

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 157555 Report

This analysis was run 04/13/24 on database version 558.

Pham number 157555 has 245 members, 17 are drafts.

Phages represented in each track:

- Track 1 : Nergal_26
- Track 2 : MalagasyRose_30
- Track 3 : 244_34, PhatBacter_32, JeTaimé_34, MPhalcon_31, Elph10_33, Tarkin_34, Phrux_32, Goldilocks_33, Buck_31, BadStone_31, HuffyPuff_31, Petra64142_34, HanKaySha_33, DoctorDiddles_32, Bask21_32, FireRed_32, Xandras_34, MISSy_31, Nimrod_32, Saints25_33, Paperbeatsrock_34, StolenFromERC_34, Holt_33, StellaBean_32, Stank_35, Hoonter_34, Lilac_34, Ukulele_32, TBrady12_34, Phaux_31, Rimmer_31, Dumbo_32, SophKB_32, MadamMonkfish_32, Easy2Say_34, Czyszczonek_33, Kanye_34, Highbury_33, Dusk_31, BigBubba_33, Lilizi_34, Hopey_34, OrionPax_33, Porky_32, Pumpkin_34, AmericanBeauty_35, Murica_31, Murphy_33, Pharsalus_33, xkcd_33, Miniwave_32, Gator_30
- Track 4 : CrystalP_32, Henry_33, ShamWow_32
- Track 5 : Stark_33, Gemini_35, Cjw1_32, Elite2014_31, Misfit_32, Emmina_33, BaboJay_31, Simpliphy_33, Gage_34, ChosenOne_32, Lilpickle_31, Phaja_32, Bruin_32, Argent26_34, Rakim_33, Kimchi_34, Nala_32, ShereKhan_34, Filch_33, YassJohnny_33, Teaspoon_33, Bench_34, NoSleep_33, RiverMonster_32, Moldemort_33, GoldenSpark_34, Thresher_33, Maxxinista_33, Balomoji_31, GooberAzure_34, Terminus_32, Adnama_35, Wiggins_35, Command613_33, Inca_31
- Track 6 : ChotaBhai_32, ABCat_31, Willez_31, Tuco_33, DrDrey_33, Contagion_31, Tomaszewski_31, Mosby_31, Flypotenuse_30, Myrale_32, Manda_33, Marshmallow_32, Cookies_32, Harella_31, Glexan_30, SirDuracell_31, Youngblood_32, Pat3_31, Sassay_31
- Track 7 : Icee_31, NelitzaMV_32, Sotrice96_32, Cactus_33
- Track 8 : Goku_32, Eureka_32
- Track 9 : Asriel_31, Traaww1_30, Barbarian_31, TeardropMSU_31
- Track 10 : Quallification_33
- Track 11 : BilboSwaggins_32, Mindy_32, Daikon_31, Kostya_33, Toto_32
- Track 12 : Amao_32
- Track 13 : IHOP_32
- Track 14 : Dove_46, Klein_47, NihilNomen_46, Pound_48
- Track 15 : Odette_47, JuicyJay_49, Schatzie_44, Bombitas_43
- Track 16 : Hannaconda_42, KashFlow_39
- Track 17 : Constella_39
- Track 18 : Beem_47, Hughesyang_45, Halley_47, ThreeRngTarjay_45, Ejimix_47, Kalah2_47, HokkenD_40, Yeet_45, Phoebus_46, EricMillard_47
- Track 19 : Redno2_45, Dallas_49, Zelink_48

- Track 20 : Wanda_53
- Track 21 : Duke13_50, Optimus_52, BAKA_51, DmpstrDiver_48
- Track 22 : Omega_50
- Track 23 : LittleE_51
- Track 24 : Minerva_53
- Track 25 : MarkPheW_30
- Track 26 : Mdavu_26, Enkosi_26, Biglebops_26, Amelie_26, Nikao_26, LilPharaoh_26, SgtBeansprout_26, Nutello_26
- Track 27 : KiSi_29, LeMond_29, Scarlett_29
- Track 28 : Oscar_29
- Track 29 : Chris_29
- Track 30 : Nibb_29
- Track 31 : MacnCheese_31
- Track 32 : Hurricane_31
- Track 33 : Pharb_29
- Track 34 : Pixie_30
- Track 35 : TBond007_30
- Track 36 : Keshu_31
- Track 37 : ShedlockHolmes_31
- Track 38 : TribbleTrouble_29
- Track 39 : Malthus_32, Y10_31, Fionnbharth_31, JF1_31, Y2_31, Wintermute_31
- Track 40 : Mitti_31
- Track 41 : MissDaisy_31, Patt_31
- Track 42 : Juliette_33, SamScheppers_31, Ruthiejr_32
- Track 43 : Chancellor_31, Cheetobro_31, Slarp_31
- Track 44 : OmniCritical_31
- Track 45 : Reptar3000_31
- Track 46 : Taquito_31
- Track 47 : Eponine_33
- Track 48 : Dadosky_30, Larva_30, Psycho_30, AlleyCat_30
- Track 49 : Omnicron_30
- Track 50 : SoSeph_29, Heftyboy_29
- Track 51 : Paola_29
- Track 52 : Guillsminger_29
- Track 53 : Thyatira_29
- Track 54 : OkiRoe_29
- Track 55 : Waterfoul_29
- Track 56 : Collard_29, InvictusManeo_29, Agent47_29
- Track 57 : Miryou_29
- Track 58 : Kratio_28
- Track 59 : Leston_29
- Track 60 : Feyre_29, Gengar_29
- Track 61 : Edugator_29
- Track 62 : Krueger_30
- Track 63 : Phrank_30, Cain_30, Bryler_30
- Track 64 : Sunflower1121_29, Shadow1_29
- Track 65 : Ximenita_31
- Track 66 : TClif_32
- Track 67 : Tierra_30
- Track 68 : SirPhilip_29
- Track 69 : PhelpsODU_30, Unicorn_30
- Track 70 : Syra333_30

- Track 71 : Whitty_27, ZenTime222_27, RonRayGun_27, Nairb_27, Bernal13_27, Ibrahim_27
- Track 72 : Mendokysei_26
- Track 73 : Gaia_32

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

The start number called the most often in the published annotations is 18, it was called in 192 of the 228 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- 244_34, ABCat_31, Adnama_35, Agent47_29, AlleyCat_30, AmericanBeauty_35, Argent26_34, Asriel_31, BaboJay_31, BadStone_31, Balomoji_31, Barbarian_31, Bask21_32, Beem_47, Bench_34, Bernal13_27, BigBubba_33, Bombitas_43, Bruin_32, Bryler_30, Buck_31, Cactus_33, Cain_30, Chancellor_31, Cheetobro_31, ChosenOne_32, ChotaBhai_32, Cjw1_32, Collard_29, Command613_33, Constella_39, Contagion_31, Cookies_32, CrystalP_32, Czystoczon1_33, Dadosky_30, Dallas_49, DoctorDiddles_32, Dove_46, DrDrey_33, Dumbo_32, Dusk_31, Easy2Say_34, Edugator_29, Ejimix_47, Elite2014_31, Elph10_33, Emmina_33, Eponine_33, EricMillard_47, Eureka_32, Feyre_29, Filch_33, Fionnbharth_31, FireRed_32, Flypotenuse_30, Gage_34, Gator_30, Gemini_35, Gengar_29, Glexan_30, Goku_32, GoldenSpark_34, Goldilocks_33, GooberAzure_34, Halley_47, HanKaySha_33, Hannaconda_42, Harella_31, Heftyboy_29, Henry_33, Highbury_33, HokkenD_40, Holt_33, Hoonter_34, Hopey_34, HufflyPuff_31, Hughesyang_45, IHOP_32, Ibrahim_27, Icee_31, Inca_31, InvictusManeo_29, JF1_31, JeTaime_34, JuicyJay_49, Juliette_33, Kalah2_47, Kanye_34, KashFlow_39, Kimchi_34, Klein_47, Kratio_28, Krueger_30, Larva_30, Lilac_34, Lilizi_34, Lilpickle_31, LittleE_51, MISSy_31, MPhalcon_31, MadamMonkfish_32, MalagasyRose_30, Malthus_32, Manda_33, Marshmallow_32, Maxxinista_33, Mendokysei_26, Miniwave_32, Miryou_29, Misfit_32, MissDaisy_31, Mitti_31, Moldemort_33, Mosby_31, Murica_31, Murphy_33, Myrale_32, Nairb_27, Nala_32, NelitzaMV_32, NihilNomen_46, Nimrod_32, NoSleep_33, Odette_47, OkiRoe_29, Omega_50, OmniCritical_31, Omnicron_30, OrionPax_33, Paola_29, Paperbeatsrock_34, Pat3_31, Patt_31, Petra64142_34, Phaja_32, Pharsalus_33, PhatBacter_32, Phaux_31, PhelpsODU_30, Phoebus_46, Phrank_30, Phrux_32, Porky_32, Pound_48, Psycho_30, Pumpkin_34, Quallification_33, Rakim_33, Redno2_45, Reptar3000_31, Rimmer_31, RiverMonster_32, RonRayGun_27, Ruthiejr_32, Saints25_33, SamScheppers_31, Sassay_31, Schatzie_44, Shadow1_29, ShamWow_32, ShereKhan_34, Simpliphy_33, SirDuracell_31, Slarp_31, SoSeph_29, SophKB_32, Sotrice96_32, Stank_35, Stark_33, StellaBean_32, StolenFromERC_34, Sunflower1121_29, Syra333_30, TBrady12_34, TClif_32, Taquito_31, Tarkin_34, TeardropMSU_31, Teaspoon_33, Terminus_32, ThreeRngTarjay_45, Thresher_33, Thyatira_29, Tierra_30, Tomaszewski_31, Traaww1_30, Tuco_33, Ukulele_32, Unicorn_30, Waterfoul_29, Whitty_27, Wiggins_35, Willez_31, Wintermute_31, Xandras_34, Ximenita_31, Y10_31, Y2_31, YassJohnny_33, Yeet_45, Youngblood_32, Zelink_48, ZenTime222_27, xkcd_33,

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

- Amao_32, BilboSwaggins_32, Daikon_31, Guillsminger_29, Kostya_33, Leston_29, Mindy_32, Toto_32,

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

- Amelie_26, BAKA_51, Biglebops_26, Chris_29, DmpstrDiver_48, Duke13_50, Enkosi_26, Gaia_32, Hurricane_31, Keshu_31, KiSi_29, LeMond_29, LilPharaoh_26, MacnCheese_31, MarkPhew_30, Mdavu_26, Minerva_53, Nergal_26, Nibb_29, Nikao_26, Nutello_26, Optimus_52, Oscar_29, Pharb_29, Pixie_30, Scarlett_29, SgtBeansprout_26, ShedlockHolmes_31, SirPhilip_29, TBond007_30, TribbleTrouble_29, Wanda_53,

Summary by start number:

Start 15:

- Found in 6 of 245 (2.4%) of genes in pham
- Manual Annotations of this start: 2 of 228
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Minerva_53 (J), Wanda_53 (J),

Start 16:

- Found in 15 of 245 (6.1%) of genes in pham
- Manual Annotations of this start: 15 of 228
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Amelie_26 (K1), Biglebops_26 (K1), Chris_29 (K1), Enkosi_26 (K1), KiSi_29 (K1), LeMond_29 (K1), LilPharaoh_26 (K1), MarkPhew_30 (K1), Mdavu_26 (K1), Nibb_29 (K1), Nikao_26 (K1), Nutello_26 (K1), Oscar_29 (K1), Scarlett_29 (K1), SgtBeansprout_26 (K1),

Start 17:

- Found in 1 of 245 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 228
- Called 100.0% of time when present
- Phage (with cluster) where this start called: SirPhilip_29 (K6),

Start 18:

- Found in 213 of 245 (86.9%) of genes in pham
- Manual Annotations of this start: 192 of 228
- Called 96.2% of time when present
- Phage (with cluster) where this start called: 244_34 (E), ABCat_31 (E), Adnama_35 (E), Agent47_29 (K5), AlleyCat_30 (K5), AmericanBeauty_35 (E), Argent26_34 (E), Asriel_31 (E), BaboJay_31 (E), BadStone_31 (E), Balomoji_31 (E), Barbarian_31 (E), Bask21_32 (E), Beem_47 (J), Bench_34 (E), Bernal13_27 (T), BigBubba_33 (E), Bombitas_43 (J), Bruin_32 (E), Bryler_30 (K6), Buck_31 (E), Cactus_33 (E), Cain_30 (K6), Chancellor_31 (K4), Cheetobro_31 (K4), ChosenOne_32 (E), ChotaBhai_32 (E), Cjw1_32 (E), Collard_29 (K5), Command613_33 (E), Constella_39 (J), Contagion_31 (E), Cookies_32 (E), CrystalP_32 (E), Czyszczonek_33 (E), Dadosky_30 (K5), Dallas_49 (J), DoctorDiddles_32 (E), Dove_46 (J), DrDrey_33 (E), Dumbo_32 (E), Dusk_31 (E), Easy2Say_34 (E), Edugator_29 (K5), Ejimix_47 (J), Elite2014_31 (E), Elph10_33 (E), Emmina_33 (E), Eponine_33 (K4), EricMillard_47 (J), Eureka_32 (E), Feyre_29 (K5), Filch_33 (E), Fionnbharth_31 (K4), FireRed_32 (E), Flypotenuse_30 (E), Gage_34 (E), Gator_30 (E), Gemini_35 (E), Gengar_29 (K5), Glexan_30 (E), Goku_32 (E), GoldenSpark_34 (E), Goldilocks_33 (E), GooberAzure_34 (E), Halley_47 (J), HanKaySha_33 (E), Hannaconda_42 (J), Harella_31 (E), Heftyboy_29 (K5), Henry_33 (E), Highbury_33 (E), HokkenD_40 (J), Holt_33 (E), Hoonter_34 (E), Hopey_34 (E), HuffyPuff_31 (E), Hughesyang_45 (J),

IHOP_32 (E), Ibrahim_27 (T), Icee_31 (E), Inca_31 (E), InvictusManeo_29 (K5), JF1_31 (K4), JeTaime_34 (E), JuicyJay_49 (J), Juliette_33 (K4), Kalah2_47 (J), Kanye_34 (E), KashFlow_39 (J), Kimchi_34 (E), Klein_47 (J), Kratio_28 (K5), Krueger_30 (K6), Larva_30 (K5), Lilac_34 (E), Lilizi_34 (E), Lilpickle_31 (E), LittleE_51 (J), MISSy_31 (E), MPhalcon_31 (E), MadamMonkfish_32 (E), MalagasyRose_30 (AG), Malthus_32 (K4), Manda_33 (E), Marshmallow_32 (E), Maxxinista_33 (E), Mendokysei_26 (T), Miniwave_32 (E), Miryou_29 (K5), Misfit_32 (E), MissDaisy_31 (K4), Mitti_31 (K4), Moldemort_33 (E), Mosby_31 (E), Murica_31 (E), Murphy_33 (E), Myrale_32 (E), Nairb_27 (T), Nala_32 (E), NelitzaMV_32 (E), NihilNomen_46 (J), Nimrod_32 (E), NoSleep_33 (E), Odette_47 (J), OkiRoe_29 (K5), Omega_50 (J), OmniCritical_31 (K4), Omnicron_30 (K5), OrionPax_33 (E), Paola_29 (K5), Paperbeatsrock_34 (E), Pat3_31 (E), Patt_31 (K4), Petra64142_34 (E), Phaja_32 (E), Pharsalus_33 (E), PhatBacter_32 (E), Phaux_31 (E), PhelpsODU_30 (K6), Phoebus_46 (J), Phrank_30 (K6), Phrux_32 (E), Porky_32 (E), Pound_48 (J), Psycho_30 (K5), Pumpkin_34 (E), Quallification_33 (E), Rakim_33 (E), Redno2_45 (J), Reptar3000_31 (K4), Rimmer_31 (E), RiverMonster_32 (E), RonRayGun_27 (T), Ruthiejr_32 (K4), Saints25_33 (E), SamScheppers_31 (K4), Sassay_31 (E), Schatzie_44 (J), Shadow1_29 (K6), ShamWow_32 (E), ShereKhan_34 (E), Simpliphy_33 (E), SirDuracell_31 (E), Slarp_31 (K4), SoSeph_29 (K5), SophKB_32 (E), Sotrice96_32 (E), Stank_35 (E), Stark_33 (E), StellaBean_32 (E), StolenFromERC_34 (E), Sunflower1121_29 (K6), Syra333_30 (K6), TBrady12_34 (E), TClif_32 (K6), Taquito_31 (K4), Tarkin_34 (E), TeardropMSU_31 (E), Teaspoon_33 (E), Terminus_32 (E), ThreeRngTarjay_45 (J), Thresher_33 (E), Thyatira_29 (K5), Tierra_30 (K6), Tomaszewski_31 (E), Traaww1_30 (E), Tuco_33 (E), Ukulele_32 (E), Unicorn_30 (K6), Waterfoul_29 (K5), Whitty_27 (T), Wiggin_35 (E), Willez_31 (E), Wintermute_31 (K4), Xandras_34 (E), Ximenita_31 (K6), Y10_31 (K4), Y2_31 (K4), YassJohnny_33 (E), Yeet_45 (J), Youngblood_32 (E), Zelink_48 (J), ZenTime222_27 (T), xkcd_33 (E),

Start 19:

- Found in 17 of 245 (6.9%) of genes in pham
- Manual Annotations of this start: 13 of 228
- Called 82.4% of time when present
- Phage (with cluster) where this start called: BAKA_51 (J), DmpstrDiver_48 (J), Duke13_50 (J), Gaia_32 (X), Hurricane_31 (K3), Keshu_31 (K3), MacnCheese_31 (K3), Nergal_26 (AG), Optimus_52 (J), Pharb_29 (K3), Pixie_30 (K3), ShedlockHolmes_31 (K3), TBond007_30 (K3), TripleTrouble_29 (K3),

Start 20:

- Found in 21 of 245 (8.6%) of genes in pham
- Manual Annotations of this start: 1 of 228
- Called 4.8% of time when present
- Phage (with cluster) where this start called: Guillsminger_29 (K5),

Start 21:

- Found in 21 of 245 (8.6%) of genes in pham
- Manual Annotations of this start: 1 of 228
- Called 4.8% of time when present
- Phage (with cluster) where this start called: Leston_29 (K5),

Start 27:

- Found in 157 of 245 (64.1%) of genes in pham
- Manual Annotations of this start: 3 of 228

- Called 3.8% of time when present
- Phage (with cluster) where this start called: Amao_32 (E), BilboSwaggins_32 (E), Daikon_31 (E), Kostya_33 (E), Mindy_32 (E), Toto_32 (E),

Summary by clusters:

There are 10 clusters represented in this pham: E, AG, J, K3, K1, K6, K5, K4, X, T,

Info for manual annotations of cluster AG:

- Start number 18 was manually annotated 1 time for cluster AG.
- Start number 19 was manually annotated 1 time for cluster AG.

Info for manual annotations of cluster E:

- Start number 18 was manually annotated 113 times for cluster E.
- Start number 27 was manually annotated 3 times for cluster E.

Info for manual annotations of cluster J:

- Start number 15 was manually annotated 2 times for cluster J.
- Start number 18 was manually annotated 24 times for cluster J.
- Start number 19 was manually annotated 4 times for cluster J.

Info for manual annotations of cluster K1:

- Start number 16 was manually annotated 15 times for cluster K1.

Info for manual annotations of cluster K3:

- Start number 19 was manually annotated 7 times for cluster K3.

Info for manual annotations of cluster K4:

- Start number 18 was manually annotated 19 times for cluster K4.

Info for manual annotations of cluster K5:

- Start number 18 was manually annotated 17 times for cluster K5.
- Start number 20 was manually annotated 1 time for cluster K5.
- Start number 21 was manually annotated 1 time for cluster K5.

Info for manual annotations of cluster K6:

- Start number 17 was manually annotated 1 time for cluster K6.
- Start number 18 was manually annotated 11 times for cluster K6.

Info for manual annotations of cluster T:

- Start number 18 was manually annotated 7 times for cluster T.

Info for manual annotations of cluster X:

- Start number 19 was manually annotated 1 time for cluster X.

Gene Information:

Gene: 244_34 Start: 29921, Stop: 31423, Start Num: 18

Candidate Starts for 244_34:

(Start: 18 @29921 has 192 MA's), (Start: 27 @29990 has 3 MA's), (34, 30068), (46, 30164), (48, 30185), (50, 30191), (54, 30275), (56, 30296), (59, 30347), (63, 30401), (69, 30476), (79, 30611), (81,

30623), (86, 30692), (88, 30701), (92, 30806), (97, 30875), (102, 31001), (108, 31082), (122, 31178), (126, 31205), (131, 31232), (132, 31238), (138, 31256), (143, 31292),

Gene: ABCat_31 Start: 29633, Stop: 31135, Start Num: 18

Candidate Starts for ABCat_31:

(Start: 18 @29633 has 192 MA's), (Start: 27 @29702 has 3 MA's), (34, 29780), (46, 29876), (48, 29897), (50, 29903), (54, 29987), (56, 30008), (59, 30059), (63, 30113), (69, 30188), (79, 30323), (81, 30335), (86, 30404), (88, 30413), (92, 30518), (97, 30587), (102, 30713), (108, 30794), (131, 30944), (132, 30950), (138, 30968), (143, 31004),

Gene: Adnama_35 Start: 30148, Stop: 31650, Start Num: 18

Candidate Starts for Adnama_35:

(Start: 18 @30148 has 192 MA's), (Start: 27 @30217 has 3 MA's), (34, 30295), (46, 30391), (48, 30412), (50, 30418), (54, 30502), (56, 30523), (59, 30574), (63, 30628), (69, 30703), (79, 30838), (81, 30850), (86, 30919), (88, 30928), (92, 31033), (97, 31102), (102, 31228), (108, 31309), (126, 31432), (131, 31459), (132, 31465), (138, 31483), (143, 31519),

Gene: Agent47_29 Start: 25596, Stop: 27230, Start Num: 18

Candidate Starts for Agent47_29:

(Start: 18 @25596 has 192 MA's), (Start: 20 @25602 has 1 MA's), (Start: 21 @25617 has 1 MA's), (31, 25722), (35, 25746), (38, 25761), (43, 25809), (51, 25881), (54, 25932), (56, 25953), (67, 26103), (68, 26115), (69, 26130), (72, 26169), (80, 26277), (81, 26286), (86, 26355), (87, 26361), (88, 26364), (95, 26529), (97, 26538), (99, 26577), (101, 26622), (102, 26658), (108, 26742), (110, 26775), (111, 26778), (131, 26925), (132, 26931), (140, 26967), (143, 26985), (157, 27120), (163, 27186), (167, 27219),

Gene: AlleyCat_30 Start: 25527, Stop: 27161, Start Num: 18

Candidate Starts for AlleyCat_30:

(Start: 18 @25527 has 192 MA's), (Start: 20 @25533 has 1 MA's), (Start: 21 @25548 has 1 MA's), (29, 25611), (31, 25653), (35, 25677), (38, 25692), (43, 25740), (51, 25812), (52, 25815), (54, 25863), (56, 25884), (67, 26034), (68, 26046), (72, 26100), (80, 26208), (81, 26217), (86, 26286), (87, 26292), (88, 26295), (91, 26382), (94, 26436), (95, 26460), (99, 26508), (102, 26589), (108, 26673), (110, 26706), (111, 26709), (131, 26856), (132, 26862), (140, 26898), (143, 26916), (157, 27051), (163, 27117), (167, 27150),

Gene: Amao_32 Start: 28914, Stop: 30347, Start Num: 27

Candidate Starts for Amao_32:

(2, 28620), (Start: 18 @28845 has 192 MA's), (Start: 27 @28914 has 3 MA's), (34, 28992), (46, 29088), (48, 29109), (50, 29115), (54, 29199), (56, 29220), (59, 29271), (63, 29325), (69, 29400), (79, 29535), (81, 29547), (86, 29616), (88, 29625), (92, 29730), (97, 29799), (102, 29925), (108, 30006), (122, 30102), (126, 30129), (131, 30156), (132, 30162), (138, 30180), (143, 30216),

Gene: Amelie_26 Start: 24344, Stop: 25981, Start Num: 16

Candidate Starts for Amelie_26:

(Start: 16 @24344 has 15 MA's), (24, 24386), (28, 24425), (32, 24482), (34, 24491), (41, 24563), (47, 24590), (54, 24698), (56, 24719), (58, 24752), (69, 24896), (72, 24935), (81, 25052), (83, 25091), (85, 25100), (86, 25121), (87, 25127), (88, 25130), (92, 25235), (95, 25295), (102, 25424), (108, 25499), (120, 25592), (158, 25874), (165, 25955), (167, 25970),

Gene: AmericanBeauty_35 Start: 29628, Stop: 31130, Start Num: 18

Candidate Starts for AmericanBeauty_35:

(Start: 18 @29628 has 192 MA's), (Start: 27 @29697 has 3 MA's), (34, 29775), (46, 29871), (48, 29892), (50, 29898), (54, 29982), (56, 30003), (59, 30054), (63, 30108), (69, 30183), (79, 30318), (81,

30330), (86, 30399), (88, 30408), (92, 30513), (97, 30582), (102, 30708), (108, 30789), (122, 30885), (126, 30912), (131, 30939), (132, 30945), (138, 30963), (143, 30999),

Gene: Argent26_34 Start: 29631, Stop: 31133, Start Num: 18

Candidate Starts for Argent26_34:

(Start: 18 @29631 has 192 MA's), (Start: 27 @29700 has 3 MA's), (34, 29778), (46, 29874), (48, 29895), (50, 29901), (54, 29985), (56, 30006), (59, 30057), (63, 30111), (69, 30186), (79, 30321), (81, 30333), (86, 30402), (88, 30411), (92, 30516), (97, 30585), (102, 30711), (108, 30792), (126, 30915), (131, 30942), (132, 30948), (138, 30966), (143, 31002),

Gene: Asriel_31 Start: 28502, Stop: 30004, Start Num: 18

Candidate Starts for Asriel_31:

(Start: 18 @28502 has 192 MA's), (Start: 27 @28571 has 3 MA's), (34, 28649), (46, 28745), (48, 28766), (50, 28772), (54, 28856), (56, 28877), (59, 28928), (63, 28982), (68, 29042), (79, 29192), (81, 29204), (86, 29273), (88, 29282), (92, 29387), (97, 29456), (102, 29582), (108, 29663), (131, 29813), (132, 29819), (138, 29837), (143, 29873),

Gene: BAKA_51 Start: 40867, Stop: 42300, Start Num: 19

Candidate Starts for BAKA_51:

(14, 40834), (Start: 15 @40858 has 2 MA's), (Start: 19 @40867 has 13 MA's), (39, 41032), (40, 41053), (42, 41083), (48, 41125), (49, 41128), (56, 41236), (70, 41422), (73, 41473), (85, 41605), (88, 41638), (89, 41641), (100, 41833), (103, 41920), (107, 41983), (108, 42007), (109, 42016), (128, 42166), (137, 42199), (138, 42202),

Gene: BaboJay_31 Start: 29191, Stop: 30693, Start Num: 18

Candidate Starts for BaboJay_31:

(Start: 18 @29191 has 192 MA's), (Start: 27 @29260 has 3 MA's), (34, 29338), (46, 29434), (48, 29455), (50, 29461), (54, 29545), (56, 29566), (59, 29617), (63, 29671), (69, 29746), (79, 29881), (81, 29893), (86, 29962), (88, 29971), (92, 30076), (97, 30145), (102, 30271), (108, 30352), (126, 30475), (131, 30502), (132, 30508), (138, 30526), (143, 30562),

Gene: BadStone_31 Start: 29633, Stop: 31135, Start Num: 18

Candidate Starts for BadStone_31:

(Start: 18 @29633 has 192 MA's), (Start: 27 @29702 has 3 MA's), (34, 29780), (46, 29876), (48, 29897), (50, 29903), (54, 29987), (56, 30008), (59, 30059), (63, 30113), (69, 30188), (79, 30323), (81, 30335), (86, 30404), (88, 30413), (92, 30518), (97, 30587), (102, 30713), (108, 30794), (122, 30890), (126, 30917), (131, 30944), (132, 30950), (138, 30968), (143, 31004),

Gene: Balomoji_31 Start: 29367, Stop: 30869, Start Num: 18

Candidate Starts for Balomoji_31:

(Start: 18 @29367 has 192 MA's), (Start: 27 @29436 has 3 MA's), (34, 29514), (46, 29610), (48, 29631), (50, 29637), (54, 29721), (56, 29742), (59, 29793), (63, 29847), (69, 29922), (79, 30057), (81, 30069), (86, 30138), (88, 30147), (92, 30252), (97, 30321), (102, 30447), (108, 30528), (126, 30651), (131, 30678), (132, 30684), (138, 30702), (143, 30738),

Gene: Barbarian_31 Start: 28502, Stop: 30004, Start Num: 18

Candidate Starts for Barbarian_31:

(Start: 18 @28502 has 192 MA's), (Start: 27 @28571 has 3 MA's), (34, 28649), (46, 28745), (48, 28766), (50, 28772), (54, 28856), (56, 28877), (59, 28928), (63, 28982), (68, 29042), (79, 29192), (81, 29204), (86, 29273), (88, 29282), (92, 29387), (97, 29456), (102, 29582), (108, 29663), (131, 29813), (132, 29819), (138, 29837), (143, 29873),

Gene: Bask21_32 Start: 28819, Stop: 30321, Start Num: 18

Candidate Starts for Bask21_32:

(Start: 18 @28819 has 192 MA's), (Start: 27 @28888 has 3 MA's), (34, 28966), (46, 29062), (48, 29083), (50, 29089), (54, 29173), (56, 29194), (59, 29245), (63, 29299), (69, 29374), (79, 29509), (81, 29521), (86, 29590), (88, 29599), (92, 29704), (97, 29773), (102, 29899), (108, 29980), (122, 30076), (126, 30103), (131, 30130), (132, 30136), (138, 30154), (143, 30190),

Gene: Beem_47 Start: 40781, Stop: 42199, Start Num: 18

Candidate Starts for Beem_47:

(Start: 18 @40781 has 192 MA's), (26, 40835), (31, 40907), (34, 40928), (44, 41009), (51, 41066), (54, 41117), (55, 41129), (56, 41138), (59, 41189), (70, 41321), (73, 41372), (85, 41504), (88, 41537), (89, 41540), (100, 41732), (103, 41819), (107, 41882), (108, 41906), (109, 41915), (128, 42065), (137, 42098), (138, 42101),

Gene: Bench_34 Start: 29501, Stop: 31003, Start Num: 18

Candidate Starts for Bench_34:

(Start: 18 @29501 has 192 MA's), (Start: 27 @29570 has 3 MA's), (34, 29648), (46, 29744), (48, 29765), (50, 29771), (54, 29855), (56, 29876), (59, 29927), (63, 29981), (69, 30056), (79, 30191), (81, 30203), (86, 30272), (88, 30281), (92, 30386), (97, 30455), (102, 30581), (108, 30662), (126, 30785), (131, 30812), (132, 30818), (138, 30836), (143, 30872),

Gene: Bernal13_27 Start: 23579, Stop: 25162, Start Num: 18

Candidate Starts for Bernal13_27:

(Start: 18 @23579 has 192 MA's), (28, 23660), (30, 23678), (35, 23729), (37, 23741), (38, 23744), (54, 23915), (57, 23942), (68, 24104), (70, 24125), (72, 24149), (75, 24215), (80, 24257), (84, 24311), (88, 24353), (91, 24437), (93, 24473), (94, 24491), (102, 24641), (109, 24728), (123, 24839), (139, 24920), (161, 25121),

Gene: BigBubba_33 Start: 29404, Stop: 30906, Start Num: 18

Candidate Starts for BigBubba_33:

(Start: 18 @29404 has 192 MA's), (Start: 27 @29473 has 3 MA's), (34, 29551), (46, 29647), (48, 29668), (50, 29674), (54, 29758), (56, 29779), (59, 29830), (63, 29884), (69, 29959), (79, 30094), (81, 30106), (86, 30175), (88, 30184), (92, 30289), (97, 30358), (102, 30484), (108, 30565), (122, 30661), (126, 30688), (131, 30715), (132, 30721), (138, 30739), (143, 30775),

Gene: Biglebops_26 Start: 24344, Stop: 25981, Start Num: 16

Candidate Starts for Biglebops_26:

(Start: 16 @24344 has 15 MA's), (24, 24386), (28, 24425), (32, 24482), (34, 24491), (41, 24563), (47, 24590), (54, 24698), (56, 24719), (58, 24752), (69, 24896), (72, 24935), (81, 25052), (83, 25091), (85, 25100), (86, 25121), (87, 25127), (88, 25130), (92, 25235), (95, 25295), (102, 25424), (108, 25499), (120, 25592), (158, 25874), (165, 25955), (167, 25970),

Gene: BilboSwaggins_32 Start: 29710, Stop: 31143, Start Num: 27

Candidate Starts for BilboSwaggins_32:

(Start: 18 @29641 has 192 MA's), (Start: 27 @29710 has 3 MA's), (34, 29788), (46, 29884), (48, 29905), (50, 29911), (54, 29995), (56, 30016), (59, 30067), (63, 30121), (69, 30196), (79, 30331), (81, 30343), (86, 30412), (88, 30421), (92, 30526), (97, 30595), (102, 30721), (108, 30802), (131, 30952), (138, 30976), (143, 31012),

Gene: Bombitas_43 Start: 39837, Stop: 41255, Start Num: 18

Candidate Starts for Bombitas_43:

(Start: 18 @39837 has 192 MA's), (26, 39891), (31, 39963), (34, 39984), (44, 40065), (51, 40122), (54, 40173), (55, 40185), (56, 40194), (59, 40245), (70, 40377), (73, 40428), (78, 40503), (85, 40560), (88, 40593), (89, 40596), (100, 40788), (103, 40875), (107, 40938), (108, 40962), (109, 40971), (128,

41121), (137, 41154), (138, 41157),

Gene: Bruin_32 Start: 29661, Stop: 31163, Start Num: 18

Candidate Starts for Bruin_32:

(Start: 18 @29661 has 192 MA's), (Start: 27 @29730 has 3 MA's), (34, 29808), (46, 29904), (48, 29925), (50, 29931), (54, 30015), (56, 30036), (59, 30087), (63, 30141), (69, 30216), (79, 30351), (81, 30363), (86, 30432), (88, 30441), (92, 30546), (97, 30615), (102, 30741), (108, 30822), (126, 30945), (131, 30972), (132, 30978), (138, 30996), (143, 31032),

Gene: Bryler_30 Start: 24221, Stop: 25867, Start Num: 18

Candidate Starts for Bryler_30:

(Start: 18 @24221 has 192 MA's), (26, 24275), (28, 24302), (32, 24359), (34, 24368), (54, 24557), (56, 24578), (64, 24701), (69, 24755), (72, 24794), (86, 24980), (88, 24989), (92, 25094), (98, 25166), (99, 25202), (102, 25283), (108, 25361), (110, 25394), (113, 25406), (117, 25439), (121, 25466), (130, 25544), (139, 25589), (152, 25718), (157, 25757), (160, 25787), (165, 25841),

Gene: Buck_31 Start: 29597, Stop: 31099, Start Num: 18

Candidate Starts for Buck_31:

(Start: 18 @29597 has 192 MA's), (Start: 27 @29666 has 3 MA's), (34, 29744), (46, 29840), (48, 29861), (50, 29867), (54, 29951), (56, 29972), (59, 30023), (63, 30077), (69, 30152), (79, 30287), (81, 30299), (86, 30368), (88, 30377), (92, 30482), (97, 30551), (102, 30677), (108, 30758), (122, 30854), (126, 30881), (131, 30908), (132, 30914), (138, 30932), (143, 30968),

Gene: Cactus_33 Start: 28852, Stop: 30354, Start Num: 18

Candidate Starts for Cactus_33:

(Start: 18 @28852 has 192 MA's), (Start: 27 @28921 has 3 MA's), (34, 28999), (46, 29095), (48, 29116), (50, 29122), (54, 29206), (56, 29227), (59, 29278), (68, 29392), (79, 29542), (81, 29554), (86, 29623), (88, 29632), (92, 29737), (97, 29806), (102, 29932), (108, 30013), (131, 30163), (132, 30169), (138, 30187), (143, 30223),

Gene: Cain_30 Start: 24209, Stop: 25855, Start Num: 18

Candidate Starts for Cain_30:

(Start: 18 @24209 has 192 MA's), (26, 24263), (28, 24290), (32, 24347), (34, 24356), (54, 24545), (56, 24566), (64, 24689), (69, 24743), (72, 24782), (86, 24968), (88, 24977), (92, 25082), (98, 25154), (99, 25190), (102, 25271), (108, 25349), (110, 25382), (113, 25394), (117, 25427), (121, 25454), (130, 25532), (139, 25577), (152, 25706), (157, 25745), (160, 25775), (165, 25829),

Gene: Chancellor_31 Start: 26030, Stop: 27640, Start Num: 18

Candidate Starts for Chancellor_31:

(Start: 18 @26030 has 192 MA's), (Start: 27 @26099 has 3 MA's), (31, 26156), (32, 26168), (34, 26177), (35, 26180), (38, 26195), (50, 26282), (51, 26315), (54, 26366), (56, 26387), (68, 26549), (72, 26594), (81, 26711), (85, 26759), (86, 26780), (87, 26786), (88, 26789), (99, 27002), (102, 27083), (104, 27101), (108, 27164), (109, 27173), (120, 27236), (147, 27452), (156, 27512),

Gene: Cheetobro_31 Start: 26027, Stop: 27637, Start Num: 18

Candidate Starts for Cheetobro_31:

(Start: 18 @26027 has 192 MA's), (Start: 27 @26096 has 3 MA's), (31, 26153), (32, 26165), (34, 26174), (35, 26177), (38, 26192), (50, 26279), (51, 26312), (54, 26363), (56, 26384), (68, 26546), (72, 26591), (81, 26708), (85, 26756), (86, 26777), (87, 26783), (88, 26786), (99, 26999), (102, 27080), (104, 27098), (108, 27161), (109, 27170), (120, 27233), (147, 27449), (156, 27509),

Gene: ChosenOne_32 Start: 28849, Stop: 30351, Start Num: 18

Candidate Starts for ChosenOne_32:

(Start: 18 @28849 has 192 MA's), (Start: 27 @28918 has 3 MA's), (34, 28996), (46, 29092), (48, 29113), (50, 29119), (54, 29203), (56, 29224), (59, 29275), (63, 29329), (69, 29404), (79, 29539), (81, 29551), (86, 29620), (88, 29629), (92, 29734), (97, 29803), (102, 29929), (108, 30010), (126, 30133), (131, 30160), (132, 30166), (138, 30184), (143, 30220),

Gene: ChotaBhai_32 Start: 28887, Stop: 30389, Start Num: 18

Candidate Starts for ChotaBhai_32:

(Start: 18 @28887 has 192 MA's), (Start: 27 @28956 has 3 MA's), (34, 29034), (46, 29130), (48, 29151), (50, 29157), (54, 29241), (56, 29262), (59, 29313), (63, 29367), (69, 29442), (79, 29577), (81, 29589), (86, 29658), (88, 29667), (92, 29772), (97, 29841), (102, 29967), (108, 30048), (131, 30198), (132, 30204), (138, 30222), (143, 30258),

Gene: Chris_29 Start: 24088, Stop: 25749, Start Num: 16

Candidate Starts for Chris_29:

(Start: 16 @24088 has 15 MA's), (23, 24124), (24, 24127), (26, 24139), (28, 24166), (34, 24232), (48, 24349), (54, 24439), (56, 24460), (58, 24493), (68, 24622), (69, 24637), (72, 24676), (86, 24862), (88, 24871), (92, 24976), (99, 25084), (102, 25165), (108, 25246), (110, 25279), (115, 25300), (132, 25435), (144, 25507), (150, 25573), (165, 25723),

Gene: Cjw1_32 Start: 30401, Stop: 31903, Start Num: 18

Candidate Starts for Cjw1_32:

(Start: 18 @30401 has 192 MA's), (Start: 27 @30470 has 3 MA's), (34, 30548), (46, 30644), (48, 30665), (50, 30671), (54, 30755), (56, 30776), (59, 30827), (63, 30881), (69, 30956), (79, 31091), (81, 31103), (86, 31172), (88, 31181), (92, 31286), (97, 31355), (102, 31481), (108, 31562), (126, 31685), (131, 31712), (132, 31718), (138, 31736), (143, 31772),

Gene: Collard_29 Start: 25557, Stop: 27191, Start Num: 18

Candidate Starts for Collard_29:

(Start: 18 @25557 has 192 MA's), (Start: 20 @25563 has 1 MA's), (Start: 21 @25578 has 1 MA's), (31, 25683), (35, 25707), (38, 25722), (43, 25770), (51, 25842), (54, 25893), (56, 25914), (67, 26064), (68, 26076), (69, 26091), (72, 26130), (80, 26238), (81, 26247), (86, 26316), (87, 26322), (88, 26325), (95, 26490), (97, 26499), (99, 26538), (101, 26583), (102, 26619), (108, 26703), (110, 26736), (111, 26739), (131, 26886), (132, 26892), (140, 26928), (143, 26946), (157, 27081), (163, 27147), (167, 27180),

Gene: Command613_33 Start: 29908, Stop: 31410, Start Num: 18

Candidate Starts for Command613_33:

(Start: 18 @29908 has 192 MA's), (Start: 27 @29977 has 3 MA's), (34, 30055), (46, 30151), (48, 30172), (50, 30178), (54, 30262), (56, 30283), (59, 30334), (63, 30388), (69, 30463), (79, 30598), (81, 30610), (86, 30679), (88, 30688), (92, 30793), (97, 30862), (102, 30988), (108, 31069), (126, 31192), (131, 31219), (132, 31225), (138, 31243), (143, 31279),

Gene: Constella_39 Start: 36912, Stop: 38330, Start Num: 18

Candidate Starts for Constella_39:

(Start: 18 @36912 has 192 MA's), (26, 36966), (31, 37038), (33, 37053), (34, 37059), (44, 37140), (54, 37248), (55, 37260), (56, 37269), (58, 37302), (59, 37320), (70, 37452), (73, 37503), (85, 37635), (88, 37668), (89, 37671), (100, 37863), (103, 37950), (107, 38013), (108, 38037), (109, 38046), (116, 38091), (118, 38103), (128, 38196), (129, 38199), (137, 38229), (138, 38232),

Gene: Contagion_31 Start: 29145, Stop: 30647, Start Num: 18

Candidate Starts for Contagion_31:

(Start: 18 @29145 has 192 MA's), (Start: 27 @29214 has 3 MA's), (34, 29292), (46, 29388), (48, 29409), (50, 29415), (54, 29499), (56, 29520), (59, 29571), (63, 29625), (69, 29700), (79, 29835), (81,

29847), (86, 29916), (88, 29925), (92, 30030), (97, 30099), (102, 30225), (108, 30306), (131, 30456), (132, 30462), (138, 30480), (143, 30516),

Gene: Cookies_32 Start: 29510, Stop: 31012, Start Num: 18

Candidate Starts for Cookies_32:

(Start: 18 @29510 has 192 MA's), (Start: 27 @29579 has 3 MA's), (34, 29657), (46, 29753), (48, 29774), (50, 29780), (54, 29864), (56, 29885), (59, 29936), (63, 29990), (69, 30065), (79, 30200), (81, 30212), (86, 30281), (88, 30290), (92, 30395), (97, 30464), (102, 30590), (108, 30671), (131, 30821), (132, 30827), (138, 30845), (143, 30881),

Gene: CrystalP_32 Start: 29641, Stop: 31143, Start Num: 18

Candidate Starts for CrystalP_32:

(Start: 18 @29641 has 192 MA's), (Start: 27 @29710 has 3 MA's), (34, 29788), (46, 29884), (48, 29905), (50, 29911), (54, 29995), (56, 30016), (59, 30067), (63, 30121), (69, 30196), (79, 30331), (81, 30343), (86, 30412), (88, 30421), (92, 30526), (97, 30595), (102, 30721), (108, 30802), (131, 30952), (138, 30976), (143, 31012),

Gene: Czyszczone1_33 Start: 29386, Stop: 30888, Start Num: 18

Candidate Starts for Czyszczone1_33:

(Start: 18 @29386 has 192 MA's), (Start: 27 @29455 has 3 MA's), (34, 29533), (46, 29629), (48, 29650), (50, 29656), (54, 29740), (56, 29761), (59, 29812), (63, 29866), (69, 29941), (79, 30076), (81, 30088), (86, 30157), (88, 30166), (92, 30271), (97, 30340), (102, 30466), (108, 30547), (122, 30643), (126, 30670), (131, 30697), (132, 30703), (138, 30721), (143, 30757),

Gene: Dadosky_30 Start: 25528, Stop: 27162, Start Num: 18

Candidate Starts for Dadosky_30:

(Start: 18 @25528 has 192 MA's), (Start: 20 @25534 has 1 MA's), (Start: 21 @25549 has 1 MA's), (29, 25612), (31, 25654), (35, 25678), (38, 25693), (43, 25741), (51, 25813), (52, 25816), (54, 25864), (56, 25885), (67, 26035), (68, 26047), (72, 26101), (80, 26209), (81, 26218), (86, 26287), (87, 26293), (88, 26296), (91, 26383), (94, 26437), (95, 26461), (99, 26509), (102, 26590), (108, 26674), (110, 26707), (111, 26710), (131, 26857), (132, 26863), (140, 26899), (143, 26917), (157, 27052), (163, 27118), (167, 27151),

Gene: Daikon_31 Start: 29448, Stop: 30881, Start Num: 27

Candidate Starts for Daikon_31:

(Start: 18 @29379 has 192 MA's), (Start: 27 @29448 has 3 MA's), (34, 29526), (46, 29622), (48, 29643), (50, 29649), (54, 29733), (56, 29754), (59, 29805), (63, 29859), (69, 29934), (79, 30069), (81, 30081), (86, 30150), (88, 30159), (92, 30264), (97, 30333), (102, 30459), (108, 30540), (131, 30690), (138, 30714), (143, 30750),

Gene: Dallas_49 Start: 40306, Stop: 41724, Start Num: 18

Candidate Starts for Dallas_49:

(Start: 18 @40306 has 192 MA's), (26, 40360), (31, 40432), (34, 40453), (44, 40534), (51, 40591), (54, 40642), (55, 40654), (56, 40663), (59, 40714), (70, 40846), (73, 40897), (85, 41029), (88, 41062), (89, 41065), (90, 41110), (100, 41257), (103, 41344), (107, 41407), (108, 41431), (109, 41440), (128, 41590), (137, 41623), (138, 41626),

Gene: DmpstrDiver_48 Start: 40296, Stop: 41729, Start Num: 19

Candidate Starts for DmpstrDiver_48:

(14, 40263), (Start: 15 @40287 has 2 MA's), (Start: 19 @40296 has 13 MA's), (39, 40461), (40, 40482), (42, 40512), (48, 40554), (49, 40557), (56, 40665), (70, 40851), (73, 40902), (85, 41034), (88, 41067), (89, 41070), (100, 41262), (103, 41349), (107, 41412), (108, 41436), (109, 41445), (128, 41595), (137, 41628), (138, 41631),

Gene: DoctorDiddles_32 Start: 28803, Stop: 30305, Start Num: 18

Candidate Starts for DoctorDiddles_32:

(Start: 18 @28803 has 192 MA's), (Start: 27 @28872 has 3 MA's), (34, 28950), (46, 29046), (48, 29067), (50, 29073), (54, 29157), (56, 29178), (59, 29229), (63, 29283), (69, 29358), (79, 29493), (81, 29505), (86, 29574), (88, 29583), (92, 29688), (97, 29757), (102, 29883), (108, 29964), (122, 30060), (126, 30087), (131, 30114), (132, 30120), (138, 30138), (143, 30174),

Gene: Dove_46 Start: 39836, Stop: 41254, Start Num: 18

Candidate Starts for Dove_46:

(Start: 18 @39836 has 192 MA's), (26, 39890), (31, 39962), (34, 39983), (44, 40064), (51, 40121), (54, 40172), (55, 40184), (56, 40193), (59, 40244), (70, 40376), (73, 40427), (78, 40502), (85, 40559), (88, 40592), (89, 40595), (100, 40787), (103, 40874), (107, 40937), (108, 40961), (109, 40970), (125, 41099), (131, 41132), (137, 41153), (138, 41156),

Gene: DrDrey_33 Start: 30133, Stop: 31635, Start Num: 18

Candidate Starts for DrDrey_33:

(Start: 18 @30133 has 192 MA's), (Start: 27 @30202 has 3 MA's), (34, 30280), (46, 30376), (48, 30397), (50, 30403), (54, 30487), (56, 30508), (59, 30559), (63, 30613), (69, 30688), (79, 30823), (81, 30835), (86, 30904), (88, 30913), (92, 31018), (97, 31087), (102, 31213), (108, 31294), (131, 31444), (132, 31450), (138, 31468), (143, 31504),

Gene: Duke13_50 Start: 40614, Stop: 42047, Start Num: 19

Candidate Starts for Duke13_50:

(14, 40581), (Start: 15 @40605 has 2 MA's), (Start: 19 @40614 has 13 MA's), (39, 40779), (40, 40800), (42, 40830), (48, 40872), (49, 40875), (56, 40983), (70, 41169), (73, 41220), (85, 41352), (88, 41385), (89, 41388), (100, 41580), (103, 41667), (107, 41730), (108, 41754), (109, 41763), (128, 41913), (137, 41946), (138, 41949),

Gene: Dumbo_32 Start: 29108, Stop: 30610, Start Num: 18

Candidate Starts for Dumbo_32:

(Start: 18 @29108 has 192 MA's), (Start: 27 @29177 has 3 MA's), (34, 29255), (46, 29351), (48, 29372), (50, 29378), (54, 29462), (56, 29483), (59, 29534), (63, 29588), (69, 29663), (79, 29798), (81, 29810), (86, 29879), (88, 29888), (92, 29993), (97, 30062), (102, 30188), (108, 30269), (122, 30365), (126, 30392), (131, 30419), (132, 30425), (138, 30443), (143, 30479),

Gene: Dusk_31 Start: 29293, Stop: 30795, Start Num: 18

Candidate Starts for Dusk_31:

(Start: 18 @29293 has 192 MA's), (Start: 27 @29362 has 3 MA's), (34, 29440), (46, 29536), (48, 29557), (50, 29563), (54, 29647), (56, 29668), (59, 29719), (63, 29773), (69, 29848), (79, 29983), (81, 29995), (86, 30064), (88, 30073), (92, 30178), (97, 30247), (102, 30373), (108, 30454), (122, 30550), (126, 30577), (131, 30604), (132, 30610), (138, 30628), (143, 30664),

Gene: Easy2Say_34 Start: 30891, Stop: 32393, Start Num: 18

Candidate Starts for Easy2Say_34:

(Start: 18 @30891 has 192 MA's), (Start: 27 @30960 has 3 MA's), (34, 31038), (46, 31134), (48, 31155), (50, 31161), (54, 31245), (56, 31266), (59, 31317), (63, 31371), (69, 31446), (79, 31581), (81, 31593), (86, 31662), (88, 31671), (92, 31776), (97, 31845), (102, 31971), (108, 32052), (122, 32148), (126, 32175), (131, 32202), (132, 32208), (138, 32226), (143, 32262),

Gene: Edugator_29 Start: 25527, Stop: 27161, Start Num: 18

Candidate Starts for Edugator_29:

(Start: 18 @25527 has 192 MA's), (Start: 20 @25533 has 1 MA's), (Start: 21 @25548 has 1 MA's), (29, 25611), (31, 25653), (32, 25665), (35, 25677), (38, 25692), (43, 25740), (51, 25812), (52, 25815), (54, 25863), (56, 25884), (67, 26034), (68, 26046), (72, 26100), (80, 26208), (81, 26217), (86, 26286), (87, 26292), (88, 26295), (91, 26382), (94, 26436), (95, 26460), (99, 26508), (102, 26589), (108, 26673), (110, 26706), (111, 26709), (131, 26856), (132, 26862), (143, 26916), (157, 27051), (163, 27117), (167, 27150),

Gene: Ejimix_47 Start: 41566, Stop: 42984, Start Num: 18

Candidate Starts for Ejimix_47:

(Start: 18 @41566 has 192 MA's), (26, 41620), (31, 41692), (34, 41713), (44, 41794), (51, 41851), (54, 41902), (55, 41914), (56, 41923), (59, 41974), (70, 42106), (73, 42157), (85, 42289), (88, 42322), (89, 42325), (100, 42517), (103, 42604), (107, 42667), (108, 42691), (109, 42700), (128, 42850), (137, 42883), (138, 42886),

Gene: Elite2014_31 Start: 28848, Stop: 30350, Start Num: 18

Candidate Starts for Elite2014_31:

(Start: 18 @28848 has 192 MA's), (Start: 27 @28917 has 3 MA's), (34, 28995), (46, 29091), (48, 29112), (50, 29118), (54, 29202), (56, 29223), (59, 29274), (63, 29328), (69, 29403), (79, 29538), (81, 29550), (86, 29619), (88, 29628), (92, 29733), (97, 29802), (102, 29928), (108, 30009), (126, 30132), (131, 30159), (132, 30165), (138, 30183), (143, 30219),

Gene: Elph10_33 Start: 29111, Stop: 30613, Start Num: 18

Candidate Starts for Elph10_33:

(Start: 18 @29111 has 192 MA's), (Start: 27 @29180 has 3 MA's), (34, 29258), (46, 29354), (48, 29375), (50, 29381), (54, 29465), (56, 29486), (59, 29537), (63, 29591), (69, 29666), (79, 29801), (81, 29813), (86, 29882), (88, 29891), (92, 29996), (97, 30065), (102, 30191), (108, 30272), (122, 30368), (126, 30395), (131, 30422), (132, 30428), (138, 30446), (143, 30482),

Gene: Emmina_33 Start: 29469, Stop: 30971, Start Num: 18

Candidate Starts for Emmina_33:

(Start: 18 @29469 has 192 MA's), (Start: 27 @29538 has 3 MA's), (34, 29616), (46, 29712), (48, 29733), (50, 29739), (54, 29823), (56, 29844), (59, 29895), (63, 29949), (69, 30024), (79, 30159), (81, 30171), (86, 30240), (88, 30249), (92, 30354), (97, 30423), (102, 30549), (108, 30630), (126, 30753), (131, 30780), (132, 30786), (138, 30804), (143, 30840),

Gene: Enkosi_26 Start: 24344, Stop: 25981, Start Num: 16

Candidate Starts for Enkosi_26:

(Start: 16 @24344 has 15 MA's), (24, 24386), (28, 24425), (32, 24482), (34, 24491), (41, 24563), (47, 24590), (54, 24698), (56, 24719), (58, 24752), (69, 24896), (72, 24935), (81, 25052), (83, 25091), (85, 25100), (86, 25121), (87, 25127), (88, 25130), (92, 25235), (95, 25295), (102, 25424), (108, 25499), (120, 25592), (158, 25874), (165, 25955), (167, 25970),

Gene: Eponine_33 Start: 26784, Stop: 28394, Start Num: 18

Candidate Starts for Eponine_33:

(Start: 18 @26784 has 192 MA's), (Start: 27 @26853 has 3 MA's), (31, 26910), (32, 26922), (34, 26931), (35, 26934), (38, 26949), (45, 27003), (50, 27036), (51, 27069), (54, 27120), (56, 27141), (58, 27174), (68, 27303), (72, 27348), (81, 27465), (85, 27513), (86, 27534), (87, 27540), (88, 27543), (92, 27648), (99, 27756), (102, 27837), (104, 27855), (108, 27918), (109, 27927), (120, 27990), (147, 28206), (156, 28266),

Gene: EricMillard_47 Start: 41067, Stop: 42485, Start Num: 18

Candidate Starts for EricMillard_47:

(Start: 18 @41067 has 192 MA's), (26, 41121), (31, 41193), (34, 41214), (44, 41295), (51, 41352), (54, 41403), (55, 41415), (56, 41424), (59, 41475), (70, 41607), (73, 41658), (85, 41790), (88, 41823), (89, 41826), (100, 42018), (103, 42105), (107, 42168), (108, 42192), (109, 42201), (128, 42351), (137, 42384), (138, 42387),

Gene: Eureka_32 Start: 29624, Stop: 31126, Start Num: 18

Candidate Starts for Eureka_32:

(Start: 18 @29624 has 192 MA's), (Start: 27 @29693 has 3 MA's), (34, 29771), (46, 29867), (48, 29888), (50, 29894), (54, 29978), (56, 29999), (59, 30050), (63, 30104), (69, 30179), (79, 30314), (81, 30326), (86, 30395), (88, 30404), (92, 30509), (97, 30578), (102, 30704), (108, 30785), (122, 30881), (131, 30935), (132, 30941), (138, 30959), (143, 30995),

Gene: Feyre_29 Start: 25333, Stop: 26967, Start Num: 18

Candidate Starts for Feyre_29:

(Start: 18 @25333 has 192 MA's), (Start: 20 @25339 has 1 MA's), (Start: 21 @25354 has 1 MA's), (31, 25459), (35, 25483), (38, 25498), (43, 25546), (51, 25618), (52, 25621), (54, 25669), (56, 25690), (65, 25819), (67, 25840), (68, 25852), (69, 25867), (72, 25906), (80, 26014), (81, 26023), (86, 26092), (87, 26098), (88, 26101), (92, 26206), (94, 26242), (95, 26266), (99, 26314), (102, 26395), (108, 26479), (110, 26512), (111, 26515), (122, 26608), (126, 26635), (131, 26662), (132, 26668), (140, 26704), (143, 26722), (144, 26740), (146, 26773), (148, 26797), (153, 26833), (155, 26848), (157, 26857), (163, 26923), (165, 26941),

Gene: Filch_33 Start: 29399, Stop: 30901, Start Num: 18

Candidate Starts for Filch_33:

(Start: 18 @29399 has 192 MA's), (Start: 27 @29468 has 3 MA's), (34, 29546), (46, 29642), (48, 29663), (50, 29669), (54, 29753), (56, 29774), (59, 29825), (63, 29879), (69, 29954), (79, 30089), (81, 30101), (86, 30170), (88, 30179), (92, 30284), (97, 30353), (102, 30479), (108, 30560), (126, 30683), (131, 30710), (132, 30716), (138, 30734), (143, 30770),

Gene: Fionnbharth_31 Start: 26020, Stop: 27630, Start Num: 18

Candidate Starts for Fionnbharth_31:

(Start: 18 @26020 has 192 MA's), (Start: 27 @26089 has 3 MA's), (31, 26146), (32, 26158), (34, 26167), (35, 26170), (38, 26185), (45, 26239), (50, 26272), (51, 26305), (54, 26356), (56, 26377), (58, 26410), (61, 26467), (68, 26539), (72, 26584), (81, 26701), (85, 26749), (86, 26770), (87, 26776), (88, 26779), (92, 26884), (99, 26992), (102, 27073), (104, 27091), (108, 27154), (109, 27163), (120, 27226), (147, 27442), (156, 27502),

Gene: FireRed_32 Start: 29669, Stop: 31171, Start Num: 18

Candidate Starts for FireRed_32:

(Start: 18 @29669 has 192 MA's), (Start: 27 @29738 has 3 MA's), (34, 29816), (46, 29912), (48, 29933), (50, 29939), (54, 30023), (56, 30044), (59, 30095), (63, 30149), (69, 30224), (79, 30359), (81, 30371), (86, 30440), (88, 30449), (92, 30554), (97, 30623), (102, 30749), (108, 30830), (122, 30926), (126, 30953), (131, 30980), (132, 30986), (138, 31004), (143, 31040),

Gene: Flypotenuse_30 Start: 29237, Stop: 30739, Start Num: 18

Candidate Starts for Flypotenuse_30:

(Start: 18 @29237 has 192 MA's), (Start: 27 @29306 has 3 MA's), (34, 29384), (46, 29480), (48, 29501), (50, 29507), (54, 29591), (56, 29612), (59, 29663), (63, 29717), (69, 29792), (79, 29927), (81, 29939), (86, 30008), (88, 30017), (92, 30122), (97, 30191), (102, 30317), (108, 30398), (131, 30548), (132, 30554), (138, 30572), (143, 30608),

Gene: Gage_34 Start: 29631, Stop: 31133, Start Num: 18

Candidate Starts for Gage_34:

(Start: 18 @29631 has 192 MA's), (Start: 27 @29700 has 3 MA's), (34, 29778), (46, 29874), (48, 29895), (50, 29901), (54, 29985), (56, 30006), (59, 30057), (63, 30111), (69, 30186), (79, 30321), (81, 30333), (86, 30402), (88, 30411), (92, 30516), (97, 30585), (102, 30711), (108, 30792), (126, 30915), (131, 30942), (132, 30948), (138, 30966), (143, 31002),

Gene: Gaia_32 Start: 28916, Stop: 30328, Start Num: 19

Candidate Starts for Gaia_32:

(3, 28700), (4, 28709), (5, 28712), (8, 28784), (9, 28787), (11, 28859), (12, 28871), (13, 28877), (Start: 19 @28916 has 13 MA's), (Start: 20 @28919 has 1 MA's), (Start: 27 @28982 has 3 MA's), (35, 29063), (39, 29081), (40, 29102), (42, 29132), (48, 29174), (49, 29177), (50, 29180), (56, 29285), (70, 29471), (71, 29477), (73, 29522), (88, 29687), (91, 29768), (100, 29882), (102, 29966), (103, 29969), (106, 30029), (107, 30032), (108, 30056), (112, 30080), (114, 30083), (131, 30209), (132, 30215), (137, 30230), (138, 30233),

Gene: Gator_30 Start: 29249, Stop: 30751, Start Num: 18

Candidate Starts for Gator_30:

(Start: 18 @29249 has 192 MA's), (Start: 27 @29318 has 3 MA's), (34, 29396), (46, 29492), (48, 29513), (50, 29519), (54, 29603), (56, 29624), (59, 29675), (63, 29729), (69, 29804), (79, 29939), (81, 29951), (86, 30020), (88, 30029), (92, 30134), (97, 30203), (102, 30329), (108, 30410), (122, 30506), (126, 30533), (131, 30560), (132, 30566), (138, 30584), (143, 30620),

Gene: Gemini_35 Start: 30148, Stop: 31650, Start Num: 18

Candidate Starts for Gemini_35:

(Start: 18 @30148 has 192 MA's), (Start: 27 @30217 has 3 MA's), (34, 30295), (46, 30391), (48, 30412), (50, 30418), (54, 30502), (56, 30523), (59, 30574), (63, 30628), (69, 30703), (79, 30838), (81, 30850), (86, 30919), (88, 30928), (92, 31033), (97, 31102), (102, 31228), (108, 31309), (126, 31432), (131, 31459), (132, 31465), (138, 31483), (143, 31519),

Gene: Gengar_29 Start: 25443, Stop: 27077, Start Num: 18

Candidate Starts for Gengar_29:

(Start: 18 @25443 has 192 MA's), (Start: 20 @25449 has 1 MA's), (Start: 21 @25464 has 1 MA's), (31, 25569), (35, 25593), (38, 25608), (43, 25656), (51, 25728), (52, 25731), (54, 25779), (56, 25800), (65, 25929), (67, 25950), (68, 25962), (69, 25977), (72, 26016), (80, 26124), (81, 26133), (86, 26202), (87, 26208), (88, 26211), (92, 26316), (94, 26352), (95, 26376), (99, 26424), (102, 26505), (108, 26589), (110, 26622), (111, 26625), (122, 26718), (126, 26745), (131, 26772), (132, 26778), (140, 26814), (143, 26832), (144, 26850), (146, 26883), (148, 26907), (153, 26943), (155, 26958), (157, 26967), (163, 27033), (165, 27051),

Gene: Glexan_30 Start: 29237, Stop: 30739, Start Num: 18

Candidate Starts for Glexan_30:

(Start: 18 @29237 has 192 MA's), (Start: 27 @29306 has 3 MA's), (34, 29384), (46, 29480), (48, 29501), (50, 29507), (54, 29591), (56, 29612), (59, 29663), (63, 29717), (69, 29792), (79, 29927), (81, 29939), (86, 30008), (88, 30017), (92, 30122), (97, 30191), (102, 30317), (108, 30398), (131, 30548), (132, 30554), (138, 30572), (143, 30608),

Gene: Goku_32 Start: 29353, Stop: 30855, Start Num: 18

Candidate Starts for Goku_32:

(Start: 18 @29353 has 192 MA's), (Start: 27 @29422 has 3 MA's), (34, 29500), (46, 29596), (48, 29617), (50, 29623), (54, 29707), (56, 29728), (59, 29779), (63, 29833), (69, 29908), (79, 30043), (81, 30055), (86, 30124), (88, 30133), (92, 30238), (97, 30307), (102, 30433), (108, 30514), (122, 30610), (131, 30664), (132, 30670), (138, 30688), (143, 30724),

Gene: GoldenSpark_34 Start: 29631, Stop: 31133, Start Num: 18

Candidate Starts for GoldenSpark_34:

(Start: 18 @29631 has 192 MA's), (Start: 27 @29700 has 3 MA's), (34, 29778), (46, 29874), (48, 29895), (50, 29901), (54, 29985), (56, 30006), (59, 30057), (63, 30111), (69, 30186), (79, 30321), (81, 30333), (86, 30402), (88, 30411), (92, 30516), (97, 30585), (102, 30711), (108, 30792), (126, 30915), (131, 30942), (132, 30948), (138, 30966), (143, 31002),

Gene: Goldilocks_33 Start: 29051, Stop: 30553, Start Num: 18

Candidate Starts for Goldilocks_33:

(Start: 18 @29051 has 192 MA's), (Start: 27 @29120 has 3 MA's), (34, 29198), (46, 29294), (48, 29315), (50, 29321), (54, 29405), (56, 29426), (59, 29477), (63, 29531), (69, 29606), (79, 29741), (81, 29753), (86, 29822), (88, 29831), (92, 29936), (97, 30005), (102, 30131), (108, 30212), (122, 30308), (126, 30335), (131, 30362), (132, 30368), (138, 30386), (143, 30422),

Gene: GooberAzure_34 Start: 29631, Stop: 31133, Start Num: 18

Candidate Starts for GooberAzure_34:

(Start: 18 @29631 has 192 MA's), (Start: 27 @29700 has 3 MA's), (34, 29778), (46, 29874), (48, 29895), (50, 29901), (54, 29985), (56, 30006), (59, 30057), (63, 30111), (69, 30186), (79, 30321), (81, 30333), (86, 30402), (88, 30411), (92, 30516), (97, 30585), (102, 30711), (108, 30792), (126, 30915), (131, 30942), (132, 30948), (138, 30966), (143, 31002),

Gene: Guillsminger_29 Start: 25421, Stop: 27049, Start Num: 20

Candidate Starts for Guillsminger_29:

(Start: 18 @25415 has 192 MA's), (Start: 20 @25421 has 1 MA's), (Start: 21 @25436 has 1 MA's), (31, 25541), (35, 25565), (38, 25580), (43, 25628), (51, 25700), (52, 25703), (54, 25751), (56, 25772), (65, 25901), (67, 25922), (68, 25934), (69, 25949), (72, 25988), (80, 26096), (81, 26105), (86, 26174), (87, 26180), (88, 26183), (92, 26288), (94, 26324), (95, 26348), (99, 26396), (102, 26477), (108, 26561), (110, 26594), (111, 26597), (122, 26690), (126, 26717), (131, 26744), (132, 26750), (140, 26786), (143, 26804), (144, 26822), (146, 26855), (155, 26930), (157, 26939), (163, 27005), (165, 27023),

Gene: Halley_47 Start: 40780, Stop: 42198, Start Num: 18

Candidate Starts for Halley_47:

(Start: 18 @40780 has 192 MA's), (26, 40834), (31, 40906), (34, 40927), (44, 41008), (51, 41065), (54, 41116), (55, 41128), (56, 41137), (59, 41188), (70, 41320), (73, 41371), (85, 41503), (88, 41536), (89, 41539), (100, 41731), (103, 41818), (107, 41881), (108, 41905), (109, 41914), (128, 42064), (137, 42097), (138, 42100),

Gene: HanKaySha_33 Start: 29383, Stop: 30885, Start Num: 18

Candidate Starts for HanKaySha_33:

(Start: 18 @29383 has 192 MA's), (Start: 27 @29452 has 3 MA's), (34, 29530), (46, 29626), (48, 29647), (50, 29653), (54, 29737), (56, 29758), (59, 29809), (63, 29863), (69, 29938), (79, 30073), (81, 30085), (86, 30154), (88, 30163), (92, 30268), (97, 30337), (102, 30463), (108, 30544), (122, 30640), (126, 30667), (131, 30694), (132, 30700), (138, 30718), (143, 30754),

Gene: Hannaconda_42 Start: 34598, Stop: 36019, Start Num: 18

Candidate Starts for Hannaconda_42:

(Start: 18 @34598 has 192 MA's), (34, 34745), (54, 34934), (56, 34955), (59, 35006), (70, 35138), (73, 35189), (88, 35354), (90, 35402), (103, 35636), (107, 35699), (108, 35723), (109, 35732), (128, 35882), (137, 35915), (138, 35918),

Gene: Harella_31 Start: 29753, Stop: 31255, Start Num: 18

Candidate Starts for Harella_31:

(Start: 18 @29753 has 192 MA's), (Start: 27 @29822 has 3 MA's), (34, 29900), (46, 29996), (48, 30017), (50, 30023), (54, 30107), (56, 30128), (59, 30179), (63, 30233), (69, 30308), (79, 30443), (81, 30455), (86, 30524), (88, 30533), (92, 30638), (97, 30707), (102, 30833), (108, 30914), (131, 31064), (132, 31070), (138, 31088), (143, 31124),

Gene: Heftyboy_29 Start: 25564, Stop: 27198, Start Num: 18

Candidate Starts for Heftyboy_29:

(Start: 18 @25564 has 192 MA's), (Start: 20 @25570 has 1 MA's), (Start: 21 @25585 has 1 MA's), (31, 25690), (35, 25714), (43, 25777), (51, 25849), (52, 25852), (54, 25900), (56, 25921), (65, 26050), (67, 26071), (68, 26083), (69, 26098), (72, 26137), (76, 26230), (80, 26245), (81, 26254), (86, 26323), (87, 26329), (88, 26332), (95, 26497), (99, 26545), (102, 26626), (108, 26710), (110, 26743), (111, 26746), (126, 26866), (131, 26893), (132, 26899), (140, 26935), (143, 26953), (144, 26971), (153, 27064), (155, 27079), (157, 27088), (163, 27154),

Gene: Henry_33 Start: 29641, Stop: 31143, Start Num: 18

Candidate Starts for Henry_33:

(Start: 18 @29641 has 192 MA's), (Start: 27 @29710 has 3 MA's), (34, 29788), (46, 29884), (48, 29905), (50, 29911), (54, 29995), (56, 30016), (59, 30067), (63, 30121), (69, 30196), (79, 30331), (81, 30343), (86, 30412), (88, 30421), (92, 30526), (97, 30595), (102, 30721), (108, 30802), (131, 30952), (138, 30976), (143, 31012),

Gene: Highbury_33 Start: 29299, Stop: 30801, Start Num: 18

Candidate Starts for Highbury_33:

(Start: 18 @29299 has 192 MA's), (Start: 27 @29368 has 3 MA's), (34, 29446), (46, 29542), (48, 29563), (50, 29569), (54, 29653), (56, 29674), (59, 29725), (63, 29779), (69, 29854), (79, 29989), (81, 30001), (86, 30070), (88, 30079), (92, 30184), (97, 30253), (102, 30379), (108, 30460), (122, 30556), (126, 30583), (131, 30610), (132, 30616), (138, 30634), (143, 30670),

Gene: HokkenD_40 Start: 39049, Stop: 40467, Start Num: 18

Candidate Starts for HokkenD_40:

(Start: 18 @39049 has 192 MA's), (26, 39103), (31, 39175), (34, 39196), (44, 39277), (51, 39334), (54, 39385), (55, 39397), (56, 39406), (59, 39457), (70, 39589), (73, 39640), (85, 39772), (88, 39805), (89, 39808), (100, 40000), (103, 40087), (107, 40150), (108, 40174), (109, 40183), (128, 40333), (137, 40366), (138, 40369),

Gene: Holt_33 Start: 28918, Stop: 30420, Start Num: 18

Candidate Starts for Holt_33:

(Start: 18 @28918 has 192 MA's), (Start: 27 @28987 has 3 MA's), (34, 29065), (46, 29161), (48, 29182), (50, 29188), (54, 29272), (56, 29293), (59, 29344), (63, 29398), (69, 29473), (79, 29608), (81, 29620), (86, 29689), (88, 29698), (92, 29803), (97, 29872), (102, 29998), (108, 30079), (122, 30175), (126, 30202), (131, 30229), (132, 30235), (138, 30253), (143, 30289),

Gene: Hoonter_34 Start: 29631, Stop: 31133, Start Num: 18

Candidate Starts for Hoonter_34:

(Start: 18 @29631 has 192 MA's), (Start: 27 @29700 has 3 MA's), (34, 29778), (46, 29874), (48, 29895), (50, 29901), (54, 29985), (56, 30006), (59, 30057), (63, 30111), (69, 30186), (79, 30321), (81, 30333), (86, 30402), (88, 30411), (92, 30516), (97, 30585), (102, 30711), (108, 30792), (122, 30888), (126, 30915), (131, 30942), (132, 30948), (138, 30966), (143, 31002),

Gene: Hopey_34 Start: 29918, Stop: 31420, Start Num: 18

Candidate Starts for Hopey_34:

(Start: 18 @29918 has 192 MA's), (Start: 27 @29987 has 3 MA's), (34, 30065), (46, 30161), (48, 30182), (50, 30188), (54, 30272), (56, 30293), (59, 30344), (63, 30398), (69, 30473), (79, 30608), (81,

30620), (86, 30689), (88, 30698), (92, 30803), (97, 30872), (102, 30998), (108, 31079), (122, 31175), (126, 31202), (131, 31229), (132, 31235), (138, 31253), (143, 31289),

Gene: HufflyPuff_31 Start: 29625, Stop: 31127, Start Num: 18

Candidate Starts for HufflyPuff_31:

(Start: 18 @29625 has 192 MA's), (Start: 27 @29694 has 3 MA's), (34, 29772), (46, 29868), (48, 29889), (50, 29895), (54, 29979), (56, 30000), (59, 30051), (63, 30105), (69, 30180), (79, 30315), (81, 30327), (86, 30396), (88, 30405), (92, 30510), (97, 30579), (102, 30705), (108, 30786), (122, 30882), (126, 30909), (131, 30936), (132, 30942), (138, 30960), (143, 30996),

Gene: Hughesyang_45 Start: 40709, Stop: 42127, Start Num: 18

Candidate Starts for Hughesyang_45:

(Start: 18 @40709 has 192 MA's), (26, 40763), (31, 40835), (34, 40856), (44, 40937), (51, 40994), (54, 41045), (55, 41057), (56, 41066), (59, 41117), (70, 41249), (73, 41300), (85, 41432), (88, 41465), (89, 41468), (100, 41660), (103, 41747), (107, 41810), (108, 41834), (109, 41843), (128, 41993), (137, 42026), (138, 42029),

Gene: Hurricane_31 Start: 25714, Stop: 27399, Start Num: 19

Candidate Starts for Hurricane_31:

(Start: 19 @25714 has 13 MA's), (28, 25792), (34, 25858), (36, 25864), (48, 25957), (53, 26005), (54, 26047), (55, 26059), (56, 26068), (69, 26248), (72, 26287), (81, 26404), (85, 26452), (86, 26473), (87, 26479), (88, 26482), (92, 26587), (97, 26656), (101, 26740), (102, 26776), (108, 26854), (110, 26887), (121, 26959), (134, 27052), (139, 27082),

Gene: IHOP_32 Start: 29818, Stop: 31320, Start Num: 18

Candidate Starts for IHOP_32:

(Start: 18 @29818 has 192 MA's), (Start: 27 @29887 has 3 MA's), (34, 29965), (46, 30061), (48, 30082), (50, 30088), (54, 30172), (56, 30193), (59, 30244), (63, 30298), (69, 30373), (79, 30508), (81, 30520), (86, 30589), (88, 30598), (92, 30703), (97, 30772), (102, 30898), (108, 30979), (126, 31102), (131, 31129), (132, 31135), (138, 31153), (143, 31189),

Gene: Ibrahim_27 Start: 23579, Stop: 25162, Start Num: 18

Candidate Starts for Ibrahim_27:

(Start: 18 @23579 has 192 MA's), (28, 23660), (30, 23678), (35, 23729), (37, 23741), (38, 23744), (54, 23915), (57, 23942), (68, 24104), (70, 24125), (72, 24149), (75, 24215), (80, 24257), (84, 24311), (88, 24353), (91, 24437), (93, 24473), (94, 24491), (102, 24641), (109, 24728), (123, 24839), (139, 24920), (161, 25121),

Gene: Icee_31 Start: 29299, Stop: 30801, Start Num: 18

Candidate Starts for Icee_31:

(Start: 18 @29299 has 192 MA's), (Start: 27 @29368 has 3 MA's), (34, 29446), (46, 29542), (48, 29563), (50, 29569), (54, 29653), (56, 29674), (59, 29725), (68, 29839), (79, 29989), (81, 30001), (86, 30070), (88, 30079), (92, 30184), (97, 30253), (102, 30379), (108, 30460), (131, 30610), (132, 30616), (138, 30634), (143, 30670),

Gene: Inca_31 Start: 28320, Stop: 29822, Start Num: 18

Candidate Starts for Inca_31:

(Start: 18 @28320 has 192 MA's), (Start: 27 @28389 has 3 MA's), (34, 28467), (46, 28563), (48, 28584), (50, 28590), (54, 28674), (56, 28695), (59, 28746), (63, 28800), (69, 28875), (79, 29010), (81, 29022), (86, 29091), (88, 29100), (92, 29205), (97, 29274), (102, 29400), (108, 29481), (126, 29604), (131, 29631), (132, 29637), (138, 29655), (143, 29691),

Gene: InvictusManeo_29 Start: 25600, Stop: 27234, Start Num: 18

Candidate Starts for InvictusManeo_29:

(Start: 18 @25600 has 192 MA's), (Start: 20 @25606 has 1 MA's), (Start: 21 @25621 has 1 MA's), (31, 25726), (35, 25750), (38, 25765), (43, 25813), (51, 25885), (54, 25936), (56, 25957), (67, 26107), (68, 26119), (69, 26134), (72, 26173), (80, 26281), (81, 26290), (86, 26359), (87, 26365), (88, 26368), (95, 26533), (97, 26542), (99, 26581), (101, 26626), (102, 26662), (108, 26746), (110, 26779), (111, 26782), (131, 26929), (132, 26935), (140, 26971), (143, 26989), (157, 27124), (163, 27190), (167, 27223),

Gene: JF1_31 Start: 26019, Stop: 27629, Start Num: 18

Candidate Starts for JF1_31:

(Start: 18 @26019 has 192 MA's), (Start: 27 @26088 has 3 MA's), (31, 26145), (32, 26157), (34, 26166), (35, 26169), (38, 26184), (45, 26238), (50, 26271), (51, 26304), (54, 26355), (56, 26376), (58, 26409), (61, 26466), (68, 26538), (72, 26583), (81, 26700), (85, 26748), (86, 26769), (87, 26775), (88, 26778), (92, 26883), (99, 26991), (102, 27072), (104, 27090), (108, 27153), (109, 27162), (120, 27225), (147, 27441), (156, 27501),

Gene: JeTaime_34 Start: 30442, Stop: 31944, Start Num: 18

Candidate Starts for JeTaime_34:

(Start: 18 @30442 has 192 MA's), (Start: 27 @30511 has 3 MA's), (34, 30589), (46, 30685), (48, 30706), (50, 30712), (54, 30796), (56, 30817), (59, 30868), (63, 30922), (69, 30997), (79, 31132), (81, 31144), (86, 31213), (88, 31222), (92, 31327), (97, 31396), (102, 31522), (108, 31603), (122, 31699), (126, 31726), (131, 31753), (132, 31759), (138, 31777), (143, 31813),

Gene: JuicyJay_49 Start: 42529, Stop: 43947, Start Num: 18

Candidate Starts for JuicyJay_49:

(Start: 18 @42529 has 192 MA's), (26, 42583), (31, 42655), (34, 42676), (44, 42757), (51, 42814), (54, 42865), (55, 42877), (56, 42886), (59, 42937), (70, 43069), (73, 43120), (78, 43195), (85, 43252), (88, 43285), (89, 43288), (100, 43480), (103, 43567), (107, 43630), (108, 43654), (109, 43663), (128, 43813), (137, 43846), (138, 43849),

Gene: Juliette_33 Start: 26178, Stop: 27788, Start Num: 18

Candidate Starts for Juliette_33:

(Start: 18 @26178 has 192 MA's), (Start: 27 @26247 has 3 MA's), (31, 26304), (32, 26316), (34, 26325), (35, 26328), (38, 26343), (50, 26430), (51, 26463), (54, 26514), (56, 26535), (58, 26568), (68, 26697), (72, 26742), (81, 26859), (85, 26907), (86, 26928), (87, 26934), (88, 26937), (99, 27150), (102, 27231), (104, 27249), (108, 27312), (109, 27321), (120, 27384), (147, 27600), (156, 27660),

Gene: Kalah2_47 Start: 41117, Stop: 42535, Start Num: 18

Candidate Starts for Kalah2_47:

(Start: 18 @41117 has 192 MA's), (26, 41171), (31, 41243), (34, 41264), (44, 41345), (51, 41402), (54, 41453), (55, 41465), (56, 41474), (59, 41525), (70, 41657), (73, 41708), (85, 41840), (88, 41873), (89, 41876), (100, 42068), (103, 42155), (107, 42218), (108, 42242), (109, 42251), (128, 42401), (137, 42434), (138, 42437),

Gene: Kanye_34 Start: 30627, Stop: 32129, Start Num: 18

Candidate Starts for Kanye_34:

(Start: 18 @30627 has 192 MA's), (Start: 27 @30696 has 3 MA's), (34, 30774), (46, 30870), (48, 30891), (50, 30897), (54, 30981), (56, 31002), (59, 31053), (63, 31107), (69, 31182), (79, 31317), (81, 31329), (86, 31398), (88, 31407), (92, 31512), (97, 31581), (102, 31707), (108, 31788), (122, 31884), (126, 31911), (131, 31938), (132, 31944), (138, 31962), (143, 31998),

Gene: KashFlow_39 Start: 34219, Stop: 35640, Start Num: 18

Candidate Starts for KashFlow_39:

(Start: 18 @34219 has 192 MA's), (34, 34366), (54, 34555), (56, 34576), (59, 34627), (70, 34759), (73, 34810), (88, 34975), (90, 35023), (103, 35257), (107, 35320), (108, 35344), (109, 35353), (128, 35503), (137, 35536), (138, 35539),

Gene: Keshu_31 Start: 25708, Stop: 27387, Start Num: 19

Candidate Starts for Keshu_31:

(Start: 19 @25708 has 13 MA's), (28, 25786), (34, 25852), (36, 25858), (48, 25951), (54, 26041), (55, 26053), (56, 26062), (69, 26242), (72, 26281), (81, 26398), (85, 26446), (86, 26467), (87, 26473), (88, 26476), (92, 26581), (97, 26650), (101, 26734), (102, 26770), (108, 26851), (121, 26956), (134, 27049), (139, 27079), (151, 27196), (155, 27271),

Gene: KiSi_29 Start: 23968, Stop: 25626, Start Num: 16

Candidate Starts for KiSi_29:

(Start: 16 @23968 has 15 MA's), (32, 24103), (34, 24112), (35, 24115), (38, 24130), (46, 24208), (54, 24319), (56, 24340), (58, 24373), (62, 24439), (68, 24502), (69, 24517), (72, 24556), (81, 24673), (86, 24742), (88, 24751), (92, 24856), (95, 24916), (99, 24964), (102, 25045), (108, 25123), (110, 25156), (130, 25303), (132, 25312), (144, 25384), (150, 25450), (165, 25600),

Gene: Kimchi_34 Start: 29634, Stop: 31136, Start Num: 18

Candidate Starts for Kimchi_34:

(Start: 18 @29634 has 192 MA's), (Start: 27 @29703 has 3 MA's), (34, 29781), (46, 29877), (48, 29898), (50, 29904), (54, 29988), (56, 30009), (59, 30060), (63, 30114), (69, 30189), (79, 30324), (81, 30336), (86, 30405), (88, 30414), (92, 30519), (97, 30588), (102, 30714), (108, 30795), (126, 30918), (131, 30945), (132, 30951), (138, 30969), (143, 31005),

Gene: Klein_47 Start: 40341, Stop: 41759, Start Num: 18

Candidate Starts for Klein_47:

(Start: 18 @40341 has 192 MA's), (26, 40395), (31, 40467), (34, 40488), (44, 40569), (51, 40626), (54, 40677), (55, 40689), (56, 40698), (59, 40749), (70, 40881), (73, 40932), (78, 41007), (85, 41064), (88, 41097), (89, 41100), (100, 41292), (103, 41379), (107, 41442), (108, 41466), (109, 41475), (125, 41604), (131, 41637), (137, 41658), (138, 41661),

Gene: Kostya_33 Start: 29711, Stop: 31144, Start Num: 27

Candidate Starts for Kostya_33:

(Start: 18 @29642 has 192 MA's), (Start: 27 @29711 has 3 MA's), (34, 29789), (46, 29885), (48, 29906), (50, 29912), (54, 29996), (56, 30017), (59, 30068), (63, 30122), (69, 30197), (79, 30332), (81, 30344), (86, 30413), (88, 30422), (92, 30527), (97, 30596), (102, 30722), (108, 30803), (131, 30953), (138, 30977), (143, 31013),

Gene: Kratio_28 Start: 25231, Stop: 26865, Start Num: 18

Candidate Starts for Kratio_28:

(Start: 18 @25231 has 192 MA's), (Start: 20 @25237 has 1 MA's), (Start: 21 @25252 has 1 MA's), (31, 25357), (35, 25381), (38, 25396), (43, 25444), (51, 25516), (54, 25567), (56, 25588), (67, 25738), (68, 25750), (69, 25765), (72, 25804), (80, 25912), (81, 25921), (86, 25990), (87, 25996), (88, 25999), (91, 26086), (95, 26164), (97, 26173), (99, 26212), (101, 26257), (102, 26293), (108, 26377), (110, 26410), (111, 26413), (131, 26560), (132, 26566), (140, 26602), (143, 26620), (157, 26755), (163, 26821), (167, 26854),

Gene: Krueger_30 Start: 24088, Stop: 25734, Start Num: 18

Candidate Starts for Krueger_30:

(Start: 18 @24088 has 192 MA's), (Start: 27 @24157 has 3 MA's), (28, 24169), (32, 24226), (34, 24235), (54, 24424), (56, 24445), (58, 24481), (69, 24625), (72, 24664), (79, 24769), (86, 24850), (87, 24856), (88, 24859), (92, 24964), (98, 25036), (99, 25072), (102, 25153), (108, 25228), (110, 25261),

(117, 25306), (121, 25333), (130, 25411), (139, 25456), (152, 25585), (157, 25624), (159, 25633), (160, 25654), (165, 25708),

Gene: Larva_30 Start: 25395, Stop: 27029, Start Num: 18

Candidate Starts for Larva_30:

(Start: 18 @25395 has 192 MA's), (Start: 20 @25401 has 1 MA's), (Start: 21 @25416 has 1 MA's), (29, 25479), (31, 25521), (35, 25545), (38, 25560), (43, 25608), (51, 25680), (52, 25683), (54, 25731), (56, 25752), (67, 25902), (68, 25914), (72, 25968), (80, 26076), (81, 26085), (86, 26154), (87, 26160), (88, 26163), (91, 26250), (94, 26304), (95, 26328), (99, 26376), (102, 26457), (108, 26541), (110, 26574), (111, 26577), (131, 26724), (132, 26730), (140, 26766), (143, 26784), (157, 26919), (163, 26985), (167, 27018),

Gene: LeMond_29 Start: 24039, Stop: 25697, Start Num: 16

Candidate Starts for LeMond_29:

(Start: 16 @24039 has 15 MA's), (32, 24174), (34, 24183), (35, 24186), (38, 24201), (46, 24279), (54, 24390), (56, 24411), (58, 24444), (62, 24510), (68, 24573), (69, 24588), (72, 24627), (81, 24744), (86, 24813), (88, 24822), (92, 24927), (95, 24987), (99, 25035), (102, 25116), (108, 25194), (110, 25227), (130, 25374), (132, 25383), (144, 25455), (150, 25521), (165, 25671),

Gene: Leston_29 Start: 25566, Stop: 27179, Start Num: 21

Candidate Starts for Leston_29:

(Start: 18 @25545 has 192 MA's), (Start: 20 @25551 has 1 MA's), (Start: 21 @25566 has 1 MA's), (31, 25671), (35, 25695), (38, 25710), (43, 25758), (51, 25830), (52, 25833), (54, 25881), (56, 25902), (65, 26031), (67, 26052), (68, 26064), (69, 26079), (72, 26118), (80, 26226), (81, 26235), (86, 26304), (87, 26310), (88, 26313), (92, 26418), (94, 26454), (95, 26478), (99, 26526), (102, 26607), (108, 26691), (110, 26724), (111, 26727), (122, 26820), (126, 26847), (131, 26874), (132, 26880), (140, 26916), (143, 26934), (144, 26952), (146, 26985), (155, 27060), (157, 27069), (163, 27135), (165, 27153),

Gene: LilPharaoh_26 Start: 24344, Stop: 25981, Start Num: 16

Candidate Starts for LilPharaoh_26:

(Start: 16 @24344 has 15 MA's), (24, 24386), (28, 24425), (32, 24482), (34, 24491), (41, 24563), (47, 24590), (54, 24698), (56, 24719), (58, 24752), (69, 24896), (72, 24935), (81, 25052), (83, 25091), (85, 25100), (86, 25121), (87, 25127), (88, 25130), (92, 25235), (95, 25295), (102, 25424), (108, 25499), (120, 25592), (158, 25874), (165, 25955), (167, 25970),

Gene: Lilac_34 Start: 29138, Stop: 30640, Start Num: 18

Candidate Starts for Lilac_34:

(Start: 18 @29138 has 192 MA's), (Start: 27 @29207 has 3 MA's), (34, 29285), (46, 29381), (48, 29402), (50, 29408), (54, 29492), (56, 29513), (59, 29564), (63, 29618), (69, 29693), (79, 29828), (81, 29840), (86, 29909), (88, 29918), (92, 30023), (97, 30092), (102, 30218), (108, 30299), (122, 30395), (126, 30422), (131, 30449), (132, 30455), (138, 30473), (143, 30509),

Gene: Lilizi_34 Start: 29346, Stop: 30848, Start Num: 18

Candidate Starts for Lilizi_34:

(Start: 18 @29346 has 192 MA's), (Start: 27 @29415 has 3 MA's), (34, 29493), (46, 29589), (48, 29610), (50, 29616), (54, 29700), (56, 29721), (59, 29772), (63, 29826), (69, 29901), (79, 30036), (81, 30048), (86, 30117), (88, 30126), (92, 30231), (97, 30300), (102, 30426), (108, 30507), (122, 30603), (126, 30630), (131, 30657), (132, 30663), (138, 30681), (143, 30717),

Gene: Lilpickle_31 Start: 28848, Stop: 30350, Start Num: 18

Candidate Starts for Lilpickle_31:

(Start: 18 @28848 has 192 MA's), (Start: 27 @28917 has 3 MA's), (34, 28995), (46, 29091), (48, 29112), (50, 29118), (54, 29202), (56, 29223), (59, 29274), (63, 29328), (69, 29403), (79, 29538), (81, 29550), (86, 29619), (88, 29628), (92, 29733), (97, 29802), (102, 29928), (108, 30009), (126, 30132), (131, 30159), (132, 30165), (138, 30183), (143, 30219),

Gene: LittleE_51 Start: 40578, Stop: 41996, Start Num: 18

Candidate Starts for LittleE_51:

(Start: 18 @40578 has 192 MA's), (34, 40725), (51, 40863), (54, 40914), (55, 40926), (56, 40935), (58, 40968), (59, 40986), (70, 41118), (73, 41169), (88, 41334), (90, 41382), (103, 41616), (107, 41679), (108, 41703), (109, 41712), (128, 41862), (137, 41895), (138, 41898),

Gene: MISSy_31 Start: 29153, Stop: 30655, Start Num: 18

Candidate Starts for MISSy_31:

(Start: 18 @29153 has 192 MA's), (Start: 27 @29222 has 3 MA's), (34, 29300), (46, 29396), (48, 29417), (50, 29423), (54, 29507), (56, 29528), (59, 29579), (63, 29633), (69, 29708), (79, 29843), (81, 29855), (86, 29924), (88, 29933), (92, 30038), (97, 30107), (102, 30233), (108, 30314), (122, 30410), (126, 30437), (131, 30464), (132, 30470), (138, 30488), (143, 30524),

Gene: MPhalcon_31 Start: 29147, Stop: 30649, Start Num: 18

Candidate Starts for MPhalcon_31:

(Start: 18 @29147 has 192 MA's), (Start: 27 @29216 has 3 MA's), (34, 29294), (46, 29390), (48, 29411), (50, 29417), (54, 29501), (56, 29522), (59, 29573), (63, 29627), (69, 29702), (79, 29837), (81, 29849), (86, 29918), (88, 29927), (92, 30032), (97, 30101), (102, 30227), (108, 30308), (122, 30404), (126, 30431), (131, 30458), (132, 30464), (138, 30482), (143, 30518),

Gene: MacnCheese_31 Start: 25776, Stop: 27434, Start Num: 19

Candidate Starts for MacnCheese_31:

(Start: 19 @25776 has 13 MA's), (28, 25854), (31, 25899), (34, 25920), (36, 25926), (48, 26019), (53, 26067), (54, 26109), (55, 26121), (56, 26130), (66, 26265), (69, 26310), (72, 26349), (77, 26448), (81, 26466), (85, 26514), (86, 26535), (87, 26541), (88, 26544), (92, 26649), (97, 26718), (101, 26802), (102, 26838), (108, 26913), (119, 27006), (130, 27093), (131, 27096), (139, 27132), (141, 27144), (149, 27231), (157, 27327), (164, 27405), (165, 27411),

Gene: MadamMonkfish_32 Start: 29059, Stop: 30561, Start Num: 18

Candidate Starts for MadamMonkfish_32:

(Start: 18 @29059 has 192 MA's), (Start: 27 @29128 has 3 MA's), (34, 29206), (46, 29302), (48, 29323), (50, 29329), (54, 29413), (56, 29434), (59, 29485), (63, 29539), (69, 29614), (79, 29749), (81, 29761), (86, 29830), (88, 29839), (92, 29944), (97, 30013), (102, 30139), (108, 30220), (122, 30316), (126, 30343), (131, 30370), (132, 30376), (138, 30394), (143, 30430),

Gene: MalagasyRose_30 Start: 24210, Stop: 25847, Start Num: 18

Candidate Starts for MalagasyRose_30:

(Start: 18 @24210 has 192 MA's), (22, 24237), (29, 24294), (31, 24336), (34, 24357), (38, 24375), (52, 24516), (54, 24561), (56, 24582), (58, 24615), (65, 24711), (68, 24744), (69, 24759), (70, 24765), (72, 24798), (79, 24903), (80, 24906), (81, 24915), (82, 24942), (86, 24984), (88, 24993), (92, 25098), (95, 25158), (99, 25206), (102, 25287), (108, 25368), (109, 25377), (110, 25401), (124, 25512), (131, 25551), (142, 25602), (144, 25629), (154, 25725), (157, 25737), (160, 25767), (165, 25821),

Gene: Malthus_32 Start: 25943, Stop: 27553, Start Num: 18

Candidate Starts for Malthus_32:

(Start: 18 @25943 has 192 MA's), (Start: 27 @26012 has 3 MA's), (31, 26069), (32, 26081), (34, 26090), (35, 26093), (38, 26108), (45, 26162), (50, 26195), (51, 26228), (54, 26279), (56, 26300), (58, 26333), (61, 26390), (68, 26462), (72, 26507), (81, 26624), (85, 26672), (86, 26693), (87, 26699), (88,

26702), (92, 26807), (99, 26915), (102, 26996), (104, 27014), (108, 27077), (109, 27086), (120, 27149), (147, 27365), (156, 27425),

Gene: Manda_33 Start: 30126, Stop: 31628, Start Num: 18

Candidate Starts for Manda_33:

(Start: 18 @30126 has 192 MA's), (Start: 27 @30195 has 3 MA's), (34, 30273), (46, 30369), (48, 30390), (50, 30396), (54, 30480), (56, 30501), (59, 30552), (63, 30606), (69, 30681), (79, 30816), (81, 30828), (86, 30897), (88, 30906), (92, 31011), (97, 31080), (102, 31206), (108, 31287), (131, 31437), (132, 31443), (138, 31461), (143, 31497),

Gene: MarkPhew_30 Start: 23940, Stop: 25595, Start Num: 16

Candidate Starts for MarkPhew_30:

(Start: 16 @23940 has 15 MA's), (24, 23979), (25, 23985), (28, 24018), (34, 24084), (46, 24180), (54, 24291), (56, 24312), (58, 24345), (68, 24474), (69, 24489), (72, 24528), (85, 24693), (86, 24714), (88, 24723), (92, 24828), (99, 24936), (102, 25017), (108, 25098), (130, 25278), (144, 25359), (150, 25425), (158, 25488), (165, 25569),

Gene: Marshmallow_32 Start: 29639, Stop: 31141, Start Num: 18

Candidate Starts for Marshmallow_32:

(Start: 18 @29639 has 192 MA's), (Start: 27 @29708 has 3 MA's), (34, 29786), (46, 29882), (48, 29903), (50, 29909), (54, 29993), (56, 30014), (59, 30065), (63, 30119), (69, 30194), (79, 30329), (81, 30341), (86, 30410), (88, 30419), (92, 30524), (97, 30593), (102, 30719), (108, 30800), (131, 30950), (132, 30956), (138, 30974), (143, 31010),

Gene: Maxxinista_33 Start: 29108, Stop: 30610, Start Num: 18

Candidate Starts for Maxxinista_33:

(Start: 18 @29108 has 192 MA's), (Start: 27 @29177 has 3 MA's), (34, 29255), (46, 29351), (48, 29372), (50, 29378), (54, 29462), (56, 29483), (59, 29534), (63, 29588), (69, 29663), (79, 29798), (81, 29810), (86, 29879), (88, 29888), (92, 29993), (97, 30062), (102, 30188), (108, 30269), (126, 30392), (131, 30419), (132, 30425), (138, 30443), (143, 30479),

Gene: Mdavu_26 Start: 24332, Stop: 25969, Start Num: 16

Candidate Starts for Mdavu_26:

(Start: 16 @24332 has 15 MA's), (24, 24374), (28, 24413), (32, 24470), (34, 24479), (41, 24551), (47, 24578), (54, 24686), (56, 24707), (58, 24740), (69, 24884), (72, 24923), (81, 25040), (83, 25079), (85, 25088), (86, 25109), (87, 25115), (88, 25118), (92, 25223), (95, 25283), (102, 25412), (108, 25487), (120, 25580), (158, 25862), (165, 25943), (167, 25958),

Gene: Mendokysei_26 Start: 23388, Stop: 24968, Start Num: 18

Candidate Starts for Mendokysei_26:

(Start: 18 @23388 has 192 MA's), (28, 23469), (37, 23550), (54, 23724), (57, 23751), (61, 23835), (66, 23877), (68, 23910), (72, 23955), (75, 24021), (76, 24048), (80, 24063), (84, 24117), (88, 24159), (91, 24243), (93, 24279), (94, 24297), (102, 24447), (105, 24504), (109, 24534), (123, 24645), (127, 24663), (139, 24726),

Gene: Mindy_32 Start: 29488, Stop: 30921, Start Num: 27

Candidate Starts for Mindy_32:

(Start: 18 @29419 has 192 MA's), (Start: 27 @29488 has 3 MA's), (34, 29566), (46, 29662), (48, 29683), (50, 29689), (54, 29773), (56, 29794), (59, 29845), (63, 29899), (69, 29974), (79, 30109), (81, 30121), (86, 30190), (88, 30199), (92, 30304), (97, 30373), (102, 30499), (108, 30580), (131, 30730), (138, 30754), (143, 30790),

Gene: Minerva_53 Start: 42154, Stop: 43596, Start Num: 15

Candidate Starts for Minerva_53:

(14, 42130), (Start: 15 @42154 has 2 MA's), (Start: 19 @42163 has 13 MA's), (39, 42328), (40, 42349), (42, 42379), (48, 42421), (49, 42424), (56, 42532), (70, 42718), (73, 42769), (85, 42901), (88, 42934), (89, 42937), (100, 43129), (103, 43216), (107, 43279), (108, 43303), (109, 43312), (125, 43441), (131, 43474), (137, 43495), (138, 43498),

Gene: Miniwave_32 Start: 29838, Stop: 31340, Start Num: 18

Candidate Starts for Miniwave_32:

(Start: 18 @29838 has 192 MA's), (Start: 27 @29907 has 3 MA's), (34, 29985), (46, 30081), (48, 30102), (50, 30108), (54, 30192), (56, 30213), (59, 30264), (63, 30318), (69, 30393), (79, 30528), (81, 30540), (86, 30609), (88, 30618), (92, 30723), (97, 30792), (102, 30918), (108, 30999), (122, 31095), (126, 31122), (131, 31149), (132, 31155), (138, 31173), (143, 31209),

Gene: Miryou_29 Start: 25400, Stop: 27034, Start Num: 18

Candidate Starts for Miryou_29:

(Start: 18 @25400 has 192 MA's), (Start: 20 @25406 has 1 MA's), (Start: 21 @25421 has 1 MA's), (31, 25526), (34, 25547), (35, 25550), (38, 25565), (43, 25613), (51, 25685), (52, 25688), (54, 25736), (56, 25757), (65, 25886), (67, 25907), (68, 25919), (69, 25934), (72, 25973), (80, 26081), (81, 26090), (86, 26159), (87, 26165), (88, 26168), (92, 26273), (94, 26309), (95, 26333), (99, 26381), (102, 26462), (108, 26546), (110, 26579), (111, 26582), (122, 26675), (126, 26702), (131, 26729), (132, 26735), (140, 26771), (143, 26789), (144, 26807), (146, 26840), (153, 26900), (163, 26990), (165, 27008), (167, 27023),

Gene: Misfit_32 Start: 29728, Stop: 31230, Start Num: 18

Candidate Starts for Misfit_32:

(Start: 18 @29728 has 192 MA's), (Start: 27 @29797 has 3 MA's), (34, 29875), (46, 29971), (48, 29992), (50, 29998), (54, 30082), (56, 30103), (59, 30154), (63, 30208), (69, 30283), (79, 30418), (81, 30430), (86, 30499), (88, 30508), (92, 30613), (97, 30682), (102, 30808), (108, 30889), (126, 31012), (131, 31039), (132, 31045), (138, 31063), (143, 31099),

Gene: MissDaisy_31 Start: 25786, Stop: 27396, Start Num: 18

Candidate Starts for MissDaisy_31:

(Start: 18 @25786 has 192 MA's), (Start: 27 @25855 has 3 MA's), (31, 25912), (32, 25924), (34, 25933), (35, 25936), (38, 25951), (45, 26005), (54, 26122), (56, 26143), (68, 26305), (72, 26350), (81, 26467), (82, 26494), (86, 26536), (88, 26545), (92, 26650), (99, 26758), (102, 26839), (108, 26920), (109, 26929), (120, 26992), (147, 27208),

Gene: Mitti_31 Start: 25944, Stop: 27554, Start Num: 18

Candidate Starts for Mitti_31:

(Start: 18 @25944 has 192 MA's), (Start: 27 @26013 has 3 MA's), (31, 26070), (32, 26082), (34, 26091), (35, 26094), (38, 26109), (45, 26163), (50, 26196), (54, 26280), (56, 26301), (58, 26334), (68, 26463), (72, 26508), (81, 26625), (86, 26694), (87, 26700), (88, 26703), (99, 26916), (102, 26997), (104, 27015), (108, 27078), (109, 27087), (120, 27150), (147, 27366), (156, 27426),

Gene: Moldemort_33 Start: 29383, Stop: 30885, Start Num: 18

Candidate Starts for Moldemort_33:

(Start: 18 @29383 has 192 MA's), (Start: 27 @29452 has 3 MA's), (34, 29530), (46, 29626), (48, 29647), (50, 29653), (54, 29737), (56, 29758), (59, 29809), (63, 29863), (69, 29938), (79, 30073), (81, 30085), (86, 30154), (88, 30163), (92, 30268), (97, 30337), (102, 30463), (108, 30544), (126, 30667), (131, 30694), (132, 30700), (138, 30718), (143, 30754),

Gene: Mosby_31 Start: 29145, Stop: 30647, Start Num: 18

Candidate Starts for Mosby_31:

(Start: 18 @29145 has 192 MA's), (Start: 27 @29214 has 3 MA's), (34, 29292), (46, 29388), (48, 29409), (50, 29415), (54, 29499), (56, 29520), (59, 29571), (63, 29625), (69, 29700), (79, 29835), (81, 29847), (86, 29916), (88, 29925), (92, 30030), (97, 30099), (102, 30225), (108, 30306), (131, 30456), (132, 30462), (138, 30480), (143, 30516),

Gene: Murica_31 Start: 29625, Stop: 31127, Start Num: 18

Candidate Starts for Murica_31:

(Start: 18 @29625 has 192 MA's), (Start: 27 @29694 has 3 MA's), (34, 29772), (46, 29868), (48, 29889), (50, 29895), (54, 29979), (56, 30000), (59, 30051), (63, 30105), (69, 30180), (79, 30315), (81, 30327), (86, 30396), (88, 30405), (92, 30510), (97, 30579), (102, 30705), (108, 30786), (122, 30882), (126, 30909), (131, 30936), (132, 30942), (138, 30960), (143, 30996),

Gene: Murphy_33 Start: 29620, Stop: 31122, Start Num: 18

Candidate Starts for Murphy_33:

(Start: 18 @29620 has 192 MA's), (Start: 27 @29689 has 3 MA's), (34, 29767), (46, 29863), (48, 29884), (50, 29890), (54, 29974), (56, 29995), (59, 30046), (63, 30100), (69, 30175), (79, 30310), (81, 30322), (86, 30391), (88, 30400), (92, 30505), (97, 30574), (102, 30700), (108, 30781), (122, 30877), (126, 30904), (131, 30931), (132, 30937), (138, 30955), (143, 30991),

Gene: Myrale_32 Start: 29504, Stop: 31006, Start Num: 18

Candidate Starts for Myrale_32:

(Start: 18 @29504 has 192 MA's), (Start: 27 @29573 has 3 MA's), (34, 29651), (46, 29747), (48, 29768), (50, 29774), (54, 29858), (56, 29879), (59, 29930), (63, 29984), (69, 30059), (79, 30194), (81, 30206), (86, 30275), (88, 30284), (92, 30389), (97, 30458), (102, 30584), (108, 30665), (131, 30815), (132, 30821), (138, 30839), (143, 30875),

Gene: Nairb_27 Start: 23579, Stop: 25162, Start Num: 18

Candidate Starts for Nairb_27:

(Start: 18 @23579 has 192 MA's), (28, 23660), (30, 23678), (35, 23729), (37, 23741), (38, 23744), (54, 23915), (57, 23942), (68, 24104), (70, 24125), (72, 24149), (75, 24215), (80, 24257), (84, 24311), (88, 24353), (91, 24437), (93, 24473), (94, 24491), (102, 24641), (109, 24728), (123, 24839), (139, 24920), (161, 25121),

Gene: Nala_32 Start: 29659, Stop: 31161, Start Num: 18

Candidate Starts for Nala_32:

(Start: 18 @29659 has 192 MA's), (Start: 27 @29728 has 3 MA's), (34, 29806), (46, 29902), (48, 29923), (50, 29929), (54, 30013), (56, 30034), (59, 30085), (63, 30139), (69, 30214), (79, 30349), (81, 30361), (86, 30430), (88, 30439), (92, 30544), (97, 30613), (102, 30739), (108, 30820), (126, 30943), (131, 30970), (132, 30976), (138, 30994), (143, 31030),

Gene: NelitzaMV_32 Start: 29709, Stop: 31211, Start Num: 18

Candidate Starts for NelitzaMV_32:

(Start: 18 @29709 has 192 MA's), (Start: 27 @29778 has 3 MA's), (34, 29856), (46, 29952), (48, 29973), (50, 29979), (54, 30063), (56, 30084), (59, 30135), (68, 30249), (79, 30399), (81, 30411), (86, 30480), (88, 30489), (92, 30594), (97, 30663), (102, 30789), (108, 30870), (131, 31020), (132, 31026), (138, 31044), (143, 31080),

Gene: Nergal_26 Start: 22488, Stop: 24122, Start Num: 19

Candidate Starts for Nergal_26:

(Start: 19 @22488 has 13 MA's), (Start: 27 @22557 has 3 MA's), (28, 22569), (32, 22626), (36, 22641), (54, 22824), (56, 22845), (57, 22851), (60, 22896), (68, 23007), (85, 23226), (86, 23247), (87, 23253), (88, 23256), (92, 23361), (95, 23421), (98, 23433), (99, 23469), (101, 23520), (102, 23556), (108, 23631), (110, 23664), (112, 23676), (117, 23715), (131, 23814), (141, 23862), (165, 24096),

Gene: Nibb_29 Start: 24078, Stop: 25730, Start Num: 16

Candidate Starts for Nibb_29:

(Start: 16 @24078 has 15 MA's), (26, 24129), (28, 24156), (34, 24222), (46, 24318), (54, 24429), (56, 24450), (58, 24483), (68, 24612), (72, 24666), (85, 24831), (86, 24852), (88, 24861), (92, 24966), (95, 25026), (99, 25074), (102, 25155), (108, 25233), (110, 25266), (130, 25413), (132, 25422), (133, 25425), (144, 25494), (150, 25560), (158, 25623), (165, 25704),

Gene: NihilNomen_46 Start: 40857, Stop: 42275, Start Num: 18

Candidate Starts for NihilNomen_46:

(Start: 18 @40857 has 192 MA's), (26, 40911), (31, 40983), (34, 41004), (44, 41085), (51, 41142), (54, 41193), (55, 41205), (56, 41214), (59, 41265), (70, 41397), (73, 41448), (78, 41523), (85, 41580), (88, 41613), (89, 41616), (100, 41808), (103, 41895), (107, 41958), (108, 41982), (109, 41991), (125, 42120), (131, 42153), (137, 42174), (138, 42177),

Gene: Nikao_26 Start: 24344, Stop: 25981, Start Num: 16

Candidate Starts for Nikao_26:

(Start: 16 @24344 has 15 MA's), (24, 24386), (28, 24425), (32, 24482), (34, 24491), (41, 24563), (47, 24590), (54, 24698), (56, 24719), (58, 24752), (69, 24896), (72, 24935), (81, 25052), (83, 25091), (85, 25100), (86, 25121), (87, 25127), (88, 25130), (92, 25235), (95, 25295), (102, 25424), (108, 25499), (120, 25592), (158, 25874), (165, 25955), (167, 25970),

Gene: Nimrod_32 Start: 29883, Stop: 31385, Start Num: 18

Candidate Starts for Nimrod_32:

(Start: 18 @29883 has 192 MA's), (Start: 27 @29952 has 3 MA's), (34, 30030), (46, 30126), (48, 30147), (50, 30153), (54, 30237), (56, 30258), (59, 30309), (63, 30363), (69, 30438), (79, 30573), (81, 30585), (86, 30654), (88, 30663), (92, 30768), (97, 30837), (102, 30963), (108, 31044), (122, 31140), (126, 31167), (131, 31194), (132, 31200), (138, 31218), (143, 31254),

Gene: NoSleep_33 Start: 29380, Stop: 30882, Start Num: 18

Candidate Starts for NoSleep_33:

(Start: 18 @29380 has 192 MA's), (Start: 27 @29449 has 3 MA's), (34, 29527), (46, 29623), (48, 29644), (50, 29650), (54, 29734), (56, 29755), (59, 29806), (63, 29860), (69, 29935), (79, 30070), (81, 30082), (86, 30151), (88, 30160), (92, 30265), (97, 30334), (102, 30460), (108, 30541), (126, 30664), (131, 30691), (132, 30697), (138, 30715), (143, 30751),

Gene: Nutello_26 Start: 24344, Stop: 25981, Start Num: 16

Candidate Starts for Nutello_26:

(Start: 16 @24344 has 15 MA's), (24, 24386), (28, 24425), (32, 24482), (34, 24491), (41, 24563), (47, 24590), (54, 24698), (56, 24719), (58, 24752), (69, 24896), (72, 24935), (81, 25052), (83, 25091), (85, 25100), (86, 25121), (87, 25127), (88, 25130), (92, 25235), (95, 25295), (102, 25424), (108, 25499), (120, 25592), (158, 25874), (165, 25955), (167, 25970),

Gene: Odette_47 Start: 40090, Stop: 41508, Start Num: 18

Candidate Starts for Odette_47:

(Start: 18 @40090 has 192 MA's), (26, 40144), (31, 40216), (34, 40237), (44, 40318), (51, 40375), (54, 40426), (55, 40438), (56, 40447), (59, 40498), (70, 40630), (73, 40681), (78, 40756), (85, 40813), (88, 40846), (89, 40849), (100, 41041), (103, 41128), (107, 41191), (108, 41215), (109, 41224), (128, 41374), (137, 41407), (138, 41410),

Gene: OkiRoe_29 Start: 25416, Stop: 27050, Start Num: 18

Candidate Starts for OkiRoe_29:

(Start: 18 @25416 has 192 MA's), (Start: 20 @25422 has 1 MA's), (Start: 21 @25437 has 1 MA's), (31, 25542), (35, 25566), (38, 25581), (43, 25629), (51, 25701), (52, 25704), (54, 25752), (56, 25773), (65, 25902), (67, 25923), (68, 25935), (69, 25950), (72, 25989), (80, 26097), (81, 26106), (86, 26175), (87, 26181), (88, 26184), (94, 26325), (95, 26349), (99, 26397), (102, 26478), (108, 26562), (110, 26595), (111, 26598), (126, 26718), (131, 26745), (132, 26751), (140, 26787), (143, 26805), (144, 26823), (146, 26856), (153, 26916), (163, 27006), (165, 27024), (167, 27039),

Gene: Omega_50 Start: 41222, Stop: 42643, Start Num: 18

Candidate Starts for Omega_50:

(Start: 18 @41222 has 192 MA's), (34, 41369), (44, 41450), (54, 41558), (55, 41570), (56, 41579), (58, 41612), (59, 41630), (70, 41762), (73, 41813), (88, 41978), (90, 42026), (100, 42173), (103, 42260), (108, 42347), (109, 42356), (128, 42506), (137, 42539), (138, 42542),

Gene: OmniCritical_31 Start: 25928, Stop: 27538, Start Num: 18

Candidate Starts for OmniCritical_31:

(Start: 18 @25928 has 192 MA's), (Start: 27 @25997 has 3 MA's), (31, 26054), (32, 26066), (34, 26075), (35, 26078), (38, 26093), (45, 26147), (50, 26180), (51, 26213), (54, 26264), (56, 26285), (58, 26318), (68, 26447), (72, 26492), (81, 26609), (85, 26657), (86, 26678), (87, 26684), (88, 26687), (99, 26900), (102, 26981), (104, 26999), (108, 27062), (109, 27071), (120, 27134), (147, 27350), (156, 27410),

Gene: Omnicron_30 Start: 24325, Stop: 25953, Start Num: 18

Candidate Starts for Omnicron_30:

(Start: 18 @24325 has 192 MA's), (Start: 21 @24346 has 1 MA's), (29, 24409), (31, 24451), (52, 24613), (54, 24661), (56, 24682), (61, 24772), (65, 24811), (68, 24844), (69, 24859), (70, 24865), (72, 24898), (74, 24946), (80, 25006), (81, 25015), (87, 25090), (88, 25093), (92, 25198), (97, 25267), (99, 25306), (102, 25387), (108, 25468), (110, 25501), (111, 25504), (126, 25624), (131, 25651), (132, 25657), (140, 25693), (143, 25711), (144, 25729), (157, 25843), (165, 25927), (166, 25930), (167, 25942),

Gene: Optimus_52 Start: 41748, Stop: 43181, Start Num: 19

Candidate Starts for Optimus_52:

(14, 41715), (Start: 15 @41739 has 2 MA's), (Start: 19 @41748 has 13 MA's), (39, 41913), (40, 41934), (42, 41964), (48, 42006), (49, 42009), (56, 42117), (70, 42303), (73, 42354), (85, 42486), (88, 42519), (89, 42522), (100, 42714), (103, 42801), (107, 42864), (108, 42888), (109, 42897), (128, 43047), (137, 43080), (138, 43083),

Gene: OrionPax_33 Start: 29386, Stop: 30888, Start Num: 18

Candidate Starts for OrionPax_33:

(Start: 18 @29386 has 192 MA's), (Start: 27 @29455 has 3 MA's), (34, 29533), (46, 29629), (48, 29650), (50, 29656), (54, 29740), (56, 29761), (59, 29812), (63, 29866), (69, 29941), (79, 30076), (81, 30088), (86, 30157), (88, 30166), (92, 30271), (97, 30340), (102, 30466), (108, 30547), (122, 30643), (126, 30670), (131, 30697), (132, 30703), (138, 30721), (143, 30757),

Gene: Oscar_29 Start: 24040, Stop: 25698, Start Num: 16

Candidate Starts for Oscar_29:

(Start: 16 @24040 has 15 MA's), (32, 24175), (34, 24184), (35, 24187), (38, 24202), (46, 24280), (54, 24391), (56, 24412), (58, 24445), (62, 24511), (68, 24574), (69, 24589), (72, 24628), (81, 24745), (86, 24814), (88, 24823), (92, 24928), (95, 24988), (99, 25036), (102, 25117), (108, 25195), (110, 25228), (130, 25375), (132, 25384), (144, 25456), (150, 25522), (162, 25645), (165, 25672),

Gene: Paola_29 Start: 25415, Stop: 27049, Start Num: 18

Candidate Starts for Paola_29:

(Start: 18 @25415 has 192 MA's), (Start: 20 @25421 has 1 MA's), (Start: 21 @25436 has 1 MA's), (31, 25541), (35, 25565), (38, 25580), (43, 25628), (51, 25700), (52, 25703), (54, 25751), (56, 25772), (65, 25901), (67, 25922), (68, 25934), (69, 25949), (72, 25988), (80, 26096), (81, 26105), (86, 26174), (87, 26180), (88, 26183), (92, 26288), (94, 26324), (95, 26348), (99, 26396), (102, 26477), (108, 26561), (110, 26594), (111, 26597), (122, 26690), (126, 26717), (131, 26744), (132, 26750), (140, 26786), (143, 26804), (144, 26822), (146, 26855), (155, 26930), (157, 26939), (163, 27005), (165, 27023),

Gene: Paperbeatsrock_34 Start: 30621, Stop: 32123, Start Num: 18

Candidate Starts for Paperbeatsrock_34:

(Start: 18 @30621 has 192 MA's), (Start: 27 @30690 has 3 MA's), (34, 30768), (46, 30864), (48, 30885), (50, 30891), (54, 30975), (56, 30996), (59, 31047), (63, 31101), (69, 31176), (79, 31311), (81, 31323), (86, 31392), (88, 31401), (92, 31506), (97, 31575), (102, 31701), (108, 31782), (122, 31878), (126, 31905), (131, 31932), (132, 31938), (138, 31956), (143, 31992),

Gene: Pat3_31 Start: 28367, Stop: 29869, Start Num: 18

Candidate Starts for Pat3_31:

(Start: 18 @28367 has 192 MA's), (Start: 27 @28436 has 3 MA's), (34, 28514), (46, 28610), (48, 28631), (50, 28637), (54, 28721), (56, 28742), (59, 28793), (63, 28847), (69, 28922), (79, 29057), (81, 29069), (86, 29138), (88, 29147), (92, 29252), (97, 29321), (102, 29447), (108, 29528), (131, 29678), (132, 29684), (138, 29702), (143, 29738),

Gene: Patt_31 Start: 25762, Stop: 27372, Start Num: 18

Candidate Starts for Patt_31:

(Start: 18 @25762 has 192 MA's), (Start: 27 @25831 has 3 MA's), (31, 25888), (32, 25900), (34, 25909), (35, 25912), (38, 25927), (45, 25981), (54, 26098), (56, 26119), (68, 26281), (72, 26326), (81, 26443), (82, 26470), (86, 26512), (88, 26521), (92, 26626), (99, 26734), (102, 26815), (108, 26896), (109, 26905), (120, 26968), (147, 27184),

Gene: Petra64142_34 Start: 30101, Stop: 31603, Start Num: 18

Candidate Starts for Petra64142_34:

(Start: 18 @30101 has 192 MA's), (Start: 27 @30170 has 3 MA's), (34, 30248), (46, 30344), (48, 30365), (50, 30371), (54, 30455), (56, 30476), (59, 30527), (63, 30581), (69, 30656), (79, 30791), (81, 30803), (86, 30872), (88, 30881), (92, 30986), (97, 31055), (102, 31181), (108, 31262), (122, 31358), (126, 31385), (131, 31412), (132, 31418), (138, 31436), (143, 31472),

Gene: Phaja_32 Start: 29817, Stop: 31319, Start Num: 18

Candidate Starts for Phaja_32:

(Start: 18 @29817 has 192 MA's), (Start: 27 @29886 has 3 MA's), (34, 29964), (46, 30060), (48, 30081), (50, 30087), (54, 30171), (56, 30192), (59, 30243), (63, 30297), (69, 30372), (79, 30507), (81, 30519), (86, 30588), (88, 30597), (92, 30702), (97, 30771), (102, 30897), (108, 30978), (126, 31101), (131, 31128), (132, 31134), (138, 31152), (143, 31188),

Gene: Pharb_29 Start: 25069, Stop: 26709, Start Num: 19

Candidate Starts for Pharb_29:

(Start: 19 @25069 has 13 MA's), (23, 25105), (28, 25147), (32, 25204), (34, 25213), (36, 25219), (54, 25402), (55, 25414), (56, 25423), (66, 25558), (69, 25603), (72, 25642), (77, 25741), (80, 25750), (81, 25759), (86, 25828), (87, 25834), (88, 25837), (92, 25942), (97, 26011), (101, 26095), (102, 26131), (108, 26206), (119, 26299), (139, 26425), (145, 26470), (163, 26668),

Gene: Pharsalus_33 Start: 30421, Stop: 31923, Start Num: 18

Candidate Starts for Pharsalus_33:

(Start: 18 @30421 has 192 MA's), (Start: 27 @30490 has 3 MA's), (34, 30568), (46, 30664), (48, 30685), (50, 30691), (54, 30775), (56, 30796), (59, 30847), (63, 30901), (69, 30976), (79, 31111), (81, 31123), (86, 31192), (88, 31201), (92, 31306), (97, 31375), (102, 31501), (108, 31582), (122, 31678), (126, 31705), (131, 31732), (132, 31738), (138, 31756), (143, 31792),

Gene: PhatBacter_32 Start: 29669, Stop: 31171, Start Num: 18

Candidate Starts for PhatBacter_32:

(Start: 18 @29669 has 192 MA's), (Start: 27 @29738 has 3 MA's), (34, 29816), (46, 29912), (48, 29933), (50, 29939), (54, 30023), (56, 30044), (59, 30095), (63, 30149), (69, 30224), (79, 30359), (81, 30371), (86, 30440), (88, 30449), (92, 30554), (97, 30623), (102, 30749), (108, 30830), (122, 30926), (126, 30953), (131, 30980), (132, 30986), (138, 31004), (143, 31040),

Gene: Phaux_31 Start: 29667, Stop: 31169, Start Num: 18

Candidate Starts for Phaux_31:

(Start: 18 @29667 has 192 MA's), (Start: 27 @29736 has 3 MA's), (34, 29814), (46, 29910), (48, 29931), (50, 29937), (54, 30021), (56, 30042), (59, 30093), (63, 30147), (69, 30222), (79, 30357), (81, 30369), (86, 30438), (88, 30447), (92, 30552), (97, 30621), (102, 30747), (108, 30828), (122, 30924), (126, 30951), (131, 30978), (132, 30984), (138, 31002), (143, 31038),

Gene: PhelpsODU_30 Start: 24247, Stop: 25893, Start Num: 18

Candidate Starts for PhelpsODU_30:

(Start: 18 @24247 has 192 MA's), (Start: 27 @24316 has 3 MA's), (28, 24328), (32, 24385), (34, 24394), (54, 24583), (56, 24604), (64, 24727), (69, 24781), (72, 24820), (86, 25006), (88, 25015), (92, 25120), (98, 25192), (99, 25228), (102, 25309), (108, 25387), (110, 25420), (113, 25432), (117, 25465), (121, 25492), (130, 25570), (139, 25615), (152, 25744), (157, 25783), (160, 25813),

Gene: Phoebus_46 Start: 41067, Stop: 42485, Start Num: 18

Candidate Starts for Phoebus_46:

(Start: 18 @41067 has 192 MA's), (26, 41121), (31, 41193), (34, 41214), (44, 41295), (51, 41352), (54, 41403), (55, 41415), (56, 41424), (59, 41475), (70, 41607), (73, 41658), (85, 41790), (88, 41823), (89, 41826), (100, 42018), (103, 42105), (107, 42168), (108, 42192), (109, 42201), (128, 42351), (137, 42384), (138, 42387),

Gene: Phrank_30 Start: 24197, Stop: 25843, Start Num: 18

Candidate Starts for Phrank_30:

(Start: 18 @24197 has 192 MA's), (26, 24251), (28, 24278), (32, 24335), (34, 24344), (54, 24533), (56, 24554), (64, 24677), (69, 24731), (72, 24770), (86, 24956), (88, 24965), (92, 25070), (98, 25142), (99, 25178), (102, 25259), (108, 25337), (110, 25370), (113, 25382), (117, 25415), (121, 25442), (130, 25520), (139, 25565), (152, 25694), (157, 25733), (160, 25763), (165, 25817),

Gene: Phrux_32 Start: 29382, Stop: 30884, Start Num: 18

Candidate Starts for Phrux_32:

(Start: 18 @29382 has 192 MA's), (Start: 27 @29451 has 3 MA's), (34, 29529), (46, 29625), (48, 29646), (50, 29652), (54, 29736), (56, 29757), (59, 29808), (63, 29862), (69, 29937), (79, 30072), (81, 30084), (86, 30153), (88, 30162), (92, 30267), (97, 30336), (102, 30462), (108, 30543), (122, 30639), (126, 30666), (131, 30693), (132, 30699), (138, 30717), (143, 30753),

Gene: Pixie_30 Start: 25256, Stop: 26941, Start Num: 19

Candidate Starts for Pixie_30:

(Start: 19 @25256 has 13 MA's), (28, 25334), (33, 25394), (34, 25400), (36, 25406), (48, 25499), (54, 25589), (55, 25601), (56, 25610), (69, 25790), (72, 25829), (81, 25946), (85, 25994), (86, 26015), (87, 26021), (88, 26024), (92, 26129), (97, 26198), (101, 26282), (102, 26318), (108, 26396), (110, 26429), (121, 26501), (134, 26594), (139, 26624), (151, 26741),

Gene: Porky_32 Start: 29478, Stop: 30980, Start Num: 18

Candidate Starts for Porky_32:

(Start: 18 @29478 has 192 MA's), (Start: 27 @29547 has 3 MA's), (34, 29625), (46, 29721), (48, 29742), (50, 29748), (54, 29832), (56, 29853), (59, 29904), (63, 29958), (69, 30033), (79, 30168), (81, 30180), (86, 30249), (88, 30258), (92, 30363), (97, 30432), (102, 30558), (108, 30639), (122, 30735), (126, 30762), (131, 30789), (132, 30795), (138, 30813), (143, 30849),

Gene: Pound_48 Start: 42088, Stop: 43506, Start Num: 18

Candidate Starts for Pound_48:

(Start: 18 @42088 has 192 MA's), (26, 42142), (31, 42214), (34, 42235), (44, 42316), (51, 42373), (54, 42424), (55, 42436), (56, 42445), (59, 42496), (70, 42628), (73, 42679), (78, 42754), (85, 42811), (88, 42844), (89, 42847), (100, 43039), (103, 43126), (107, 43189), (108, 43213), (109, 43222), (125, 43351), (131, 43384), (137, 43405), (138, 43408),

Gene: Psycho_30 Start: 25525, Stop: 27159, Start Num: 18

Candidate Starts for Psycho_30:

(Start: 18 @25525 has 192 MA's), (Start: 20 @25531 has 1 MA's), (Start: 21 @25546 has 1 MA's), (29, 25609), (31, 25651), (35, 25675), (38, 25690), (43, 25738), (51, 25810), (52, 25813), (54, 25861), (56, 25882), (67, 26032), (68, 26044), (72, 26098), (80, 26206), (81, 26215), (86, 26284), (87, 26290), (88, 26293), (91, 26380), (94, 26434), (95, 26458), (99, 26506), (102, 26587), (108, 26671), (110, 26704), (111, 26707), (131, 26854), (132, 26860), (140, 26896), (143, 26914), (157, 27049), (163, 27115), (167, 27148),

Gene: Pumpkin_34 Start: 29718, Stop: 31220, Start Num: 18

Candidate Starts for Pumpkin_34:

(Start: 18 @29718 has 192 MA's), (Start: 27 @29787 has 3 MA's), (34, 29865), (46, 29961), (48, 29982), (50, 29988), (54, 30072), (56, 30093), (59, 30144), (63, 30198), (69, 30273), (79, 30408), (81, 30420), (86, 30489), (88, 30498), (92, 30603), (97, 30672), (102, 30798), (108, 30879), (122, 30975), (126, 31002), (131, 31029), (132, 31035), (138, 31053), (143, 31089),

Gene: Quallification_33 Start: 29847, Stop: 31349, Start Num: 18

Candidate Starts for Quallification_33:

(2, 29622), (Start: 18 @29847 has 192 MA's), (Start: 27 @29916 has 3 MA's), (34, 29994), (46, 30090), (48, 30111), (50, 30117), (54, 30201), (56, 30222), (59, 30273), (63, 30327), (69, 30402), (79, 30537), (81, 30549), (86, 30618), (88, 30627), (92, 30732), (97, 30801), (102, 30927), (108, 31008), (122, 31104), (126, 31131), (131, 31158), (132, 31164), (138, 31182), (143, 31218),

Gene: Rakim_33 Start: 29747, Stop: 31249, Start Num: 18

Candidate Starts for Rakim_33:

(Start: 18 @29747 has 192 MA's), (Start: 27 @29816 has 3 MA's), (34, 29894), (46, 29990), (48, 30011), (50, 30017), (54, 30101), (56, 30122), (59, 30173), (63, 30227), (69, 30302), (79, 30437), (81, 30449), (86, 30518), (88, 30527), (92, 30632), (97, 30701), (102, 30827), (108, 30908), (126, 31031), (131, 31058), (132, 31064), (138, 31082), (143, 31118),

Gene: Redno2_45 Start: 37822, Stop: 39240, Start Num: 18

Candidate Starts for Redno2_45:

(Start: 18 @37822 has 192 MA's), (26, 37876), (31, 37948), (34, 37969), (44, 38050), (51, 38107), (54, 38158), (55, 38170), (56, 38179), (59, 38230), (70, 38362), (73, 38413), (85, 38545), (88, 38578), (89, 38581), (90, 38626), (100, 38773), (103, 38860), (107, 38923), (108, 38947), (109, 38956), (128, 39106), (137, 39139), (138, 39142),

Gene: Reptar3000_31 Start: 25755, Stop: 27365, Start Num: 18

Candidate Starts for Reptar3000_31:

(Start: 18 @25755 has 192 MA's), (Start: 27 @25824 has 3 MA's), (31, 25881), (32, 25893), (34, 25902), (35, 25905), (38, 25920), (45, 25974), (50, 26007), (52, 26043), (54, 26091), (56, 26112), (58, 26145), (67, 26262), (68, 26274), (72, 26319), (81, 26436), (85, 26484), (86, 26505), (88, 26514), (92, 26619), (95, 26679), (97, 26688), (98, 26691), (102, 26808), (108, 26889), (109, 26898), (120, 26961), (147, 27177), (156, 27237),

Gene: Rimmer_31 Start: 29207, Stop: 30709, Start Num: 18

Candidate Starts for Rimmer_31:

(Start: 18 @29207 has 192 MA's), (Start: 27 @29276 has 3 MA's), (34, 29354), (46, 29450), (48, 29471), (50, 29477), (54, 29561), (56, 29582), (59, 29633), (63, 29687), (69, 29762), (79, 29897), (81, 29909), (86, 29978), (88, 29987), (92, 30092), (97, 30161), (102, 30287), (108, 30368), (122, 30464), (126, 30491), (131, 30518), (132, 30524), (138, 30542), (143, 30578),

Gene: RiverMonster_32 Start: 29396, Stop: 30898, Start Num: 18

Candidate Starts for RiverMonster_32:

(Start: 18 @29396 has 192 MA's), (Start: 27 @29465 has 3 MA's), (34, 29543), (46, 29639), (48, 29660), (50, 29666), (54, 29750), (56, 29771), (59, 29822), (63, 29876), (69, 29951), (79, 30086), (81, 30098), (86, 30167), (88, 30176), (92, 30281), (97, 30350), (102, 30476), (108, 30557), (126, 30680), (131, 30707), (132, 30713), (138, 30731), (143, 30767),

Gene: RonRayGun_27 Start: 23579, Stop: 25162, Start Num: 18

Candidate Starts for RonRayGun_27:

(Start: 18 @23579 has 192 MA's), (28, 23660), (30, 23678), (35, 23729), (37, 23741), (38, 23744), (54, 23915), (57, 23942), (68, 24104), (70, 24125), (72, 24149), (75, 24215), (80, 24257), (84, 24311), (88, 24353), (91, 24437), (93, 24473), (94, 24491), (102, 24641), (109, 24728), (123, 24839), (139, 24920), (161, 25121),

Gene: Ruthiejr_32 Start: 25909, Stop: 27519, Start Num: 18

Candidate Starts for Ruthiejr_32:

(Start: 18 @25909 has 192 MA's), (Start: 27 @25978 has 3 MA's), (31, 26035), (32, 26047), (34, 26056), (35, 26059), (38, 26074), (50, 26161), (51, 26194), (54, 26245), (56, 26266), (58, 26299), (68, 26428), (72, 26473), (81, 26590), (85, 26638), (86, 26659), (87, 26665), (88, 26668), (99, 26881), (102, 26962), (104, 26980), (108, 27043), (109, 27052), (120, 27115), (147, 27331), (156, 27391),

Gene: Saints25_33 Start: 29299, Stop: 30801, Start Num: 18

Candidate Starts for Saints25_33:

(Start: 18 @29299 has 192 MA's), (Start: 27 @29368 has 3 MA's), (34, 29446), (46, 29542), (48, 29563), (50, 29569), (54, 29653), (56, 29674), (59, 29725), (63, 29779), (69, 29854), (79, 29989), (81, 30001), (86, 30070), (88, 30079), (92, 30184), (97, 30253), (102, 30379), (108, 30460), (122, 30556), (126, 30583), (131, 30610), (132, 30616), (138, 30634), (143, 30670),

Gene: SamScheppers_31 Start: 26422, Stop: 28032, Start Num: 18

Candidate Starts for SamScheppers_31:

(Start: 18 @26422 has 192 MA's), (Start: 27 @26491 has 3 MA's), (31, 26548), (32, 26560), (34, 26569), (35, 26572), (38, 26587), (50, 26674), (51, 26707), (54, 26758), (56, 26779), (58, 26812), (68, 26941), (72, 26986), (81, 27103), (85, 27151), (86, 27172), (87, 27178), (88, 27181), (99, 27394), (102, 27475), (104, 27493), (108, 27556), (109, 27565), (120, 27628), (147, 27844), (156, 27904),

Gene: Sassay_31 Start: 29145, Stop: 30647, Start Num: 18

Candidate Starts for Sassay_31:

(Start: 18 @29145 has 192 MA's), (Start: 27 @29214 has 3 MA's), (34, 29292), (46, 29388), (48, 29409), (50, 29415), (54, 29499), (56, 29520), (59, 29571), (63, 29625), (69, 29700), (79, 29835), (81,

29847), (86, 29916), (88, 29925), (92, 30030), (97, 30099), (102, 30225), (108, 30306), (131, 30456), (132, 30462), (138, 30480), (143, 30516),

Gene: Scarlett_29 Start: 24041, Stop: 25699, Start Num: 16

Candidate Starts for Scarlett_29:

(Start: 16 @24041 has 15 MA's), (32, 24176), (34, 24185), (35, 24188), (38, 24203), (46, 24281), (54, 24392), (56, 24413), (58, 24446), (62, 24512), (68, 24575), (69, 24590), (72, 24629), (81, 24746), (86, 24815), (88, 24824), (92, 24929), (95, 24989), (99, 25037), (102, 25118), (108, 25196), (110, 25229), (130, 25376), (132, 25385), (144, 25457), (150, 25523), (165, 25673),

Gene: Schatzie_44 Start: 39838, Stop: 41256, Start Num: 18

Candidate Starts for Schatzie_44:

(Start: 18 @39838 has 192 MA's), (26, 39892), (31, 39964), (34, 39985), (44, 40066), (51, 40123), (54, 40174), (55, 40186), (56, 40195), (59, 40246), (70, 40378), (73, 40429), (78, 40504), (85, 40561), (88, 40594), (89, 40597), (100, 40789), (103, 40876), (107, 40939), (108, 40963), (109, 40972), (128, 41122), (137, 41155), (138, 41158),

Gene: SgtBeansprout_26 Start: 24344, Stop: 25981, Start Num: 16

Candidate Starts for SgtBeansprout_26:

(Start: 16 @24344 has 15 MA's), (24, 24386), (28, 24425), (32, 24482), (34, 24491), (41, 24563), (47, 24590), (54, 24698), (56, 24719), (58, 24752), (69, 24896), (72, 24935), (81, 25052), (83, 25091), (85, 25100), (86, 25121), (87, 25127), (88, 25130), (92, 25235), (95, 25295), (102, 25424), (108, 25499), (120, 25592), (158, 25874), (165, 25955), (167, 25970),

Gene: Shadow1_29 Start: 24070, Stop: 25716, Start Num: 18

Candidate Starts for Shadow1_29:

(Start: 18 @24070 has 192 MA's), (Start: 27 @24139 has 3 MA's), (28, 24151), (32, 24208), (34, 24217), (54, 24406), (56, 24427), (64, 24550), (67, 24577), (68, 24589), (69, 24604), (72, 24643), (86, 24829), (88, 24838), (92, 24943), (95, 25003), (99, 25051), (102, 25132), (108, 25210), (110, 25243), (113, 25255), (117, 25288), (121, 25315), (130, 25393), (139, 25438), (152, 25567), (157, 25606), (159, 25615), (160, 25636),

Gene: ShamWow_32 Start: 29641, Stop: 31143, Start Num: 18

Candidate Starts for ShamWow_32:

(Start: 18 @29641 has 192 MA's), (Start: 27 @29710 has 3 MA's), (34, 29788), (46, 29884), (48, 29905), (50, 29911), (54, 29995), (56, 30016), (59, 30067), (63, 30121), (69, 30196), (79, 30331), (81, 30343), (86, 30412), (88, 30421), (92, 30526), (97, 30595), (102, 30721), (108, 30802), (131, 30952), (138, 30976), (143, 31012),

Gene: ShedlockHolmes_31 Start: 25778, Stop: 27463, Start Num: 19

Candidate Starts for ShedlockHolmes_31:

(Start: 19 @25778 has 13 MA's), (28, 25856), (32, 25913), (34, 25922), (48, 26021), (54, 26111), (55, 26123), (56, 26132), (69, 26312), (72, 26351), (81, 26468), (85, 26516), (86, 26537), (87, 26543), (88, 26546), (92, 26651), (97, 26720), (101, 26804), (102, 26840), (108, 26918), (110, 26951), (121, 27023), (134, 27116), (139, 27146), (151, 27263), (155, 27347),

Gene: ShereKhan_34 Start: 30624, Stop: 32126, Start Num: 18

Candidate Starts for ShereKhan_34:

(Start: 18 @30624 has 192 MA's), (Start: 27 @30693 has 3 MA's), (34, 30771), (46, 30867), (48, 30888), (50, 30894), (54, 30978), (56, 30999), (59, 31050), (63, 31104), (69, 31179), (79, 31314), (81, 31326), (86, 31395), (88, 31404), (92, 31509), (97, 31578), (102, 31704), (108, 31785), (126, 31908), (131, 31935), (132, 31941), (138, 31959), (143, 31995),

Gene: Simpliphy_33 Start: 29386, Stop: 30888, Start Num: 18

Candidate Starts for Simpliphy_33:

(Start: 18 @29386 has 192 MA's), (Start: 27 @29455 has 3 MA's), (34, 29533), (46, 29629), (48, 29650), (50, 29656), (54, 29740), (56, 29761), (59, 29812), (63, 29866), (69, 29941), (79, 30076), (81, 30088), (86, 30157), (88, 30166), (92, 30271), (97, 30340), (102, 30466), (108, 30547), (126, 30670), (131, 30697), (132, 30703), (138, 30721), (143, 30757),

Gene: SirDuracell_31 Start: 28306, Stop: 29808, Start Num: 18

Candidate Starts for SirDuracell_31:

(Start: 18 @28306 has 192 MA's), (Start: 27 @28375 has 3 MA's), (34, 28453), (46, 28549), (48, 28570), (50, 28576), (54, 28660), (56, 28681), (59, 28732), (63, 28786), (69, 28861), (79, 28996), (81, 29008), (86, 29077), (88, 29086), (92, 29191), (97, 29260), (102, 29386), (108, 29467), (131, 29617), (132, 29623), (138, 29641), (143, 29677),

Gene: SirPhilip_29 Start: 23735, Stop: 25366, Start Num: 17

Candidate Starts for SirPhilip_29:

(1, 23474), (Start: 17 @23735 has 1 MA's), (Start: 19 @23741 has 13 MA's), (24, 23780), (28, 23819), (31, 23864), (32, 23876), (34, 23885), (43, 23951), (54, 24074), (56, 24095), (58, 24131), (68, 24260), (72, 24314), (77, 24413), (81, 24431), (86, 24500), (88, 24509), (92, 24614), (95, 24674), (99, 24722), (102, 24803), (108, 24881), (110, 24914), (130, 25061), (131, 25064), (144, 25142),

Gene: Slarp_31 Start: 26030, Stop: 27640, Start Num: 18

Candidate Starts for Slarp_31:

(Start: 18 @26030 has 192 MA's), (Start: 27 @26099 has 3 MA's), (31, 26156), (32, 26168), (34, 26177), (35, 26180), (38, 26195), (50, 26282), (51, 26315), (54, 26366), (56, 26387), (68, 26549), (72, 26594), (81, 26711), (85, 26759), (86, 26780), (87, 26786), (88, 26789), (99, 27002), (102, 27083), (104, 27101), (108, 27164), (109, 27173), (120, 27236), (147, 27452), (156, 27512),

Gene: SoSeph_29 Start: 25564, Stop: 27198, Start Num: 18

Candidate Starts for SoSeph_29:

(Start: 18 @25564 has 192 MA's), (Start: 20 @25570 has 1 MA's), (Start: 21 @25585 has 1 MA's), (31, 25690), (35, 25714), (43, 25777), (51, 25849), (52, 25852), (54, 25900), (56, 25921), (65, 26050), (67, 26071), (68, 26083), (69, 26098), (72, 26137), (76, 26230), (80, 26245), (81, 26254), (86, 26323), (87, 26329), (88, 26332), (95, 26497), (99, 26545), (102, 26626), (108, 26710), (110, 26743), (111, 26746), (126, 26866), (131, 26893), (132, 26899), (140, 26935), (143, 26953), (144, 26971), (153, 27064), (155, 27079), (157, 27088), (163, 27154),

Gene: SophKB_32 Start: 29640, Stop: 31142, Start Num: 18

Candidate Starts for SophKB_32:

(Start: 18 @29640 has 192 MA's), (Start: 27 @29709 has 3 MA's), (34, 29787), (46, 29883), (48, 29904), (50, 29910), (54, 29994), (56, 30015), (59, 30066), (63, 30120), (69, 30195), (79, 30330), (81, 30342), (86, 30411), (88, 30420), (92, 30525), (97, 30594), (102, 30720), (108, 30801), (122, 30897), (126, 30924), (131, 30951), (132, 30957), (138, 30975), (143, 31011),

Gene: Sotrice96_32 Start: 29595, Stop: 31097, Start Num: 18

Candidate Starts for Sotrice96_32:

(Start: 18 @29595 has 192 MA's), (Start: 27 @29664 has 3 MA's), (34, 29742), (46, 29838), (48, 29859), (50, 29865), (54, 29949), (56, 29970), (59, 30021), (68, 30135), (79, 30285), (81, 30297), (86, 30366), (88, 30375), (92, 30480), (97, 30549), (102, 30675), (108, 30756), (131, 30906), (132, 30912), (138, 30930), (143, 30966),

Gene: Stank_35 Start: 30147, Stop: 31649, Start Num: 18

Candidate Starts for Stank_35:

(Start: 18 @30147 has 192 MA's), (Start: 27 @30216 has 3 MA's), (34, 30294), (46, 30390), (48, 30411), (50, 30417), (54, 30501), (56, 30522), (59, 30573), (63, 30627), (69, 30702), (79, 30837), (81, 30849), (86, 30918), (88, 30927), (92, 31032), (97, 31101), (102, 31227), (108, 31308), (122, 31404), (126, 31431), (131, 31458), (132, 31464), (138, 31482), (143, 31518),

Gene: Stark_33 Start: 29399, Stop: 30901, Start Num: 18

Candidate Starts for Stark_33:

(Start: 18 @29399 has 192 MA's), (Start: 27 @29468 has 3 MA's), (34, 29546), (46, 29642), (48, 29663), (50, 29669), (54, 29753), (56, 29774), (59, 29825), (63, 29879), (69, 29954), (79, 30089), (81, 30101), (86, 30170), (88, 30179), (92, 30284), (97, 30353), (102, 30479), (108, 30560), (126, 30683), (131, 30710), (132, 30716), (138, 30734), (143, 30770),

Gene: StellaBean_32 Start: 29640, Stop: 31142, Start Num: 18

Candidate Starts for StellaBean_32:

(Start: 18 @29640 has 192 MA's), (Start: 27 @29709 has 3 MA's), (34, 29787), (46, 29883), (48, 29904), (50, 29910), (54, 29994), (56, 30015), (59, 30066), (63, 30120), (69, 30195), (79, 30330), (81, 30342), (86, 30411), (88, 30420), (92, 30525), (97, 30594), (102, 30720), (108, 30801), (122, 30897), (126, 30924), (131, 30951), (132, 30957), (138, 30975), (143, 31011),

Gene: StolenFromERC_34 Start: 29631, Stop: 31133, Start Num: 18

Candidate Starts for StolenFromERC_34:

(Start: 18 @29631 has 192 MA's), (Start: 27 @29700 has 3 MA's), (34, 29778), (46, 29874), (48, 29895), (50, 29901), (54, 29985), (56, 30006), (59, 30057), (63, 30111), (69, 30186), (79, 30321), (81, 30333), (86, 30402), (88, 30411), (92, 30516), (97, 30585), (102, 30711), (108, 30792), (122, 30888), (126, 30915), (131, 30942), (132, 30948), (138, 30966), (143, 31002),

Gene: Sunflower1121_29 Start: 24082, Stop: 25728, Start Num: 18

Candidate Starts for Sunflower1121_29:

(Start: 18 @24082 has 192 MA's), (Start: 27 @24151 has 3 MA's), (28, 24163), (32, 24220), (34, 24229), (54, 24418), (56, 24439), (64, 24562), (67, 24589), (68, 24601), (69, 24616), (72, 24655), (86, 24841), (88, 24850), (92, 24955), (95, 25015), (99, 25063), (102, 25144), (108, 25222), (110, 25255), (113, 25267), (117, 25300), (121, 25327), (130, 25405), (139, 25450), (152, 25579), (157, 25618), (159, 25627), (160, 25648),

Gene: Syra333_30 Start: 24095, Stop: 25738, Start Num: 18

Candidate Starts for Syra333_30:

(Start: 18 @24095 has 192 MA's), (Start: 27 @24164 has 3 MA's), (28, 24176), (32, 24233), (34, 24242), (54, 24431), (56, 24452), (64, 24575), (67, 24602), (69, 24629), (72, 24668), (79, 24773), (86, 24854), (88, 24863), (92, 24968), (95, 25028), (99, 25076), (102, 25157), (104, 25175), (108, 25235), (110, 25268), (113, 25280), (117, 25313), (121, 25340), (130, 25418), (139, 25463), (152, 25592), (157, 25628), (160, 25658), (165, 25712),

Gene: TBond007_30 Start: 25255, Stop: 26940, Start Num: 19

Candidate Starts for TBond007_30:

(Start: 19 @25255 has 13 MA's), (28, 25333), (34, 25399), (36, 25405), (48, 25498), (54, 25588), (55, 25600), (56, 25609), (69, 25789), (72, 25828), (81, 25945), (85, 25993), (86, 26014), (87, 26020), (88, 26023), (92, 26128), (97, 26197), (101, 26281), (102, 26317), (108, 26395), (110, 26428), (121, 26500), (134, 26593), (139, 26623), (151, 26740), (155, 26824),

Gene: TBrady12_34 Start: 29631, Stop: 31133, Start Num: 18

Candidate Starts for TBrady12_34:

(Start: 18 @29631 has 192 MA's), (Start: 27 @29700 has 3 MA's), (34, 29778), (46, 29874), (48, 29895), (50, 29901), (54, 29985), (56, 30006), (59, 30057), (63, 30111), (69, 30186), (79, 30321), (81,

30333), (86, 30402), (88, 30411), (92, 30516), (97, 30585), (102, 30711), (108, 30792), (122, 30888), (126, 30915), (131, 30942), (132, 30948), (138, 30966), (143, 31002),

Gene: TClif_32 Start: 24557, Stop: 26188, Start Num: 18

Candidate Starts for TClif_32:

(6, 24419), (7, 24428), (10, 24476), (Start: 18 @24557 has 192 MA's), (Start: 27 @24626 has 3 MA's), (28, 24638), (32, 24695), (34, 24704), (54, 24893), (56, 24914), (67, 25064), (72, 25130), (86, 25316), (88, 25325), (92, 25430), (95, 25490), (99, 25538), (101, 25589), (102, 25625), (108, 25700), (110, 25733), (126, 25835), (130, 25859), (135, 25877), (136, 25880), (157, 26078), (165, 26162),

Gene: Taquito_31 Start: 26469, Stop: 28079, Start Num: 18

Candidate Starts for Taquito_31:

(Start: 18 @26469 has 192 MA's), (Start: 27 @26538 has 3 MA's), (31, 26595), (32, 26607), (34, 26616), (35, 26619), (38, 26634), (50, 26721), (51, 26754), (54, 26805), (56, 26826), (68, 26988), (72, 27033), (81, 27150), (85, 27198), (86, 27219), (87, 27225), (88, 27228), (92, 27333), (99, 27441), (102, 27522), (104, 27540), (108, 27603), (109, 27612), (120, 27675), (147, 27891), (156, 27951),

Gene: Tarkin_34 Start: 30630, Stop: 32132, Start Num: 18

Candidate Starts for Tarkin_34:

(Start: 18 @30630 has 192 MA's), (Start: 27 @30699 has 3 MA's), (34, 30777), (46, 30873), (48, 30894), (50, 30900), (54, 30984), (56, 31005), (59, 31056), (63, 31110), (69, 31185), (79, 31320), (81, 31332), (86, 31401), (88, 31410), (92, 31515), (97, 31584), (102, 31710), (108, 31791), (122, 31887), (126, 31914), (131, 31941), (132, 31947), (138, 31965), (143, 32001),

Gene: TeardropMSU_31 Start: 29541, Stop: 31043, Start Num: 18

Candidate Starts for TeardropMSU_31:

(Start: 18 @29541 has 192 MA's), (Start: 27 @29610 has 3 MA's), (34, 29688), (46, 29784), (48, 29805), (50, 29811), (54, 29895), (56, 29916), (59, 29967), (63, 30021), (68, 30081), (79, 30231), (81, 30243), (86, 30312), (88, 30321), (92, 30426), (97, 30495), (102, 30621), (108, 30702), (131, 30852), (132, 30858), (138, 30876), (143, 30912),

Gene: Teaspoon_33 Start: 29594, Stop: 31096, Start Num: 18

Candidate Starts for Teaspoon_33:

(Start: 18 @29594 has 192 MA's), (Start: 27 @29663 has 3 MA's), (34, 29741), (46, 29837), (48, 29858), (50, 29864), (54, 29948), (56, 29969), (59, 30020), (63, 30074), (69, 30149), (79, 30284), (81, 30296), (86, 30365), (88, 30374), (92, 30479), (97, 30548), (102, 30674), (108, 30755), (126, 30878), (131, 30905), (132, 30911), (138, 30929), (143, 30965),

Gene: Terminus_32 Start: 29728, Stop: 31230, Start Num: 18

Candidate Starts for Terminus_32:

(Start: 18 @29728 has 192 MA's), (Start: 27 @29797 has 3 MA's), (34, 29875), (46, 29971), (48, 29992), (50, 29998), (54, 30082), (56, 30103), (59, 30154), (63, 30208), (69, 30283), (79, 30418), (81, 30430), (86, 30499), (88, 30508), (92, 30613), (97, 30682), (102, 30808), (108, 30889), (126, 31012), (131, 31039), (132, 31045), (138, 31063), (143, 31099),

Gene: ThreeRngTarjay_45 Start: 40917, Stop: 42335, Start Num: 18

Candidate Starts for ThreeRngTarjay_45:

(Start: 18 @40917 has 192 MA's), (26, 40971), (31, 41043), (34, 41064), (44, 41145), (51, 41202), (54, 41253), (55, 41265), (56, 41274), (59, 41325), (70, 41457), (73, 41508), (85, 41640), (88, 41673), (89, 41676), (100, 41868), (103, 41955), (107, 42018), (108, 42042), (109, 42051), (128, 42201), (137, 42234), (138, 42237),

Gene: Thresher_33 Start: 30395, Stop: 31897, Start Num: 18

Candidate Starts for Thresher_33:

(Start: 18 @30395 has 192 MA's), (Start: 27 @30464 has 3 MA's), (34, 30542), (46, 30638), (48, 30659), (50, 30665), (54, 30749), (56, 30770), (59, 30821), (63, 30875), (69, 30950), (79, 31085), (81, 31097), (86, 31166), (88, 31175), (92, 31280), (97, 31349), (102, 31475), (108, 31556), (126, 31679), (131, 31706), (132, 31712), (138, 31730), (143, 31766),

Gene: Thyatira_29 Start: 25415, Stop: 27049, Start Num: 18

Candidate Starts for Thyatira_29:

(Start: 18 @25415 has 192 MA's), (Start: 20 @25421 has 1 MA's), (Start: 21 @25436 has 1 MA's), (31, 25541), (35, 25565), (43, 25628), (51, 25700), (52, 25703), (54, 25751), (56, 25772), (65, 25901), (67, 25922), (68, 25934), (69, 25949), (72, 25988), (80, 26096), (81, 26105), (86, 26174), (87, 26180), (88, 26183), (92, 26288), (94, 26324), (95, 26348), (99, 26396), (102, 26477), (108, 26561), (110, 26594), (111, 26597), (126, 26717), (131, 26744), (132, 26750), (140, 26786), (143, 26804), (144, 26822), (146, 26855), (153, 26915), (163, 27005), (165, 27023), (167, 27038),

Gene: Tierra_30 Start: 24918, Stop: 26564, Start Num: 18

Candidate Starts for Tierra_30:

(Start: 18 @24918 has 192 MA's), (26, 24972), (28, 24999), (32, 25056), (34, 25065), (54, 25254), (56, 25275), (69, 25452), (72, 25491), (86, 25677), (88, 25686), (92, 25791), (98, 25863), (99, 25899), (102, 25980), (108, 26058), (110, 26091), (113, 26103), (117, 26136), (121, 26163), (130, 26241), (139, 26286), (152, 26415), (157, 26454), (160, 26484), (165, 26538),

Gene: Tomaszewski_31 Start: 29238, Stop: 30740, Start Num: 18

Candidate Starts for Tomaszewski_31:

(Start: 18 @29238 has 192 MA's), (Start: 27 @29307 has 3 MA's), (34, 29385), (46, 29481), (48, 29502), (50, 29508), (54, 29592), (56, 29613), (59, 29664), (63, 29718), (69, 29793), (79, 29928), (81, 29940), (86, 30009), (88, 30018), (92, 30123), (97, 30192), (102, 30318), (108, 30399), (131, 30549), (132, 30555), (138, 30573), (143, 30609),

Gene: Toto_32 Start: 29710, Stop: 31143, Start Num: 27

Candidate Starts for Toto_32:

(Start: 18 @29641 has 192 MA's), (Start: 27 @29710 has 3 MA's), (34, 29788), (46, 29884), (48, 29905), (50, 29911), (54, 29995), (56, 30016), (59, 30067), (63, 30121), (69, 30196), (79, 30331), (81, 30343), (86, 30412), (88, 30421), (92, 30526), (97, 30595), (102, 30721), (108, 30802), (131, 30952), (138, 30976), (143, 31012),

Gene: Traaww1_30 Start: 29279, Stop: 30781, Start Num: 18

Candidate Starts for Traaww1_30:

(Start: 18 @29279 has 192 MA's), (Start: 27 @29348 has 3 MA's), (34, 29426), (46, 29522), (48, 29543), (50, 29549), (54, 29633), (56, 29654), (59, 29705), (63, 29759), (68, 29819), (79, 29969), (81, 29981), (86, 30050), (88, 30059), (92, 30164), (97, 30233), (102, 30359), (108, 30440), (131, 30590), (132, 30596), (138, 30614), (143, 30650),

Gene: TribelTrouble_29 Start: 25351, Stop: 26991, Start Num: 19

Candidate Starts for TribelTrouble_29:

(Start: 19 @25351 has 13 MA's), (28, 25429), (34, 25495), (36, 25501), (47, 25576), (53, 25642), (54, 25684), (55, 25696), (56, 25705), (66, 25840), (69, 25885), (72, 25924), (77, 26023), (80, 26032), (81, 26041), (85, 26089), (86, 26110), (87, 26116), (88, 26119), (92, 26224), (96, 26290), (97, 26293), (101, 26377), (102, 26413), (108, 26491), (119, 26584), (139, 26710), (141, 26722), (144, 26752), (155, 26875), (165, 26968),

Gene: Tuco_33 Start: 30149, Stop: 31651, Start Num: 18

Candidate Starts for Tuco_33:

(Start: 18 @30149 has 192 MA's), (Start: 27 @30218 has 3 MA's), (34, 30296), (46, 30392), (48, 30413), (50, 30419), (54, 30503), (56, 30524), (59, 30575), (63, 30629), (69, 30704), (79, 30839), (81, 30851), (86, 30920), (88, 30929), (92, 31034), (97, 31103), (102, 31229), (108, 31310), (131, 31460), (132, 31466), (138, 31484), (143, 31520),

Gene: Ukulele_32 Start: 29399, Stop: 30901, Start Num: 18

Candidate Starts for Ukulele_32:

(Start: 18 @29399 has 192 MA's), (Start: 27 @29468 has 3 MA's), (34, 29546), (46, 29642), (48, 29663), (50, 29669), (54, 29753), (56, 29774), (59, 29825), (63, 29879), (69, 29954), (79, 30089), (81, 30101), (86, 30170), (88, 30179), (92, 30284), (97, 30353), (102, 30479), (108, 30560), (122, 30656), (126, 30683), (131, 30710), (132, 30716), (138, 30734), (143, 30770),

Gene: Unicorn_30 Start: 24247, Stop: 25893, Start Num: 18

Candidate Starts for Unicorn_30:

(Start: 18 @24247 has 192 MA's), (Start: 27 @24316 has 3 MA's), (28, 24328), (32, 24385), (34, 24394), (54, 24583), (56, 24604), (64, 24727), (69, 24781), (72, 24820), (86, 25006), (88, 25015), (92, 25120), (98, 25192), (99, 25228), (102, 25309), (108, 25387), (110, 25420), (113, 25432), (117, 25465), (121, 25492), (130, 25570), (139, 25615), (152, 25744), (157, 25783), (160, 25813),

Gene: Wanda_53 Start: 40631, Stop: 42073, Start Num: 15

Candidate Starts for Wanda_53:

(14, 40607), (Start: 15 @40631 has 2 MA's), (Start: 19 @40640 has 13 MA's), (39, 40805), (40, 40826), (42, 40856), (48, 40898), (49, 40901), (56, 41009), (70, 41195), (73, 41246), (85, 41378), (88, 41411), (89, 41414), (90, 41459), (100, 41606), (103, 41693), (107, 41756), (108, 41780), (109, 41789), (128, 41939), (137, 41972), (138, 41975),

Gene: Waterfoul_29 Start: 25439, Stop: 27073, Start Num: 18

Candidate Starts for Waterfoul_29:

(Start: 18 @25439 has 192 MA's), (Start: 20 @25445 has 1 MA's), (Start: 21 @25460 has 1 MA's), (26, 25493), (Start: 27 @25508 has 3 MA's), (31, 25565), (34, 25586), (35, 25589), (38, 25604), (43, 25652), (51, 25724), (54, 25775), (56, 25796), (65, 25925), (67, 25946), (69, 25973), (72, 26012), (80, 26120), (81, 26129), (86, 26198), (87, 26204), (88, 26207), (92, 26312), (94, 26348), (95, 26372), (99, 26420), (102, 26501), (108, 26585), (110, 26618), (111, 26621), (122, 26714), (126, 26741), (131, 26768), (132, 26774), (140, 26810), (143, 26828), (144, 26846), (146, 26879), (153, 26939), (163, 27029), (165, 27047), (167, 27062),

Gene: Whitty_27 Start: 23579, Stop: 25162, Start Num: 18

Candidate Starts for Whitty_27:

(Start: 18 @23579 has 192 MA's), (28, 23660), (30, 23678), (35, 23729), (37, 23741), (38, 23744), (54, 23915), (57, 23942), (68, 24104), (70, 24125), (72, 24149), (75, 24215), (80, 24257), (84, 24311), (88, 24353), (91, 24437), (93, 24473), (94, 24491), (102, 24641), (109, 24728), (123, 24839), (139, 24920), (161, 25121),

Gene: Wiggin_35 Start: 30145, Stop: 31647, Start Num: 18

Candidate Starts for Wiggin_35:

(Start: 18 @30145 has 192 MA's), (Start: 27 @30214 has 3 MA's), (34, 30292), (46, 30388), (48, 30409), (50, 30415), (54, 30499), (56, 30520), (59, 30571), (63, 30625), (69, 30700), (79, 30835), (81, 30847), (86, 30916), (88, 30925), (92, 31030), (97, 31099), (102, 31225), (108, 31306), (126, 31429), (131, 31456), (132, 31462), (138, 31480), (143, 31516),

Gene: Willez_31 Start: 29145, Stop: 30647, Start Num: 18

Candidate Starts for Willez_31:

(Start: 18 @29145 has 192 MA's), (Start: 27 @29214 has 3 MA's), (34, 29292), (46, 29388), (48, 29409), (50, 29415), (54, 29499), (56, 29520), (59, 29571), (63, 29625), (69, 29700), (79, 29835), (81, 29847), (86, 29916), (88, 29925), (92, 30030), (97, 30099), (102, 30225), (108, 30306), (131, 30456), (132, 30462), (138, 30480), (143, 30516),

Gene: Wintermute_31 Start: 26019, Stop: 27629, Start Num: 18

Candidate Starts for Wintermute_31:

(Start: 18 @26019 has 192 MA's), (Start: 27 @26088 has 3 MA's), (31, 26145), (32, 26157), (34, 26166), (35, 26169), (38, 26184), (45, 26238), (50, 26271), (51, 26304), (54, 26355), (56, 26376), (58, 26409), (61, 26466), (68, 26538), (72, 26583), (81, 26700), (85, 26748), (86, 26769), (87, 26775), (88, 26778), (92, 26883), (99, 26991), (102, 27072), (104, 27090), (108, 27153), (109, 27162), (120, 27225), (147, 27441), (156, 27501),

Gene: Xandras_34 Start: 29631, Stop: 31133, Start Num: 18

Candidate Starts for Xandras_34:

(Start: 18 @29631 has 192 MA's), (Start: 27 @29700 has 3 MA's), (34, 29778), (46, 29874), (48, 29895), (50, 29901), (54, 29985), (56, 30006), (59, 30057), (63, 30111), (69, 30186), (79, 30321), (81, 30333), (86, 30402), (88, 30411), (92, 30516), (97, 30585), (102, 30711), (108, 30792), (122, 30888), (126, 30915), (131, 30942), (132, 30948), (138, 30966), (143, 31002),

Gene: Ximenita_31 Start: 24274, Stop: 25920, Start Num: 18

Candidate Starts for Ximenita_31:

(Start: 18 @24274 has 192 MA's), (Start: 27 @24343 has 3 MA's), (28, 24355), (32, 24412), (34, 24421), (54, 24610), (56, 24631), (58, 24667), (64, 24757), (69, 24811), (72, 24850), (86, 25036), (88, 25045), (92, 25150), (95, 25210), (99, 25258), (102, 25339), (108, 25417), (110, 25450), (113, 25462), (117, 25495), (121, 25522), (130, 25600), (139, 25645), (152, 25774), (157, 25810), (159, 25819), (160, 25840), (165, 25894),

Gene: Y10_31 Start: 26019, Stop: 27629, Start Num: 18

Candidate Starts for Y10_31:

(Start: 18 @26019 has 192 MA's), (Start: 27 @26088 has 3 MA's), (31, 26145), (32, 26157), (34, 26166), (35, 26169), (38, 26184), (45, 26238), (50, 26271), (51, 26304), (54, 26355), (56, 26376), (58, 26409), (61, 26466), (68, 26538), (72, 26583), (81, 26700), (85, 26748), (86, 26769), (87, 26775), (88, 26778), (92, 26883), (99, 26991), (102, 27072), (104, 27090), (108, 27153), (109, 27162), (120, 27225), (147, 27441), (156, 27501),

Gene: Y2_31 Start: 26019, Stop: 27629, Start Num: 18

Candidate Starts for Y2_31:

(Start: 18 @26019 has 192 MA's), (Start: 27 @26088 has 3 MA's), (31, 26145), (32, 26157), (34, 26166), (35, 26169), (38, 26184), (45, 26238), (50, 26271), (51, 26304), (54, 26355), (56, 26376), (58, 26409), (61, 26466), (68, 26538), (72, 26583), (81, 26700), (85, 26748), (86, 26769), (87, 26775), (88, 26778), (92, 26883), (99, 26991), (102, 27072), (104, 27090), (108, 27153), (109, 27162), (120, 27225), (147, 27441), (156, 27501),

Gene: YassJohnny_33 Start: 30156, Stop: 31658, Start Num: 18

Candidate Starts for YassJohnny_33:

(Start: 18 @30156 has 192 MA's), (Start: 27 @30225 has 3 MA's), (34, 30303), (46, 30399), (48, 30420), (50, 30426), (54, 30510), (56, 30531), (59, 30582), (63, 30636), (69, 30711), (79, 30846), (81, 30858), (86, 30927), (88, 30936), (92, 31041), (97, 31110), (102, 31236), (108, 31317), (126, 31440), (131, 31467), (132, 31473), (138, 31491), (143, 31527),

Gene: Yeet_45 Start: 40076, Stop: 41494, Start Num: 18

Candidate Starts for Yeet_45:

(Start: 18 @40076 has 192 MA's), (26, 40130), (31, 40202), (34, 40223), (44, 40304), (51, 40361), (54, 40412), (55, 40424), (56, 40433), (59, 40484), (70, 40616), (73, 40667), (85, 40799), (88, 40832), (89, 40835), (100, 41027), (103, 41114), (107, 41177), (108, 41201), (109, 41210), (128, 41360), (137, 41393), (138, 41396),

Gene: Youngblood_32 Start: 29801, Stop: 31303, Start Num: 18

Candidate Starts for Youngblood_32:

(Start: 18 @29801 has 192 MA's), (Start: 27 @29870 has 3 MA's), (34, 29948), (46, 30044), (48, 30065), (50, 30071), (54, 30155), (56, 30176), (59, 30227), (63, 30281), (69, 30356), (79, 30491), (81, 30503), (86, 30572), (88, 30581), (92, 30686), (97, 30755), (102, 30881), (108, 30962), (131, 31112), (132, 31118), (138, 31136), (143, 31172),

Gene: Zelink_48 Start: 41861, Stop: 43279, Start Num: 18

Candidate Starts for Zelink_48:

(Start: 18 @41861 has 192 MA's), (26, 41915), (31, 41987), (34, 42008), (44, 42089), (51, 42146), (54, 42197), (55, 42209), (56, 42218), (59, 42269), (70, 42401), (73, 42452), (85, 42584), (88, 42617), (89, 42620), (90, 42665), (100, 42812), (103, 42899), (107, 42962), (108, 42986), (109, 42995), (128, 43145), (137, 43178), (138, 43181),

Gene: ZenTime222_27 Start: 23579, Stop: 25162, Start Num: 18

Candidate Starts for ZenTime222_27:

(Start: 18 @23579 has 192 MA's), (28, 23660), (30, 23678), (35, 23729), (37, 23741), (38, 23744), (54, 23915), (57, 23942), (68, 24104), (70, 24125), (72, 24149), (75, 24215), (80, 24257), (84, 24311), (88, 24353), (91, 24437), (93, 24473), (94, 24491), (102, 24641), (109, 24728), (123, 24839), (139, 24920), (161, 25121),

Gene: xkcd_33 Start: 29810, Stop: 31312, Start Num: 18

Candidate Starts for xkcd_33:

(Start: 18 @29810 has 192 MA's), (Start: 27 @29879 has 3 MA's), (34, 29957), (46, 30053), (48, 30074), (50, 30080), (54, 30164), (56, 30185), (59, 30236), (63, 30290), (69, 30365), (79, 30500), (81, 30512), (86, 30581), (88, 30590), (92, 30695), (97, 30764), (102, 30890), (108, 30971), (122, 31067), (126, 31094), (131, 31121), (132, 31127), (138, 31145), (143, 31181),