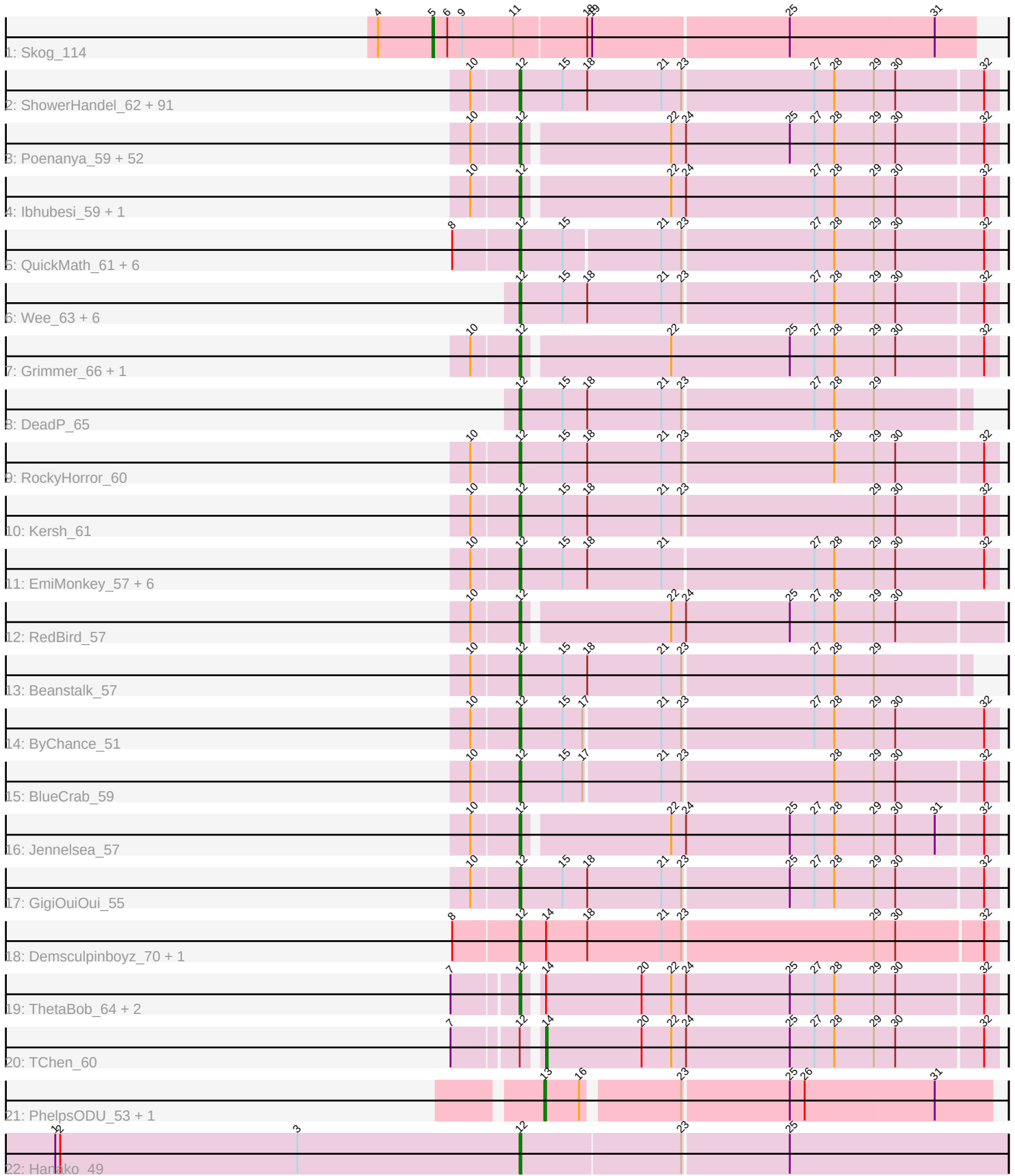


Pham 330509



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 330509 Report

This analysis was run 09/05/26 on database version 662.

Pham number 330509 has 189 members, 12 are drafts.

Phages represented in each track:

- Track 1 : Skog_114
- Track 2 : ShowerHandel_62, Burwell21_57, Zizzle_63, SiSi_57, Phatniss_57, WillSterrel_60, Jarcob_59, Marker_61, Rita_60, Violac_61, Drago_57, Blexus_57, Strokeseat_55, Karhdo_56, Vivum_60, Sabbb_63, Latretium_61, Soul22_65, DirtMcgirt_58, Saal_61, Doug_61, Jabbawokkie_73, Eradicator_52, SwagPiggett_64, Martik_59, OldBen_56, Mova_60, BuzzLyseyear_65, GUmble_57, EleanorGeorge_60, Whouxphf_56, KristaRAM_62, Spartacus_61, Gandolph_62, Madiba_57, Dante_60, Emmaloid_60, Mozy_68, Tootsieroll_60, Yorick_58, Pollywog_60, Byougenkin_57, Chuckly_62, IrishSherpFalk_60, Priscilla_59, Peridot_60, Zapner_72, BobaPhett_63, Alexphander_63, Lij_55, Brocalys_54, Maravista_60, ShiLan_58, Clifton_54, Radiance_58, PMC_56, Hlubikazi_55, Totinger_58, Crumble_54, MadMen_57, Slim_60, James_63, Rialto_65, Zerg_59, Blarby_71, Rockne_60, DaddyRickover_58, Mahavrat_57, Cabrinians_60, Gorge_63, OlympiaSaint_61, NormanBulbieJr_59, Boomer_64, Mattes_63, ShroomBoi_61, Pippy_57, UncleRicky_58, Firehouse51_60, VRedHorse_59, Koella_53, Mandlovu_55, LastJedi_53, Lucia_58, FreddyB_60, Mutaforma13_63, LittleShirley_58, Spikelee_66, Lorde_59, Scottish_57, Lizziana_65, Hades_60, Fancypants_61
- Track 3 : Poenanya_59, Estave1_62, Seabastian_64, Plumbus_61, LilMoolah_57, Phasih_57, Jinglebell_64, Ochi17_62, Cornucopia_61, Sassafras_57, Modragons_63, Leperchaun_51, Leozinho_58, Girr_57, DRBy19_62, OfUltron_64, Oksu_65, Daenerys_53, JoeyJr_54, SimranZ1_59, Spoonbill_56, Llama_64, PHappiness_54, Ruby_55, SeaLumen_63, AlpineSix_64, DosHalletts_61, Stap_57, Nichirin_65, RitaG_54, Empress_57, DillTech15_56, MisterCuddles_57, KingMidas_58, Mwanjiwa_65, Doomslug_68, NewHope4_60, Galactic_58, Job42_61, Pacc40_53, LunaBlu_61, Inventum_54, Nivrat_55, Clank_64, Enzomatic_65, Philus_62, Avani_67, Dorothy_57, Polo2Bam_64, Polka14_57, Doomphist_59, BodEinwohner17_59, Fastidio_59
- Track 4 : Ibhubesj_59, Veteran_56
- Track 5 : QuickMath_61, Kimberlium_62, Cornie_55, Topiatin_67, Starceвич_59, CheesePuff_66, MulchExplorer_62
- Track 6 : Wee_63, CaptainTrips_56, Enby_60, MinionDave_58, Hegedechwinu_59, SG4_56, IbOuu_58
- Track 7 : Grimmer_66, OwlsT2W_59
- Track 8 : DeadP_65
- Track 9 : RockyHorror_60
- Track 10 : Kersh_61

- Track 11 : EmiMonkey_57, Eish_63, KingJulian_59, PatoPoderoso_56, DaWorst_60, PhilipPhlop_59, Corium_56
- Track 12 : RedBird_57
- Track 13 : Beanstalk_57
- Track 14 : ByChance_51
- Track 15 : BlueCrab_59
- Track 16 : Jennelsea_57
- Track 17 : GigiOuiOui_55
- Track 18 : Demsculpinboyz_70, Renaud18_65
- Track 19 : ThetaBob_64, LunaStella_58, Yoshi_72
- Track 20 : TChen_60
- Track 21 : PhelpsODU_53, Unicorn_53
- Track 22 : Hanako_49

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

The start number called the most often in the published annotations is 12, it was called in 173 of the 177 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Alexphander_63, AlpineSix_64, Avani_67, Beanstalk_57, Blarby_71, Blexus_57, BlueCrab_59, BobaPhett_63, BodEinwohner17_59, Boomer_64, Brocalys_54, Burwell21_57, BuzzLyseyear_65, ByChance_51, Byougenkin_57, Cabrinians_60, CaptainTrips_56, CheesePuff_66, Chuckly_62, Clank_64, Clifton_54, Corium_56, Cornie_55, Cornucopia_61, Crumble_54, DRBy19_62, DaWorst_60, DaddyRickover_58, Daenerys_53, Dante_60, DeadP_65, Demsculpinboyz_70, DillTech15_56, DirtMcGirt_58, Doomphist_59, Doomslug_68, Dorothy_57, DosHalletts_61, Doug_61, Drago_57, Eish_63, EleanorGeorge_60, EmiMonkey_57, Emmaloid_60, Empress_57, Enby_60, Enzomatic_65, Eradicator_52, Estave1_62, Fancypants_61, Fastidio_59, Firehouse51_60, FreddyB_60, GUmble_57, Galactic_58, Gandolph_62, GigiOuiOui_55, Girr_57, Gorge_63, Grimmer_66, Hades_60, Hanako_49, Hegedechwinu_59, Hlubikazi_55, IbOuu_58, Ibhubesi_59, Inventum_54, IrishSherpFalk_60, Jabbawokkie_73, James_63, Jacob_59, Jennelsea_57, Jinglebell_64, Job42_61, JoeyJr_54, Karhdo_56, Kersh_61, Kimberlium_62, KingJulian_59, KingMidas_58, Koella_53, KristaRAM_62, LastJedi_53, Latretium_61, Leozinho_58, Leperchaun_51, LilMoolah_57, LittleShirley_58, Lizziana_65, Llama_64, Llij_55, Lorde_59, Lucia_58, LunaBlu_61, LunaStella_58, MadMen_57, Madiba_57, Mahavrat_57, Mandlovu_55, Maravista_60, Marker_61, Martik_59, Mattes_63, MinionDave_58, MisterCuddles_57, Modragons_63, Mova_60, Mozy_68, MulchExplorer_62, Mutaforma13_63, Mwanjiwa_65, NewHope4_60, Nichirin_65, Nivrat_55, NormanBulbieJr_59, Ochi17_62, OfUltron_64, Oksu_65, OldBen_56, OlympiaSaint_61, OwlST2W_59, PHappiness_54, PMC_56, Pacc40_53, PatoPoderoso_56, Peridot_60, Phasih_57, Phatniss_57, Philus_62, PhilipPhlop_59, Pippy_57, Plumbus_61, Poenanya_59, Polka14_57, Pollywog_60, Polo2Bam_64, Priscilla_59, QuickMath_61, Radiance_58, RedBird_57, Renaud18_65, Rialto_65, RitaG_54, Rita_60, Rockne_60, RockyHorror_60, Ruby_55, SG4_56, Saal_61, Sabbbb_63, Sassafras_57, Scottish_57, SeaLumen_63, Seabastian_64, ShiLan_58, ShowerHandel_62, ShroomBoi_61, SiSi_57, SimranZ1_59, Slim_60, Soul22_65, Spartacus_61, Spikelee_66, Spoonbill_56, Stap_57, Starcevich_59, Strokeseat_55,

SwagPigglett_64, ThetaBob_64, Tootsieroll_60, Topiatin_67, Totinger_58, UncleRicky_58, VRedHorse_59, Veteran_56, Violac_61, Vivum_60, Wee_63, Whouxphf_56, WillSterrel_60, Yorick_58, Yoshi_72, Zapner_72, Zerg_59, Zizzle_63,

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

- TChen_60,

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

- PhelpsODU_53, Skog_114, Unicorn_53,

Summary by start number:

Start 5:

- Found in 1 of 189 (0.5%) of genes in pham
- Manual Annotations of this start: 1 of 177
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Skog_114 (DO),

Start 12:

- Found in 186 of 189 (98.4%) of genes in pham
- Manual Annotations of this start: 173 of 177
- Called 99.5% of time when present
- Phage (with cluster) where this start called: Alexphander_63 (F1), AlpineSix_64 (F1), Avani_67 (F2), Beanstalk_57 (F1), Blarby_71 (F), Blexus_57 (F1), BlueCrab_59 (F1), BobaPhett_63 (F1), BodEinwohner17_59 (F1), Boomer_64 (F1), Brocalys_54 (F1), Burwell21_57 (F1), BuzzLyseyear_65 (F1), ByChance_51 (F1), Byougenkin_57 (F1), Cabrinians_60 (F1), CaptainTrips_56 (F1), CheesePuff_66 (F1), Chuckly_62 (F1), Clank_64 (F), Clifton_54 (F1), Corium_56 (F1), Cornie_55 (F5), Cornucopia_61 (F1), Crumble_54 (F1), DRBy19_62 (F1), DaWorst_60 (F1), DaddyRickover_58 (F1), Daenerys_53 (F1), Dante_60 (F1), DeadP_65 (F1), Demsculpinboyz_70 (F2), DillTech15_56 (F1), DirtMcGirt_58 (F1), Doomphist_59 (F1), Doomslug_68 (F), Dorothy_57 (F1), DosHalletts_61 (F1), Doug_61 (F1), Drago_57 (F1), Eish_63 (F1), EleanorGeorge_60 (F1), EmiMonkey_57 (F1), Emmaloid_60 (F1), Empress_57 (F1), Enby_60 (F1), Enzomatic_65 (F1), Eradicator_52 (F1), Estave1_62 (F1), Fancypants_61 (F1), Fastidio_59 (F1), Firehouse51_60 (F1), FreddyB_60 (F1), GUmbie_57 (F1), Galactic_58 (F1), Gandolph_62 (F1), GigiOuiOui_55 (F1), Girr_57 (F1), Gorge_63 (F1), Grimmer_66 (F1), Hades_60 (F1), Hanako_49 (N), Hegedechwinu_59 (F1), Hlubikazi_55 (F1), IbOuu_58 (F1), Ibhubesi_59 (F1), Inventum_54 (F1), IrishSherpFalk_60 (F1), Jabbawokkie_73 (F2), James_63 (F1), Jacob_59 (F1), Jennelsea_57 (F1), Jinglebell_64 (F1), Job42_61 (F1), JoeyJr_54 (F1), Karhdo_56 (F1), Kersh_61 (F1), Kimberlium_62 (F1), KingJulian_59 (F1), KingMidas_58 (F1), Koella_53 (F1), KristaRAM_62 (F1), LastJedi_53 (F1), Latretium_61 (F1), Leozinho_58 (F1), Leperchaun_51 (F1), LilMoolah_57 (F1), LittleShirley_58 (F1), Lizziana_65 (F1), Llama_64 (F1), Llij_55 (F1), Lorde_59 (F1), Lucia_58 (F1), LunaBlu_61 (F1), LunaStella_58 (F4), MadMen_57 (F1), Madiba_57 (F1), Mahavrat_57 (F1), Mandlovu_55 (F1), Maravista_60 (F1), Marker_61 (F1), Martik_59 (F1), Mattes_63 (F1), MinionDave_58 (F1), MisterCuddles_57 (F1), Modragons_63 (F1), Mova_60 (F1), Mozy_68 (F1), MulchExplorer_62 (F1), Mutaforma13_63 (F1), Mwanjiwa_65 (F1), NewHope4_60 (F1), Nichirin_65 (F1), Nivrat_55 (F1), NormanBulbieJr_59 (F1), Ochi17_62 (F1), OfUltron_64 (F1), Oksu_65 (F1), OldBen_56 (F1), OlympiaSaint_61 (F1), OwlsT2W_59 (F1), PHappiness_54 (F1), PMC_56 (F1), Pacc40_53 (F1), PatoPoderoso_56 (F1), Peridot_60 (F1), Phasih_57 (F1), Phatniss_57 (F1), Philus_62 (F1), PhilipPhlop_59 (F1), Pippy_57

(F1), Plumbus_61 (F1), Poenanya_59 (F1), Polka14_57 (F1), Pollywog_60 (F1), Polo2Bam_64 (F1), Priscilla_59 (F1), QuickMath_61 (F1), Radiance_58 (F1), RedBird_57 (F1), Renaud18_65 (F4), Rialto_65 (F1), RitaG_54 (F1), Rita_60 (F1), Rockne_60 (F1), RockyHorror_60 (F1), Ruby_55 (F1), SG4_56 (F1), Saal_61 (F1), Sabbb_63 (F1), Sassafras_57 (F1), Scottish_57 (F1), SeaLumen_63 (F1), Seabastian_64 (F1), ShiLan_58 (F1), ShowerHandel_62 (F1), ShroomBoi_61 (F1), SiSi_57 (F1), SimranZ1_59 (F1), Slim_60 (F1), Soul22_65 (F2), Spartacus_61 (F1), Spikelee_66 (F1), Spoonbill_56 (F1), Stap_57 (F1), Starceovich_59 (F1), Strokeseat_55 (F1), SwagPigglett_64 (F1), ThetaBob_64 (F4), Tootsieroll_60 (F1), Topiatin_67 (F1), Totinger_58 (F1), UncleRicky_58 (F1), VRedHorse_59 (F1), Veteran_56 (F1), Violac_61 (F1), Vivum_60 (F1), Wee_63 (F1), Whouxphf_56 (F1), WillSterrel_60 (F1), Yorick_58 (F1), Yoshi_72 (F2), Zapner_72 (F2), Zerg_59 (F1), Zizzle_63 (F1),

Start 13:

- Found in 2 of 189 (1.1%) of genes in pham
- Manual Annotations of this start: 2 of 177
- Called 100.0% of time when present
- Phage (with cluster) where this start called: PhelpsODU_53 (K6), Unicorn_53 (K6),

Start 14:

- Found in 6 of 189 (3.2%) of genes in pham
- Manual Annotations of this start: 1 of 177
- Called 16.7% of time when present
- Phage (with cluster) where this start called: TChen_60 (F4),

Summary by clusters:

There are 8 clusters represented in this pham: F1, F2, F4, F5, DO, F, N, K6,

Info for manual annotations of cluster DO:

- Start number 5 was manually annotated 1 time for cluster DO.

Info for manual annotations of cluster F1:

- Start number 12 was manually annotated 162 times for cluster F1.

Info for manual annotations of cluster F2:

- Start number 12 was manually annotated 6 times for cluster F2.

Info for manual annotations of cluster F4:

- Start number 12 was manually annotated 3 times for cluster F4.
- Start number 14 was manually annotated 1 time for cluster F4.

Info for manual annotations of cluster F5:

- Start number 12 was manually annotated 1 time for cluster F5.

Info for manual annotations of cluster K6:

- Start number 13 was manually annotated 2 times for cluster K6.

Info for manual annotations of cluster N:

- Start number 12 was manually annotated 1 time for cluster N.

Gene Information:

Gene: Alexphander_63 Start: 40422, Stop: 40706, Start Num: 12

Candidate Starts for Alexphander_63:

(10, 40395), (Start: 12 @40422 has 173 MA's), (15, 40446), (18, 40461), (21, 40506), (23, 40518), (27, 40596), (28, 40608), (29, 40632), (30, 40644), (32, 40698),

Gene: AlpineSix_64 Start: 42541, Stop: 42819, Start Num: 12

Candidate Starts for AlpineSix_64:

(10, 42514), (Start: 12 @42541 has 173 MA's), (22, 42625), (24, 42634), (25, 42697), (27, 42712), (28, 42724), (29, 42748), (30, 42760), (32, 42811),

Gene: Avani_67 Start: 40740, Stop: 41018, Start Num: 12

Candidate Starts for Avani_67:

(10, 40713), (Start: 12 @40740 has 173 MA's), (22, 40824), (24, 40833), (25, 40896), (27, 40911), (28, 40923), (29, 40947), (30, 40959), (32, 41010),

Gene: Beanstalk_57 Start: 38741, Stop: 39007, Start Num: 12

Candidate Starts for Beanstalk_57:

(10, 38714), (Start: 12 @38741 has 173 MA's), (15, 38765), (18, 38780), (21, 38825), (23, 38837), (27, 38915), (28, 38927), (29, 38951),

Gene: Blarby_71 Start: 41835, Stop: 42119, Start Num: 12

Candidate Starts for Blarby_71:

(10, 41808), (Start: 12 @41835 has 173 MA's), (15, 41859), (18, 41874), (21, 41919), (23, 41931), (27, 42009), (28, 42021), (29, 42045), (30, 42057), (32, 42111),

Gene: Blexus_57 Start: 40392, Stop: 40673, Start Num: 12

Candidate Starts for Blexus_57:

(10, 40365), (Start: 12 @40392 has 173 MA's), (15, 40416), (18, 40431), (21, 40476), (23, 40488), (27, 40566), (28, 40578), (29, 40602), (30, 40614), (32, 40665),

Gene: BlueCrab_59 Start: 40700, Stop: 40978, Start Num: 12

Candidate Starts for BlueCrab_59:

(10, 40673), (Start: 12 @40700 has 173 MA's), (15, 40724), (17, 40736), (21, 40781), (23, 40793), (28, 40883), (29, 40907), (30, 40919), (32, 40970),

Gene: BobaPhett_63 Start: 42651, Stop: 42935, Start Num: 12

Candidate Starts for BobaPhett_63:

(10, 42624), (Start: 12 @42651 has 173 MA's), (15, 42675), (18, 42690), (21, 42735), (23, 42747), (27, 42825), (28, 42837), (29, 42861), (30, 42873), (32, 42927),

Gene: BodEinwohner17_59 Start: 39462, Stop: 39740, Start Num: 12

Candidate Starts for BodEinwohner17_59:

(10, 39435), (Start: 12 @39462 has 173 MA's), (22, 39546), (24, 39555), (25, 39618), (27, 39633), (28, 39645), (29, 39669), (30, 39681), (32, 39732),

Gene: Boomer_64 Start: 42326, Stop: 42610, Start Num: 12

Candidate Starts for Boomer_64:

(10, 42299), (Start: 12 @42326 has 173 MA's), (15, 42350), (18, 42365), (21, 42410), (23, 42422), (27, 42500), (28, 42512), (29, 42536), (30, 42548), (32, 42602),

Gene: Brocalys_54 Start: 36836, Stop: 37117, Start Num: 12

Candidate Starts for Brocalys_54:

(10, 36809), (Start: 12 @36836 has 173 MA's), (15, 36860), (18, 36875), (21, 36920), (23, 36932), (27, 37010), (28, 37022), (29, 37046), (30, 37058), (32, 37109),

Gene: Burwell21_57 Start: 39934, Stop: 40218, Start Num: 12

Candidate Starts for Burwell21_57:

(10, 39907), (Start: 12 @39934 has 173 MA's), (15, 39958), (18, 39973), (21, 40018), (23, 40030), (27, 40108), (28, 40120), (29, 40144), (30, 40156), (32, 40210),

Gene: BuzzLyseyear_65 Start: 41358, Stop: 41639, Start Num: 12

Candidate Starts for BuzzLyseyear_65:

(10, 41331), (Start: 12 @41358 has 173 MA's), (15, 41382), (18, 41397), (21, 41442), (23, 41454), (27, 41532), (28, 41544), (29, 41568), (30, 41580), (32, 41631),

Gene: ByChance_51 Start: 35625, Stop: 35906, Start Num: 12

Candidate Starts for ByChance_51:

(10, 35598), (Start: 12 @35625 has 173 MA's), (15, 35649), (17, 35661), (21, 35706), (23, 35718), (27, 35796), (28, 35808), (29, 35832), (30, 35844), (32, 35898),

Gene: Byougenkin_57 Start: 39701, Stop: 39982, Start Num: 12

Candidate Starts for Byougenkin_57:

(10, 39674), (Start: 12 @39701 has 173 MA's), (15, 39725), (18, 39740), (21, 39785), (23, 39797), (27, 39875), (28, 39887), (29, 39911), (30, 39923), (32, 39974),

Gene: Cabrinians_60 Start: 40012, Stop: 40296, Start Num: 12

Candidate Starts for Cabrinians_60:

(10, 39985), (Start: 12 @40012 has 173 MA's), (15, 40036), (18, 40051), (21, 40096), (23, 40108), (27, 40186), (28, 40198), (29, 40222), (30, 40234), (32, 40288),

Gene: CaptainTrips_56 Start: 39508, Stop: 39792, Start Num: 12

Candidate Starts for CaptainTrips_56:

(Start: 12 @39508 has 173 MA's), (15, 39532), (18, 39547), (21, 39592), (23, 39604), (27, 39682), (28, 39694), (29, 39718), (30, 39730), (32, 39784),

Gene: Cheesepuff_66 Start: 41977, Stop: 42255, Start Num: 12

Candidate Starts for Cheesepuff_66:

(8, 41941), (Start: 12 @41977 has 173 MA's), (15, 42001), (21, 42058), (23, 42070), (27, 42148), (28, 42160), (29, 42184), (30, 42196), (32, 42247),

Gene: Chuckly_62 Start: 40654, Stop: 40938, Start Num: 12

Candidate Starts for Chuckly_62:

(10, 40627), (Start: 12 @40654 has 173 MA's), (15, 40678), (18, 40693), (21, 40738), (23, 40750), (27, 40828), (28, 40840), (29, 40864), (30, 40876), (32, 40930),

Gene: Clank_64 Start: 40984, Stop: 41262, Start Num: 12

Candidate Starts for Clank_64:

(10, 40957), (Start: 12 @40984 has 173 MA's), (22, 41068), (24, 41077), (25, 41140), (27, 41155), (28, 41167), (29, 41191), (30, 41203), (32, 41254),

Gene: Clifton_54 Start: 37187, Stop: 37468, Start Num: 12

Candidate Starts for Clifton_54:

(10, 37160), (Start: 12 @37187 has 173 MA's), (15, 37211), (18, 37226), (21, 37271), (23, 37283), (27, 37361), (28, 37373), (29, 37397), (30, 37409), (32, 37460),

Gene: Corium_56 Start: 39051, Stop: 39335, Start Num: 12

Candidate Starts for Corium_56:

(10, 39024), (Start: 12 @39051 has 173 MA's), (15, 39075), (18, 39090), (21, 39135), (27, 39225), (28, 39237), (29, 39261), (30, 39273), (32, 39327),

Gene: Cornie_55 Start: 38439, Stop: 38717, Start Num: 12

Candidate Starts for Cornie_55:

(8, 38403), (Start: 12 @38439 has 173 MA's), (15, 38463), (21, 38520), (23, 38532), (27, 38610), (28, 38622), (29, 38646), (30, 38658), (32, 38709),

Gene: Cornucopia_61 Start: 40668, Stop: 40946, Start Num: 12

Candidate Starts for Cornucopia_61:

(10, 40641), (Start: 12 @40668 has 173 MA's), (22, 40752), (24, 40761), (25, 40824), (27, 40839), (28, 40851), (29, 40875), (30, 40887), (32, 40938),

Gene: Crumble_54 Start: 35948, Stop: 36232, Start Num: 12

Candidate Starts for Crumble_54:

(10, 35921), (Start: 12 @35948 has 173 MA's), (15, 35972), (18, 35987), (21, 36032), (23, 36044), (27, 36122), (28, 36134), (29, 36158), (30, 36170), (32, 36224),

Gene: DRBy19_62 Start: 41112, Stop: 41393, Start Num: 12

Candidate Starts for DRBy19_62:

(10, 41085), (Start: 12 @41112 has 173 MA's), (22, 41196), (24, 41205), (25, 41268), (27, 41283), (28, 41295), (29, 41319), (30, 41331), (32, 41385),

Gene: DaWorst_60 Start: 40413, Stop: 40697, Start Num: 12

Candidate Starts for DaWorst_60:

(10, 40386), (Start: 12 @40413 has 173 MA's), (15, 40437), (18, 40452), (21, 40497), (27, 40587), (28, 40599), (29, 40623), (30, 40635), (32, 40689),

Gene: DaddyRickover_58 Start: 40151, Stop: 40435, Start Num: 12

Candidate Starts for DaddyRickover_58:

(10, 40124), (Start: 12 @40151 has 173 MA's), (15, 40175), (18, 40190), (21, 40235), (23, 40247), (27, 40325), (28, 40337), (29, 40361), (30, 40373), (32, 40427),

Gene: Daenerys_53 Start: 38267, Stop: 38545, Start Num: 12

Candidate Starts for Daenerys_53:

(10, 38240), (Start: 12 @38267 has 173 MA's), (22, 38351), (24, 38360), (25, 38423), (27, 38438), (28, 38450), (29, 38474), (30, 38486), (32, 38537),

Gene: Dante_60 Start: 39936, Stop: 40220, Start Num: 12

Candidate Starts for Dante_60:

(10, 39909), (Start: 12 @39936 has 173 MA's), (15, 39960), (18, 39975), (21, 40020), (23, 40032), (27, 40110), (28, 40122), (29, 40146), (30, 40158), (32, 40212),

Gene: DeadP_65 Start: 42582, Stop: 42848, Start Num: 12

Candidate Starts for DeadP_65:

(Start: 12 @42582 has 173 MA's), (15, 42606), (18, 42621), (21, 42666), (23, 42678), (27, 42756), (28, 42768), (29, 42792),

Gene: Demsculpinboyz_70 Start: 39936, Stop: 40217, Start Num: 12

Candidate Starts for Demsculpinboyz_70:

(8, 39900), (Start: 12 @39936 has 173 MA's), (Start: 14 @39951 has 1 MA's), (18, 39975), (21, 40020), (23, 40032), (29, 40146), (30, 40158), (32, 40209),

Gene: DillTech15_56 Start: 38601, Stop: 38879, Start Num: 12

Candidate Starts for DillTech15_56:

(10, 38574), (Start: 12 @38601 has 173 MA's), (22, 38685), (24, 38694), (25, 38757), (27, 38772), (28, 38784), (29, 38808), (30, 38820), (32, 38871),

Gene: DirtMcgirt_58 Start: 38676, Stop: 38960, Start Num: 12

Candidate Starts for DirtMcgirt_58:

(10, 38649), (Start: 12 @38676 has 173 MA's), (15, 38700), (18, 38715), (21, 38760), (23, 38772), (27, 38850), (28, 38862), (29, 38886), (30, 38898), (32, 38952),

Gene: Doomphist_59 Start: 41112, Stop: 41390, Start Num: 12

Candidate Starts for Doomphist_59:

(10, 41085), (Start: 12 @41112 has 173 MA's), (22, 41196), (24, 41205), (25, 41268), (27, 41283), (28, 41295), (29, 41319), (30, 41331), (32, 41382),

Gene: Doomslug_68 Start: 40532, Stop: 40810, Start Num: 12

Candidate Starts for Doomslug_68:

(10, 40505), (Start: 12 @40532 has 173 MA's), (22, 40616), (24, 40625), (25, 40688), (27, 40703), (28, 40715), (29, 40739), (30, 40751), (32, 40802),

Gene: Dorothy_57 Start: 39331, Stop: 39609, Start Num: 12

Candidate Starts for Dorothy_57:

(10, 39304), (Start: 12 @39331 has 173 MA's), (22, 39415), (24, 39424), (25, 39487), (27, 39502), (28, 39514), (29, 39538), (30, 39550), (32, 39601),

Gene: DosHalletts_61 Start: 41467, Stop: 41745, Start Num: 12

Candidate Starts for DosHalletts_61:

(10, 41440), (Start: 12 @41467 has 173 MA's), (22, 41551), (24, 41560), (25, 41623), (27, 41638), (28, 41650), (29, 41674), (30, 41686), (32, 41737),

Gene: Doug_61 Start: 40679, Stop: 40963, Start Num: 12

Candidate Starts for Doug_61:

(10, 40652), (Start: 12 @40679 has 173 MA's), (15, 40703), (18, 40718), (21, 40763), (23, 40775), (27, 40853), (28, 40865), (29, 40889), (30, 40901), (32, 40955),

Gene: Drago_57 Start: 38679, Stop: 38963, Start Num: 12

Candidate Starts for Drago_57:

(10, 38652), (Start: 12 @38679 has 173 MA's), (15, 38703), (18, 38718), (21, 38763), (23, 38775), (27, 38853), (28, 38865), (29, 38889), (30, 38901), (32, 38955),

Gene: Eish_63 Start: 40928, Stop: 41212, Start Num: 12

Candidate Starts for Eish_63:

(10, 40901), (Start: 12 @40928 has 173 MA's), (15, 40952), (18, 40967), (21, 41012), (27, 41102), (28, 41114), (29, 41138), (30, 41150), (32, 41204),

Gene: EleanorGeorge_60 Start: 40795, Stop: 41076, Start Num: 12

Candidate Starts for EleanorGeorge_60:

(10, 40768), (Start: 12 @40795 has 173 MA's), (15, 40819), (18, 40834), (21, 40879), (23, 40891), (27, 40969), (28, 40981), (29, 41005), (30, 41017), (32, 41068),

Gene: EmiMonkey_57 Start: 41642, Stop: 41926, Start Num: 12

Candidate Starts for EmiMonkey_57:

(10, 41615), (Start: 12 @41642 has 173 MA's), (15, 41666), (18, 41681), (21, 41726), (27, 41816), (28, 41828), (29, 41852), (30, 41864), (32, 41918),

Gene: Emmaloid_60 Start: 40738, Stop: 41022, Start Num: 12

Candidate Starts for Emmaloid_60:

(10, 40711), (Start: 12 @40738 has 173 MA's), (15, 40762), (18, 40777), (21, 40822), (23, 40834), (27, 40912), (28, 40924), (29, 40948), (30, 40960), (32, 41014),

Gene: Empress_57 Start: 39681, Stop: 39959, Start Num: 12

Candidate Starts for Empress_57:

(10, 39654), (Start: 12 @39681 has 173 MA's), (22, 39765), (24, 39774), (25, 39837), (27, 39852), (28, 39864), (29, 39888), (30, 39900), (32, 39951),

Gene: Enby_60 Start: 38955, Stop: 39239, Start Num: 12

Candidate Starts for Enby_60:

(Start: 12 @38955 has 173 MA's), (15, 38979), (18, 38994), (21, 39039), (23, 39051), (27, 39129), (28, 39141), (29, 39165), (30, 39177), (32, 39231),

Gene: Enzomatic_65 Start: 39785, Stop: 40063, Start Num: 12

Candidate Starts for Enzomatic_65:

(10, 39758), (Start: 12 @39785 has 173 MA's), (22, 39869), (24, 39878), (25, 39941), (27, 39956), (28, 39968), (29, 39992), (30, 40004), (32, 40055),

Gene: Eradicator_52 Start: 38208, Stop: 38489, Start Num: 12

Candidate Starts for Eradicator_52:

(10, 38181), (Start: 12 @38208 has 173 MA's), (15, 38232), (18, 38247), (21, 38292), (23, 38304), (27, 38382), (28, 38394), (29, 38418), (30, 38430), (32, 38481),

Gene: Estave1_62 Start: 41132, Stop: 41410, Start Num: 12

Candidate Starts for Estave1_62:

(10, 41105), (Start: 12 @41132 has 173 MA's), (22, 41216), (24, 41225), (25, 41288), (27, 41303), (28, 41315), (29, 41339), (30, 41351), (32, 41402),

Gene: Fancypants_61 Start: 40646, Stop: 40930, Start Num: 12

Candidate Starts for Fancypants_61:

(10, 40619), (Start: 12 @40646 has 173 MA's), (15, 40670), (18, 40685), (21, 40730), (23, 40742), (27, 40820), (28, 40832), (29, 40856), (30, 40868), (32, 40922),

Gene: Fastidio_59 Start: 38748, Stop: 39026, Start Num: 12

Candidate Starts for Fastidio_59:

(10, 38721), (Start: 12 @38748 has 173 MA's), (22, 38832), (24, 38841), (25, 38904), (27, 38919), (28, 38931), (29, 38955), (30, 38967), (32, 39018),

Gene: Firehouse51_60 Start: 43530, Stop: 43814, Start Num: 12

Candidate Starts for Firehouse51_60:

(10, 43503), (Start: 12 @43530 has 173 MA's), (15, 43554), (18, 43569), (21, 43614), (23, 43626), (27, 43704), (28, 43716), (29, 43740), (30, 43752), (32, 43806),

Gene: FreddyB_60 Start: 38860, Stop: 39141, Start Num: 12

Candidate Starts for FreddyB_60:

(10, 38833), (Start: 12 @38860 has 173 MA's), (15, 38884), (18, 38899), (21, 38944), (23, 38956), (27, 39034), (28, 39046), (29, 39070), (30, 39082), (32, 39133),

Gene: GUmbie_57 Start: 39435, Stop: 39716, Start Num: 12

Candidate Starts for GUmbie_57:

(10, 39408), (Start: 12 @39435 has 173 MA's), (15, 39459), (18, 39474), (21, 39519), (23, 39531), (27, 39609), (28, 39621), (29, 39645), (30, 39657), (32, 39708),

Gene: Galactic_58 Start: 39901, Stop: 40179, Start Num: 12

Candidate Starts for Galactic_58:

(10, 39874), (Start: 12 @39901 has 173 MA's), (22, 39985), (24, 39994), (25, 40057), (27, 40072), (28, 40084), (29, 40108), (30, 40120), (32, 40171),

Gene: Gandalph_62 Start: 40257, Stop: 40538, Start Num: 12

Candidate Starts for Gandalph_62:

(10, 40230), (Start: 12 @40257 has 173 MA's), (15, 40281), (18, 40296), (21, 40341), (23, 40353), (27, 40431), (28, 40443), (29, 40467), (30, 40479), (32, 40530),

Gene: GigiOuiOui_55 Start: 38875, Stop: 39156, Start Num: 12

Candidate Starts for GigiOuiOui_55:

(10, 38848), (Start: 12 @38875 has 173 MA's), (15, 38899), (18, 38914), (21, 38959), (23, 38971), (25, 39034), (27, 39049), (28, 39061), (29, 39085), (30, 39097), (32, 39148),

Gene: Girr_57 Start: 39742, Stop: 40020, Start Num: 12

Candidate Starts for Girr_57:

(10, 39715), (Start: 12 @39742 has 173 MA's), (22, 39826), (24, 39835), (25, 39898), (27, 39913), (28, 39925), (29, 39949), (30, 39961), (32, 40012),

Gene: Gorge_63 Start: 41377, Stop: 41658, Start Num: 12

Candidate Starts for Gorge_63:

(10, 41350), (Start: 12 @41377 has 173 MA's), (15, 41401), (18, 41416), (21, 41461), (23, 41473), (27, 41551), (28, 41563), (29, 41587), (30, 41599), (32, 41650),

Gene: Grimmer_66 Start: 41537, Stop: 41815, Start Num: 12

Candidate Starts for Grimmer_66:

(10, 41510), (Start: 12 @41537 has 173 MA's), (22, 41621), (25, 41693), (27, 41708), (28, 41720), (29, 41744), (30, 41756), (32, 41807),

Gene: Hades_60 Start: 40833, Stop: 41114, Start Num: 12

Candidate Starts for Hades_60:

(10, 40806), (Start: 12 @40833 has 173 MA's), (15, 40857), (18, 40872), (21, 40917), (23, 40929), (27, 41007), (28, 41019), (29, 41043), (30, 41055), (32, 41106),

Gene: Hanako_49 Start: 32626, Stop: 32916, Start Num: 12

Candidate Starts for Hanako_49:

(1, 32344), (2, 32347), (3, 32491), (Start: 12 @32626 has 173 MA's), (23, 32722), (25, 32785),

Gene: Hegedechwinu_59 Start: 39047, Stop: 39328, Start Num: 12

Candidate Starts for Hegedechwinu_59:

(Start: 12 @39047 has 173 MA's), (15, 39071), (18, 39086), (21, 39131), (23, 39143), (27, 39221), (28, 39233), (29, 39257), (30, 39269), (32, 39320),

Gene: Hlubikazi_55 Start: 38053, Stop: 38334, Start Num: 12

Candidate Starts for Hlubikazi_55:

(10, 38026), (Start: 12 @38053 has 173 MA's), (15, 38077), (18, 38092), (21, 38137), (23, 38149), (27, 38227), (28, 38239), (29, 38263), (30, 38275), (32, 38326),

Gene: IbOuu_58 Start: 40412, Stop: 40696, Start Num: 12

Candidate Starts for IbOuu_58:

(Start: 12 @40412 has 173 MA's), (15, 40436), (18, 40451), (21, 40496), (23, 40508), (27, 40586), (28, 40598), (29, 40622), (30, 40634), (32, 40688),

Gene: Ibhubesi_59 Start: 40025, Stop: 40303, Start Num: 12

Candidate Starts for Ibhubesi_59:

(10, 39998), (Start: 12 @40025 has 173 MA's), (22, 40109), (24, 40118), (27, 40196), (28, 40208), (29, 40232), (30, 40244), (32, 40295),

Gene: Inventum_54 Start: 39529, Stop: 39807, Start Num: 12

Candidate Starts for Inventum_54:

(10, 39502), (Start: 12 @39529 has 173 MA's), (22, 39613), (24, 39622), (25, 39685), (27, 39700), (28, 39712), (29, 39736), (30, 39748), (32, 39799),

Gene: IrishSherpFalk_60 Start: 41690, Stop: 41971, Start Num: 12

Candidate Starts for IrishSherpFalk_60:

(10, 41663), (Start: 12 @41690 has 173 MA's), (15, 41714), (18, 41729), (21, 41774), (23, 41786), (27, 41864), (28, 41876), (29, 41900), (30, 41912), (32, 41963),

Gene: Jabbawokkie_73 Start: 41755, Stop: 42039, Start Num: 12

Candidate Starts for Jabbawokkie_73:

(10, 41728), (Start: 12 @41755 has 173 MA's), (15, 41779), (18, 41794), (21, 41839), (23, 41851), (27, 41929), (28, 41941), (29, 41965), (30, 41977), (32, 42031),

Gene: James_63 Start: 41502, Stop: 41783, Start Num: 12

Candidate Starts for James_63:

(10, 41475), (Start: 12 @41502 has 173 MA's), (15, 41526), (18, 41541), (21, 41586), (23, 41598), (27, 41676), (28, 41688), (29, 41712), (30, 41724), (32, 41775),

Gene: Jacob_59 Start: 39980, Stop: 40264, Start Num: 12

Candidate Starts for Jacob_59:

(10, 39953), (Start: 12 @39980 has 173 MA's), (15, 40004), (18, 40019), (21, 40064), (23, 40076), (27, 40154), (28, 40166), (29, 40190), (30, 40202), (32, 40256),

Gene: Jennelsea_57 Start: 38665, Stop: 38943, Start Num: 12

Candidate Starts for Jennelsea_57:

(10, 38638), (Start: 12 @38665 has 173 MA's), (22, 38749), (24, 38758), (25, 38821), (27, 38836), (28, 38848), (29, 38872), (30, 38884), (31, 38908), (32, 38935),

Gene: Jinglebell_64 Start: 42540, Stop: 42818, Start Num: 12

Candidate Starts for Jinglebell_64:

(10, 42513), (Start: 12 @42540 has 173 MA's), (22, 42624), (24, 42633), (25, 42696), (27, 42711), (28, 42723), (29, 42747), (30, 42759), (32, 42810),

Gene: Job42_61 Start: 41920, Stop: 42201, Start Num: 12

Candidate Starts for Job42_61:

(10, 41893), (Start: 12 @41920 has 173 MA's), (22, 42004), (24, 42013), (25, 42076), (27, 42091), (28, 42103), (29, 42127), (30, 42139), (32, 42193),

Gene: JoeyJr_54 Start: 38435, Stop: 38713, Start Num: 12

Candidate Starts for JoeyJr_54:

(10, 38408), (Start: 12 @38435 has 173 MA's), (22, 38519), (24, 38528), (25, 38591), (27, 38606), (28, 38618), (29, 38642), (30, 38654), (32, 38705),

Gene: Karhdo_56 Start: 39525, Stop: 39809, Start Num: 12

Candidate Starts for Karhdo_56:

(10, 39498), (Start: 12 @39525 has 173 MA's), (15, 39549), (18, 39564), (21, 39609), (23, 39621), (27, 39699), (28, 39711), (29, 39735), (30, 39747), (32, 39801),

Gene: Kersh_61 Start: 42278, Stop: 42559, Start Num: 12

Candidate Starts for Kersh_61:

(10, 42251), (Start: 12 @42278 has 173 MA's), (15, 42302), (18, 42317), (21, 42362), (23, 42374), (29, 42488), (30, 42500), (32, 42551),

Gene: Kimberlium_62 Start: 41811, Stop: 42092, Start Num: 12

Candidate Starts for Kimberlium_62:

(8, 41775), (Start: 12 @41811 has 173 MA's), (15, 41835), (21, 41892), (23, 41904), (27, 41982), (28, 41994), (29, 42018), (30, 42030), (32, 42084),

Gene: KingJulian_59 Start: 39051, Stop: 39335, Start Num: 12

Candidate Starts for KingJulian_59:

(10, 39024), (Start: 12 @39051 has 173 MA's), (15, 39075), (18, 39090), (21, 39135), (27, 39225), (28, 39237), (29, 39261), (30, 39273), (32, 39327),

Gene: KingMidas_58 Start: 40097, Stop: 40375, Start Num: 12

Candidate Starts for KingMidas_58:

(10, 40070), (Start: 12 @40097 has 173 MA's), (22, 40181), (24, 40190), (25, 40253), (27, 40268), (28, 40280), (29, 40304), (30, 40316), (32, 40367),

Gene: Koella_53 Start: 35910, Stop: 36194, Start Num: 12

Candidate Starts for Koella_53:

(10, 35883), (Start: 12 @35910 has 173 MA's), (15, 35934), (18, 35949), (21, 35994), (23, 36006), (27, 36084), (28, 36096), (29, 36120), (30, 36132), (32, 36186),

Gene: KristaRAM_62 Start: 42482, Stop: 42763, Start Num: 12

Candidate Starts for KristaRAM_62:

(10, 42455), (Start: 12 @42482 has 173 MA's), (15, 42506), (18, 42521), (21, 42566), (23, 42578), (27, 42656), (28, 42668), (29, 42692), (30, 42704), (32, 42755),

Gene: LastJedi_53 Start: 37230, Stop: 37511, Start Num: 12

Candidate Starts for LastJedi_53:

(10, 37203), (Start: 12 @37230 has 173 MA's), (15, 37254), (18, 37269), (21, 37314), (23, 37326), (27, 37404), (28, 37416), (29, 37440), (30, 37452), (32, 37503),

Gene: Latretium_61 Start: 40556, Stop: 40837, Start Num: 12

Candidate Starts for Latretium_61:

(10, 40529), (Start: 12 @40556 has 173 MA's), (15, 40580), (18, 40595), (21, 40640), (23, 40652), (27, 40730), (28, 40742), (29, 40766), (30, 40778), (32, 40829),

Gene: Leozinho_58 Start: 39315, Stop: 39593, Start Num: 12

Candidate Starts for Leozinho_58:

(10, 39288), (Start: 12 @39315 has 173 MA's), (22, 39399), (24, 39408), (25, 39471), (27, 39486), (28, 39498), (29, 39522), (30, 39534), (32, 39585),

Gene: Leperchaun_51 Start: 37665, Stop: 37943, Start Num: 12

Candidate Starts for Leperchaun_51:

(10, 37638), (Start: 12 @37665 has 173 MA's), (22, 37749), (24, 37758), (25, 37821), (27, 37836), (28, 37848), (29, 37872), (30, 37884), (32, 37935),

Gene: LilMoolah_57 Start: 39425, Stop: 39706, Start Num: 12

Candidate Starts for LilMoolah_57:

(10, 39398), (Start: 12 @39425 has 173 MA's), (22, 39509), (24, 39518), (25, 39581), (27, 39596), (28, 39608), (29, 39632), (30, 39644), (32, 39698),

Gene: LittleShirley_58 Start: 40469, Stop: 40753, Start Num: 12

Candidate Starts for LittleShirley_58:

(10, 40442), (Start: 12 @40469 has 173 MA's), (15, 40493), (18, 40508), (21, 40553), (23, 40565), (27, 40643), (28, 40655), (29, 40679), (30, 40691), (32, 40745),

Gene: Lizziana_65 Start: 40983, Stop: 41264, Start Num: 12

Candidate Starts for Lizziana_65:

(10, 40956), (Start: 12 @40983 has 173 MA's), (15, 41007), (18, 41022), (21, 41067), (23, 41079), (27, 41157), (28, 41169), (29, 41193), (30, 41205), (32, 41256),

Gene: Llama_64 Start: 42394, Stop: 42672, Start Num: 12

Candidate Starts for Llama_64:

(10, 42367), (Start: 12 @42394 has 173 MA's), (22, 42478), (24, 42487), (25, 42550), (27, 42565), (28, 42577), (29, 42601), (30, 42613), (32, 42664),

Gene: Llij_55 Start: 38833, Stop: 39117, Start Num: 12

Candidate Starts for Llij_55:

(10, 38806), (Start: 12 @38833 has 173 MA's), (15, 38857), (18, 38872), (21, 38917), (23, 38929), (27, 39007), (28, 39019), (29, 39043), (30, 39055), (32, 39109),

Gene: Lorde_59 Start: 38120, Stop: 38404, Start Num: 12

Candidate Starts for Lorde_59:

(10, 38093), (Start: 12 @38120 has 173 MA's), (15, 38144), (18, 38159), (21, 38204), (23, 38216), (27, 38294), (28, 38306), (29, 38330), (30, 38342), (32, 38396),

Gene: Lucia_58 Start: 38977, Stop: 39258, Start Num: 12

Candidate Starts for Lucia_58:

(10, 38950), (Start: 12 @38977 has 173 MA's), (15, 39001), (18, 39016), (21, 39061), (23, 39073), (27, 39151), (28, 39163), (29, 39187), (30, 39199), (32, 39250),

Gene: LunaBlu_61 Start: 40560, Stop: 40838, Start Num: 12

Candidate Starts for LunaBlu_61:

(10, 40533), (Start: 12 @40560 has 173 MA's), (22, 40644), (24, 40653), (25, 40716), (27, 40731), (28, 40743), (29, 40767), (30, 40779), (32, 40830),

Gene: LunaStella_58 Start: 39407, Stop: 39685, Start Num: 12

Candidate Starts for LunaStella_58:

(7, 39371), (Start: 12 @39407 has 173 MA's), (Start: 14 @39416 has 1 MA's), (20, 39473), (22, 39491), (24, 39500), (25, 39563), (27, 39578), (28, 39590), (29, 39614), (30, 39626), (32, 39677),

Gene: MadMen_57 Start: 39757, Stop: 40041, Start Num: 12

Candidate Starts for MadMen_57:

(10, 39730), (Start: 12 @39757 has 173 MA's), (15, 39781), (18, 39796), (21, 39841), (23, 39853), (27, 39931), (28, 39943), (29, 39967), (30, 39979), (32, 40033),

Gene: Madiba_57 Start: 39006, Stop: 39290, Start Num: 12

Candidate Starts for Madiba_57:

(10, 38979), (Start: 12 @39006 has 173 MA's), (15, 39030), (18, 39045), (21, 39090), (23, 39102), (27, 39180), (28, 39192), (29, 39216), (30, 39228), (32, 39282),

Gene: Mahavrat_57 Start: 39385, Stop: 39666, Start Num: 12

Candidate Starts for Mahavrat_57:

(10, 39358), (Start: 12 @39385 has 173 MA's), (15, 39409), (18, 39424), (21, 39469), (23, 39481), (27, 39559), (28, 39571), (29, 39595), (30, 39607), (32, 39658),

Gene: Mandlovu_55 Start: 37995, Stop: 38276, Start Num: 12

Candidate Starts for Mandlovu_55:

(10, 37968), (Start: 12 @37995 has 173 MA's), (15, 38019), (18, 38034), (21, 38079), (23, 38091), (27, 38169), (28, 38181), (29, 38205), (30, 38217), (32, 38268),

Gene: Maravista_60 Start: 41432, Stop: 41713, Start Num: 12

Candidate Starts for Maravista_60:

(10, 41405), (Start: 12 @41432 has 173 MA's), (15, 41456), (18, 41471), (21, 41516), (23, 41528), (27, 41606), (28, 41618), (29, 41642), (30, 41654), (32, 41705),

Gene: Marker_61 Start: 40100, Stop: 40384, Start Num: 12

Candidate Starts for Marker_61:

(10, 40073), (Start: 12 @40100 has 173 MA's), (15, 40124), (18, 40139), (21, 40184), (23, 40196), (27, 40274), (28, 40286), (29, 40310), (30, 40322), (32, 40376),

Gene: Martik_59 Start: 39936, Stop: 40217, Start Num: 12

Candidate Starts for Martik_59:

(10, 39909), (Start: 12 @39936 has 173 MA's), (15, 39960), (18, 39975), (21, 40020), (23, 40032), (27, 40110), (28, 40122), (29, 40146), (30, 40158), (32, 40209),

Gene: Mattes_63 Start: 41502, Stop: 41783, Start Num: 12

Candidate Starts for Mattes_63:

(10, 41475), (Start: 12 @41502 has 173 MA's), (15, 41526), (18, 41541), (21, 41586), (23, 41598), (27, 41676), (28, 41688), (29, 41712), (30, 41724), (32, 41775),

Gene: MinionDave_58 Start: 40283, Stop: 40564, Start Num: 12

Candidate Starts for MinionDave_58:

(Start: 12 @40283 has 173 MA's), (15, 40307), (18, 40322), (21, 40367), (23, 40379), (27, 40457), (28, 40469), (29, 40493), (30, 40505), (32, 40556),

Gene: MisterCuddles_57 Start: 39742, Stop: 40020, Start Num: 12

Candidate Starts for MisterCuddles_57:

(10, 39715), (Start: 12 @39742 has 173 MA's), (22, 39826), (24, 39835), (25, 39898), (27, 39913), (28, 39925), (29, 39949), (30, 39961), (32, 40012),

Gene: Modragons_63 Start: 42384, Stop: 42662, Start Num: 12

Candidate Starts for Modragons_63:

(10, 42357), (Start: 12 @42384 has 173 MA's), (22, 42468), (24, 42477), (25, 42540), (27, 42555), (28, 42567), (29, 42591), (30, 42603), (32, 42654),

Gene: Mova_60 Start: 39510, Stop: 39794, Start Num: 12

Candidate Starts for Mova_60:

(10, 39483), (Start: 12 @39510 has 173 MA's), (15, 39534), (18, 39549), (21, 39594), (23, 39606), (27, 39684), (28, 39696), (29, 39720), (30, 39732), (32, 39786),

Gene: Mozy_68 Start: 42517, Stop: 42798, Start Num: 12

Candidate Starts for Mozy_68:

(10, 42490), (Start: 12 @42517 has 173 MA's), (15, 42541), (18, 42556), (21, 42601), (23, 42613), (27, 42691), (28, 42703), (29, 42727), (30, 42739), (32, 42790),

Gene: MulchExplorer_62 Start: 41810, Stop: 42091, Start Num: 12

Candidate Starts for MulchExplorer_62:

(8, 41774), (Start: 12 @41810 has 173 MA's), (15, 41834), (21, 41891), (23, 41903), (27, 41981), (28, 41993), (29, 42017), (30, 42029), (32, 42083),

Gene: Mutaforma13_63 Start: 42840, Stop: 43124, Start Num: 12

Candidate Starts for Mutaforma13_63:

(10, 42813), (Start: 12 @42840 has 173 MA's), (15, 42864), (18, 42879), (21, 42924), (23, 42936), (27, 43014), (28, 43026), (29, 43050), (30, 43062), (32, 43116),

Gene: Mwanjiwa_65 Start: 40617, Stop: 40895, Start Num: 12

Candidate Starts for Mwanjiwa_65:

(10, 40590), (Start: 12 @40617 has 173 MA's), (22, 40701), (24, 40710), (25, 40773), (27, 40788), (28, 40800), (29, 40824), (30, 40836), (32, 40887),

Gene: NewHope4_60 Start: 39931, Stop: 40209, Start Num: 12

Candidate Starts for NewHope4_60:

(10, 39904), (Start: 12 @39931 has 173 MA's), (22, 40015), (24, 40024), (25, 40087), (27, 40102), (28, 40114), (29, 40138), (30, 40150), (32, 40201),

Gene: Nichirin_65 Start: 43925, Stop: 44203, Start Num: 12

Candidate Starts for Nichirin_65:

(10, 43898), (Start: 12 @43925 has 173 MA's), (22, 44009), (24, 44018), (25, 44081), (27, 44096), (28, 44108), (29, 44132), (30, 44144), (32, 44195),

Gene: Nivrat_55 Start: 39298, Stop: 39579, Start Num: 12

Candidate Starts for Nivrat_55:

(10, 39271), (Start: 12 @39298 has 173 MA's), (22, 39382), (24, 39391), (25, 39454), (27, 39469), (28, 39481), (29, 39505), (30, 39517), (32, 39571),

Gene: NormanBulbieJr_59 Start: 39923, Stop: 40207, Start Num: 12

Candidate Starts for NormanBulbieJr_59:

(10, 39896), (Start: 12 @39923 has 173 MA's), (15, 39947), (18, 39962), (21, 40007), (23, 40019), (27, 40097), (28, 40109), (29, 40133), (30, 40145), (32, 40199),

Gene: Ochi17_62 Start: 41991, Stop: 42269, Start Num: 12

Candidate Starts for Ochi17_62:

(10, 41964), (Start: 12 @41991 has 173 MA's), (22, 42075), (24, 42084), (25, 42147), (27, 42162), (28, 42174), (29, 42198), (30, 42210), (32, 42261),

Gene: OfUltron_64 Start: 42540, Stop: 42818, Start Num: 12

Candidate Starts for OfUltron_64:

(10, 42513), (Start: 12 @42540 has 173 MA's), (22, 42624), (24, 42633), (25, 42696), (27, 42711), (28, 42723), (29, 42747), (30, 42759), (32, 42810),

Gene: Oksu_65 Start: 42803, Stop: 43081, Start Num: 12

Candidate Starts for Oksu_65:

(10, 42776), (Start: 12 @42803 has 173 MA's), (22, 42887), (24, 42896), (25, 42959), (27, 42974), (28, 42986), (29, 43010), (30, 43022), (32, 43073),

Gene: OldBen_56 Start: 39848, Stop: 40132, Start Num: 12

Candidate Starts for OldBen_56:

(10, 39821), (Start: 12 @39848 has 173 MA's), (15, 39872), (18, 39887), (21, 39932), (23, 39944), (27, 40022), (28, 40034), (29, 40058), (30, 40070), (32, 40124),

Gene: OlympiaSaint_61 Start: 40444, Stop: 40725, Start Num: 12

Candidate Starts for OlympiaSaint_61:

(10, 40417), (Start: 12 @40444 has 173 MA's), (15, 40468), (18, 40483), (21, 40528), (23, 40540), (27, 40618), (28, 40630), (29, 40654), (30, 40666), (32, 40717),

Gene: OwlsT2W_59 Start: 40166, Stop: 40444, Start Num: 12

Candidate Starts for OwlsT2W_59:

(10, 40139), (Start: 12 @40166 has 173 MA's), (22, 40250), (25, 40322), (27, 40337), (28, 40349), (29, 40373), (30, 40385), (32, 40436),

Gene: PHappiness_54 Start: 38211, Stop: 38489, Start Num: 12

Candidate Starts for PHappiness_54:

(10, 38184), (Start: 12 @38211 has 173 MA's), (22, 38295), (24, 38304), (25, 38367), (27, 38382), (28, 38394), (29, 38418), (30, 38430), (32, 38481),

Gene: PMC_56 Start: 40550, Stop: 40834, Start Num: 12

Candidate Starts for PMC_56:

(10, 40523), (Start: 12 @40550 has 173 MA's), (15, 40574), (18, 40589), (21, 40634), (23, 40646), (27, 40724), (28, 40736), (29, 40760), (30, 40772), (32, 40826),

Gene: Pacc40_53 Start: 38285, Stop: 38563, Start Num: 12

Candidate Starts for Pacc40_53:

(10, 38258), (Start: 12 @38285 has 173 MA's), (22, 38369), (24, 38378), (25, 38441), (27, 38456), (28, 38468), (29, 38492), (30, 38504), (32, 38555),

Gene: PatoPoderoso_56 Start: 39051, Stop: 39335, Start Num: 12

Candidate Starts for PatoPoderoso_56:

(10, 39024), (Start: 12 @39051 has 173 MA's), (15, 39075), (18, 39090), (21, 39135), (27, 39225), (28, 39237), (29, 39261), (30, 39273), (32, 39327),

Gene: Peridot_60 Start: 39388, Stop: 39672, Start Num: 12

Candidate Starts for Peridot_60:

(10, 39361), (Start: 12 @39388 has 173 MA's), (15, 39412), (18, 39427), (21, 39472), (23, 39484), (27, 39562), (28, 39574), (29, 39598), (30, 39610), (32, 39664),

Gene: Phasih_57 Start: 40355, Stop: 40633, Start Num: 12

Candidate Starts for Phasih_57:

(10, 40328), (Start: 12 @40355 has 173 MA's), (22, 40439), (24, 40448), (25, 40511), (27, 40526), (28, 40538), (29, 40562), (30, 40574), (32, 40625),

Gene: Phatniss_57 Start: 39928, Stop: 40212, Start Num: 12

Candidate Starts for Phatniss_57:

(10, 39901), (Start: 12 @39928 has 173 MA's), (15, 39952), (18, 39967), (21, 40012), (23, 40024), (27, 40102), (28, 40114), (29, 40138), (30, 40150), (32, 40204),

Gene: PhelpsODU_53 Start: 37175, Stop: 37432, Start Num: 13

Candidate Starts for PhelpsODU_53:

(Start: 13 @37175 has 2 MA's), (16, 37196), (23, 37250), (25, 37313), (26, 37322), (31, 37400),

Gene: Philus_62 Start: 41088, Stop: 41369, Start Num: 12

Candidate Starts for Philus_62:

(10, 41061), (Start: 12 @41088 has 173 MA's), (22, 41172), (24, 41181), (25, 41244), (27, 41259), (28, 41271), (29, 41295), (30, 41307), (32, 41361),

Gene: PhlipPhlop_59 Start: 41642, Stop: 41926, Start Num: 12

Candidate Starts for PhlipPhlop_59:

(10, 41615), (Start: 12 @41642 has 173 MA's), (15, 41666), (18, 41681), (21, 41726), (27, 41816), (28, 41828), (29, 41852), (30, 41864), (32, 41918),

Gene: Pippy_57 Start: 38794, Stop: 39075, Start Num: 12

Candidate Starts for Pippy_57:

(10, 38767), (Start: 12 @38794 has 173 MA's), (15, 38818), (18, 38833), (21, 38878), (23, 38890), (27, 38968), (28, 38980), (29, 39004), (30, 39016), (32, 39067),

Gene: Plumbus_61 Start: 40255, Stop: 40533, Start Num: 12

Candidate Starts for Plumbus_61:

(10, 40228), (Start: 12 @40255 has 173 MA's), (22, 40339), (24, 40348), (25, 40411), (27, 40426), (28, 40438), (29, 40462), (30, 40474), (32, 40525),

Gene: Poenanya_59 Start: 41112, Stop: 41390, Start Num: 12

Candidate Starts for Poenanya_59:

(10, 41085), (Start: 12 @41112 has 173 MA's), (22, 41196), (24, 41205), (25, 41268), (27, 41283), (28, 41295), (29, 41319), (30, 41331), (32, 41382),

Gene: Polka14_57 Start: 39308, Stop: 39586, Start Num: 12

Candidate Starts for Polka14_57:

(10, 39281), (Start: 12 @39308 has 173 MA's), (22, 39392), (24, 39401), (25, 39464), (27, 39479), (28, 39491), (29, 39515), (30, 39527), (32, 39578),

Gene: Pollywog_60 Start: 40759, Stop: 41043, Start Num: 12

Candidate Starts for Pollywog_60:

(10, 40732), (Start: 12 @40759 has 173 MA's), (15, 40783), (18, 40798), (21, 40843), (23, 40855), (27, 40933), (28, 40945), (29, 40969), (30, 40981), (32, 41035),

Gene: Polo2Bam_64 Start: 39785, Stop: 40063, Start Num: 12

Candidate Starts for Polo2Bam_64:

(10, 39758), (Start: 12 @39785 has 173 MA's), (22, 39869), (24, 39878), (25, 39941), (27, 39956), (28, 39968), (29, 39992), (30, 40004), (32, 40055),

Gene: Priscilla_59 Start: 40022, Stop: 40306, Start Num: 12

Candidate Starts for Priscilla_59:

(10, 39995), (Start: 12 @40022 has 173 MA's), (15, 40046), (18, 40061), (21, 40106), (23, 40118), (27, 40196), (28, 40208), (29, 40232), (30, 40244), (32, 40298),

Gene: QuickMath_61 Start: 42034, Stop: 42315, Start Num: 12

Candidate Starts for QuickMath_61:

(8, 41998), (Start: 12 @42034 has 173 MA's), (15, 42058), (21, 42115), (23, 42127), (27, 42205), (28, 42217), (29, 42241), (30, 42253), (32, 42307),

Gene: Radiance_58 Start: 40047, Stop: 40328, Start Num: 12

Candidate Starts for Radiance_58:

(10, 40020), (Start: 12 @40047 has 173 MA's), (15, 40071), (18, 40086), (21, 40131), (23, 40143), (27, 40221), (28, 40233), (29, 40257), (30, 40269), (32, 40320),

Gene: RedBird_57 Start: 39343, Stop: 39624, Start Num: 12

Candidate Starts for RedBird_57:

(10, 39316), (Start: 12 @39343 has 173 MA's), (22, 39427), (24, 39436), (25, 39499), (27, 39514), (28, 39526), (29, 39550), (30, 39562),

Gene: Renaud18_65 Start: 40812, Stop: 41093, Start Num: 12

Candidate Starts for Renaud18_65:

(8, 40776), (Start: 12 @40812 has 173 MA's), (Start: 14 @40827 has 1 MA's), (18, 40851), (21, 40896), (23, 40908), (29, 41022), (30, 41034), (32, 41085),

Gene: Rialto_65 Start: 42826, Stop: 43110, Start Num: 12

Candidate Starts for Rialto_65:

(10, 42799), (Start: 12 @42826 has 173 MA's), (15, 42850), (18, 42865), (21, 42910), (23, 42922), (27, 43000), (28, 43012), (29, 43036), (30, 43048), (32, 43102),

Gene: Rita_60 Start: 38653, Stop: 38937, Start Num: 12

Candidate Starts for Rita_60:

(10, 38626), (Start: 12 @38653 has 173 MA's), (15, 38677), (18, 38692), (21, 38737), (23, 38749), (27, 38827), (28, 38839), (29, 38863), (30, 38875), (32, 38929),

Gene: RitaG_54 Start: 38556, Stop: 38834, Start Num: 12

Candidate Starts for RitaG_54:

(10, 38529), (Start: 12 @38556 has 173 MA's), (22, 38640), (24, 38649), (25, 38712), (27, 38727), (28, 38739), (29, 38763), (30, 38775), (32, 38826),

Gene: Rockne_60 Start: 40562, Stop: 40846, Start Num: 12

Candidate Starts for Rockne_60:

(10, 40535), (Start: 12 @40562 has 173 MA's), (15, 40586), (18, 40601), (21, 40646), (23, 40658), (27, 40736), (28, 40748), (29, 40772), (30, 40784), (32, 40838),

Gene: RockyHorror_60 Start: 39611, Stop: 39892, Start Num: 12

Candidate Starts for RockyHorror_60:

(10, 39584), (Start: 12 @39611 has 173 MA's), (15, 39635), (18, 39650), (21, 39695), (23, 39707), (28, 39797), (29, 39821), (30, 39833), (32, 39884),

Gene: Ruby_55 Start: 39743, Stop: 40021, Start Num: 12

Candidate Starts for Ruby_55:

(10, 39716), (Start: 12 @39743 has 173 MA's), (22, 39827), (24, 39836), (25, 39899), (27, 39914), (28, 39926), (29, 39950), (30, 39962), (32, 40013),

Gene: SG4_56 Start: 39440, Stop: 39724, Start Num: 12

Candidate Starts for SG4_56:

(Start: 12 @39440 has 173 MA's), (15, 39464), (18, 39479), (21, 39524), (23, 39536), (27, 39614), (28, 39626), (29, 39650), (30, 39662), (32, 39716),

Gene: Saal_61 Start: 41196, Stop: 41477, Start Num: 12

Candidate Starts for Saal_61:

(10, 41169), (Start: 12 @41196 has 173 MA's), (15, 41220), (18, 41235), (21, 41280), (23, 41292), (27, 41370), (28, 41382), (29, 41406), (30, 41418), (32, 41469),

Gene: Sabbb_63 Start: 40884, Stop: 41165, Start Num: 12

Candidate Starts for Sabbb_63:

(10, 40857), (Start: 12 @40884 has 173 MA's), (15, 40908), (18, 40923), (21, 40968), (23, 40980), (27, 41058), (28, 41070), (29, 41094), (30, 41106), (32, 41157),

Gene: Sassafras_57 Start: 39528, Stop: 39806, Start Num: 12

Candidate Starts for Sassafras_57:

(10, 39501), (Start: 12 @39528 has 173 MA's), (22, 39612), (24, 39621), (25, 39684), (27, 39699), (28, 39711), (29, 39735), (30, 39747), (32, 39798),

Gene: Scottish_57 Start: 39568, Stop: 39852, Start Num: 12

Candidate Starts for Scottish_57:

(10, 39541), (Start: 12 @39568 has 173 MA's), (15, 39592), (18, 39607), (21, 39652), (23, 39664), (27, 39742), (28, 39754), (29, 39778), (30, 39790), (32, 39844),

Gene: SeaLumen_63 Start: 39785, Stop: 40063, Start Num: 12

Candidate Starts for SeaLumen_63:

(10, 39758), (Start: 12 @39785 has 173 MA's), (22, 39869), (24, 39878), (25, 39941), (27, 39956), (28, 39968), (29, 39992), (30, 40004), (32, 40055),

Gene: Seabastian_64 Start: 42541, Stop: 42819, Start Num: 12

Candidate Starts for Seabastian_64:

(10, 42514), (Start: 12 @42541 has 173 MA's), (22, 42625), (24, 42634), (25, 42697), (27, 42712), (28, 42724), (29, 42748), (30, 42760), (32, 42811),

Gene: ShiLan_58 Start: 39969, Stop: 40253, Start Num: 12

Candidate Starts for ShiLan_58:

(10, 39942), (Start: 12 @39969 has 173 MA's), (15, 39993), (18, 40008), (21, 40053), (23, 40065), (27, 40143), (28, 40155), (29, 40179), (30, 40191), (32, 40245),

Gene: ShowerHandel_62 Start: 39936, Stop: 40217, Start Num: 12

Candidate Starts for ShowerHandel_62:

(10, 39909), (Start: 12 @39936 has 173 MA's), (15, 39960), (18, 39975), (21, 40020), (23, 40032), (27, 40110), (28, 40122), (29, 40146), (30, 40158), (32, 40209),

Gene: ShroomBoi_61 Start: 40896, Stop: 41177, Start Num: 12

Candidate Starts for ShroomBoi_61:

(10, 40869), (Start: 12 @40896 has 173 MA's), (15, 40920), (18, 40935), (21, 40980), (23, 40992), (27, 41070), (28, 41082), (29, 41106), (30, 41118), (32, 41169),

Gene: SiSi_57 Start: 39342, Stop: 39626, Start Num: 12

Candidate Starts for SiSi_57:

(10, 39315), (Start: 12 @39342 has 173 MA's), (15, 39366), (18, 39381), (21, 39426), (23, 39438), (27, 39516), (28, 39528), (29, 39552), (30, 39564), (32, 39618),

Gene: SimranZ1_59 Start: 40122, Stop: 40400, Start Num: 12

Candidate Starts for SimranZ1_59:

(10, 40095), (Start: 12 @40122 has 173 MA's), (22, 40206), (24, 40215), (25, 40278), (27, 40293), (28, 40305), (29, 40329), (30, 40341), (32, 40392),

Gene: Skog_114 Start: 46503, Stop: 46823, Start Num: 5

Candidate Starts for Skog_114:

(4, 46470), (Start: 5 @46503 has 1 MA's), (6, 46512), (9, 46521), (11, 46551), (18, 46593), (19, 46596), (25, 46713), (31, 46800),

Gene: Slim_60 Start: 40729, Stop: 41013, Start Num: 12

Candidate Starts for Slim_60:

(10, 40702), (Start: 12 @40729 has 173 MA's), (15, 40753), (18, 40768), (21, 40813), (23, 40825), (27, 40903), (28, 40915), (29, 40939), (30, 40951), (32, 41005),

Gene: Soul22_65 Start: 41527, Stop: 41811, Start Num: 12

Candidate Starts for Soul22_65:

(10, 41500), (Start: 12 @41527 has 173 MA's), (15, 41551), (18, 41566), (21, 41611), (23, 41623), (27, 41701), (28, 41713), (29, 41737), (30, 41749), (32, 41803),

Gene: Spartacus_61 Start: 40606, Stop: 40887, Start Num: 12

Candidate Starts for Spartacus_61:

(10, 40579), (Start: 12 @40606 has 173 MA's), (15, 40630), (18, 40645), (21, 40690), (23, 40702), (27, 40780), (28, 40792), (29, 40816), (30, 40828), (32, 40879),

Gene: Spikelee_66 Start: 42226, Stop: 42507, Start Num: 12

Candidate Starts for Spikelee_66:

(10, 42199), (Start: 12 @42226 has 173 MA's), (15, 42250), (18, 42265), (21, 42310), (23, 42322), (27, 42400), (28, 42412), (29, 42436), (30, 42448), (32, 42499),

Gene: Spoonbill_56 Start: 38516, Stop: 38794, Start Num: 12

Candidate Starts for Spoonbill_56:

(10, 38489), (Start: 12 @38516 has 173 MA's), (22, 38600), (24, 38609), (25, 38672), (27, 38687), (28, 38699), (29, 38723), (30, 38735), (32, 38786),

Gene: Stap_57 Start: 39317, Stop: 39595, Start Num: 12

Candidate Starts for Stap_57:

(10, 39290), (Start: 12 @39317 has 173 MA's), (22, 39401), (24, 39410), (25, 39473), (27, 39488), (28, 39500), (29, 39524), (30, 39536), (32, 39587),

Gene: Starcevich_59 Start: 40105, Stop: 40383, Start Num: 12

Candidate Starts for Starcevich_59:

(8, 40069), (Start: 12 @40105 has 173 MA's), (15, 40129), (21, 40186), (23, 40198), (27, 40276), (28, 40288), (29, 40312), (30, 40324), (32, 40375),

Gene: Strokeseat_55 Start: 38052, Stop: 38333, Start Num: 12

Candidate Starts for Strokeseat_55:

(10, 38025), (Start: 12 @38052 has 173 MA's), (15, 38076), (18, 38091), (21, 38136), (23, 38148), (27, 38226), (28, 38238), (29, 38262), (30, 38274), (32, 38325),

Gene: SwagPigglett_64 Start: 42244, Stop: 42525, Start Num: 12

Candidate Starts for SwagPigglett_64:

(10, 42217), (Start: 12 @42244 has 173 MA's), (15, 42268), (18, 42283), (21, 42328), (23, 42340), (27, 42418), (28, 42430), (29, 42454), (30, 42466), (32, 42517),

Gene: TChen_60 Start: 41367, Stop: 41636, Start Num: 14

Candidate Starts for TChen_60:

(7, 41322), (Start: 12 @41358 has 173 MA's), (Start: 14 @41367 has 1 MA's), (20, 41424), (22, 41442), (24, 41451), (25, 41514), (27, 41529), (28, 41541), (29, 41565), (30, 41577), (32, 41628),

Gene: ThetaBob_64 Start: 41432, Stop: 41710, Start Num: 12

Candidate Starts for ThetaBob_64:

(7, 41396), (Start: 12 @41432 has 173 MA's), (Start: 14 @41441 has 1 MA's), (20, 41498), (22, 41516), (24, 41525), (25, 41588), (27, 41603), (28, 41615), (29, 41639), (30, 41651), (32, 41702),

Gene: Tootsieroll_60 Start: 39265, Stop: 39549, Start Num: 12

Candidate Starts for Tootsieroll_60:

(10, 39238), (Start: 12 @39265 has 173 MA's), (15, 39289), (18, 39304), (21, 39349), (23, 39361), (27, 39439), (28, 39451), (29, 39475), (30, 39487), (32, 39541),

Gene: Topiatin_67 Start: 42597, Stop: 42878, Start Num: 12

Candidate Starts for Topiatin_67:

(8, 42561), (Start: 12 @42597 has 173 MA's), (15, 42621), (21, 42678), (23, 42690), (27, 42768), (28, 42780), (29, 42804), (30, 42816), (32, 42870),

Gene: Totinger_58 Start: 39195, Stop: 39479, Start Num: 12

Candidate Starts for Totinger_58:

(10, 39168), (Start: 12 @39195 has 173 MA's), (15, 39219), (18, 39234), (21, 39279), (23, 39291), (27, 39369), (28, 39381), (29, 39405), (30, 39417), (32, 39471),

Gene: UncleRicky_58 Start: 40176, Stop: 40460, Start Num: 12

Candidate Starts for UncleRicky_58:

(10, 40149), (Start: 12 @40176 has 173 MA's), (15, 40200), (18, 40215), (21, 40260), (23, 40272), (27, 40350), (28, 40362), (29, 40386), (30, 40398), (32, 40452),

Gene: Unicorn_53 Start: 37175, Stop: 37432, Start Num: 13

Candidate Starts for Unicorn_53:

(Start: 13 @37175 has 2 MA's), (16, 37196), (23, 37250), (25, 37313), (26, 37322), (31, 37400),

Gene: VRedHorse_59 Start: 39252, Stop: 39533, Start Num: 12

Candidate Starts for VRedHorse_59:

(10, 39225), (Start: 12 @39252 has 173 MA's), (15, 39276), (18, 39291), (21, 39336), (23, 39348), (27, 39426), (28, 39438), (29, 39462), (30, 39474), (32, 39525),

Gene: Veteran_56 Start: 38956, Stop: 39237, Start Num: 12

Candidate Starts for Veteran_56:

(10, 38929), (Start: 12 @38956 has 173 MA's), (22, 39040), (24, 39049), (27, 39127), (28, 39139), (29, 39163), (30, 39175), (32, 39229),

Gene: Violac_61 Start: 41322, Stop: 41603, Start Num: 12

Candidate Starts for Violac_61:

(10, 41295), (Start: 12 @41322 has 173 MA's), (15, 41346), (18, 41361), (21, 41406), (23, 41418), (27, 41496), (28, 41508), (29, 41532), (30, 41544), (32, 41595),

Gene: Vivum_60 Start: 40254, Stop: 40535, Start Num: 12

Candidate Starts for Vivum_60:

(10, 40227), (Start: 12 @40254 has 173 MA's), (15, 40278), (18, 40293), (21, 40338), (23, 40350), (27, 40428), (28, 40440), (29, 40464), (30, 40476), (32, 40527),

Gene: Wee_63 Start: 41773, Stop: 42054, Start Num: 12

Candidate Starts for Wee_63:

(Start: 12 @41773 has 173 MA's), (15, 41797), (18, 41812), (21, 41857), (23, 41869), (27, 41947), (28, 41959), (29, 41983), (30, 41995), (32, 42046),

Gene: Whouxphf_56 Start: 39848, Stop: 40129, Start Num: 12

Candidate Starts for Whouxphf_56:

(10, 39821), (Start: 12 @39848 has 173 MA's), (15, 39872), (18, 39887), (21, 39932), (23, 39944), (27, 40022), (28, 40034), (29, 40058), (30, 40070), (32, 40121),

Gene: WillSterrel_60 Start: 41723, Stop: 42004, Start Num: 12

Candidate Starts for WillSterrel_60:

(10, 41696), (Start: 12 @41723 has 173 MA's), (15, 41747), (18, 41762), (21, 41807), (23, 41819), (27, 41897), (28, 41909), (29, 41933), (30, 41945), (32, 41996),

Gene: Yorick_58 Start: 40310, Stop: 40591, Start Num: 12

Candidate Starts for Yorick_58:

(10, 40283), (Start: 12 @40310 has 173 MA's), (15, 40334), (18, 40349), (21, 40394), (23, 40406), (27, 40484), (28, 40496), (29, 40520), (30, 40532), (32, 40583),

Gene: Yoshi_72 Start: 41696, Stop: 41974, Start Num: 12

Candidate Starts for Yoshi_72:

(7, 41660), (Start: 12 @41696 has 173 MA's), (Start: 14 @41705 has 1 MA's), (20, 41762), (22, 41780), (24, 41789), (25, 41852), (27, 41867), (28, 41879), (29, 41903), (30, 41915), (32, 41966),

Gene: Zapner_72 Start: 41849, Stop: 42133, Start Num: 12

Candidate Starts for Zapner_72:

(10, 41822), (Start: 12 @41849 has 173 MA's), (15, 41873), (18, 41888), (21, 41933), (23, 41945), (27, 42023), (28, 42035), (29, 42059), (30, 42071), (32, 42125),

Gene: Zerg_59 Start: 39720, Stop: 40004, Start Num: 12

Candidate Starts for Zerg_59:

(10, 39693), (Start: 12 @39720 has 173 MA's), (15, 39744), (18, 39759), (21, 39804), (23, 39816), (27, 39894), (28, 39906), (29, 39930), (30, 39942), (32, 39996),

Gene: Zizzle_63 Start: 41563, Stop: 41847, Start Num: 12

Candidate Starts for Zizzle_63:

(10, 41536), (Start: 12 @41563 has 173 MA's), (15, 41587), (18, 41602), (21, 41647), (23, 41659), (27, 41737), (28, 41749), (29, 41773), (30, 41785), (32, 41839),