39388, Stop: 39666, Start Num: 10

Candidate Starts for Lizziana_61:

(Start: 10 @39388 has 222 MA's), (11, 39472), (12, 39481), (18, 39523), (22, 39604),

Gene: Llama_60 Start: 40799, Stop: 41077, Start Num: 10

Candidate Starts for Llama_60:

(Start: 10 @40799 has 222 MA's), (11, 40883), (12, 40892), (18, 40934), (22, 41015), (24, 41039),

Gene: Llij_51 Start: 37238, Stop: 37516, Start Num: 10

Candidate Starts for Llij_51:

(Start: 10 @37238 has 222 MA's), (11, 37322), (12, 37331), (18, 37373), (22, 37454),

Gene: Lorde_55 Start: 36525, Stop: 36803, Start Num: 10

Candidate Starts for Lorde_55:

(Start: 10 @36525 has 222 MA's), (11, 36609), (12, 36618), (18, 36660), (22, 36741),

Gene: LunaBlu_57 Start: 38962, Stop: 39243, Start Num: 10

Candidate Starts for LunaBlu_57:

(Start: 10 @38962 has 222 MA's), (11, 39046), (13, 39064), (17, 39094), (18, 39097), (19, 39115), (20, 39145), (21, 39169), (22, 39181), (23, 39199), (24, 39205), (25, 39208),

Gene: LunaStella_53 Start: 37593, Stop: 37874, Start Num: 10

Candidate Starts for LunaStella_53:

(Start: 10 @37593 has 222 MA's), (11, 37677), (13, 37695), (14, 37704), (15, 37713), (17, 37725), (19, 37746), (22, 37812), (24, 37836),

Gene: MadMen_53 Start: 38162, Stop: 38440, Start Num: 10

Candidate Starts for MadMen_53:

(Start: 10 @38162 has 222 MA's), (11, 38246), (12, 38255), (18, 38297), (22, 38378),

Gene: Madiba_53 Start: 37408, Stop: 37689, Start Num: 10

Candidate Starts for Madiba_53:

(Start: 10 @37408 has 222 MA's), (11, 37492), (13, 37510), (15, 37528), (16, 37537), (17, 37540), (18, 37543), (19, 37561), (22, 37627),

Gene: Mahavrat_53 Start: 37787, Stop: 38068, Start Num: 10

Candidate Starts for Mahavrat_53:

(Start: 10 @37787 has 222 MA's), (11, 37871), (13, 37889), (17, 37919), (18, 37922), (19, 37940), (20, 37970), (22, 38006), (24, 38030),

Gene: Mandlovu_51 Start: 36397, Stop: 36678, Start Num: 10

Candidate Starts for Mandlovu_51:

(Start: 10 @36397 has 222 MA's), (11, 36481), (13, 36499), (17, 36529), (18, 36532), (19, 36550), (20, 36580), (22, 36616),

Gene: Mantra_51 Start: 37280, Stop: 37561, Start Num: 10

Candidate Starts for Mantra_51:

(Start: 10 @37280 has 222 MA's), (11, 37364), (13, 37382), (14, 37391), (15, 37400), (17, 37412), (18, 37415), (19, 37433), (20, 37463), (22, 37499), (24, 37523), (25, 37526),

Gene: Maravista_56 Start: 39834, Stop: 40115, Start Num: 10

Candidate Starts for Maravista_56:

(Start: 10 @39834 has 222 MA's), (11, 39918), (13, 39936), (17, 39966), (18, 39969), (19, 39987), (20, 40017), (22, 40053), (24, 40077), (25, 40080),

Gene: Marker_56 Start: 38323, Stop: 38604, Start Num: 10

Candidate Starts for Marker_56:

(9, 38269), (Start: 10 @38323 has 222 MA's), (11, 38407), (13, 38425), (17, 38455), (18, 38458), (19, 38476), (22, 38542),

Gene: Martik_55 Start: 38341, Stop: 38619, Start Num: 10

Candidate Starts for Martik_55:

(Start: 10 @38341 has 222 MA's), (11, 38425), (12, 38434), (18, 38476), (22, 38557),

Gene: Mattes_59 Start: 39904, Stop: 40185, Start Num: 10

Candidate Starts for Mattes_59:

(Start: 10 @39904 has 222 MA's), (11, 39988), (13, 40006), (14, 40015), (15, 40024), (17, 40036), (18, 40039), (19, 40057), (20, 40087), (21, 40111), (22, 40123),

Gene: Melissauren88_53 Start: 38094, Stop: 38375, Start Num: 10

Candidate Starts for Melissauren88_53:

(Start: 10 @38094 has 222 MA's), (11, 38178), (13, 38196), (16, 38223), (17, 38226), (18, 38229), (19, 38247), (20, 38277), (22, 38313), (24, 38337), (25, 38340),

Gene: MilanaBonita_46 Start: 34867, Stop: 35148, Start Num: 10

Candidate Starts for MilanaBonita_46:

(Start: 10 @34867 has 222 MA's), (11, 34951), (13, 34969), (15, 34987), (16, 34996), (17, 34999), (18, 35002), (19, 35020), (20, 35050), (22, 35086), (24, 35110), (25, 35113),

Gene: MilleniumForce_59 Start: 40956, Stop: 41237, Start Num: 10

Candidate Starts for MilleniumForce_59:

(Start: 10 @40956 has 222 MA's), (11, 41040), (13, 41058), (16, 41085), (17, 41088), (18, 41091), (19, 41109), (20, 41139), (22, 41175), (24, 41199), (25, 41202),

Gene: MinionDave_54 Start: 38685, Stop: 38966, Start Num: 10

Candidate Starts for MinionDave_54:

(Start: 10 @38685 has 222 MA's), (11, 38769), (13, 38787), (16, 38814), (17, 38817), (18, 38820), (19, 38838), (20, 38868), (22, 38904), (24, 38928), (25, 38931),

Gene: Minnie_59 Start: 40258, Stop: 40539, Start Num: 10

Candidate Starts for Minnie_59:

(Start: 10 @40258 has 222 MA's), (11, 40342), (13, 40360), (16, 40387), (17, 40390), (18, 40393), (19, 40411), (20, 40441), (22, 40477), (24, 40501), (25, 40504),

Gene: MisterCuddles_53 Start: 38141, Stop: 38425, Start Num: 10

Candidate Starts for MisterCuddles_53:

(Start: 10 @38141 has 222 MA's), (11, 38225), (12, 38234), (13, 38243), (17, 38273), (18, 38276), (19, 38294), (20, 38324), (21, 38348), (22, 38360),

Gene: Modragons_59 Start: 40789, Stop: 41067, Start Num: 10

Candidate Starts for Modragons_59:

(Start: 10 @40789 has 222 MA's), (11, 40873), (12, 40882), (18, 40924), (22, 41005), (24, 41029),

Gene: Moonbeam_53 Start: 38238, Stop: 38519, Start Num: 10

Candidate Starts for Moonbeam_53:

(4, 38103), (Start: 10 @38238 has 222 MA's), (11, 38322), (13, 38340), (16, 38367), (17, 38370), (18, 38373), (19, 38391), (20, 38421), (22, 38457), (24, 38481), (25, 38484),

Gene: Mova_56 Start: 37912, Stop: 38193, Start Num: 10

Candidate Starts for Mova_56:

(Start: 10 @37912 has 222 MA's), (11, 37996), (13, 38014), (16, 38041), (17, 38044), (18, 38047), (19, 38065), (20, 38095), (22, 38131), (24, 38155), (25, 38158),

Gene: Mozy_64 Start: 40919, Stop: 41200, Start Num: 10

Candidate Starts for Mozy_64:

(Start: 10 @40919 has 222 MA's), (11, 41003), (13, 41021), (14, 41030), (15, 41039), (16, 41048), (17, 41051), (18, 41054), (19, 41072), (22, 41138), (24, 41162),

Gene: Ms6_50 Start: 33825, Stop: 34106, Start Num: 10

Candidate Starts for Ms6_50:

(Start: 10 @33825 has 222 MA's), (11, 33909), (13, 33927), (16, 33954), (17, 33957), (18, 33960), (19, 33978), (20, 34008), (22, 34044), (24, 34068), (25, 34071),

Gene: MulchExplorer_61 Start: 40000, Stop: 40281, Start Num: 10

Candidate Starts for MulchExplorer_61:

(Start: 10 @40000 has 222 MA's), (11, 40084), (13, 40102), (16, 40129), (17, 40132), (18, 40135), (19, 40153), (22, 40219), (24, 40243), (25, 40246),

Gene: Mutaforma13_59 Start: 41242, Stop: 41523, Start Num: 10

Candidate Starts for Mutaforma13_59:

(Start: 10 @41242 has 222 MA's), (11, 41326), (13, 41344), (16, 41371), (17, 41374), (18, 41377), (19, 41395), (20, 41425), (22, 41461), (25, 41488),

Gene: Nimbo_49 Start: 36643, Stop: 36921, Start Num: 10

Candidate Starts for Nimbo_49:

(Start: 10 @36643 has 222 MA's), (11, 36727), (12, 36736), (18, 36778), (22, 36859), (23, 36877), (24, 36883), (25, 36886),

Gene: Nitzel_51 Start: 37086, Stop: 37364, Start Num: 10

Candidate Starts for Nitzel_51:

(Start: 10 @37086 has 222 MA's), (11, 37170), (18, 37221), (21, 37290), (22, 37302),

Gene: Nivrat_51 Start: 37700, Stop: 37981, Start Num: 10

Candidate Starts for Nivrat_51:

(Start: 10 @37700 has 222 MA's), (11, 37784), (13, 37802), (14, 37811), (15, 37820), (17, 37832), (18, 37835), (19, 37853), (20, 37883), (21, 37907), (22, 37919),

Gene: NormanBulbieJr_55 Start: 38328, Stop: 38606, Start Num: 10

Candidate Starts for NormanBulbieJr_55:

(Start: 10 @38328 has 222 MA's), (11, 38412), (12, 38421), (18, 38463), (22, 38544),

Gene: Ochi17_58 Start: 40396, Stop: 40674, Start Num: 10

Candidate Starts for Ochi17_58:

(Start: 10 @40396 has 222 MA's), (11, 40480), (12, 40489), (18, 40531), (22, 40612), (24, 40636),

Gene: OfUltron_60 Start: 40945, Stop: 41223, Start Num: 10

Candidate Starts for OfUltron_60:

(Start: 10 @40945 has 222 MA's), (11, 41029), (12, 41038), (18, 41080), (22, 41161), (24, 41185),

Gene: Ogotopogo_60 Start: 39087, Stop: 39365, Start Num: 10

Candidate Starts for Ogotopogo_60:

(Start: 10 @39087 has 222 MA's), (11, 39171), (12, 39180), (18, 39222), (22, 39303), (24, 39327),

Gene: Oksu_59 Start: 41208, Stop: 41486, Start Num: 10

Candidate Starts for Oksu_59:

(Start: 10 @41208 has 222 MA's), (11, 41292), (12, 41301), (18, 41343), (22, 41424), (24, 41448),

Gene: OldBen_52 Start: 38250, Stop: 38531, Start Num: 10

Candidate Starts for OldBen_52:

(Start: 10 @38250 has 222 MA's), (11, 38334), (13, 38352), (16, 38379), (17, 38382), (18, 38385), (19, 38403), (20, 38433), (22, 38469), (24, 38493), (25, 38496),

Gene: OlympiaSaint_57 Start: 38849, Stop: 39127, Start Num: 10

Candidate Starts for OlympiaSaint_57:

(Start: 10 @38849 has 222 MA's), (11, 38933), (12, 38942), (18, 38984), (22, 39065),

Gene: Ovechkin_54 Start: 38846, Stop: 39127, Start Num: 10

Candidate Starts for Ovechkin_54:

(Start: 10 @38846 has 222 MA's), (11, 38930), (13, 38948), (15, 38966), (16, 38975), (17, 38978), (18, 38981), (19, 38999), (22, 39065),

Gene: OwlsT2W_55 Start: 38568, Stop: 38849, Start Num: 10

Candidate Starts for OwlsT2W_55:

(Start: 10 @38568 has 222 MA's), (11, 38652), (13, 38670), (14, 38679), (15, 38688), (16, 38697), (17, 38700), (18, 38703), (19, 38721), (22, 38787), (24, 38811), (25, 38814),

Gene: PHappiness_50 Start: 36616, Stop: 36894, Start Num: 10

Candidate Starts for PHappiness_50:

(Start: 10 @36616 has 222 MA's), (11, 36700), (12, 36709), (18, 36751), (22, 36832), (23, 36850), (24, 36856), (25, 36859),

Gene: PMC_52 Start: 38955, Stop: 39233, Start Num: 10

Candidate Starts for PMC_52:

(Start: 10 @38955 has 222 MA's), (11, 39039), (12, 39048), (18, 39090), (22, 39171), (23, 39189), (24, 39195), (25, 39198),

Gene: Pacc40_49 Start: 36690, Stop: 36968, Start Num: 10

Candidate Starts for Pacc40_49:

(Start: 10 @36690 has 222 MA's), (11, 36774), (12, 36783), (18, 36825), (22, 36906), (23, 36924), (24, 36930), (25, 36933),

Gene: Phalconet_53 Start: 37365, Stop: 37646, Start Num: 10

Candidate Starts for Phalconet_53:

(Start: 10 @37365 has 222 MA's), (11, 37449), (13, 37467), (16, 37494), (17, 37497), (18, 37500), (19, 37518), (20, 37548), (22, 37584), (24, 37608), (25, 37611),

Gene: Phanphagia_53 Start: 39136, Stop: 39417, Start Num: 10

Candidate Starts for Phanphagia_53:

(Start: 10 @39136 has 222 MA's), (11, 39220), (13, 39238), (17, 39268), (18, 39271), (19, 39289), (20, 39319), (22, 39355), (24, 39379), (25, 39382),

Gene: Phasih_53 Start: 38756, Stop: 39034, Start Num: 10

Candidate Starts for Phasih_53:

(Start: 10 @38756 has 222 MA's), (11, 38840), (12, 38849), (18, 38891), (22, 38972), (23, 38990), (24, 38996), (25, 38999),

Gene: Phatniss_53 Start: 38333, Stop: 38611, Start Num: 10

Candidate Starts for Phatniss_53:

(Start: 10 @38333 has 222 MA's), (11, 38417), (12, 38426), (18, 38468), (22, 38549),

Gene: PhesterPhotato_56 Start: 38362, Stop: 38643, Start Num: 10

Candidate Starts for PhesterPhotato_56:

(Start: 10 @38362 has 222 MA's), (11, 38446), (13, 38464), (16, 38491), (17, 38494), (18, 38497), (19, 38515), (20, 38545), (22, 38581), (24, 38605), (25, 38608),

Gene: Philus_58 Start: 39490, Stop: 39771, Start Num: 10

Candidate Starts for Philus_58:

(7, 39382), (Start: 10 @39490 has 222 MA's), (11, 39574), (13, 39592), (15, 39610), (16, 39619), (17, 39622), (18, 39625), (19, 39643), (22, 39709),

Gene: Pippy_53 Start: 37199, Stop: 37477, Start Num: 10

Candidate Starts for Pippy_53:

(Start: 10 @37199 has 222 MA's), (11, 37283), (12, 37292), (18, 37334), (22, 37415),

Gene: Plumbus_57 Start: 38657, Stop: 38938, Start Num: 10

Candidate Starts for Plumbus_57:

(Start: 10 @38657 has 222 MA's), (11, 38741), (13, 38759), (14, 38768), (15, 38777), (17, 38789), (18, 38792), (19, 38810), (20, 38840), (22, 38876), (24, 38900), (25, 38903),

Gene: Poenanya_55 Start: 39514, Stop: 39795, Start Num: 10

Candidate Starts for Poenanya_55:

(Start: 10 @39514 has 222 MA's), (11, 39598), (15, 39634), (17, 39646), (18, 39649), (19, 39667), (20, 39697), (22, 39733), (24, 39757), (25, 39760),

Gene: Polka14_53 Start: 37713, Stop: 37991, Start Num: 10

Candidate Starts for Polka14_53:

(Start: 10 @37713 has 222 MA's), (11, 37797), (12, 37806), (18, 37848), (22, 37929), (23, 37947), (24, 37953), (25, 37956),

Gene: Pollywog_56 Start: 39161, Stop: 39442, Start Num: 10

Candidate Starts for Pollywog_56:

(Start: 10 @39161 has 222 MA's), (11, 39245), (13, 39263), (17, 39293), (18, 39296), (19, 39314), (20, 39344), (22, 39380), (23, 39398), (24, 39404), (25, 39407),

Gene: PopTart_49 Start: 36990, Stop: 37271, Start Num: 10

Candidate Starts for PopTart_49:

(Start: 10 @36990 has 222 MA's), (11, 37074), (13, 37092), (17, 37122), (18, 37125), (19, 37143), (22, 37209), (24, 37233), (25, 37236),

Gene: Priscilla_55 Start: 38427, Stop: 38705, Start Num: 10

Candidate Starts for Priscilla_55:

(Start: 10 @38427 has 222 MA's), (11, 38511), (12, 38520), (18, 38562), (22, 38643),

Gene: QuickMath_56 Start: 40224, Stop: 40505, Start Num: 10

Candidate Starts for QuickMath_56:

(Start: 10 @40224 has 222 MA's), (11, 40308), (13, 40326), (16, 40353), (17, 40356), (18, 40359), (19, 40377), (22, 40443), (24, 40467), (25, 40470),

Gene: Quico_64 Start: 40690, Stop: 40971, Start Num: 10

Candidate Starts for Quico_64:

(Start: 10 @40690 has 222 MA's), (11, 40774), (13, 40792), (16, 40819), (17, 40822), (18, 40825), (19, 40843), (20, 40873), (21, 40897), (22, 40909), (23, 40927), (24, 40933), (25, 40936),

Gene: Radiance_54 Start: 38449, Stop: 38730, Start Num: 10

Candidate Starts for Radiance_54:

(Start: 10 @38449 has 222 MA's), (11, 38533), (13, 38551), (16, 38578), (17, 38581), (18, 38584), (19, 38602), (20, 38632), (22, 38668), (23, 38686), (24, 38692), (25, 38695),

Gene: Ramsey_55 Start: 39112, Stop: 39393, Start Num: 10

Candidate Starts for Ramsey_55:

(Start: 10 @39112 has 222 MA's), (11, 39196), (15, 39232), (17, 39244), (18, 39247), (19, 39265), (20, 39295), (22, 39331), (24, 39355), (25, 39358),

Gene: RedBird_52 Start: 37565, Stop: 37846, Start Num: 10

Candidate Starts for RedBird_52:

(Start: 10 @37565 has 222 MA's), (11, 37649), (13, 37667), (14, 37676), (16, 37694), (17, 37697), (18, 37700), (19, 37718), (20, 37748), (22, 37784), (24, 37808), (25, 37811),

Gene: Renaud18_60 Start: 39002, Stop: 39283, Start Num: 10

Candidate Starts for Renaud18_60:

(Start: 10 @39002 has 222 MA's), (11, 39086), (13, 39104), (16, 39131), (17, 39134), (18, 39137), (19, 39155), (20, 39185), (22, 39221), (24, 39245), (25, 39248),

Gene: Rialto_60 Start: 41034, Stop: 41315, Start Num: 10

Candidate Starts for Rialto_60:

(Start: 10 @41034 has 222 MA's), (11, 41118), (13, 41136), (17, 41166), (18, 41169), (19, 41187), (22, 41253), (24, 41277),

Gene: Rita_56 Start: 37058, Stop: 37336, Start Num: 10

Candidate Starts for Rita_56:

(Start: 10 @37058 has 222 MA's), (11, 37142), (12, 37151), (18, 37193), (22, 37274),

Gene: RitaG_50 Start: 36961, Stop: 37239, Start Num: 10

Candidate Starts for RitaG_50:

(Start: 10 @36961 has 222 MA's), (11, 37045), (12, 37054), (18, 37096), (22, 37177), (23, 37195), (24, 37201), (25, 37204),

Gene: Rockne_56 Start: 38967, Stop: 39245, Start Num: 10

Candidate Starts for Rockne_56:

(Start: 10 @38967 has 222 MA's), (11, 39051), (12, 39060), (18, 39102), (22, 39183), (23, 39201), (24, 39207), (25, 39210),

Gene: RockyHorror_55 Start: 37836, Stop: 38114, Start Num: 10

Candidate Starts for RockyHorror_55:

(9, 37776), (Start: 10 @37836 has 222 MA's), (11, 37920), (12, 37929), (18, 37971), (22, 38052), (24, 38076),

Gene: Royals2015_57 Start: 38172, Stop: 38453, Start Num: 10

Candidate Starts for Royals2015_57:

(Start: 10 @38172 has 222 MA's), (11, 38256), (13, 38274), (17, 38304), (18, 38307), (19, 38325), (22, 38391), (24, 38415),

Gene: Ruby_51 Start: 38142, Stop: 38426, Start Num: 10

Candidate Starts for Ruby_51:

(Start: 10 @38142 has 222 MA's), (11, 38226), (12, 38235), (13, 38244), (17, 38274), (18, 38277), (19, 38295), (20, 38325), (21, 38349), (22, 38361),

Gene: SG4_52 Start: 37842, Stop: 38123, Start Num: 10

Candidate Starts for SG4_52:

(Start: 10 @37842 has 222 MA's), (11, 37926), (13, 37944), (16, 37971), (17, 37974), (18, 37977), (19, 37995), (20, 38025), (22, 38061), (24, 38085), (25, 38088),

Gene: Saal_57 Start: 39601, Stop: 39879, Start Num: 10

Candidate Starts for Saal_57:

(Start: 10 @39601 has 222 MA's), (11, 39685), (12, 39694), (18, 39736), (22, 39817),

Gene: Sabbb_59 Start: 39286, Stop: 39567, Start Num: 10

Candidate Starts for Sabbb_59:

(Start: 10 @39286 has 222 MA's), (11, 39370), (13, 39388), (16, 39415), (17, 39418), (18, 39421), (19, 39439), (20, 39469), (22, 39505),

Gene: Sandalphon_56 Start: 39056, Stop: 39337, Start Num: 10

Candidate Starts for Sandalphon_56:

(Start: 10 @39056 has 222 MA's), (11, 39140), (13, 39158), (16, 39185), (17, 39188), (18, 39191), (19, 39209), (20, 39239), (22, 39275), (24, 39299), (25, 39302),

Gene: Sarma624_53 Start: 34536, Stop: 34817, Start Num: 10

Candidate Starts for Sarma624_53:

(Start: 10 @34536 has 222 MA's), (11, 34620), (13, 34638), (17, 34668), (18, 34671), (19, 34689), (21, 34743), (22, 34755), (24, 34779),

Gene: Sassafras_53 Start: 37930, Stop: 38211, Start Num: 10

Candidate Starts for Sassafras_53:

(Start: 10 @37930 has 222 MA's), (11, 38014), (13, 38032), (17, 38062), (18, 38065), (19, 38083), (20, 38113), (22, 38149), (24, 38173), (25, 38176),

Gene: SassyB_49 Start: 36990, Stop: 37271, Start Num: 10

Candidate Starts for SassyB_49:

(Start: 10 @36990 has 222 MA's), (11, 37074), (13, 37092), (17, 37122), (18, 37125), (19, 37143), (22, 37209), (24, 37233), (25, 37236),

Gene: Scottish_53 Start: 37973, Stop: 38251, Start Num: 10

Candidate Starts for Scottish_53:

(Start: 10 @37973 has 222 MA's), (11, 38057), (12, 38066), (18, 38108), (22, 38189), (23, 38207), (24, 38213), (25, 38216),

Gene: Seabastian_60 Start: 40946, Stop: 41224, Start Num: 10
Candidate Starts for Seabastian_60:
(Start: 10 @40946 has 222 MA's), (11, 41030), (12, 41039), (18, 41081), (22, 41162), (24, 41186),

Gene: Seagreen_55 Start: 37934, Stop: 38215, Start Num: 10
Candidate Starts for Seagreen_55:
(Start: 10 @37934 has 222 MA's), (11, 38018), (13, 38036), (17, 38066), (18, 38069), (19, 38087), (21, 38141), (22, 38153), (24, 38177),

Gene: Shauna1_54 Start: 39045, Stop: 39326, Start Num: 10
Candidate Starts for Shauna1_54:
(Start: 10 @39045 has 222 MA's), (11, 39129), (13, 39147), (17, 39177), (18, 39180), (19, 39198), (20, 39228), (22, 39264), (24, 39288), (25, 39291),

Gene: ShiLan_54 Start: 38374, Stop: 38652, Start Num: 10
Candidate Starts for ShiLan_54:
(Start: 10 @38374 has 222 MA's), (11, 38458), (12, 38467), (18, 38509), (22, 38590),

Gene: ShowerHandel_58 Start: 38341, Stop: 38619, Start Num: 10
Candidate Starts for ShowerHandel_58:
(Start: 10 @38341 has 222 MA's), (11, 38425), (12, 38434), (18, 38476), (22, 38557),

Gene: ShroomBoi_57 Start: 39298, Stop: 39579, Start Num: 10
Candidate Starts for ShroomBoi_57:
(Start: 10 @39298 has 222 MA's), (11, 39382), (13, 39400), (15, 39418), (16, 39427), (17, 39430), (18, 39433), (19, 39451), (22, 39517),

Gene: SiSi_53 Start: 37744, Stop: 38025, Start Num: 10
Candidate Starts for SiSi_53:
(Start: 10 @37744 has 222 MA's), (11, 37828), (13, 37846), (14, 37855), (15, 37864), (17, 37876), (18, 37879), (19, 37897), (20, 37927), (22, 37963), (24, 37987), (25, 37990),

Gene: SimranZ1_55 Start: 38527, Stop: 38805, Start Num: 10
Candidate Starts for SimranZ1_55:
(Start: 10 @38527 has 222 MA's), (11, 38611), (12, 38620), (18, 38662), (22, 38743), (24, 38767),

Gene: Soul22_59 Start: 39314, Stop: 39595, Start Num: 10
Candidate Starts for Soul22_59:
(Start: 10 @39314 has 222 MA's), (11, 39398), (13, 39416), (16, 39443), (17, 39446), (18, 39449), (19, 39467), (22, 39533), (25, 39560),

Gene: Sparkdehlily_63 Start: 40056, Stop: 40337, Start Num: 10
Candidate Starts for Sparkdehlily_63:
(1, 39894), (5, 39930), (Start: 10 @40056 has 222 MA's), (11, 40140), (13, 40158), (16, 40185), (17, 40188), (18, 40191), (19, 40209), (20, 40239), (22, 40275), (24, 40299), (25, 40302),

Gene: Spartacus_57 Start: 39008, Stop: 39289, Start Num: 10
Candidate Starts for Spartacus_57:
(Start: 10 @39008 has 222 MA's), (11, 39092), (13, 39110), (16, 39137), (17, 39140), (18, 39143), (19, 39161), (20, 39191), (22, 39227), (24, 39251), (25, 39254),

Gene: Spikelee_62 Start: 40628, Stop: 40909, Start Num: 10

Candidate Starts for Spikelee_62:

(Start: 10 @40628 has 222 MA's), (11, 40712), (13, 40730), (16, 40757), (17, 40760), (18, 40763), (19, 40781), (20, 40811), (22, 40847), (24, 40871), (25, 40874),

Gene: Spoonbill_52 Start: 36918, Stop: 37199, Start Num: 10

Candidate Starts for Spoonbill_52:

(Start: 10 @36918 has 222 MA's), (11, 37002), (13, 37020), (16, 37047), (17, 37050), (18, 37053), (19, 37071), (20, 37101), (22, 37137), (23, 37155), (24, 37161), (25, 37164),

Gene: Squirty_58 Start: 39817, Stop: 40098, Start Num: 10

Candidate Starts for Squirty_58:

(Start: 10 @39817 has 222 MA's), (11, 39901), (13, 39919), (15, 39937), (16, 39946), (17, 39949), (18, 39952), (19, 39970), (20, 40000), (22, 40036), (24, 40060), (25, 40063),

Gene: StAnnes_54 Start: 39223, Stop: 39504, Start Num: 10

Candidate Starts for StAnnes_54:

(Start: 10 @39223 has 222 MA's), (11, 39307), (13, 39325), (16, 39352), (17, 39355), (18, 39358), (19, 39376), (20, 39406), (22, 39442), (24, 39466), (25, 39469),

Gene: Stap_53 Start: 37719, Stop: 38000, Start Num: 10

Candidate Starts for Stap_53:

(Start: 10 @37719 has 222 MA's), (11, 37803), (13, 37821), (16, 37848), (17, 37851), (18, 37854), (19, 37872), (20, 37902), (22, 37938), (24, 37962), (25, 37965),

Gene: Starcevich_54 Start: 38298, Stop: 38576, Start Num: 10

Candidate Starts for Starcevich_54:

(Start: 10 @38298 has 222 MA's), (11, 38382), (12, 38391), (18, 38433), (22, 38514),

Gene: Strokeseat_51 Start: 36454, Stop: 36735, Start Num: 10

Candidate Starts for Strokeseat_51:

(Start: 10 @36454 has 222 MA's), (11, 36538), (13, 36556), (17, 36586), (18, 36589), (19, 36607), (20, 36637), (22, 36673),

Gene: SuperGrey_59 Start: 40531, Stop: 40812, Start Num: 10

Candidate Starts for SuperGrey_59:

(Start: 10 @40531 has 222 MA's), (11, 40615), (13, 40633), (16, 40660), (17, 40663), (18, 40666), (19, 40684), (22, 40750), (24, 40774), (25, 40777),

Gene: SwagPiggett_60 Start: 40646, Stop: 40927, Start Num: 10

Candidate Starts for SwagPiggett_60:

(Start: 10 @40646 has 222 MA's), (11, 40730), (13, 40748), (14, 40757), (15, 40766), (17, 40778), (18, 40781), (19, 40799), (20, 40829), (21, 40853), (22, 40865),

Gene: TChen_55 Start: 39544, Stop: 39825, Start Num: 10

Candidate Starts for TChen_55:

(Start: 10 @39544 has 222 MA's), (11, 39628), (13, 39646), (14, 39655), (15, 39664), (17, 39676), (19, 39697), (22, 39763), (24, 39787),

Gene: TDanisky_63 Start: 40056, Stop: 40337, Start Num: 10

Candidate Starts for TDanisky_63:

(1, 39894), (5, 39930), (Start: 10 @40056 has 222 MA's), (11, 40140), (13, 40158), (16, 40185), (17, 40188), (18, 40191), (19, 40209), (20, 40239), (22, 40275), (24, 40299), (25, 40302),

Gene: Taj_59 Start: 40104, Stop: 40385, Start Num: 10

Candidate Starts for Taj_59:

(Start: 10 @40104 has 222 MA's), (11, 40188), (13, 40206), (16, 40233), (17, 40236), (18, 40239), (19, 40257), (20, 40287), (22, 40323), (25, 40350),

Gene: ThetaBob_58 Start: 38692, Stop: 38973, Start Num: 10

Candidate Starts for ThetaBob_58:

(Start: 10 @38692 has 222 MA's), (11, 38776), (13, 38794), (15, 38812), (16, 38821), (17, 38824), (18, 38827), (19, 38845), (22, 38911), (25, 38938),

Gene: Tootsieroll_56 Start: 37667, Stop: 37948, Start Num: 10

Candidate Starts for Tootsieroll_56:

(Start: 10 @37667 has 222 MA's), (11, 37751), (15, 37787), (17, 37799), (18, 37802), (19, 37820), (20, 37850), (22, 37886), (24, 37910), (25, 37913),

Gene: Totinger_54 Start: 37597, Stop: 37878, Start Num: 10

Candidate Starts for Totinger_54:

(Start: 10 @37597 has 222 MA's), (11, 37681), (13, 37699), (15, 37717), (16, 37726), (17, 37729), (18, 37732), (19, 37750), (22, 37816),

Gene: Tweety_55 Start: 39847, Stop: 40128, Start Num: 10

Candidate Starts for Tweety_55:

(Start: 10 @39847 has 222 MA's), (11, 39931), (13, 39949), (16, 39976), (17, 39979), (18, 39982), (19, 40000), (20, 40030), (22, 40066), (25, 40093),

Gene: UncleRicky_54 Start: 38581, Stop: 38859, Start Num: 10

Candidate Starts for UncleRicky_54:

(Start: 10 @38581 has 222 MA's), (11, 38665), (12, 38674), (18, 38716), (22, 38797),

Gene: VRedHorse_54 Start: 37460, Stop: 37741, Start Num: 10

Candidate Starts for VRedHorse_54:

(Start: 10 @37460 has 222 MA's), (11, 37544), (13, 37562), (17, 37592), (19, 37613), (22, 37679),

Gene: Velveteen_50 Start: 34536, Stop: 34817, Start Num: 10

Candidate Starts for Velveteen_50:

(Start: 10 @34536 has 222 MA's), (11, 34620), (13, 34638), (17, 34668), (18, 34671), (19, 34689), (21, 34743), (22, 34755), (24, 34779),

Gene: Veteran_52 Start: 37433, Stop: 37714, Start Num: 10

Candidate Starts for Veteran_52:

(Start: 10 @37433 has 222 MA's), (11, 37517), (13, 37535), (16, 37562), (17, 37565), (18, 37568), (19, 37586), (20, 37616), (22, 37652), (24, 37676), (25, 37679),

Gene: Wachhund_57 Start: 38647, Stop: 38928, Start Num: 10

Candidate Starts for Wachhund_57:

(Start: 10 @38647 has 222 MA's), (11, 38731), (13, 38749), (16, 38776), (17, 38779), (18, 38782), (19, 38800), (20, 38830), (22, 38866), (24, 38890), (25, 38893),

Gene: Wee_58 Start: 40173, Stop: 40454, Start Num: 10

Candidate Starts for Wee_58:

(Start: 10 @40173 has 222 MA's), (11, 40257), (13, 40275), (16, 40302), (17, 40305), (18, 40308), (19, 40326), (20, 40356), (22, 40392), (25, 40419),

Gene: Whatsapiecost_56 Start: 37931, Stop: 38212, Start Num: 10

Candidate Starts for Whatsapiecost_56:

(Start: 10 @37931 has 222 MA's), (11, 38015), (13, 38033), (16, 38060), (17, 38063), (18, 38066), (19, 38084), (20, 38114), (22, 38150), (24, 38174), (25, 38177),

Gene: Whouxphf_52 Start: 38250, Stop: 38531, Start Num: 10

Candidate Starts for Whouxphf_52:

(Start: 10 @38250 has 222 MA's), (11, 38334), (13, 38352), (17, 38382), (18, 38385), (19, 38403), (20, 38433), (21, 38457), (22, 38469), (23, 38487), (24, 38493), (25, 38496),

Gene: WillSterrel_56 Start: 40124, Stop: 40405, Start Num: 10

Candidate Starts for WillSterrel_56:

(Start: 10 @40124 has 222 MA's), (11, 40208), (13, 40226), (16, 40253), (17, 40256), (18, 40259), (19, 40277), (20, 40307), (22, 40343), (24, 40367), (25, 40370),

Gene: XFactor_53 Start: 37556, Stop: 37837, Start Num: 10

Candidate Starts for XFactor_53:

(Start: 10 @37556 has 222 MA's), (11, 37640), (14, 37667), (15, 37676), (16, 37685), (17, 37688), (18, 37691), (19, 37709), (20, 37739), (22, 37775), (24, 37799), (25, 37802),

Gene: Yorick_54 Start: 38715, Stop: 38993, Start Num: 10

Candidate Starts for Yorick_54:

(Start: 10 @38715 has 222 MA's), (11, 38799), (12, 38808), (18, 38850), (22, 38931),

Gene: Yoshi_66 Start: 39702, Stop: 39983, Start Num: 10

Candidate Starts for Yoshi_66:

(Start: 10 @39702 has 222 MA's), (11, 39786), (13, 39804), (17, 39834), (18, 39837), (19, 39855), (22, 39921), (24, 39945),

Gene: Zapner_68 Start: 40190, Stop: 40489, Start Num: 10

Candidate Starts for Zapner_68:

(Start: 10 @40190 has 222 MA's), (11, 40274), (13, 40292), (17, 40322), (18, 40325), (19, 40343), (22, 40409), (24, 40433), (25, 40436), (26, 40472),

Gene: Zerg_54 Start: 37945, Stop: 38223, Start Num: 10

Candidate Starts for Zerg_54:

(9, 37885), (Start: 10 @37945 has 222 MA's), (11, 38029), (12, 38038), (18, 38080), (22, 38161), (24, 38185),

Gene: Zizzle_59 Start: 39965, Stop: 40246, Start Num: 10

Candidate Starts for Zizzle_59:

(Start: 10 @39965 has 222 MA's), (11, 40049), (13, 40067), (14, 40076), (15, 40085), (17, 40097), (18, 40100), (19, 40118), (20, 40148), (21, 40172), (22, 40184),