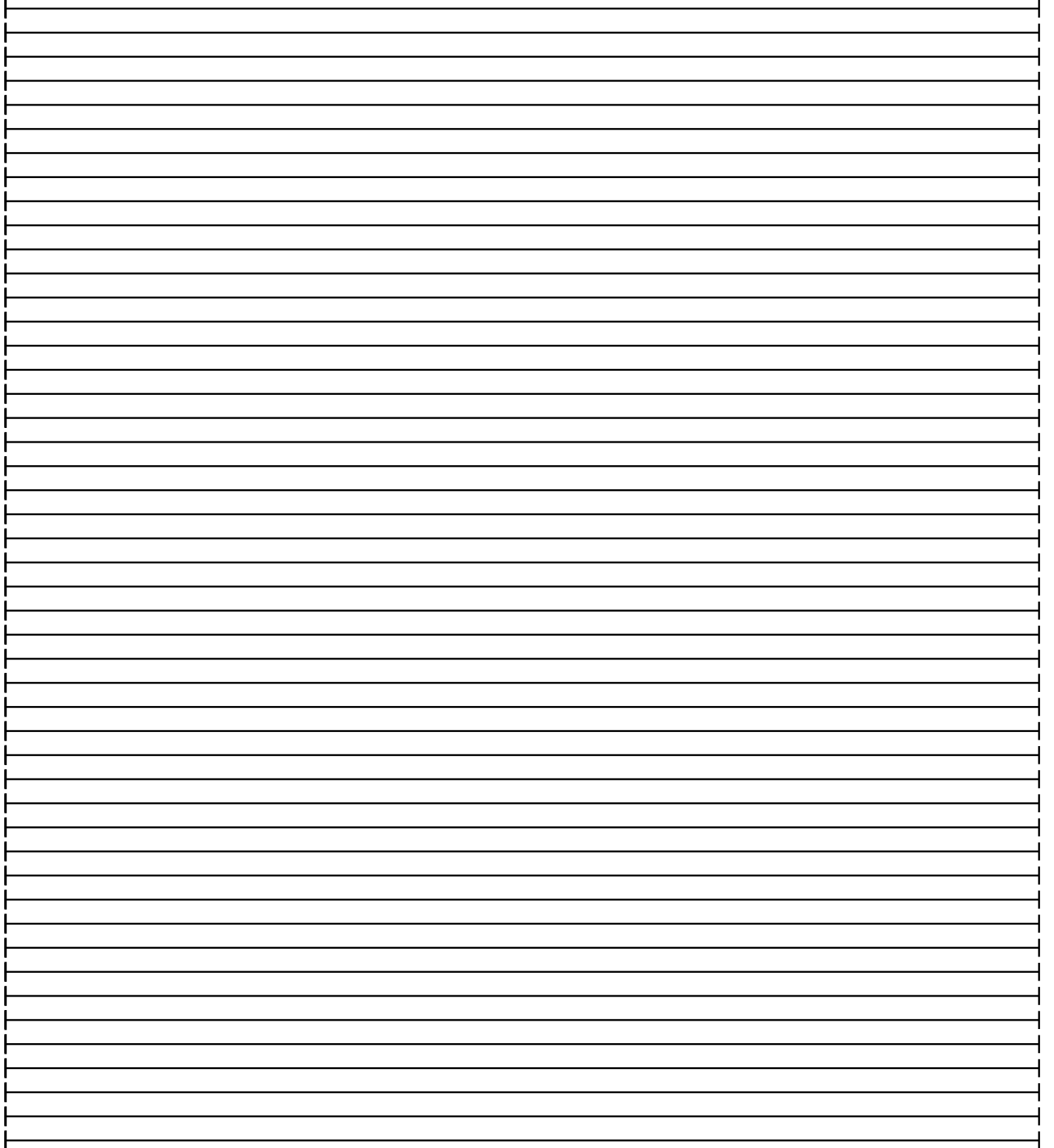
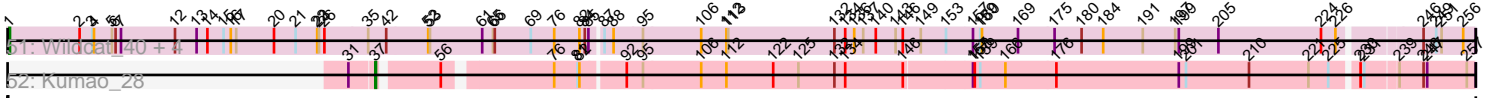


Pham 163426



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 163426 Report

This analysis was run 04/28/24 on database version 559.

Pham number 163426 has 136 members, 11 are drafts.

Phages represented in each track:

- Track 1 : Farewell_16, Sparky_16
- Track 2 : Sephiroth_28, Syleon_28
- Track 3 : Kudrefre_27
- Track 4 : Octobien14_28
- Track 5 : Rabbitrun_30
- Track 6 : Neville_28
- Track 7 : Trax_28
- Track 8 : Wyatt2_18, Silverleaf_18, AvadaKedavra_18, Acquire49_18, Rose5_18, Tyson_18, UPIE_18, Halena_18, MACKerman_18
- Track 9 : Appletree2_18
- Track 10 : LeBron_18, CicholasNage_18, Calm_18, Wamburgrxpress_18, Zaria_18
- Track 11 : Enceladus_18, JoeDirt_18, DirkDirk_18, OhShagHennessy_18
- Track 12 : Bazzle_18
- Track 13 : Loadrie_18, BigCheese_18, Faith1_18, MkaliMitinis3_18, Miley16_18, DrSeegs_18, Wigglewiggle_18, Kahlid_18, Hafay_18, Gabriela_18, Nicholasp3_18, Winky_18, Itos_18, BobsGarage_18, Breezona_18, Finemlucis_18, Gardann_18, Wilder_18, Netyap_18
- Track 14 : LilDestine_18, Zakai_18, Crossroads_18, Vetrix_18, Rumpelstiltskin_18
- Track 15 : Archie_18
- Track 16 : Lewan_18
- Track 17 : GuuelaD_18
- Track 18 : Tourach_18
- Track 19 : Baoshan_17, ZhongYanYuan_17
- Track 20 : Claus_18
- Track 21 : Jubie_19, Kingsolomon_19, Clautastrophe_19, Snenia_19, MsGreen_19, Nicholas_19, Jobypre_19, Lumos_19
- Track 22 : Ellson_19
- Track 23 : Krypton555_19
- Track 24 : Finnry_19, Moostard_19, Bellis_19, Samty_19
- Track 25 : DuncansLeg_19
- Track 26 : MiniMac_19, Lolly9_19, MiniLon_19
- Track 27 : Whirlwind_20
- Track 28 : Douge_18
- Track 29 : Chaser_18
- Track 30 : DyoEdafos_19
- Track 31 : Bromden_19
- Track 32 : Baudelaire_18, Aegeus_18

- Track 33 : Reindeer_26
- Track 34 : Auspice_28
- Track 35 : TyDawg_28, IPhane7_28, LilhomieP_27, Glaske16_29, Bongo_28, Skinny_29, SlimJimmy_27, PegLeg_28, Dulcita_29, Diminimus_29
- Track 36 : Bricole_28
- Track 37 : Rey_32
- Track 38 : GenevaB15_32
- Track 39 : Aziz_32
- Track 40 : MrMagoo_32, GardenSalsa_32
- Track 41 : Estes_33
- Track 42 : Nanosmite_32
- Track 43 : Corazon_48, JoieB_51, Gattaca_49, MosMoris_48, Tesla_49, RedRaider77_50
- Track 44 : Pringar_50, Blackbeetle_50, Huphlebuff_52, VasuNzinga_50, Beelzebub_54, Poise_50, LittleLaf_50, Lilbit_51
- Track 45 : Marvin_48
- Track 46 : Raela_50
- Track 47 : Caprice_47
- Track 48 : Clarkson_51
- Track 49 : Whitty_19, RonRayGun_19, Bernal13_19, Nairb_19, ZenTime222_19, Ibrahim_19
- Track 50 : Mendokysei_18
- Track 51 : Wildcat_40, Azrael100_39, MaryV_40, Cosmo_40, EniyanLRS_37
- Track 52 : Kumao_28

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

The start number called the most often in the published annotations is 34, it was called in 36 of the 125 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Acquire49_18, AvadaKedavra_18, Bellis_19, Bromden_19, Calm_18, Chaser_18, CicholasNage_18, Clautastrophe_19, DirkDirk_18, Douge_18, DuncansLeg_19, DyoEdafos_19, Ellson_19, Enceladus_18, Finnry_19, Halena_18, Jobypre_19, JoeDirt_18, Jubie_19, Kingsolomon_19, Krypton555_19, LeBron_18, Lolly9_19, Lumos_19, MAckerman_18, MiniLon_19, MiniMac_19, Moostard_19, MsGreen_19, Nicholas_19, OhShagHennessy_18, Rose5_18, Samty_19, Silverleaf_18, Snenia_19, Tyson_18, UPIE_18, Wamburgxpress_18, Whirlwind_20, Wyatt2_18, Zaria_18,

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

- Appletree2_18,

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

- Aegeus_18, Archie_18, Auspice_28, Aziz_32, Azrael100_39, Baoshan_17, Baudelaire_18, Bazzle_18, Beelzebub_54, Bernal13_19, BigCheese_18, Blackbeetle_50, BobsGarage_18, Bongo_28, Breezona_18, Bricole_28, Caprice_47, Clarkson_51, Claus_18, Corazon_48, Cosmo_40, Crossroads_18, Diminimus_29, DrSeegs_18, Dulcita_29, EniyanLRS_37, Estes_33, Faith1_18, Farewell_16, Finemlucis_18, Gabriela_18, Gardann_18, GardenSalsa_32, Gattaca_49, GenevaB15_32, Glaske16_29, GuuelaD_18, Hafay_18, Huphlebuff_52, IPhane7_28,

Ibrahim_19, Itos_18, JoieB_51, Kahlid_18, Kundefre_27, Kumao_28, Lewan_18, LilDestine_18, Lilbit_51, LilhomieP_27, LittleLaf_50, Loadrie_18, Marvin_48, MaryV_40, Mendokysei_18, Miley16_18, MkaliMitinis3_18, MosMoris_48, MrMagoo_32, Nairb_19, Nanosmite_32, Netyap_18, Neville_28, Nicholasp3_18, Octobien14_28, PegLeg_28, Poise_50, Pringar_50, Rabbitrun_30, Raela_50, RedRaider77_50, Reindeer_26, Rey_32, RonRayGun_19, Rumpelstiltskin_18, Sephiroth_28, Skinny_29, SlimJimmy_27, Sparky_16, Syleon_28, Tesla_49, Tourach_18, Trax_28, TyDawg_28, VasuNzinga_50, Vetrix_18, Whitty_19, Wigglewiggle_18, Wildcat_40, Wilder_18, Winky_18, Zakai_18, ZenTime222_19, ZhongYanYuan_17,

Summary by start number:

Start 1:

- Found in 5 of 136 (3.7%) of genes in pham
- Manual Annotations of this start: 5 of 125
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Azrael100_39 (V), Cosmo_40 (V), EniyanLRS_37 (V), MaryV_40 (V), Wildcat_40 (V),

Start 25:

- Found in 19 of 136 (14.0%) of genes in pham
- Manual Annotations of this start: 1 of 125
- Called 5.3% of time when present
- Phage (with cluster) where this start called: Appletree2_18 (L1),

Start 31:

- Found in 20 of 136 (14.7%) of genes in pham
- Manual Annotations of this start: 3 of 125
- Called 15.0% of time when present
- Phage (with cluster) where this start called: GardenSalsa_32 (M2), GenevaB15_32 (M2), MrMagoo_32 (M2),

Start 33:

- Found in 22 of 136 (16.2%) of genes in pham
- Manual Annotations of this start: 4 of 125
- Called 18.2% of time when present
- Phage (with cluster) where this start called: Aegeus_18 (L5), Auspice_28 (M1), Baudelaire_18 (L5), Rey_32 (M2),

Start 34:

- Found in 42 of 136 (30.9%) of genes in pham
- Manual Annotations of this start: 36 of 125
- Called 97.6% of time when present
- Phage (with cluster) where this start called: Acquire49_18 (L1), AvadaKedavra_18 (L1), Bellis_19 (L3), Bromden_19 (L4), Calm_18 (L1), Chaser_18 (L4), CicholasNage_18 (L1), Clautastrophe_19 (L3), DirkDirk_18 (L1), Douge_18 (L4), DuncansLeg_19 (L3), DyoEdafos_19 (L4), Ellson_19 (L3), Enceladus_18 (L1), Finrny_19 (L3), Halena_18 (L1), Jobypre_19 (L3), JoeDirt_18 (L1), Jubie_19 (L3), Kingsolomon_19 (L3), Krypton555_19 (L3), LeBron_18 (L1), Lolly9_19 (L3), Lumos_19 (L3), MAckerman_18 (L1), MiniLon_19 (L3), MiniMac_19 (L3), Moostard_19 (L3), MsGreen_19 (L3), Nicholas_19 (L3), OhShagHennessy_18 (L1), Rose5_18 (L1), Samty_19 (L3), Silverleaf_18 (L1), Snenia_19 (L3), Tyson_18 (L1),

UPIE_18 (L1), Wamburgxpress_18 (L1), Whirlwind_20 (L3), Wyatt2_18 (L1), Zaria_18 (L1),

Start 37:

- Found in 1 of 136 (0.7%) of genes in pham
- Manual Annotations of this start: 1 of 125
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kumao_28 (singleton),

Start 38:

- Found in 40 of 136 (29.4%) of genes in pham
- Manual Annotations of this start: 14 of 125
- Called 35.0% of time when present
- Phage (with cluster) where this start called: Aziz_32 (M2), Bongo_28 (M1), Bricole_28 (M1), Diminimus_29 (M1), Dulcita_29 (M1), Estes_33 (M2), Glaske16_29 (M1), IPhone7_28 (M1), LilhomieP_27 (M1), Nanosmite_32 (M3), PegLeg_28 (M1), Skinny_29 (M1), SlimJimmy_27 (M1), TyDawg_28 (M1),

Start 39:

- Found in 1 of 136 (0.7%) of genes in pham
- Manual Annotations of this start: 1 of 125
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Reindeer_26 (M1),

Start 40:

- Found in 7 of 136 (5.1%) of genes in pham
- Manual Annotations of this start: 7 of 125
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kudrefre_27 (DU1), Neville_28 (DU2), Octobien14_28 (DU1), Rabbitrun_30 (DU2), Sephiroth_28 (DU1), Syleon_28 (DU1), Trax_28 (DU2),

Start 41:

- Found in 2 of 136 (1.5%) of genes in pham
- Manual Annotations of this start: 2 of 125
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Farewell_16 (AF), Sparky_16 (AF),

Start 43:

- Found in 32 of 136 (23.5%) of genes in pham
- Manual Annotations of this start: 28 of 125
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Archie_18 (L2), Baoshan_17 (L2), Bazzle_18 (L2), BigCheese_18 (L2), BobsGarage_18 (L2), Breezona_18 (L2), Claus_18 (L2), Crossroads_18 (L2), DrSeegs_18 (L2), Faith1_18 (L2), Finemlucis_18 (L2), Gabriela_18 (L2), Gardann_18 (L2), GuuelaD_18 (L2), Hafay_18 (L2), Itos_18 (L2), Kahlid_18 (L2), Lewan_18 (L2), LilDestine_18 (L2), Loadrie_18 (L2), Miley16_18 (L2), MkaliMitinis3_18 (L2), Netyap_18 (L2), Nicholasp3_18 (L2), Rumpelstiltskin_18 (L2), Tourach_18 (L2), Vetrix_18 (L2), Wigglewiggles_18 (L2), Wilder_18 (L2), Winky_18 (L2), Zakai_18 (L2), ZhongYanYuan_17 (L2),

Start 44:

- Found in 39 of 136 (28.7%) of genes in pham

- Manual Annotations of this start: 23 of 125
- Called 64.1% of time when present
- Phage (with cluster) where this start called: Beelzebub_54 (S), Bernal13_19 (T), Blackbeetle_50 (S), Caprice_47 (S), Clarkson_51 (S), Corazon_48 (S), Gattaca_49 (S), Huphlepuuff_52 (S), Ibrahim_19 (T), JoieB_51 (S), Lilbit_51 (S), LittleLaf_50 (S), Marvin_48 (S), Mendokysei_18 (T), MosMoris_48 (S), Nairb_19 (T), Poise_50 (S), Pringar_50 (S), Raela_50 (S), RedRaider77_50 (S), RonRayGun_19 (T), Tesla_49 (S), VasuNzinga_50 (S), Whitty_19 (T), ZenTime222_19 (T),

Summary by clusters:

There are 15 clusters represented in this pham: singleton, AF, V, M1, L4, S, L5, L2, L3, M3, L1, DU1, DU2, M2, T,

Info for manual annotations of cluster AF:

- Start number 41 was manually annotated 2 times for cluster AF.

Info for manual annotations of cluster DU1:

- Start number 40 was manually annotated 4 times for cluster DU1.

Info for manual annotations of cluster DU2:

- Start number 40 was manually annotated 3 times for cluster DU2.

Info for manual annotations of cluster L1:

- Start number 25 was manually annotated 1 time for cluster L1.
- Start number 34 was manually annotated 17 times for cluster L1.

Info for manual annotations of cluster L2:

- Start number 43 was manually annotated 28 times for cluster L2.

Info for manual annotations of cluster L3:

- Start number 34 was manually annotated 16 times for cluster L3.

Info for manual annotations of cluster L4:

- Start number 34 was manually annotated 3 times for cluster L4.

Info for manual annotations of cluster L5:

- Start number 33 was manually annotated 2 times for cluster L5.

Info for manual annotations of cluster M1:

- Start number 33 was manually annotated 1 time for cluster M1.
- Start number 38 was manually annotated 11 times for cluster M1.
- Start number 39 was manually annotated 1 time for cluster M1.

Info for manual annotations of cluster M2:

- Start number 31 was manually annotated 3 times for cluster M2.
- Start number 33 was manually annotated 1 time for cluster M2.
- Start number 38 was manually annotated 2 times for cluster M2.

Info for manual annotations of cluster M3:

- Start number 38 was manually annotated 1 time for cluster M3.

Info for manual annotations of cluster S:

- Start number 44 was manually annotated 16 times for cluster S.

Info for manual annotations of cluster T:

- Start number 44 was manually annotated 7 times for cluster T.

Info for manual annotations of cluster V:

- Start number 1 was manually annotated 5 times for cluster V.

Gene Information:

Gene: Acquire49_18 Start: 16746, Stop: 18515, Start Num: 34

Candidate Starts for Acquire49_18:

(Start: 25 @16683 has 1 MA's), (29, 16704), (30, 16719), (Start: 34 @16746 has 36 MA's), (50, 16839), (58, 16887), (59, 16893), (61, 16920), (62, 16923), (63, 16929), (69, 17001), (72, 17010), (75, 17034), (78, 17049), (81, 17079), (100, 17205), (101, 17214), (103, 17235), (105, 17250), (114, 17319), (120, 17355), (121, 17376), (128, 17445), (132, 17484), (150, 17622), (152, 17634), (159, 17709), (161, 17715), (163, 17733), (169, 17772), (170, 17805), (171, 17814), (173, 17823), (175, 17832), (176, 17835), (187, 17955), (193, 17991), (199, 18039), (201, 18051), (205, 18105), (214, 18201), (215, 18219), (216, 18225), (217, 18228), (222, 18261), (225, 18285), (234, 18348), (240, 18390), (246, 18429), (248, 18447), (252, 18468), (255, 18489),

Gene: Aegeus_18 Start: 16306, Stop: 18069, Start Num: 33

Candidate Starts for Aegeus_18:

(29, 16267), (30, 16282), (Start: 33 @16306 has 4 MA's), (Start: 38 @16327 has 14 MA's), (56, 16429), (59, 16444), (63, 16480), (70, 16555), (72, 16561), (74, 16579), (75, 16585), (76, 16591), (95, 16723), (100, 16756), (102, 16768), (104, 16789), (121, 16927), (128, 16996), (129, 17011), (131, 17023), (132, 17035), (133, 17044), (137, 17083), (138, 17089), (141, 17107), (143, 17137), (150, 17179), (159, 17266), (165, 17302), (169, 17329), (171, 17371), (175, 17389), (176, 17392), (177, 17395), (183, 17467), (184, 17470), (191, 17536), (193, 17548), (199, 17596), (205, 17662), (208, 17680), (211, 17722), (213, 17740), (217, 17785), (219, 17791), (230, 17887), (232, 17896), (234, 17905), (242, 17953), (244, 17956), (246, 17983), (248, 18001), (250, 18010), (252, 18022), (254, 18034), (255, 18043), (257, 18055),

Gene: Appletree2_18 Start: 16636, Stop: 18468, Start Num: 25

Candidate Starts for Appletree2_18:

(Start: 25 @16636 has 1 MA's), (29, 16657), (30, 16672), (Start: 34 @16699 has 36 MA's), (50, 16792), (58, 16840), (59, 16846), (61, 16873), (63, 16882), (69, 16954), (72, 16963), (75, 16987), (78, 17002), (81, 17032), (100, 17158), (101, 17167), (103, 17188), (105, 17203), (114, 17272), (120, 17308), (121, 17329), (128, 17398), (132, 17437), (150, 17575), (152, 17587), (159, 17662), (161, 17668), (163, 17686), (169, 17725), (170, 17758), (171, 17767), (173, 17776), (175, 17785), (187, 17908), (193, 17944), (199, 17992), (201, 18004), (205, 18058), (214, 18154), (215, 18172), (216, 18178), (217, 18181), (222, 18214), (225, 18238), (234, 18301), (240, 18343), (246, 18382), (248, 18400), (252, 18421), (255, 18442),

Gene: Archie_18 Start: 17205, Stop: 18938, Start Num: 43

Candidate Starts for Archie_18:

(Start: 43 @17205 has 28 MA's), (53, 17274), (69, 17415), (70, 17418), (78, 17463), (82, 17496), (84, 17505), (88, 17541), (96, 17595), (100, 17622), (102, 17634), (106, 17685), (107, 17691), (111, 17724), (129, 17877), (132, 17901), (133, 17910), (138, 17955), (144, 18006), (150, 18048), (164, 18168), (170, 18231), (175, 18258), (180, 18303), (184, 18339), (195, 18438), (197, 18459), (199, 18465), (201, 18477), (206, 18540), (214, 18627), (217, 18654), (226, 18723), (227, 18738), (234,

18774), (246, 18852), (248, 18870),

Gene: Auspice_28 Start: 22341, Stop: 24104, Start Num: 33

Candidate Starts for Auspice_28:

(18, 22146), (Start: 31 @22326 has 3 MA's), (Start: 33 @22341 has 4 MA's), (Start: 38 @22368 has 14 MA's), (Start: 44 @22383 has 23 MA's), (49, 22422), (53, 22452), (54, 22458), (56, 22470), (68, 22575), (69, 22590), (76, 22629), (94, 22752), (95, 22761), (106, 22857), (112, 22899), (113, 22902), (132, 23079), (146, 23190), (150, 23217), (156, 23289), (157, 23298), (158, 23301), (160, 23313), (175, 23433), (176, 23436), (180, 23478), (182, 23508), (184, 23514), (197, 23634), (199, 23640), (243, 23994), (246, 24021), (248, 24039), (250, 24048),

Gene: AvadaKedavra_18 Start: 16746, Stop: 18515, Start Num: 34

Candidate Starts for AvadaKedavra_18:

(Start: 25 @16683 has 1 MA's), (29, 16704), (30, 16719), (Start: 34 @16746 has 36 MA's), (50, 16839), (58, 16887), (59, 16893), (61, 16920), (62, 16923), (63, 16929), (69, 17001), (72, 17010), (75, 17034), (78, 17049), (81, 17079), (100, 17205), (101, 17214), (103, 17235), (105, 17250), (114, 17319), (120, 17355), (121, 17376), (128, 17445), (132, 17484), (150, 17622), (152, 17634), (159, 17709), (161, 17715), (163, 17733), (169, 17772), (170, 17805), (171, 17814), (173, 17823), (175, 17832), (176, 17835), (187, 17955), (193, 17991), (199, 18039), (201, 18051), (205, 18105), (214, 18201), (215, 18219), (216, 18225), (217, 18228), (222, 18261), (225, 18285), (234, 18348), (240, 18390), (246, 18429), (248, 18447), (252, 18468), (255, 18489),

Gene: Aziz_32 Start: 22957, Stop: 24696, Start Num: 38

Candidate Starts for Aziz_32:

(Start: 31 @22915 has 3 MA's), (Start: 33 @22930 has 4 MA's), (Start: 38 @22957 has 14 MA's), (51, 23035), (53, 23041), (56, 23059), (76, 23221), (78, 23230), (79, 23245), (93, 23332), (94, 23344), (95, 23353), (106, 23449), (109, 23461), (112, 23491), (113, 23494), (118, 23527), (130, 23656), (132, 23671), (134, 23689), (156, 23881), (157, 23890), (159, 23902), (161, 23908), (171, 24007), (173, 24016), (175, 24025), (181, 24094), (191, 24172), (194, 24187), (197, 24226), (199, 24232), (243, 24586), (246, 24613), (247, 24619),

Gene: Azrael100_39 Start: 25297, Stop: 27681, Start Num: 1

Candidate Starts for Azrael100_39:

(Start: 1 @25297 has 5 MA's), (2, 25414), (3, 25435), (4, 25438), (5, 25468), (6, 25474), (7, 25483), (12, 25573), (13, 25609), (14, 25627), (15, 25654), (16, 25666), (17, 25675), (20, 25738), (21, 25774), (22, 25810), (23, 25813), (26, 25819), (35, 25891), (42, 25921), (52, 25990), (53, 25993), (61, 26080), (65, 26098), (66, 26101), (69, 26161), (76, 26200), (82, 26242), (84, 26251), (85, 26257), (87, 26272), (88, 26287), (95, 26335), (106, 26431), (112, 26473), (113, 26476), (132, 26653), (134, 26671), (136, 26686), (137, 26701), (140, 26722), (143, 26755), (146, 26764), (149, 26794), (153, 26833), (157, 26875), (159, 26887), (160, 26890), (169, 26950), (175, 27010), (180, 27055), (184, 27091), (191, 27157), (197, 27211), (199, 27217), (205, 27283), (224, 27454), (226, 27478), (246, 27598), (249, 27619), (251, 27628), (256, 27664),

Gene: Baoshan_17 Start: 16814, Stop: 18547, Start Num: 43

Candidate Starts for Baoshan_17:

(Start: 43 @16814 has 28 MA's), (53, 16883), (69, 17024), (70, 17027), (75, 17057), (78, 17072), (82, 17105), (88, 17150), (96, 17204), (100, 17231), (102, 17243), (106, 17294), (107, 17300), (111, 17333), (129, 17486), (132, 17510), (133, 17519), (138, 17564), (144, 17615), (155, 17720), (164, 17777), (170, 17840), (180, 17912), (184, 17948), (195, 18047), (197, 18068), (199, 18074), (201, 18086), (206, 18149), (214, 18236), (217, 18263), (222, 18296), (227, 18347), (229, 18359), (234, 18383), (246, 18461), (248, 18479),

Gene: Baudelaire_18 Start: 16306, Stop: 18069, Start Num: 33

Candidate Starts for Baudelaire_18:

(29, 16267), (30, 16282), (Start: 33 @16306 has 4 MA's), (Start: 38 @16327 has 14 MA's), (56, 16429), (59, 16444), (63, 16480), (70, 16555), (72, 16561), (74, 16579), (75, 16585), (76, 16591), (95, 16723), (100, 16756), (102, 16768), (104, 16789), (121, 16927), (128, 16996), (129, 17011), (131, 17023), (132, 17035), (133, 17044), (137, 17083), (138, 17089), (141, 17107), (143, 17137), (150, 17179), (159, 17266), (165, 17302), (169, 17329), (171, 17371), (175, 17389), (176, 17392), (177, 17395), (183, 17467), (184, 17470), (191, 17536), (193, 17548), (199, 17596), (205, 17662), (208, 17680), (211, 17722), (213, 17740), (217, 17785), (219, 17791), (230, 17887), (232, 17896), (234, 17905), (242, 17953), (244, 17956), (246, 17983), (248, 18001), (250, 18010), (252, 18022), (254, 18034), (255, 18043), (257, 18055),

Gene: Bazzle_18 Start: 16954, Stop: 18687, Start Num: 43

Candidate Starts for Bazzle_18:

(Start: 43 @16954 has 28 MA's), (53, 17023), (69, 17164), (70, 17167), (78, 17212), (82, 17245), (88, 17290), (96, 17344), (100, 17371), (102, 17383), (106, 17434), (107, 17440), (111, 17473), (129, 17626), (132, 17650), (133, 17659), (136, 17683), (137, 17698), (138, 17704), (144, 17755), (150, 17797), (164, 17917), (170, 17980), (180, 18052), (184, 18088), (193, 18166), (195, 18187), (197, 18208), (199, 18214), (201, 18226), (206, 18289), (214, 18376), (217, 18403), (222, 18436), (226, 18472), (227, 18487), (234, 18523), (246, 18601), (248, 18619),

Gene: Beelzebub_54 Start: 27672, Stop: 29384, Start Num: 44

Candidate Starts for Beelzebub_54:

(32, 27609), (Start: 44 @27672 has 23 MA's), (55, 27753), (62, 27810), (70, 27891), (72, 27897), (80, 27954), (81, 27966), (84, 27978), (89, 28017), (91, 28032), (101, 28101), (106, 28155), (108, 28164), (126, 28320), (132, 28368), (133, 28377), (134, 28386), (139, 28425), (141, 28440), (150, 28503), (152, 28515), (166, 28632), (167, 28635), (170, 28686), (174, 28713), (176, 28716), (178, 28737), (181, 28779), (196, 28899), (199, 28917), (213, 29061), (217, 29106), (220, 29124), (228, 29208), (230, 29217), (234, 29235), (236, 29256), (246, 29301), (247, 29307), (248, 29319), (251, 29331), (253, 29343), (256, 29367), (257, 29373),

Gene: Bellis_19 Start: 17375, Stop: 19138, Start Num: 34

Candidate Starts for Bellis_19:

(Start: 34 @17375 has 36 MA's), (Start: 38 @17402 has 14 MA's), (50, 17465), (58, 17513), (59, 17519), (63, 17555), (70, 17630), (74, 17654), (75, 17660), (84, 17717), (100, 17831), (102, 17843), (116, 17954), (131, 18098), (132, 18110), (136, 18143), (137, 18158), (159, 18332), (161, 18338), (169, 18395), (171, 18437), (173, 18446), (176, 18458), (183, 18533), (191, 18602), (193, 18614), (199, 18662), (205, 18728), (213, 18806), (217, 18851), (225, 18908), (234, 18971), (237, 19007), (242, 19022), (246, 19052), (247, 19058), (248, 19070), (250, 19079), (252, 19091),

Gene: Bernal13_19 Start: 16980, Stop: 18686, Start Num: 44

Candidate Starts for Bernal13_19:

(24, 16872), (27, 16884), (Start: 44 @16980 has 23 MA's), (53, 17046), (65, 17121), (67, 17127), (74, 17211), (82, 17265), (88, 17310), (89, 17313), (98, 17379), (132, 17664), (159, 17886), (181, 18075), (199, 18213), (201, 18225), (217, 18402), (222, 18438), (246, 18603), (250, 18630), (256, 18669), (257, 18675),

Gene: BigCheese_18 Start: 16989, Stop: 18722, Start Num: 43

Candidate Starts for BigCheese_18:

(Start: 43 @16989 has 28 MA's), (53, 17058), (69, 17199), (70, 17202), (78, 17247), (82, 17280), (84, 17289), (88, 17325), (96, 17379), (100, 17406), (102, 17418), (106, 17469), (107, 17475), (111, 17508), (129, 17661), (132, 17685), (133, 17694), (138, 17739), (140, 17754), (150, 17832), (164, 17952), (170, 18015), (180, 18087), (184, 18123), (197, 18243), (199, 18249), (201, 18261), (206, 18324), (214, 18411), (217, 18438), (226, 18507), (227, 18522), (229, 18534), (234, 18558), (246,

18636),

Gene: Blackbeetle_50 Start: 26718, Stop: 28430, Start Num: 44

Candidate Starts for Blackbeetle_50:

(32, 26655), (Start: 44 @26718 has 23 MA's), (55, 26799), (62, 26856), (70, 26937), (72, 26943), (80, 27000), (81, 27012), (84, 27024), (89, 27063), (91, 27078), (101, 27147), (106, 27201), (108, 27210), (126, 27366), (132, 27414), (133, 27423), (134, 27432), (139, 27471), (141, 27486), (150, 27549), (152, 27561), (166, 27678), (167, 27681), (170, 27732), (174, 27759), (176, 27762), (178, 27783), (181, 27825), (196, 27945), (199, 27963), (213, 28107), (217, 28152), (220, 28170), (228, 28254), (230, 28263), (234, 28281), (236, 28302), (246, 28347), (247, 28353), (248, 28365), (251, 28377), (253, 28389), (256, 28413), (257, 28419),

Gene: BobsGarage_18 Start: 16989, Stop: 18722, Start Num: 43

Candidate Starts for BobsGarage_18:

(Start: 43 @16989 has 28 MA's), (53, 17058), (69, 17199), (70, 17202), (78, 17247), (82, 17280), (84, 17289), (88, 17325), (96, 17379), (100, 17406), (102, 17418), (106, 17469), (107, 17475), (111, 17508), (129, 17661), (132, 17685), (133, 17694), (138, 17739), (140, 17754), (150, 17832), (164, 17952), (170, 18015), (180, 18087), (184, 18123), (197, 18243), (199, 18249), (201, 18261), (206, 18324), (214, 18411), (217, 18438), (226, 18507), (227, 18522), (229, 18534), (234, 18558), (246, 18636),

Gene: Bongo_28 Start: 22368, Stop: 24104, Start Num: 38

Candidate Starts for Bongo_28:

(18, 22146), (Start: 31 @22326 has 3 MA's), (Start: 33 @22341 has 4 MA's), (Start: 38 @22368 has 14 MA's), (Start: 44 @22383 has 23 MA's), (49, 22422), (53, 22452), (54, 22458), (56, 22470), (68, 22575), (69, 22590), (76, 22629), (94, 22752), (95, 22761), (106, 22857), (112, 22899), (113, 22902), (132, 23079), (146, 23190), (150, 23217), (156, 23289), (157, 23298), (158, 23301), (160, 23313), (175, 23433), (176, 23436), (180, 23478), (182, 23508), (184, 23514), (197, 23634), (199, 23640), (243, 23994), (246, 24021), (248, 24039), (250, 24048),

Gene: Breezona_18 Start: 16989, Stop: 18722, Start Num: 43

Candidate Starts for Breezona_18:

(Start: 43 @16989 has 28 MA's), (53, 17058), (69, 17199), (70, 17202), (78, 17247), (82, 17280), (84, 17289), (88, 17325), (96, 17379), (100, 17406), (102, 17418), (106, 17469), (107, 17475), (111, 17508), (129, 17661), (132, 17685), (133, 17694), (138, 17739), (140, 17754), (150, 17832), (164, 17952), (170, 18015), (180, 18087), (184, 18123), (197, 18243), (199, 18249), (201, 18261), (206, 18324), (214, 18411), (217, 18438), (226, 18507), (227, 18522), (229, 18534), (234, 18558), (246, 18636),

Gene: Bricole_28 Start: 22354, Stop: 24090, Start Num: 38

Candidate Starts for Bricole_28:

(18, 22132), (Start: 31 @22312 has 3 MA's), (Start: 33 @22327 has 4 MA's), (Start: 38 @22354 has 14 MA's), (Start: 44 @22369 has 23 MA's), (49, 22408), (53, 22438), (54, 22444), (56, 22456), (68, 22561), (69, 22576), (76, 22615), (94, 22738), (95, 22747), (106, 22843), (112, 22885), (113, 22888), (115, 22900), (132, 23065), (146, 23176), (150, 23203), (156, 23275), (157, 23284), (158, 23287), (160, 23299), (175, 23419), (176, 23422), (180, 23464), (182, 23494), (184, 23500), (197, 23620), (199, 23626), (243, 23980), (246, 24007), (248, 24025), (250, 24034),

Gene: Bromden_19 Start: 17040, Stop: 18803, Start Num: 34

Candidate Starts for Bromden_19:

(Start: 34 @17040 has 36 MA's), (59, 17181), (62, 17211), (69, 17289), (70, 17292), (99, 17490), (100, 17493), (102, 17505), (118, 17634), (121, 17664), (123, 17685), (132, 17772), (133, 17781), (137, 17820), (140, 17841), (159, 17997), (169, 18060), (171, 18102), (173, 18111), (176, 18123), (184,

18201), (199, 18327), (203, 18360), (212, 18462), (213, 18471), (214, 18489), (217, 18516), (225, 18573), (234, 18636), (237, 18672), (242, 18687), (246, 18717), (250, 18744), (252, 18756), (255, 18777),

Gene: Calm_18 Start: 16760, Stop: 18529, Start Num: 34

Candidate Starts for Calm_18:

(Start: 25 @16697 has 1 MA's), (29, 16718), (30, 16733), (Start: 34 @16760 has 36 MA's), (50, 16853), (58, 16901), (59, 16907), (61, 16934), (62, 16937), (63, 16943), (69, 17015), (72, 17024), (75, 17048), (78, 17063), (81, 17093), (100, 17219), (101, 17228), (103, 17249), (105, 17264), (114, 17333), (120, 17369), (121, 17390), (128, 17459), (132, 17498), (150, 17636), (152, 17648), (159, 17723), (161, 17729), (163, 17747), (169, 17786), (170, 17819), (171, 17828), (173, 17837), (175, 17846), (187, 17969), (193, 18005), (199, 18053), (201, 18065), (205, 18119), (214, 18215), (215, 18233), (216, 18239), (217, 18242), (222, 18275), (225, 18299), (234, 18362), (240, 18404), (246, 18443), (248, 18461), (252, 18482), (255, 18503),

Gene: Caprice_47 Start: 26788, Stop: 28500, Start Num: 44

Candidate Starts for Caprice_47:

(32, 26725), (Start: 44 @26788 has 23 MA's), (55, 26869), (62, 26926), (70, 27007), (72, 27013), (80, 27070), (81, 27082), (84, 27094), (89, 27133), (91, 27148), (101, 27217), (106, 27271), (108, 27280), (126, 27436), (132, 27484), (133, 27493), (134, 27502), (139, 27541), (141, 27556), (150, 27619), (152, 27631), (166, 27748), (167, 27751), (170, 27802), (174, 27829), (176, 27832), (178, 27853), (181, 27895), (196, 28015), (199, 28033), (213, 28177), (217, 28222), (220, 28240), (228, 28324), (230, 28333), (234, 28351), (236, 28372), (246, 28417), (247, 28423), (248, 28435), (251, 28447), (254, 28468),

Gene: Chaser_18 Start: 16640, Stop: 18403, Start Num: 34

Candidate Starts for Chaser_18:

(Start: 34 @16640 has 36 MA's), (59, 16781), (69, 16889), (70, 16892), (99, 17090), (100, 17093), (102, 17105), (104, 17126), (118, 17234), (121, 17264), (132, 17372), (137, 17420), (140, 17441), (159, 17597), (169, 17660), (171, 17702), (173, 17711), (176, 17723), (180, 17765), (199, 17927), (203, 17960), (212, 18062), (213, 18071), (217, 18116), (225, 18173), (229, 18212), (234, 18236), (237, 18272), (242, 18287), (246, 18317), (250, 18344), (252, 18356), (255, 18377),

Gene: CicholasNage_18 Start: 16748, Stop: 18517, Start Num: 34

Candidate Starts for CicholasNage_18:

(Start: 25 @16685 has 1 MA's), (29, 16706), (30, 16721), (Start: 34 @16748 has 36 MA's), (50, 16841), (58, 16889), (59, 16895), (61, 16922), (62, 16925), (63, 16931), (69, 17003), (72, 17012), (75, 17036), (78, 17051), (81, 17081), (100, 17207), (101, 17216), (103, 17237), (105, 17252), (114, 17321), (120, 17357), (121, 17378), (128, 17447), (132, 17486), (150, 17624), (152, 17636), (159, 17711), (161, 17717), (163, 17735), (169, 17774), (170, 17807), (171, 17816), (173, 17825), (175, 17834), (187, 17957), (193, 17993), (199, 18041), (201, 18053), (205, 18107), (214, 18203), (215, 18221), (216, 18227), (217, 18230), (222, 18263), (225, 18287), (234, 18350), (240, 18392), (246, 18431), (248, 18449), (252, 18470), (255, 18491),

Gene: Clarkson_51 Start: 27400, Stop: 29112, Start Num: 44

Candidate Starts for Clarkson_51:

(32, 27337), (Start: 44 @27400 has 23 MA's), (55, 27481), (62, 27538), (70, 27619), (72, 27625), (80, 27682), (81, 27694), (84, 27706), (89, 27745), (91, 27760), (101, 27829), (106, 27883), (108, 27892), (126, 28048), (132, 28096), (133, 28105), (134, 28114), (139, 28153), (141, 28168), (150, 28231), (152, 28243), (166, 28360), (170, 28414), (174, 28441), (176, 28444), (178, 28465), (181, 28507), (196, 28627), (199, 28645), (213, 28789), (217, 28834), (220, 28852), (228, 28936), (230, 28945), (234, 28963), (236, 28984), (246, 29029), (247, 29035), (248, 29047), (251, 29059), (253, 29071), (256, 29095), (257, 29101),

Gene: Claus_18 Start: 16970, Stop: 18703, Start Num: 43

Candidate Starts for Claus_18:

(Start: 43 @16970 has 28 MA's), (53, 17039), (69, 17180), (70, 17183), (75, 17213), (78, 17228), (82, 17261), (88, 17306), (96, 17360), (100, 17387), (102, 17399), (106, 17450), (107, 17456), (111, 17489), (129, 17642), (132, 17666), (133, 17675), (138, 17720), (144, 17771), (164, 17933), (170, 17996), (180, 18068), (184, 18104), (195, 18203), (197, 18224), (199, 18230), (201, 18242), (206, 18305), (214, 18392), (217, 18419), (222, 18452), (226, 18488), (227, 18503), (229, 18515), (234, 18539), (246, 18617), (248, 18635),

Gene: Clautastrophe_19 Start: 17373, Stop: 19136, Start Num: 34

Candidate Starts for Clautastrophe_19:

(Start: 34 @17373 has 36 MA's), (Start: 38 @17400 has 14 MA's), (50, 17463), (58, 17511), (59, 17517), (63, 17553), (70, 17628), (74, 17652), (75, 17658), (84, 17715), (100, 17829), (102, 17841), (116, 17952), (131, 18096), (132, 18108), (136, 18141), (159, 18330), (161, 18336), (169, 18393), (171, 18435), (173, 18444), (176, 18456), (183, 18531), (191, 18600), (193, 18612), (199, 18660), (205, 18726), (213, 18804), (217, 18849), (225, 18906), (234, 18969), (237, 19005), (242, 19020), (246, 19050), (247, 19056), (248, 19068), (250, 19077), (252, 19089),

Gene: Corazon_48 Start: 27353, Stop: 29065, Start Num: 44

Candidate Starts for Corazon_48:

(32, 27290), (Start: 44 @27353 has 23 MA's), (55, 27434), (62, 27491), (70, 27572), (72, 27578), (80, 27635), (81, 27647), (84, 27659), (89, 27698), (91, 27713), (101, 27782), (106, 27836), (108, 27845), (126, 28001), (132, 28049), (133, 28058), (134, 28067), (139, 28106), (141, 28121), (150, 28184), (152, 28196), (166, 28313), (167, 28316), (170, 28367), (174, 28394), (176, 28397), (178, 28418), (181, 28460), (196, 28580), (199, 28598), (213, 28742), (217, 28787), (220, 28805), (228, 28889), (230, 28898), (234, 28916), (236, 28937), (246, 28982), (247, 28988), (248, 29000), (251, 29012), (254, 29033), (256, 29048), (257, 29054),

Gene: Cosmo_40 Start: 25304, Stop: 27688, Start Num: 1

Candidate Starts for Cosmo_40:

(Start: 1 @25304 has 5 MA's), (2, 25421), (3, 25442), (4, 25445), (5, 25475), (6, 25481), (7, 25490), (12, 25580), (13, 25616), (14, 25634), (15, 25661), (16, 25673), (17, 25682), (20, 25745), (21, 25781), (22, 25817), (23, 25820), (26, 25826), (35, 25898), (42, 25928), (52, 25997), (53, 26000), (61, 26087), (65, 26105), (66, 26108), (69, 26168), (76, 26207), (82, 26249), (84, 26258), (85, 26264), (87, 26279), (88, 26294), (95, 26342), (106, 26438), (112, 26480), (113, 26483), (132, 26660), (134, 26678), (136, 26693), (137, 26708), (140, 26729), (143, 26762), (146, 26771), (149, 26801), (153, 26840), (157, 26882), (159, 26894), (160, 26897), (169, 26957), (175, 27017), (180, 27062), (184, 27098), (191, 27164), (197, 27218), (199, 27224), (205, 27290), (224, 27461), (226, 27485), (246, 27605), (249, 27626), (251, 27635), (256, 27671),

Gene: Crossroads_18 Start: 16989, Stop: 18722, Start Num: 43

Candidate Starts for Crossroads_18:

(Start: 43 @16989 has 28 MA's), (53, 17058), (69, 17199), (70, 17202), (78, 17247), (82, 17280), (84, 17289), (88, 17325), (96, 17379), (100, 17406), (102, 17418), (106, 17469), (107, 17475), (111, 17508), (129, 17661), (132, 17685), (133, 17694), (138, 17739), (140, 17754), (150, 17832), (164, 17952), (170, 18015), (180, 18087), (184, 18123), (197, 18243), (199, 18249), (201, 18261), (206, 18324), (211, 18375), (214, 18411), (217, 18438), (226, 18507), (227, 18522), (229, 18534), (234, 18558), (246, 18636),

Gene: Diminimus_29 Start: 22367, Stop: 24103, Start Num: 38

Candidate Starts for Diminimus_29:

(18, 22145), (Start: 31 @22325 has 3 MA's), (Start: 33 @22340 has 4 MA's), (Start: 38 @22367 has 14 MA's), (Start: 44 @22382 has 23 MA's), (49, 22421), (53, 22451), (54, 22457), (56, 22469), (68, 22574), (69, 22589), (76, 22628), (94, 22751), (95, 22760), (106, 22856), (112, 22898), (113, 22901), (132, 23078), (146, 23189), (150, 23216), (156, 23288), (157, 23297), (158, 23300), (160, 23312), (175, 23432), (176, 23435), (180, 23477), (182, 23507), (184, 23513), (197, 23633), (199, 23639), (243, 23993), (246, 24020), (248, 24038), (250, 24047),

Gene: DirkDirk_18 Start: 16739, Stop: 18508, Start Num: 34

Candidate Starts for DirkDirk_18:

(Start: 25 @16676 has 1 MA's), (29, 16697), (30, 16712), (Start: 34 @16739 has 36 MA's), (50, 16832), (58, 16880), (59, 16886), (61, 16913), (63, 16922), (69, 16994), (72, 17003), (75, 17027), (78, 17042), (81, 17072), (100, 17198), (101, 17207), (103, 17228), (105, 17243), (114, 17312), (120, 17348), (121, 17369), (128, 17438), (132, 17477), (150, 17615), (152, 17627), (159, 17702), (161, 17708), (163, 17726), (169, 17765), (170, 17798), (171, 17807), (173, 17816), (175, 17825), (187, 17948), (193, 17984), (199, 18032), (201, 18044), (205, 18098), (214, 18194), (215, 18212), (216, 18218), (217, 18221), (222, 18254), (225, 18278), (234, 18341), (240, 18383), (246, 18422), (248, 18440), (252, 18461), (255, 18482),

Gene: Douge_18 Start: 16581, Stop: 18344, Start Num: 34

Candidate Starts for Douge_18:

(Start: 34 @16581 has 36 MA's), (59, 16722), (69, 16830), (70, 16833), (99, 17031), (100, 17034), (102, 17046), (104, 17067), (118, 17175), (121, 17205), (132, 17313), (136, 17346), (137, 17361), (140, 17382), (159, 17538), (169, 17601), (171, 17643), (173, 17652), (180, 17706), (184, 17742), (199, 17868), (203, 17901), (212, 18003), (213, 18012), (214, 18030), (217, 18057), (225, 18114), (229, 18153), (234, 18177), (237, 18213), (242, 18228), (246, 18258), (250, 18285), (252, 18297), (255, 18318),

Gene: DrSeegs_18 Start: 16989, Stop: 18722, Start Num: 43

Candidate Starts for DrSeegs_18:

(Start: 43 @16989 has 28 MA's), (53, 17058), (69, 17199), (70, 17202), (78, 17247), (82, 17280), (84, 17289), (88, 17325), (96, 17379), (100, 17406), (102, 17418), (106, 17469), (107, 17475), (111, 17508), (129, 17661), (132, 17685), (133, 17694), (138, 17739), (140, 17754), (150, 17832), (164, 17952), (170, 18015), (180, 18087), (184, 18123), (197, 18243), (199, 18249), (201, 18261), (206, 18324), (214, 18411), (217, 18438), (226, 18507), (227, 18522), (229, 18534), (234, 18558), (246, 18636),

Gene: Dulcita_29 Start: 22367, Stop: 24103, Start Num: 38

Candidate Starts for Dulcita_29:

(18, 22145), (Start: 31 @22325 has 3 MA's), (Start: 33 @22340 has 4 MA's), (Start: 38 @22367 has 14 MA's), (Start: 44 @22382 has 23 MA's), (49, 22421), (53, 22451), (54, 22457), (56, 22469), (68, 22574), (69, 22589), (76, 22628), (94, 22751), (95, 22760), (106, 22856), (112, 22898), (113, 22901), (132, 23078), (146, 23189), (150, 23216), (156, 23288), (157, 23297), (158, 23300), (160, 23312), (175, 23432), (176, 23435), (180, 23477), (182, 23507), (184, 23513), (197, 23633), (199, 23639), (243, 23993), (246, 24020), (248, 24038), (250, 24047),

Gene: DuncansLeg_19 Start: 17373, Stop: 19136, Start Num: 34

Candidate Starts for DuncansLeg_19:

(Start: 34 @17373 has 36 MA's), (Start: 38 @17400 has 14 MA's), (50, 17463), (58, 17511), (59, 17517), (63, 17553), (70, 17628), (84, 17715), (100, 17829), (102, 17841), (116, 17952), (131, 18096), (132, 18108), (136, 18141), (159, 18330), (161, 18336), (169, 18393), (171, 18435), (173, 18444), (176, 18456), (183, 18531), (190, 18597), (193, 18612), (199, 18660), (213, 18804), (217, 18849), (224, 18894), (225, 18906), (234, 18969), (237, 19005), (242, 19020), (246, 19050), (247, 19056), (248, 19068), (250, 19077), (252, 19089),

Gene: DyoEdafos_19 Start: 16789, Stop: 18552, Start Num: 34

Candidate Starts for DyoEdafos_19:

(Start: 34 @16789 has 36 MA's), (59, 16930), (62, 16960), (69, 17038), (70, 17041), (99, 17239), (100, 17242), (102, 17254), (104, 17275), (118, 17383), (121, 17413), (132, 17521), (133, 17530), (136, 17554), (137, 17569), (140, 17590), (159, 17746), (169, 17809), (171, 17851), (173, 17860), (176, 17872), (184, 17950), (199, 18076), (200, 18085), (203, 18109), (212, 18211), (213, 18220), (214, 18238), (217, 18265), (225, 18322), (234, 18385), (237, 18421), (242, 18436), (246, 18466), (250, 18493), (252, 18505), (255, 18526),

Gene: Ellson_19 Start: 17381, Stop: 19144, Start Num: 34

Candidate Starts for Ellson_19:

(Start: 34 @17381 has 36 MA's), (Start: 38 @17408 has 14 MA's), (50, 17471), (58, 17519), (59, 17525), (63, 17561), (70, 17636), (84, 17723), (100, 17837), (102, 17849), (116, 17960), (131, 18104), (132, 18116), (134, 18134), (136, 18149), (159, 18338), (169, 18401), (171, 18443), (173, 18452), (176, 18464), (183, 18539), (191, 18608), (193, 18620), (199, 18668), (205, 18734), (213, 18812), (217, 18857), (224, 18902), (225, 18914), (234, 18977), (237, 19013), (242, 19028), (246, 19058), (247, 19064), (248, 19076), (250, 19085), (252, 19097),

Gene: Enceladus_18 Start: 16740, Stop: 18509, Start Num: 34

Candidate Starts for Enceladus_18:

(Start: 25 @16677 has 1 MA's), (29, 16698), (30, 16713), (Start: 34 @16740 has 36 MA's), (50, 16833), (58, 16881), (59, 16887), (61, 16914), (63, 16923), (69, 16995), (72, 17004), (75, 17028), (78, 17043), (81, 17073), (100, 17199), (101, 17208), (103, 17229), (105, 17244), (114, 17313), (120, 17349), (121, 17370), (128, 17439), (132, 17478), (150, 17616), (152, 17628), (159, 17703), (161, 17709), (163, 17727), (169, 17766), (170, 17799), (171, 17808), (173, 17817), (175, 17826), (187, 17949), (193, 17985), (199, 18033), (201, 18045), (205, 18099), (214, 18195), (215, 18213), (216, 18219), (217, 18222), (222, 18255), (225, 18279), (234, 18342), (240, 18384), (246, 18423), (248, 18441), (252, 18462), (255, 18483),

Gene: EniyanLRS_37 Start: 25002, Stop: 27386, Start Num: 1

Candidate Starts for EniyanLRS_37:

(Start: 1 @25002 has 5 MA's), (2, 25119), (3, 25140), (4, 25143), (5, 25173), (6, 25179), (7, 25188), (12, 25278), (13, 25314), (14, 25332), (15, 25359), (16, 25371), (17, 25380), (20, 25443), (21, 25479), (22, 25515), (23, 25518), (26, 25524), (35, 25596), (42, 25626), (52, 25695), (53, 25698), (61, 25785), (65, 25803), (66, 25806), (69, 25866), (76, 25905), (82, 25947), (84, 25956), (85, 25962), (87, 25977), (88, 25992), (95, 26040), (106, 26136), (112, 26178), (113, 26181), (132, 26358), (134, 26376), (136, 26391), (137, 26406), (140, 26427), (143, 26460), (146, 26469), (149, 26499), (153, 26538), (157, 26580), (159, 26592), (160, 26595), (169, 26655), (175, 26715), (180, 26760), (184, 26796), (191, 26862), (197, 26916), (199, 26922), (205, 26988), (224, 27159), (226, 27183), (246, 27303), (249, 27324), (251, 27333), (256, 27369),

Gene: Estes_33 Start: 23088, Stop: 24827, Start Num: 38

Candidate Starts for Estes_33:

(Start: 31 @23046 has 3 MA's), (Start: 33 @23061 has 4 MA's), (Start: 38 @23088 has 14 MA's), (51, 23166), (53, 23172), (56, 23190), (76, 23352), (78, 23361), (79, 23376), (93, 23463), (94, 23475), (95, 23484), (101, 23526), (106, 23580), (109, 23592), (112, 23622), (113, 23625), (118, 23658), (130, 23787), (132, 23802), (134, 23820), (156, 24012), (157, 24021), (159, 24033), (161, 24039), (171, 24138), (173, 24147), (175, 24156), (179, 24186), (181, 24225), (191, 24303), (194, 24318), (197, 24357), (199, 24363), (243, 24717), (246, 24744), (247, 24750), (254, 24795),

Gene: Faith1_18 Start: 16989, Stop: 18722, Start Num: 43

Candidate Starts for Faith1_18:

(Start: 43 @16989 has 28 MA's), (53, 17058), (69, 17199), (70, 17202), (78, 17247), (82, 17280), (84, 17289), (88, 17325), (96, 17379), (100, 17406), (102, 17418), (106, 17469), (107, 17475), (111, 17508), (129, 17661), (132, 17685), (133, 17694), (138, 17739), (140, 17754), (150, 17832), (164, 17952), (170, 18015), (180, 18087), (184, 18123), (197, 18243), (199, 18249), (201, 18261), (206, 18324), (214, 18411), (217, 18438), (226, 18507), (227, 18522), (229, 18534), (234, 18558), (246, 18636),

Gene: Farewell_16 Start: 16143, Stop: 17858, Start Num: 41

Candidate Starts for Farewell_16:

(Start: 41 @16143 has 2 MA's), (45, 16152), (62, 16278), (69, 16356), (71, 16362), (72, 16365), (77, 16398), (84, 16446), (85, 16452), (94, 16518), (98, 16551), (101, 16569), (112, 16665), (125, 16779), (132, 16836), (134, 16854), (138, 16890), (150, 16971), (151, 16980), (159, 17058), (165, 17094), (176, 17184), (184, 17259), (199, 17385), (209, 17475), (218, 17577), (234, 17706), (244, 17748), (246, 17775), (250, 17802), (252, 17814), (253, 17817), (256, 17841),

Gene: Finemlucis_18 Start: 16995, Stop: 18728, Start Num: 43

Candidate Starts for Finemlucis_18:

(Start: 43 @16995 has 28 MA's), (53, 17064), (69, 17205), (70, 17208), (78, 17253), (82, 17286), (84, 17295), (88, 17331), (96, 17385), (100, 17412), (102, 17424), (106, 17475), (107, 17481), (111, 17514), (129, 17667), (132, 17691), (133, 17700), (138, 17745), (140, 17760), (150, 17838), (164, 17958), (170, 18021), (180, 18093), (184, 18129), (197, 18249), (199, 18255), (201, 18267), (206, 18330), (214, 18417), (217, 18444), (226, 18513), (227, 18528), (229, 18540), (234, 18564), (246, 18642),

Gene: Finnry_19 Start: 17377, Stop: 19140, Start Num: 34

Candidate Starts for Finnry_19:

(Start: 34 @17377 has 36 MA's), (Start: 38 @17404 has 14 MA's), (50, 17467), (58, 17515), (59, 17521), (63, 17557), (70, 17632), (74, 17656), (75, 17662), (84, 17719), (100, 17833), (102, 17845), (116, 17956), (131, 18100), (132, 18112), (136, 18145), (137, 18160), (159, 18334), (161, 18340), (169, 18397), (171, 18439), (173, 18448), (176, 18460), (183, 18535), (191, 18604), (193, 18616), (199, 18664), (205, 18730), (213, 18808), (217, 18853), (225, 18910), (234, 18973), (237, 19009), (242, 19024), (246, 19054), (247, 19060), (248, 19072), (250, 19081), (252, 19093),

Gene: Gabriela_18 Start: 16989, Stop: 18722, Start Num: 43

Candidate Starts for Gabriela_18:

(Start: 43 @16989 has 28 MA's), (53, 17058), (69, 17199), (70, 17202), (78, 17247), (82, 17280), (84, 17289), (88, 17325), (96, 17379), (100, 17406), (102, 17418), (106, 17469), (107, 17475), (111, 17508), (129, 17661), (132, 17685), (133, 17694), (138, 17739), (140, 17754), (150, 17832), (164, 17952), (170, 18015), (180, 18087), (184, 18123), (197, 18243), (199, 18249), (201, 18261), (206, 18324), (214, 18411), (217, 18438), (226, 18507), (227, 18522), (229, 18534), (234, 18558), (246, 18636),

Gene: Gardann_18 Start: 16994, Stop: 18727, Start Num: 43

Candidate Starts for Gardann_18:

(Start: 43 @16994 has 28 MA's), (53, 17063), (69, 17204), (70, 17207), (78, 17252), (82, 17285), (84, 17294), (88, 17330), (96, 17384), (100, 17411), (102, 17423), (106, 17474), (107, 17480), (111, 17513), (129, 17666), (132, 17690), (133, 17699), (138, 17744), (140, 17759), (150, 17837), (164, 17957), (170, 18020), (180, 18092), (184, 18128), (197, 18248), (199, 18254), (201, 18266), (206, 18329), (214, 18416), (217, 18443), (226, 18512), (227, 18527), (229, 18539), (234, 18563), (246, 18641),

Gene: GardenSalsa_32 Start: 22870, Stop: 24651, Start Num: 31

Candidate Starts for GardenSalsa_32:

(Start: 31 @22870 has 3 MA's), (Start: 33 @22885 has 4 MA's), (Start: 38 @22912 has 14 MA's), (51, 22990), (53, 22996), (56, 23014), (76, 23176), (78, 23185), (79, 23200), (93, 23287), (94, 23299), (95, 23308), (106, 23404), (109, 23416), (112, 23446), (113, 23449), (118, 23482), (130, 23611), (132, 23626), (134, 23644), (137, 23674), (156, 23836), (157, 23845), (159, 23857), (161, 23863), (171, 23962), (173, 23971), (175, 23980), (181, 24049), (194, 24142), (197, 24181), (199, 24187), (200, 24196), (243, 24541), (246, 24568), (247, 24574), (254, 24619),

Gene: Gattaca_49 Start: 26580, Stop: 28292, Start Num: 44

Candidate Starts for Gattaca_49:

(32, 26517), (Start: 44 @26580 has 23 MA's), (55, 26661), (62, 26718), (70, 26799), (72, 26805), (80, 26862), (81, 26874), (84, 26886), (89, 26925), (91, 26940), (101, 27009), (106, 27063), (108, 27072), (126, 27228), (132, 27276), (133, 27285), (134, 27294), (139, 27333), (141, 27348), (150, 27411), (152, 27423), (166, 27540), (167, 27543), (170, 27594), (174, 27621), (176, 27624), (178, 27645), (181, 27687), (196, 27807), (199, 27825), (213, 27969), (217, 28014), (220, 28032), (228, 28116), (230, 28125), (234, 28143), (236, 28164), (246, 28209), (247, 28215), (248, 28227), (251, 28239), (254, 28260), (256, 28275), (257, 28281),

Gene: GenevaB15_32 Start: 22915, Stop: 24696, Start Num: 31

Candidate Starts for GenevaB15_32:

(Start: 31 @22915 has 3 MA's), (Start: 33 @22930 has 4 MA's), (Start: 38 @22957 has 14 MA's), (51, 23035), (53, 23041), (56, 23059), (76, 23221), (78, 23230), (79, 23245), (93, 23332), (94, 23344), (95, 23353), (106, 23449), (109, 23461), (112, 23491), (113, 23494), (118, 23527), (130, 23656), (132, 23671), (134, 23689), (156, 23881), (157, 23890), (159, 23902), (161, 23908), (171, 24007), (173, 24016), (175, 24025), (181, 24094), (191, 24172), (194, 24187), (197, 24226), (199, 24232), (243, 24586), (246, 24613), (247, 24619),

Gene: Glaske16_29 Start: 22367, Stop: 24103, Start Num: 38

Candidate Starts for Glaske16_29:

(18, 22145), (Start: 31 @22325 has 3 MA's), (Start: 33 @22340 has 4 MA's), (Start: 38 @22367 has 14 MA's), (Start: 44 @22382 has 23 MA's), (49, 22421), (53, 22451), (54, 22457), (56, 22469), (68, 22574), (69, 22589), (76, 22628), (94, 22751), (95, 22760), (106, 22856), (112, 22898), (113, 22901), (132, 23078), (146, 23189), (150, 23216), (156, 23288), (157, 23297), (158, 23300), (160, 23312), (175, 23432), (176, 23435), (180, 23477), (182, 23507), (184, 23513), (197, 23633), (199, 23639), (243, 23993), (246, 24020), (248, 24038), (250, 24047),

Gene: GuuelaD_18 Start: 17023, Stop: 18756, Start Num: 43

Candidate Starts for GuuelaD_18:

(Start: 43 @17023 has 28 MA's), (53, 17092), (69, 17233), (70, 17236), (75, 17266), (78, 17281), (82, 17314), (84, 17323), (88, 17359), (96, 17413), (100, 17440), (106, 17503), (107, 17509), (111, 17542), (120, 17590), (129, 17695), (132, 17719), (133, 17728), (138, 17773), (141, 17791), (144, 17824), (150, 17866), (164, 17986), (170, 18049), (180, 18121), (183, 18154), (184, 18157), (194, 18238), (195, 18256), (197, 18277), (199, 18283), (201, 18295), (206, 18358), (214, 18445), (217, 18472), (222, 18505), (226, 18541), (227, 18556), (234, 18592), (246, 18670), (248, 18688),

Gene: Hafay_18 Start: 17022, Stop: 18755, Start Num: 43

Candidate Starts for Hafay_18:

(Start: 43 @17022 has 28 MA's), (53, 17091), (69, 17232), (70, 17235), (78, 17280), (82, 17313), (84, 17322), (88, 17358), (96, 17412), (100, 17439), (102, 17451), (106, 17502), (107, 17508), (111, 17541), (129, 17694), (132, 17718), (133, 17727), (138, 17772), (140, 17787), (150, 17865), (164, 17985), (170, 18048), (180, 18120), (184, 18156), (197, 18276), (199, 18282), (201, 18294), (206, 18357), (214, 18444), (217, 18471), (226, 18540), (227, 18555), (229, 18567), (234, 18591), (246, 18669),

Gene: Halena_18 Start: 16747, Stop: 18516, Start Num: 34

Candidate Starts for Halena_18:

(Start: 25 @16684 has 1 MA's), (29, 16705), (30, 16720), (Start: 34 @16747 has 36 MA's), (50, 16840), (58, 16888), (59, 16894), (61, 16921), (62, 16924), (63, 16930), (69, 17002), (72, 17011), (75, 17035), (78, 17050), (81, 17080), (100, 17206), (101, 17215), (103, 17236), (105, 17251), (114, 17320), (120, 17356), (121, 17377), (128, 17446), (132, 17485), (150, 17623), (152, 17635), (159, 17710), (161, 17716), (163, 17734), (169, 17773), (170, 17806), (171, 17815), (173, 17824), (175, 17833), (176, 17836), (187, 17956), (193, 17992), (199, 18040), (201, 18052), (205, 18106), (214, 18202), (215, 18220), (216, 18226), (217, 18229), (222, 18262), (225, 18286), (234, 18349), (240, 18391), (246, 18430), (248, 18448), (252, 18469), (255, 18490),

Gene: Huphleuff_52 Start: 27205, Stop: 28917, Start Num: 44

Candidate Starts for Huphleuff_52:

(32, 27142), (Start: 44 @27205 has 23 MA's), (55, 27286), (62, 27343), (70, 27424), (72, 27430), (80, 27487), (81, 27499), (84, 27511), (89, 27550), (91, 27565), (101, 27634), (106, 27688), (108, 27697), (126, 27853), (132, 27901), (133, 27910), (134, 27919), (139, 27958), (141, 27973), (150, 28036), (152, 28048), (166, 28165), (167, 28168), (170, 28219), (174, 28246), (176, 28249), (178, 28270), (181, 28312), (196, 28432), (199, 28450), (213, 28594), (217, 28639), (220, 28657), (228, 28741), (230, 28750), (234, 28768), (236, 28789), (246, 28834), (247, 28840), (248, 28852), (251, 28864), (253, 28876), (256, 28900), (257, 28906),

Gene: IPhane7_28 Start: 22368, Stop: 24104, Start Num: 38

Candidate Starts for IPhane7_28:

(18, 22146), (Start: 31 @22326 has 3 MA's), (Start: 33 @22341 has 4 MA's), (Start: 38 @22368 has 14 MA's), (Start: 44 @22383 has 23 MA's), (49, 22422), (53, 22452), (54, 22458), (56, 22470), (68, 22575), (69, 22590), (76, 22629), (94, 22752), (95, 22761), (106, 22857), (112, 22899), (113, 22902), (132, 23079), (146, 23190), (150, 23217), (156, 23289), (157, 23298), (158, 23301), (160, 23313), (175, 23433), (176, 23436), (180, 23478), (182, 23508), (184, 23514), (197, 23634), (199, 23640), (243, 23994), (246, 24021), (248, 24039), (250, 24048),

Gene: Ibrahim_19 Start: 16980, Stop: 18686, Start Num: 44

Candidate Starts for Ibrahim_19:

(24, 16872), (27, 16884), (Start: 44 @16980 has 23 MA's), (53, 17046), (65, 17121), (67, 17127), (74, 17211), (82, 17265), (88, 17310), (89, 17313), (98, 17379), (132, 17664), (159, 17886), (181, 18075), (199, 18213), (201, 18225), (217, 18402), (222, 18438), (246, 18603), (250, 18630), (256, 18669), (257, 18675),

Gene: Itos_18 Start: 16989, Stop: 18722, Start Num: 43

Candidate Starts for Itos_18:

(Start: 43 @16989 has 28 MA's), (53, 17058), (69, 17199), (70, 17202), (78, 17247), (82, 17280), (84, 17289), (88, 17325), (96, 17379), (100, 17406), (102, 17418), (106, 17469), (107, 17475), (111, 17508), (129, 17661), (132, 17685), (133, 17694), (138, 17739), (140, 17754), (150, 17832), (164, 17952), (170, 18015), (180, 18087), (184, 18123), (197, 18243), (199, 18249), (201, 18261), (206, 18324), (214, 18411), (217, 18438), (226, 18507), (227, 18522), (229, 18534), (234, 18558), (246, 18636),

Gene: Jobypre_19 Start: 17373, Stop: 19136, Start Num: 34

Candidate Starts for Jobypre_19:

(Start: 34 @17373 has 36 MA's), (Start: 38 @17400 has 14 MA's), (50, 17463), (58, 17511), (59, 17517), (63, 17553), (70, 17628), (74, 17652), (75, 17658), (84, 17715), (100, 17829), (102, 17841), (116, 17952), (131, 18096), (132, 18108), (136, 18141), (159, 18330), (161, 18336), (169, 18393), (171, 18435), (173, 18444), (176, 18456), (183, 18531), (191, 18600), (193, 18612), (199, 18660), (205, 18726), (213, 18804), (217, 18849), (225, 18906), (234, 18969), (237, 19005), (242, 19020),

(246, 19050), (247, 19056), (248, 19068), (250, 19077), (252, 19089),

Gene: JoeDirt_18 Start: 16738, Stop: 18507, Start Num: 34

Candidate Starts for JoeDirt_18:

(Start: 25 @16675 has 1 MA's), (29, 16696), (30, 16711), (Start: 34 @16738 has 36 MA's), (50, 16831), (58, 16879), (59, 16885), (61, 16912), (63, 16921), (69, 16993), (72, 17002), (75, 17026), (78, 17041), (81, 17071), (100, 17197), (101, 17206), (103, 17227), (105, 17242), (114, 17311), (120, 17347), (121, 17368), (128, 17437), (132, 17476), (150, 17614), (152, 17626), (159, 17701), (161, 17707), (163, 17725), (169, 17764), (170, 17797), (171, 17806), (173, 17815), (175, 17824), (187, 17947), (193, 17983), (199, 18031), (201, 18043), (205, 18097), (214, 18193), (215, 18211), (216, 18217), (217, 18220), (222, 18253), (225, 18277), (234, 18340), (240, 18382), (246, 18421), (248, 18439), (252, 18460), (255, 18481),

Gene: JoieB_51 Start: 27397, Stop: 29109, Start Num: 44

Candidate Starts for JoieB_51:

(32, 27334), (Start: 44 @27397 has 23 MA's), (55, 27478), (62, 27535), (70, 27616), (72, 27622), (80, 27679), (81, 27691), (84, 27703), (89, 27742), (91, 27757), (101, 27826), (106, 27880), (108, 27889), (126, 28045), (132, 28093), (133, 28102), (134, 28111), (139, 28150), (141, 28165), (150, 28228), (152, 28240), (166, 28357), (167, 28360), (170, 28411), (174, 28438), (176, 28441), (178, 28462), (181, 28504), (196, 28624), (199, 28642), (213, 28786), (217, 28831), (220, 28849), (228, 28933), (230, 28942), (234, 28960), (236, 28981), (246, 29026), (247, 29032), (248, 29044), (251, 29056), (254, 29077), (256, 29092), (257, 29098),

Gene: Jubie_19 Start: 17374, Stop: 19137, Start Num: 34

Candidate Starts for Jubie_19:

(Start: 34 @17374 has 36 MA's), (Start: 38 @17401 has 14 MA's), (50, 17464), (58, 17512), (59, 17518), (63, 17554), (70, 17629), (74, 17653), (75, 17659), (84, 17716), (100, 17830), (102, 17842), (116, 17953), (131, 18097), (132, 18109), (136, 18142), (159, 18331), (161, 18337), (169, 18394), (171, 18436), (173, 18445), (176, 18457), (183, 18532), (191, 18601), (193, 18613), (199, 18661), (205, 18727), (213, 18805), (217, 18850), (225, 18907), (234, 18970), (237, 19006), (242, 19021), (246, 19051), (247, 19057), (248, 19069), (250, 19078), (252, 19090),

Gene: Kahlid_18 Start: 16994, Stop: 18727, Start Num: 43

Candidate Starts for Kahlid_18:

(Start: 43 @16994 has 28 MA's), (53, 17063), (69, 17204), (70, 17207), (78, 17252), (82, 17285), (84, 17294), (88, 17330), (96, 17384), (100, 17411), (102, 17423), (106, 17474), (107, 17480), (111, 17513), (129, 17666), (132, 17690), (133, 17699), (138, 17744), (140, 17759), (150, 17837), (164, 17957), (170, 18020), (180, 18092), (184, 18128), (197, 18248), (199, 18254), (201, 18266), (206, 18329), (214, 18416), (217, 18443), (226, 18512), (227, 18527), (229, 18539), (234, 18563), (246, 18641),

Gene: Kingsolomon_19 Start: 17373, Stop: 19136, Start Num: 34

Candidate Starts for Kingsolomon_19:

(Start: 34 @17373 has 36 MA's), (Start: 38 @17400 has 14 MA's), (50, 17463), (58, 17511), (59, 17517), (63, 17553), (70, 17628), (74, 17652), (75, 17658), (84, 17715), (100, 17829), (102, 17841), (116, 17952), (131, 18096), (132, 18108), (136, 18141), (159, 18330), (161, 18336), (169, 18393), (171, 18435), (173, 18444), (176, 18456), (183, 18531), (191, 18600), (193, 18612), (199, 18660), (205, 18726), (213, 18804), (217, 18849), (225, 18906), (234, 18969), (237, 19005), (242, 19020), (246, 19050), (247, 19056), (248, 19068), (250, 19077), (252, 19089),

Gene: Krypton555_19 Start: 17311, Stop: 19074, Start Num: 34

Candidate Starts for Krypton555_19:

(Start: 34 @17311 has 36 MA's), (Start: 38 @17338 has 14 MA's), (50, 17401), (59, 17455), (63, 17491), (70, 17566), (74, 17590), (75, 17596), (84, 17653), (100, 17767), (102, 17779), (116, 17890), (131, 18034), (132, 18046), (159, 18268), (161, 18274), (169, 18331), (171, 18373), (173, 18382), (176, 18394), (183, 18469), (190, 18535), (193, 18550), (199, 18598), (205, 18664), (213, 18742), (217, 18787), (225, 18844), (234, 18907), (237, 18943), (242, 18958), (246, 18988), (247, 18994), (248, 19006), (250, 19015), (252, 19027),

Gene: Kudrefre_27 Start: 21780, Stop: 23531, Start Num: 40

Candidate Starts for Kudrefre_27:

(28, 21702), (36, 21765), (Start: 40 @21780 has 7 MA's), (47, 21804), (53, 21861), (58, 21888), (60, 21915), (64, 21933), (66, 21942), (67, 21945), (70, 22005), (81, 22080), (86, 22101), (88, 22140), (101, 22230), (104, 22254), (106, 22284), (115, 22341), (119, 22365), (127, 22458), (129, 22473), (130, 22482), (132, 22497), (133, 22506), (136, 22530), (138, 22551), (145, 22605), (148, 22623), (155, 22704), (157, 22716), (162, 22740), (176, 22854), (185, 22962), (189, 22986), (194, 23013), (199, 23058), (202, 23082), (206, 23133), (211, 23181), (213, 23199), (219, 23250), (223, 23286), (229, 23337), (230, 23343), (235, 23367), (238, 23406), (244, 23421), (246, 23448), (251, 23478), (253, 23490), (257, 23520),

Gene: Kumao_28 Start: 21466, Stop: 23190, Start Num: 37

Candidate Starts for Kumao_28:

(Start: 31 @21427 has 3 MA's), (Start: 37 @21466 has 1 MA's), (56, 21556), (76, 21718), (81, 21757), (82, 21760), (92, 21823), (95, 21850), (106, 21946), (112, 21988), (122, 22066), (125, 22108), (132, 22168), (134, 22186), (146, 22279), (157, 22384), (158, 22387), (159, 22396), (166, 22438), (176, 22522), (199, 22726), (201, 22738), (210, 22843), (221, 22942), (225, 22975), (230, 23014), (231, 23020), (239, 23068), (246, 23107), (247, 23113), (257, 23179),

Gene: LeBron_18 Start: 16772, Stop: 18541, Start Num: 34

Candidate Starts for LeBron_18:

(Start: 25 @16709 has 1 MA's), (29, 16730), (30, 16745), (Start: 34 @16772 has 36 MA's), (50, 16865), (58, 16913), (59, 16919), (61, 16946), (62, 16949), (63, 16955), (69, 17027), (72, 17036), (75, 17060), (78, 17075), (81, 17105), (100, 17231), (101, 17240), (103, 17261), (105, 17276), (114, 17345), (120, 17381), (121, 17402), (128, 17471), (132, 17510), (150, 17648), (152, 17660), (159, 17735), (161, 17741), (163, 17759), (169, 17798), (170, 17831), (171, 17840), (173, 17849), (175, 17858), (187, 17981), (193, 18017), (199, 18065), (201, 18077), (205, 18131), (214, 18227), (215, 18245), (216, 18251), (217, 18254), (222, 18287), (225, 18311), (234, 18374), (240, 18416), (246, 18455), (248, 18473), (252, 18494), (255, 18515),

Gene: Lewan_18 Start: 16989, Stop: 18722, Start Num: 43

Candidate Starts for Lewan_18:

(Start: 43 @16989 has 28 MA's), (53, 17058), (69, 17199), (70, 17202), (78, 17247), (82, 17280), (84, 17289), (88, 17325), (96, 17379), (100, 17406), (102, 17418), (106, 17469), (107, 17475), (111, 17508), (129, 17661), (132, 17685), (133, 17694), (138, 17739), (140, 17754), (150, 17832), (170, 18015), (180, 18087), (184, 18123), (197, 18243), (199, 18249), (201, 18261), (206, 18324), (214, 18411), (217, 18438), (226, 18507), (227, 18522), (229, 18534), (234, 18558), (246, 18636),

Gene: LilDestine_18 Start: 16988, Stop: 18721, Start Num: 43

Candidate Starts for LilDestine_18:

(Start: 43 @16988 has 28 MA's), (53, 17057), (69, 17198), (70, 17201), (78, 17246), (82, 17279), (84, 17288), (88, 17324), (96, 17378), (100, 17405), (102, 17417), (106, 17468), (107, 17474), (111, 17507), (129, 17660), (132, 17684), (133, 17693), (138, 17738), (140, 17753), (150, 17831), (164, 17951), (170, 18014), (180, 18086), (184, 18122), (197, 18242), (199, 18248), (201, 18260), (206, 18323), (211, 18374), (214, 18410), (217, 18437), (226, 18506), (227, 18521), (229, 18533), (234, 18557), (246, 18635),

Gene: Lilbit_51 Start: 27401, Stop: 29113, Start Num: 44

Candidate Starts for Lilbit_51:

(32, 27338), (Start: 44 @27401 has 23 MA's), (55, 27482), (62, 27539), (70, 27620), (72, 27626), (80, 27683), (81, 27695), (84, 27707), (89, 27746), (91, 27761), (101, 27830), (106, 27884), (108, 27893), (126, 28049), (132, 28097), (133, 28106), (134, 28115), (139, 28154), (141, 28169), (150, 28232), (152, 28244), (166, 28361), (167, 28364), (170, 28415), (174, 28442), (176, 28445), (178, 28466), (181, 28508), (196, 28628), (199, 28646), (213, 28790), (217, 28835), (220, 28853), (228, 28937), (230, 28946), (234, 28964), (236, 28985), (246, 29030), (247, 29036), (248, 29048), (251, 29060), (253, 29072), (256, 29096), (257, 29102),

Gene: LilhomieP_27 Start: 22368, Stop: 24104, Start Num: 38

Candidate Starts for LilhomieP_27:

(18, 22146), (Start: 31 @22326 has 3 MA's), (Start: 33 @22341 has 4 MA's), (Start: 38 @22368 has 14 MA's), (Start: 44 @22383 has 23 MA's), (49, 22422), (53, 22452), (54, 22458), (56, 22470), (68, 22575), (69, 22590), (76, 22629), (94, 22752), (95, 22761), (106, 22857), (112, 22899), (113, 22902), (132, 23079), (146, 23190), (150, 23217), (156, 23289), (157, 23298), (158, 23301), (160, 23313), (175, 23433), (176, 23436), (180, 23478), (182, 23508), (184, 23514), (197, 23634), (199, 23640), (243, 23994), (246, 24021), (248, 24039), (250, 24048),

Gene: LittleLaf_50 Start: 27130, Stop: 28842, Start Num: 44

Candidate Starts for LittleLaf_50:

(32, 27067), (Start: 44 @27130 has 23 MA's), (55, 27211), (62, 27268), (70, 27349), (72, 27355), (80, 27412), (81, 27424), (84, 27436), (89, 27475), (91, 27490), (101, 27559), (106, 27613), (108, 27622), (126, 27778), (132, 27826), (133, 27835), (134, 27844), (139, 27883), (141, 27898), (150, 27961), (152, 27973), (166, 28090), (167, 28093), (170, 28144), (174, 28171), (176, 28174), (178, 28195), (181, 28237), (196, 28357), (199, 28375), (213, 28519), (217, 28564), (220, 28582), (228, 28666), (230, 28675), (234, 28693), (236, 28714), (246, 28759), (247, 28765), (248, 28777), (251, 28789), (253, 28801), (256, 28825), (257, 28831),

Gene: Loadrie_18 Start: 17021, Stop: 18754, Start Num: 43

Candidate Starts for Loadrie_18:

(Start: 43 @17021 has 28 MA's), (53, 17090), (69, 17231), (70, 17234), (78, 17279), (82, 17312), (84, 17321), (88, 17357), (96, 17411), (100, 17438), (102, 17450), (106, 17501), (107, 17507), (111, 17540), (129, 17693), (132, 17717), (133, 17726), (138, 17771), (140, 17786), (150, 17864), (164, 17984), (170, 18047), (180, 18119), (184, 18155), (197, 18275), (199, 18281), (201, 18293), (206, 18356), (214, 18443), (217, 18470), (226, 18539), (227, 18554), (229, 18566), (234, 18590), (246, 18668),

Gene: Lolly9_19 Start: 17191, Stop: 18954, Start Num: 34

Candidate Starts for Lolly9_19:

(Start: 34 @17191 has 36 MA's), (Start: 38 @17218 has 14 MA's), (50, 17281), (58, 17329), (59, 17335), (63, 17371), (70, 17446), (74, 17470), (75, 17476), (84, 17533), (100, 17647), (102, 17659), (116, 17770), (131, 17914), (132, 17926), (159, 18148), (161, 18154), (169, 18211), (171, 18253), (173, 18262), (176, 18274), (183, 18349), (190, 18415), (192, 18427), (193, 18430), (199, 18478), (205, 18544), (213, 18622), (217, 18667), (224, 18712), (225, 18724), (234, 18787), (237, 18823), (242, 18838), (246, 18868), (247, 18874), (248, 18886), (250, 18895), (252, 18907),

Gene: Lumos_19 Start: 17370, Stop: 19133, Start Num: 34

Candidate Starts for Lumos_19:

(Start: 34 @17370 has 36 MA's), (Start: 38 @17397 has 14 MA's), (50, 17460), (58, 17508), (59, 17514), (63, 17550), (70, 17625), (74, 17649), (75, 17655), (84, 17712), (100, 17826), (102, 17838), (116, 17949), (131, 18093), (132, 18105), (136, 18138), (159, 18327), (161, 18333), (169, 18390),

(171, 18432), (173, 18441), (176, 18453), (183, 18528), (191, 18597), (193, 18609), (199, 18657), (205, 18723), (213, 18801), (217, 18846), (225, 18903), (234, 18966), (237, 19002), (242, 19017), (246, 19047), (247, 19053), (248, 19065), (250, 19074), (252, 19086),

Gene: MAckerman_18 Start: 16746, Stop: 18515, Start Num: 34

Candidate Starts for MAckerman_18:

(Start: 25 @16683 has 1 MA's), (29, 16704), (30, 16719), (Start: 34 @16746 has 36 MA's), (50, 16839), (58, 16887), (59, 16893), (61, 16920), (62, 16923), (63, 16929), (69, 17001), (72, 17010), (75, 17034), (78, 17049), (81, 17079), (100, 17205), (101, 17214), (103, 17235), (105, 17250), (114, 17319), (120, 17355), (121, 17376), (128, 17445), (132, 17484), (150, 17622), (152, 17634), (159, 17709), (161, 17715), (163, 17733), (169, 17772), (170, 17805), (171, 17814), (173, 17823), (175, 17832), (176, 17835), (187, 17955), (193, 17991), (199, 18039), (201, 18051), (205, 18105), (214, 18201), (215, 18219), (216, 18225), (217, 18228), (222, 18261), (225, 18285), (234, 18348), (240, 18390), (246, 18429), (248, 18447), (252, 18468), (255, 18489),

Gene: Marvin_48 Start: 27400, Stop: 29112, Start Num: 44

Candidate Starts for Marvin_48:

(32, 27337), (Start: 44 @27400 has 23 MA's), (55, 27481), (62, 27538), (70, 27619), (72, 27625), (80, 27682), (81, 27694), (84, 27706), (89, 27745), (91, 27760), (101, 27829), (106, 27883), (108, 27892), (126, 28048), (132, 28096), (133, 28105), (134, 28114), (139, 28153), (141, 28168), (150, 28231), (152, 28243), (166, 28360), (167, 28363), (170, 28414), (174, 28441), (176, 28444), (178, 28465), (181, 28507), (196, 28627), (199, 28645), (213, 28789), (217, 28834), (220, 28852), (228, 28936), (234, 28963), (236, 28984), (246, 29029), (247, 29035), (248, 29047), (251, 29059), (254, 29080), (256, 29095), (257, 29101),

Gene: MaryV_40 Start: 25250, Stop: 27634, Start Num: 1

Candidate Starts for MaryV_40:

(Start: 1 @25250 has 5 MA's), (2, 25367), (3, 25388), (4, 25391), (5, 25421), (6, 25427), (7, 25436), (12, 25526), (13, 25562), (14, 25580), (15, 25607), (16, 25619), (17, 25628), (20, 25691), (21, 25727), (22, 25763), (23, 25766), (26, 25772), (35, 25844), (42, 25874), (52, 25943), (53, 25946), (61, 26033), (65, 26051), (66, 26054), (69, 26114), (76, 26153), (82, 26195), (84, 26204), (85, 26210), (87, 26225), (88, 26240), (95, 26288), (106, 26384), (112, 26426), (113, 26429), (132, 26606), (134, 26624), (136, 26639), (137, 26654), (140, 26675), (143, 26708), (146, 26717), (149, 26747), (153, 26786), (157, 26828), (159, 26840), (160, 26843), (169, 26903), (175, 26963), (180, 27008), (184, 27044), (191, 27110), (197, 27164), (199, 27170), (205, 27236), (224, 27407), (226, 27431), (246, 27551), (249, 27572), (251, 27581), (256, 27617),

Gene: Mendokysei_18 Start: 16790, Stop: 18496, Start Num: 44

Candidate Starts for Mendokysei_18:

(8, 16388), (9, 16403), (10, 16412), (11, 16436), (19, 16583), (24, 16682), (Start: 33 @16745 has 4 MA's), (Start: 44 @16790 has 23 MA's), (53, 16856), (74, 17021), (77, 17036), (82, 17075), (83, 17078), (88, 17120), (89, 17123), (98, 17189), (99, 17195), (124, 17411), (132, 17474), (142, 17564), (150, 17609), (156, 17675), (159, 17696), (160, 17699), (168, 17744), (181, 17885), (198, 18020), (199, 18023), (204, 18062), (217, 18212), (222, 18248), (245, 18392), (246, 18413), (250, 18440), (256, 18479),

Gene: Miley16_18 Start: 16989, Stop: 18722, Start Num: 43

Candidate Starts for Miley16_18:

(Start: 43 @16989 has 28 MA's), (53, 17058), (69, 17199), (70, 17202), (78, 17247), (82, 17280), (84, 17289), (88, 17325), (96, 17379), (100, 17406), (102, 17418), (106, 17469), (107, 17475), (111, 17508), (129, 17661), (132, 17685), (133, 17694), (138, 17739), (140, 17754), (150, 17832), (164, 17952), (170, 18015), (180, 18087), (184, 18123), (197, 18243), (199, 18249), (201, 18261), (206, 18324), (214, 18411), (217, 18438), (226, 18507), (227, 18522), (229, 18534), (234, 18558), (246,

18636),

Gene: MiniLon_19 Start: 17191, Stop: 18954, Start Num: 34

Candidate Starts for MiniLon_19:

(Start: 34 @17191 has 36 MA's), (Start: 38 @17218 has 14 MA's), (50, 17281), (58, 17329), (59, 17335), (63, 17371), (70, 17446), (74, 17470), (75, 17476), (84, 17533), (100, 17647), (102, 17659), (116, 17770), (131, 17914), (132, 17926), (159, 18148), (161, 18154), (169, 18211), (171, 18253), (173, 18262), (176, 18274), (183, 18349), (190, 18415), (192, 18427), (193, 18430), (199, 18478), (205, 18544), (213, 18622), (217, 18667), (224, 18712), (225, 18724), (234, 18787), (237, 18823), (242, 18838), (246, 18868), (247, 18874), (248, 18886), (250, 18895), (252, 18907),

Gene: MiniMac_19 Start: 17192, Stop: 18955, Start Num: 34

Candidate Starts for MiniMac_19:

(Start: 34 @17192 has 36 MA's), (Start: 38 @17219 has 14 MA's), (50, 17282), (58, 17330), (59, 17336), (63, 17372), (70, 17447), (74, 17471), (75, 17477), (84, 17534), (100, 17648), (102, 17660), (116, 17771), (131, 17915), (132, 17927), (159, 18149), (161, 18155), (169, 18212), (171, 18254), (173, 18263), (176, 18275), (183, 18350), (190, 18416), (192, 18428), (193, 18431), (199, 18479), (205, 18545), (213, 18623), (217, 18668), (224, 18713), (225, 18725), (234, 18788), (237, 18824), (242, 18839), (246, 18869), (247, 18875), (248, 18887), (250, 18896), (252, 18908),

Gene: MkaliMitinis3_18 Start: 16989, Stop: 18722, Start Num: 43

Candidate Starts for MkaliMitinis3_18:

(Start: 43 @16989 has 28 MA's), (53, 17058), (69, 17199), (70, 17202), (78, 17247), (82, 17280), (84, 17289), (88, 17325), (96, 17379), (100, 17406), (102, 17418), (106, 17469), (107, 17475), (111, 17508), (129, 17661), (132, 17685), (133, 17694), (138, 17739), (140, 17754), (150, 17832), (164, 17952), (170, 18015), (180, 18087), (184, 18123), (197, 18243), (199, 18249), (201, 18261), (206, 18324), (214, 18411), (217, 18438), (226, 18507), (227, 18522), (229, 18534), (234, 18558), (246, 18636),

Gene: Moostard_19 Start: 17376, Stop: 19139, Start Num: 34

Candidate Starts for Moostard_19:

(Start: 34 @17376 has 36 MA's), (Start: 38 @17403 has 14 MA's), (50, 17466), (58, 17514), (59, 17520), (63, 17556), (70, 17631), (74, 17655), (75, 17661), (84, 17718), (100, 17832), (102, 17844), (116, 17955), (131, 18099), (132, 18111), (136, 18144), (137, 18159), (159, 18333), (161, 18339), (169, 18396), (171, 18438), (173, 18447), (176, 18459), (183, 18534), (191, 18603), (193, 18615), (199, 18663), (205, 18729), (213, 18807), (217, 18852), (225, 18909), (234, 18972), (237, 19008), (242, 19023), (246, 19053), (247, 19059), (248, 19071), (250, 19080), (252, 19092),

Gene: MosMoris_48 Start: 26580, Stop: 28292, Start Num: 44

Candidate Starts for MosMoris_48:

(32, 26517), (Start: 44 @26580 has 23 MA's), (55, 26661), (62, 26718), (70, 26799), (72, 26805), (80, 26862), (81, 26874), (84, 26886), (89, 26925), (91, 26940), (101, 27009), (106, 27063), (108, 27072), (126, 27228), (132, 27276), (133, 27285), (134, 27294), (139, 27333), (141, 27348), (150, 27411), (152, 27423), (166, 27540), (167, 27543), (170, 27594), (174, 27621), (176, 27624), (178, 27645), (181, 27687), (196, 27807), (199, 27825), (213, 27969), (217, 28014), (220, 28032), (228, 28116), (230, 28125), (234, 28143), (236, 28164), (246, 28209), (247, 28215), (248, 28227), (251, 28239), (254, 28260), (256, 28275), (257, 28281),

Gene: MrMagoo_32 Start: 22870, Stop: 24651, Start Num: 31

Candidate Starts for MrMagoo_32:

(Start: 31 @22870 has 3 MA's), (Start: 33 @22885 has 4 MA's), (Start: 38 @22912 has 14 MA's), (51, 22990), (53, 22996), (56, 23014), (76, 23176), (78, 23185), (79, 23200), (93, 23287), (94, 23299), (95, 23308), (106, 23404), (109, 23416), (112, 23446), (113, 23449), (118, 23482), (130, 23611), (132,

23626), (134, 23644), (137, 23674), (156, 23836), (157, 23845), (159, 23857), (161, 23863), (171, 23962), (173, 23971), (175, 23980), (181, 24049), (194, 24142), (197, 24181), (199, 24187), (200, 24196), (243, 24541), (246, 24568), (247, 24574), (254, 24619),

Gene: MsGreen_19 Start: 17373, Stop: 19136, Start Num: 34

Candidate Starts for MsGreen_19:

(Start: 34 @17373 has 36 MA's), (Start: 38 @17400 has 14 MA's), (50, 17463), (58, 17511), (59, 17517), (63, 17553), (70, 17628), (74, 17652), (75, 17658), (84, 17715), (100, 17829), (102, 17841), (116, 17952), (131, 18096), (132, 18108), (136, 18141), (159, 18330), (161, 18336), (169, 18393), (171, 18435), (173, 18444), (176, 18456), (183, 18531), (191, 18600), (193, 18612), (199, 18660), (205, 18726), (213, 18804), (217, 18849), (225, 18906), (234, 18969), (237, 19005), (242, 19020), (246, 19050), (247, 19056), (248, 19068), (250, 19077), (252, 19089),

Gene: Nairb_19 Start: 16980, Stop: 18686, Start Num: 44

Candidate Starts for Nairb_19:

(24, 16872), (27, 16884), (Start: 44 @16980 has 23 MA's), (53, 17046), (65, 17121), (67, 17127), (74, 17211), (82, 17265), (88, 17310), (89, 17313), (98, 17379), (132, 17664), (159, 17886), (181, 18075), (199, 18213), (201, 18225), (217, 18402), (222, 18438), (246, 18603), (250, 18630), (256, 18669), (257, 18675),

Gene: Nanosmite_32 Start: 22784, Stop: 24520, Start Num: 38

Candidate Starts for Nanosmite_32:

(Start: 31 @22742 has 3 MA's), (Start: 33 @22757 has 4 MA's), (Start: 38 @22784 has 14 MA's), (Start: 44 @22799 has 23 MA's), (49, 22838), (53, 22868), (54, 22874), (56, 22886), (76, 23045), (90, 23144), (93, 23156), (94, 23168), (95, 23177), (101, 23219), (106, 23273), (112, 23315), (113, 23318), (129, 23471), (132, 23495), (140, 23564), (146, 23606), (154, 23675), (156, 23705), (157, 23714), (160, 23729), (166, 23768), (171, 23831), (173, 23840), (175, 23849), (181, 23918), (182, 23924), (184, 23930), (197, 24050), (199, 24056), (243, 24410), (246, 24437), (248, 24455), (250, 24464),

Gene: Netyap_18 Start: 16989, Stop: 18722, Start Num: 43

Candidate Starts for Netyap_18:

(Start: 43 @16989 has 28 MA's), (53, 17058), (69, 17199), (70, 17202), (78, 17247), (82, 17280), (84, 17289), (88, 17325), (96, 17379), (100, 17406), (102, 17418), (106, 17469), (107, 17475), (111, 17508), (129, 17661), (132, 17685), (133, 17694), (138, 17739), (140, 17754), (150, 17832), (164, 17952), (170, 18015), (180, 18087), (184, 18123), (197, 18243), (199, 18249), (201, 18261), (206, 18324), (214, 18411), (217, 18438), (226, 18507), (227, 18522), (229, 18534), (234, 18558), (246, 18636),

Gene: Neville_28 Start: 23300, Stop: 25042, Start Num: 40

Candidate Starts for Neville_28:

(28, 23222), (36, 23285), (Start: 40 @23300 has 7 MA's), (46, 23312), (48, 23330), (53, 23372), (58, 23399), (67, 23456), (70, 23516), (81, 23591), (82, 23594), (84, 23603), (86, 23612), (88, 23651), (89, 23654), (97, 23708), (99, 23729), (104, 23765), (106, 23795), (110, 23828), (116, 23855), (122, 23915), (129, 23984), (130, 23993), (132, 24008), (135, 24038), (147, 24122), (162, 24248), (172, 24341), (176, 24362), (177, 24365), (183, 24437), (185, 24470), (188, 24491), (197, 24560), (199, 24566), (200, 24575), (211, 24692), (212, 24701), (219, 24761), (223, 24797), (225, 24812), (229, 24848), (230, 24854), (238, 24917), (246, 24959), (250, 24986), (253, 25001), (257, 25031),

Gene: Nicholas_19 Start: 17373, Stop: 19136, Start Num: 34

Candidate Starts for Nicholas_19:

(Start: 34 @17373 has 36 MA's), (Start: 38 @17400 has 14 MA's), (50, 17463), (58, 17511), (59, 17517), (63, 17553), (70, 17628), (74, 17652), (75, 17658), (84, 17715), (100, 17829), (102, 17841), (116, 17952), (131, 18096), (132, 18108), (136, 18141), (159, 18330), (161, 18336), (169, 18393),

(171, 18435), (173, 18444), (176, 18456), (183, 18531), (191, 18600), (193, 18612), (199, 18660), (205, 18726), (213, 18804), (217, 18849), (225, 18906), (234, 18969), (237, 19005), (242, 19020), (246, 19050), (247, 19056), (248, 19068), (250, 19077), (252, 19089),

Gene: Nicholasp3_18 Start: 16994, Stop: 18727, Start Num: 43

Candidate Starts for Nicholasp3_18:

(Start: 43 @16994 has 28 MA's), (53, 17063), (69, 17204), (70, 17207), (78, 17252), (82, 17285), (84, 17294), (88, 17330), (96, 17384), (100, 17411), (102, 17423), (106, 17474), (107, 17480), (111, 17513), (129, 17666), (132, 17690), (133, 17699), (138, 17744), (140, 17759), (150, 17837), (164, 17957), (170, 18020), (180, 18092), (184, 18128), (197, 18248), (199, 18254), (201, 18266), (206, 18329), (214, 18416), (217, 18443), (226, 18512), (227, 18527), (229, 18539), (234, 18563), (246, 18641),

Gene: Octobien14_28 Start: 22738, Stop: 24489, Start Num: 40

Candidate Starts for Octobien14_28:

(36, 22723), (Start: 40 @22738 has 7 MA's), (46, 22759), (47, 22762), (53, 22819), (57, 22840), (58, 22846), (60, 22873), (64, 22891), (66, 22900), (67, 22903), (72, 22969), (73, 22975), (74, 22987), (81, 23038), (82, 23041), (86, 23059), (100, 23179), (105, 23224), (106, 23242), (116, 23302), (117, 23308), (119, 23323), (122, 23362), (127, 23416), (129, 23431), (130, 23440), (132, 23455), (133, 23464), (136, 23488), (138, 23509), (145, 23563), (148, 23581), (149, 23596), (150, 23599), (155, 23662), (157, 23674), (162, 23698), (167, 23731), (176, 23812), (185, 23920), (186, 23929), (189, 23944), (194, 23971), (199, 24016), (207, 24097), (213, 24157), (219, 24208), (223, 24244), (229, 24295), (230, 24301), (233, 24316), (235, 24325), (238, 24364), (244, 24379), (246, 24406), (251, 24436), (253, 24448), (257, 24478),

Gene: OhShagHennessy_18 Start: 16711, Stop: 18480, Start Num: 34

Candidate Starts for OhShagHennessy_18:

(Start: 25 @16648 has 1 MA's), (29, 16669), (30, 16684), (Start: 34 @16711 has 36 MA's), (50, 16804), (58, 16852), (59, 16858), (61, 16885), (63, 16894), (69, 16966), (72, 16975), (75, 16999), (78, 17014), (81, 17044), (100, 17170), (101, 17179), (103, 17200), (105, 17215), (114, 17284), (120, 17320), (121, 17341), (128, 17410), (132, 17449), (150, 17587), (152, 17599), (159, 17674), (161, 17680), (163, 17698), (169, 17737), (170, 17770), (171, 17779), (173, 17788), (175, 17797), (187, 17920), (193, 17956), (199, 18004), (201, 18016), (205, 18070), (214, 18166), (215, 18184), (216, 18190), (217, 18193), (222, 18226), (225, 18250), (234, 18313), (240, 18355), (246, 18394), (248, 18412), (252, 18433), (255, 18454),

Gene: PegLeg_28 Start: 22367, Stop: 24103, Start Num: 38

Candidate Starts for PegLeg_28:

(18, 22145), (Start: 31 @22325 has 3 MA's), (Start: 33 @22340 has 4 MA's), (Start: 38 @22367 has 14 MA's), (Start: 44 @22382 has 23 MA's), (49, 22421), (53, 22451), (54, 22457), (56, 22469), (68, 22574), (69, 22589), (76, 22628), (94, 22751), (95, 22760), (106, 22856), (112, 22898), (113, 22901), (132, 23078), (146, 23189), (150, 23216), (156, 23288), (157, 23297), (158, 23300), (160, 23312), (175, 23432), (176, 23435), (180, 23477), (182, 23507), (184, 23513), (197, 23633), (199, 23639), (243, 23993), (246, 24020), (248, 24038), (250, 24047),

Gene: Poise_50 Start: 26718, Stop: 28430, Start Num: 44

Candidate Starts for Poise_50:

(32, 26655), (Start: 44 @26718 has 23 MA's), (55, 26799), (62, 26856), (70, 26937), (72, 26943), (80, 27000), (81, 27012), (84, 27024), (89, 27063), (91, 27078), (101, 27147), (106, 27201), (108, 27210), (126, 27366), (132, 27414), (133, 27423), (134, 27432), (139, 27471), (141, 27486), (150, 27549), (152, 27561), (166, 27678), (167, 27681), (170, 27732), (174, 27759), (176, 27762), (178, 27783), (181, 27825), (196, 27945), (199, 27963), (213, 28107), (217, 28152), (220, 28170), (228, 28254), (230, 28263), (234, 28281), (236, 28302), (246, 28347), (247, 28353), (248, 28365), (251, 28377),

(253, 28389), (256, 28413), (257, 28419),

Gene: Pringar_50 Start: 27006, Stop: 28718, Start Num: 44

Candidate Starts for Pringar_50:

(32, 26943), (Start: 44 @27006 has 23 MA's), (55, 27087), (62, 27144), (70, 27225), (72, 27231), (80, 27288), (81, 27300), (84, 27312), (89, 27351), (91, 27366), (101, 27435), (106, 27489), (108, 27498), (126, 27654), (132, 27702), (133, 27711), (134, 27720), (139, 27759), (141, 27774), (150, 27837), (152, 27849), (166, 27966), (167, 27969), (170, 28020), (174, 28047), (176, 28050), (178, 28071), (181, 28113), (196, 28233), (199, 28251), (213, 28395), (217, 28440), (220, 28458), (228, 28542), (230, 28551), (234, 28569), (236, 28590), (246, 28635), (247, 28641), (248, 28653), (251, 28665), (253, 28677), (256, 28701), (257, 28707),

Gene: Rabbitrun_30 Start: 23608, Stop: 25353, Start Num: 40

Candidate Starts for Rabbitrun_30:

(28, 23530), (36, 23593), (Start: 40 @23608 has 7 MA's), (48, 23638), (53, 23680), (70, 23824), (73, 23836), (76, 23860), (81, 23899), (82, 23902), (86, 23920), (97, 24016), (99, 24037), (104, 24073), (106, 24103), (110, 24136), (116, 24163), (122, 24223), (129, 24292), (130, 24301), (132, 24316), (135, 24346), (149, 24454), (156, 24526), (157, 24535), (176, 24673), (177, 24676), (180, 24715), (183, 24748), (185, 24781), (186, 24790), (188, 24802), (194, 24832), (197, 24871), (199, 24877), (200, 24886), (212, 25012), (219, 25072), (223, 25108), (225, 25123), (229, 25159), (230, 25165), (232, 25174), (238, 25228), (246, 25270), (250, 25297), (253, 25312), (255, 25330), (257, 25342),

Gene: Raela_50 Start: 27273, Stop: 28985, Start Num: 44

Candidate Starts for Raela_50:

(32, 27210), (Start: 44 @27273 has 23 MA's), (55, 27354), (62, 27411), (70, 27492), (72, 27498), (80, 27555), (81, 27567), (84, 27579), (89, 27618), (91, 27633), (101, 27702), (106, 27756), (108, 27765), (126, 27921), (132, 27969), (134, 27987), (139, 28026), (141, 28041), (150, 28104), (152, 28116), (166, 28233), (167, 28236), (170, 28287), (174, 28314), (176, 28317), (178, 28338), (181, 28380), (196, 28500), (199, 28518), (213, 28662), (217, 28707), (220, 28725), (228, 28809), (234, 28836), (236, 28857), (246, 28902), (247, 28908), (248, 28920), (251, 28932), (253, 28944), (256, 28968), (257, 28974),

Gene: RedRaider77_50 Start: 27174, Stop: 28886, Start Num: 44

Candidate Starts for RedRaider77_50:

(32, 27111), (Start: 44 @27174 has 23 MA's), (55, 27255), (62, 27312), (70, 27393), (72, 27399), (80, 27456), (81, 27468), (84, 27480), (89, 27519), (91, 27534), (101, 27603), (106, 27657), (108, 27666), (126, 27822), (132, 27870), (133, 27879), (134, 27888), (139, 27927), (141, 27942), (150, 28005), (152, 28017), (166, 28134), (167, 28137), (170, 28188), (174, 28215), (176, 28218), (178, 28239), (181, 28281), (196, 28401), (199, 28419), (213, 28563), (217, 28608), (220, 28626), (228, 28710), (230, 28719), (234, 28737), (236, 28758), (246, 28803), (247, 28809), (248, 28821), (251, 28833), (254, 28854), (256, 28869), (257, 28875),

Gene: Reindeer_26 Start: 22192, Stop: 23928, Start Num: 39

Candidate Starts for Reindeer_26:

(Start: 39 @22192 has 1 MA's), (Start: 44 @22207 has 23 MA's), (53, 22276), (56, 22294), (61, 22333), (68, 22399), (69, 22414), (76, 22453), (84, 22504), (87, 22525), (94, 22576), (95, 22585), (102, 22630), (105, 22663), (106, 22681), (112, 22723), (113, 22726), (124, 22837), (132, 22903), (146, 23014), (150, 23041), (154, 23083), (156, 23113), (157, 23122), (158, 23125), (159, 23134), (160, 23137), (168, 23182), (173, 23248), (175, 23257), (176, 23260), (180, 23302), (182, 23332), (184, 23338), (191, 23404), (197, 23458), (199, 23464), (205, 23530), (243, 23818), (246, 23845), (248, 23863), (250, 23872), (252, 23884), (256, 23911),

Gene: Rey_32 Start: 23117, Stop: 24883, Start Num: 33

Candidate Starts for Rey_32:

(Start: 31 @23102 has 3 MA's), (Start: 33 @23117 has 4 MA's), (Start: 38 @23144 has 14 MA's), (51, 23222), (53, 23228), (54, 23234), (56, 23246), (69, 23369), (76, 23408), (78, 23417), (79, 23432), (93, 23519), (94, 23531), (95, 23540), (102, 23585), (106, 23636), (112, 23678), (113, 23681), (118, 23714), (122, 23756), (123, 23765), (130, 23843), (132, 23858), (134, 23876), (156, 24068), (157, 24077), (159, 24089), (161, 24095), (171, 24194), (173, 24203), (175, 24212), (179, 24242), (181, 24281), (194, 24374), (197, 24413), (199, 24419), (200, 24428), (241, 24767), (243, 24773), (246, 24800), (254, 24851),

Gene: RonRayGun_19 Start: 16980, Stop: 18686, Start Num: 44

Candidate Starts for RonRayGun_19:

(24, 16872), (27, 16884), (Start: 44 @16980 has 23 MA's), (53, 17046), (65, 17121), (67, 17127), (74, 17211), (82, 17265), (88, 17310), (89, 17313), (98, 17379), (132, 17664), (159, 17886), (181, 18075), (199, 18213), (201, 18225), (217, 18402), (222, 18438), (246, 18603), (250, 18630), (256, 18669), (257, 18675),

Gene: Rose5_18 Start: 16746, Stop: 18515, Start Num: 34

Candidate Starts for Rose5_18:

(Start: 25 @16683 has 1 MA's), (29, 16704), (30, 16719), (Start: 34 @16746 has 36 MA's), (50, 16839), (58, 16887), (59, 16893), (61, 16920), (62, 16923), (63, 16929), (69, 17001), (72, 17010), (75, 17034), (78, 17049), (81, 17079), (100, 17205), (101, 17214), (103, 17235), (105, 17250), (114, 17319), (120, 17355), (121, 17376), (128, 17445), (132, 17484), (150, 17622), (152, 17634), (159, 17709), (161, 17715), (163, 17733), (169, 17772), (170, 17805), (171, 17814), (173, 17823), (175, 17832), (176, 17835), (187, 17955), (193, 17991), (199, 18039), (201, 18051), (205, 18105), (214, 18201), (215, 18219), (216, 18225), (217, 18228), (222, 18261), (225, 18285), (234, 18348), (240, 18390), (246, 18429), (248, 18447), (252, 18468), (255, 18489),

Gene: Rumpelstiltskin_18 Start: 16995, Stop: 18728, Start Num: 43

Candidate Starts for Rumpelstiltskin_18:

(Start: 43 @16995 has 28 MA's), (53, 17064), (69, 17205), (70, 17208), (78, 17253), (82, 17286), (84, 17295), (88, 17331), (96, 17385), (100, 17412), (102, 17424), (106, 17475), (107, 17481), (111, 17514), (129, 17667), (132, 17691), (133, 17700), (138, 17745), (140, 17760), (150, 17838), (164, 17958), (170, 18021), (180, 18093), (184, 18129), (197, 18249), (199, 18255), (201, 18267), (206, 18330), (211, 18381), (214, 18417), (217, 18444), (226, 18513), (227, 18528), (229, 18540), (234, 18564), (246, 18642),

Gene: Samty_19 Start: 17376, Stop: 19139, Start Num: 34

Candidate Starts for Samty_19:

(Start: 34 @17376 has 36 MA's), (Start: 38 @17403 has 14 MA's), (50, 17466), (58, 17514), (59, 17520), (63, 17556), (70, 17631), (74, 17655), (75, 17661), (84, 17718), (100, 17832), (102, 17844), (116, 17955), (131, 18099), (132, 18111), (136, 18144), (137, 18159), (159, 18333), (161, 18339), (169, 18396), (171, 18438), (173, 18447), (176, 18459), (183, 18534), (191, 18603), (193, 18615), (199, 18663), (205, 18729), (213, 18807), (217, 18852), (225, 18909), (234, 18972), (237, 19008), (242, 19023), (246, 19053), (247, 19059), (248, 19071), (250, 19080), (252, 19092),

Gene: Sephiroth_28 Start: 21951, Stop: 23702, Start Num: 40

Candidate Starts for Sephiroth_28:

(36, 21936), (Start: 40 @21951 has 7 MA's), (46, 21972), (47, 21975), (53, 22032), (57, 22053), (58, 22059), (60, 22086), (64, 22104), (66, 22113), (67, 22116), (70, 22176), (81, 22251), (86, 22272), (88, 22311), (106, 22455), (116, 22515), (117, 22521), (119, 22536), (122, 22575), (129, 22644), (130, 22653), (132, 22668), (133, 22677), (136, 22701), (138, 22722), (145, 22776), (148, 22794), (155, 22875), (157, 22887), (162, 22911), (176, 23025), (185, 23133), (189, 23157), (194, 23184), (199, 23229), (206, 23304), (207, 23310), (213, 23370), (219, 23421), (223, 23457), (229, 23508), (230,

23514), (235, 23538), (238, 23577), (244, 23592), (246, 23619), (251, 23649), (253, 23661), (257, 23691),

Gene: Silverleaf_18 Start: 16746, Stop: 18515, Start Num: 34

Candidate Starts for Silverleaf_18:

(Start: 25 @16683 has 1 MA's), (29, 16704), (30, 16719), (Start: 34 @16746 has 36 MA's), (50, 16839), (58, 16887), (59, 16893), (61, 16920), (62, 16923), (63, 16929), (69, 17001), (72, 17010), (75, 17034), (78, 17049), (81, 17079), (100, 17205), (101, 17214), (103, 17235), (105, 17250), (114, 17319), (120, 17355), (121, 17376), (128, 17445), (132, 17484), (150, 17622), (152, 17634), (159, 17709), (161, 17715), (163, 17733), (169, 17772), (170, 17805), (171, 17814), (173, 17823), (175, 17832), (176, 17835), (187, 17955), (193, 17991), (199, 18039), (201, 18051), (205, 18105), (214, 18201), (215, 18219), (216, 18225), (217, 18228), (222, 18261), (225, 18285), (234, 18348), (240, 18390), (246, 18429), (248, 18447), (252, 18468), (255, 18489),

Gene: Skinny_29 Start: 22368, Stop: 24104, Start Num: 38

Candidate Starts for Skinny_29:

(18, 22146), (Start: 31 @22326 has 3 MA's), (Start: 33 @22341 has 4 MA's), (Start: 38 @22368 has 14 MA's), (Start: 44 @22383 has 23 MA's), (49, 22422), (53, 22452), (54, 22458), (56, 22470), (68, 22575), (69, 22590), (76, 22629), (94, 22752), (95, 22761), (106, 22857), (112, 22899), (113, 22902), (132, 23079), (146, 23190), (150, 23217), (156, 23289), (157, 23298), (158, 23301), (160, 23313), (175, 23433), (176, 23436), (180, 23478), (182, 23508), (184, 23514), (197, 23634), (199, 23640), (243, 23994), (246, 24021), (248, 24039), (250, 24048),

Gene: SlimJimmy_27 Start: 22354, Stop: 24090, Start Num: 38

Candidate Starts for SlimJimmy_27:

(18, 22132), (Start: 31 @22312 has 3 MA's), (Start: 33 @22327 has 4 MA's), (Start: 38 @22354 has 14 MA's), (Start: 44 @22369 has 23 MA's), (49, 22408), (53, 22438), (54, 22444), (56, 22456), (68, 22561), (69, 22576), (76, 22615), (94, 22738), (95, 22747), (106, 22843), (112, 22885), (113, 22888), (132, 23065), (146, 23176), (150, 23203), (156, 23275), (157, 23284), (158, 23287), (160, 23299), (175, 23419), (176, 23422), (180, 23464), (182, 23494), (184, 23500), (197, 23620), (199, 23626), (243, 23980), (246, 24007), (248, 24025), (250, 24034),

Gene: Snenia_19 Start: 17374, Stop: 19137, Start Num: 34

Candidate Starts for Snenia_19:

(Start: 34 @17374 has 36 MA's), (Start: 38 @17401 has 14 MA's), (50, 17464), (58, 17512), (59, 17518), (63, 17554), (70, 17629), (74, 17653), (75, 17659), (84, 17716), (100, 17830), (102, 17842), (116, 17953), (131, 18097), (132, 18109), (136, 18142), (159, 18331), (161, 18337), (169, 18394), (171, 18436), (173, 18445), (176, 18457), (183, 18532), (191, 18601), (193, 18613), (199, 18661), (205, 18727), (213, 18805), (217, 18850), (225, 18907), (234, 18970), (237, 19006), (242, 19021), (246, 19051), (247, 19057), (248, 19069), (250, 19078), (252, 19090),

Gene: Sparky_16 Start: 16144, Stop: 17859, Start Num: 41

Candidate Starts for Sparky_16:

(Start: 41 @16144 has 2 MA's), (45, 16153), (62, 16279), (69, 16357), (71, 16363), (72, 16366), (77, 16399), (84, 16447), (85, 16453), (94, 16519), (98, 16552), (101, 16570), (112, 16666), (125, 16780), (132, 16837), (134, 16855), (138, 16891), (150, 16972), (151, 16981), (159, 17059), (165, 17095), (176, 17185), (184, 17260), (199, 17386), (209, 17476), (218, 17578), (234, 17707), (244, 17749), (246, 17776), (250, 17803), (252, 17815), (253, 17818), (256, 17842),

Gene: Syleon_28 Start: 21873, Stop: 23624, Start Num: 40

Candidate Starts for Syleon_28:

(36, 21858), (Start: 40 @21873 has 7 MA's), (46, 21894), (47, 21897), (53, 21954), (57, 21975), (58, 21981), (60, 22008), (64, 22026), (66, 22035), (67, 22038), (70, 22098), (81, 22173), (86, 22194), (88,

22233), (106, 22377), (116, 22437), (117, 22443), (119, 22458), (122, 22497), (129, 22566), (130, 22575), (132, 22590), (133, 22599), (136, 22623), (138, 22644), (145, 22698), (148, 22716), (155, 22797), (157, 22809), (162, 22833), (176, 22947), (185, 23055), (189, 23079), (194, 23106), (199, 23151), (206, 23226), (207, 23232), (213, 23292), (219, 23343), (223, 23379), (229, 23430), (230, 23436), (235, 23460), (238, 23499), (244, 23514), (246, 23541), (251, 23571), (253, 23583), (257, 23613),

Gene: Tesla_49 Start: 27023, Stop: 28735, Start Num: 44

Candidate Starts for Tesla_49:

(32, 26960), (Start: 44 @27023 has 23 MA's), (55, 27104), (62, 27161), (70, 27242), (72, 27248), (80, 27305), (81, 27317), (84, 27329), (89, 27368), (91, 27383), (101, 27452), (106, 27506), (108, 27515), (126, 27671), (132, 27719), (133, 27728), (134, 27737), (139, 27776), (141, 27791), (150, 27854), (152, 27866), (166, 27983), (167, 27986), (170, 28037), (174, 28064), (176, 28067), (178, 28088), (181, 28130), (196, 28250), (199, 28268), (213, 28412), (217, 28457), (220, 28475), (228, 28559), (230, 28568), (234, 28586), (236, 28607), (246, 28652), (247, 28658), (248, 28670), (251, 28682), (254, 28703), (256, 28718), (257, 28724),

Gene: Tourach_18 Start: 16987, Stop: 18720, Start Num: 43

Candidate Starts for Tourach_18:

(Start: 43 @16987 has 28 MA's), (53, 17056), (69, 17197), (70, 17200), (75, 17230), (78, 17245), (82, 17278), (88, 17323), (96, 17377), (100, 17404), (102, 17416), (106, 17467), (107, 17473), (111, 17506), (129, 17659), (132, 17683), (133, 17692), (138, 17737), (144, 17788), (164, 17950), (170, 18013), (180, 18085), (184, 18121), (195, 18220), (197, 18241), (199, 18247), (201, 18259), (206, 18322), (214, 18409), (217, 18436), (219, 18442), (222, 18469), (224, 18481), (226, 18505), (227, 18520), (234, 18556), (246, 18634), (248, 18652),

Gene: Trax_28 Start: 23606, Stop: 25348, Start Num: 40

Candidate Starts for Trax_28:

(28, 23528), (36, 23591), (Start: 40 @23606 has 7 MA's), (46, 23618), (48, 23636), (53, 23678), (58, 23705), (67, 23762), (70, 23822), (81, 23897), (82, 23900), (84, 23909), (86, 23918), (88, 23957), (89, 23960), (97, 24014), (99, 24035), (104, 24071), (106, 24101), (116, 24161), (117, 24167), (122, 24221), (129, 24290), (130, 24299), (132, 24314), (145, 24422), (147, 24428), (162, 24554), (172, 24647), (176, 24668), (177, 24671), (183, 24743), (185, 24776), (188, 24797), (197, 24866), (199, 24872), (200, 24881), (211, 24998), (212, 25007), (219, 25067), (223, 25103), (225, 25118), (229, 25154), (230, 25160), (238, 25223), (246, 25265), (250, 25292), (253, 25307), (257, 25337),

Gene: TyDawg_28 Start: 22368, Stop: 24104, Start Num: 38

Candidate Starts for TyDawg_28:

(18, 22146), (Start: 31 @22326 has 3 MA's), (Start: 33 @22341 has 4 MA's), (Start: 38 @22368 has 14 MA's), (Start: 44 @22383 has 23 MA's), (49, 22422), (53, 22452), (54, 22458), (56, 22470), (68, 22575), (69, 22590), (76, 22629), (94, 22752), (95, 22761), (106, 22857), (112, 22899), (113, 22902), (132, 23079), (146, 23190), (150, 23217), (156, 23289), (157, 23298), (158, 23301), (160, 23313), (175, 23433), (176, 23436), (180, 23478), (182, 23508), (184, 23514), (197, 23634), (199, 23640), (243, 23994), (246, 24021), (248, 24039), (250, 24048),

Gene: Tyson_18 Start: 16746, Stop: 18515, Start Num: 34

Candidate Starts for Tyson_18:

(Start: 25 @16683 has 1 MA's), (29, 16704), (30, 16719), (Start: 34 @16746 has 36 MA's), (50, 16839), (58, 16887), (59, 16893), (61, 16920), (62, 16923), (63, 16929), (69, 17001), (72, 17010), (75, 17034), (78, 17049), (81, 17079), (100, 17205), (101, 17214), (103, 17235), (105, 17250), (114, 17319), (120, 17355), (121, 17376), (128, 17445), (132, 17484), (150, 17622), (152, 17634), (159, 17709), (161, 17715), (163, 17733), (169, 17772), (170, 17805), (171, 17814), (173, 17823), (175, 17832), (176, 17835), (187, 17955), (193, 17991), (199, 18039), (201, 18051), (205, 18105), (214,

18201), (215, 18219), (216, 18225), (217, 18228), (222, 18261), (225, 18285), (234, 18348), (240, 18390), (246, 18429), (248, 18447), (252, 18468), (255, 18489),

Gene: UPIE_18 Start: 16744, Stop: 18513, Start Num: 34

Candidate Starts for UPIE_18:

(Start: 25 @16681 has 1 MA's), (29, 16702), (30, 16717), (Start: 34 @16744 has 36 MA's), (50, 16837), (58, 16885), (59, 16891), (61, 16918), (62, 16921), (63, 16927), (69, 16999), (72, 17008), (75, 17032), (78, 17047), (81, 17077), (100, 17203), (101, 17212), (103, 17233), (105, 17248), (114, 17317), (120, 17353), (121, 17374), (128, 17443), (132, 17482), (150, 17620), (152, 17632), (159, 17707), (161, 17713), (163, 17731), (169, 17770), (170, 17803), (171, 17812), (173, 17821), (175, 17830), (176, 17833), (187, 17953), (193, 17989), (199, 18037), (201, 18049), (205, 18103), (214, 18199), (215, 18217), (216, 18223), (217, 18226), (222, 18259), (225, 18283), (234, 18346), (240, 18388), (246, 18427), (248, 18445), (252, 18466), (255, 18487),

Gene: VasuNzinga_50 Start: 26580, Stop: 28292, Start Num: 44

Candidate Starts for VasuNzinga_50:

(32, 26517), (Start: 44 @26580 has 23 MA's), (55, 26661), (62, 26718), (70, 26799), (72, 26805), (80, 26862), (81, 26874), (84, 26886), (89, 26925), (91, 26940), (101, 27009), (106, 27063), (108, 27072), (126, 27228), (132, 27276), (133, 27285), (134, 27294), (139, 27333), (141, 27348), (150, 27411), (152, 27423), (166, 27540), (167, 27543), (170, 27594), (174, 27621), (176, 27624), (178, 27645), (181, 27687), (196, 27807), (199, 27825), (213, 27969), (217, 28014), (220, 28032), (228, 28116), (230, 28125), (234, 28143), (236, 28164), (246, 28209), (247, 28215), (248, 28227), (251, 28239), (253, 28251), (256, 28275), (257, 28281),

Gene: Vetrrix_18 Start: 16995, Stop: 18728, Start Num: 43

Candidate Starts for Vetrrix_18:

(Start: 43 @16995 has 28 MA's), (53, 17064), (69, 17205), (70, 17208), (78, 17253), (82, 17286), (84, 17295), (88, 17331), (96, 17385), (100, 17412), (102, 17424), (106, 17475), (107, 17481), (111, 17514), (129, 17667), (132, 17691), (133, 17700), (138, 17745), (140, 17760), (150, 17838), (164, 17958), (170, 18021), (180, 18093), (184, 18129), (197, 18249), (199, 18255), (201, 18267), (206, 18330), (211, 18381), (214, 18417), (217, 18444), (226, 18513), (227, 18528), (229, 18540), (234, 18564), (246, 18642),

Gene: Wamburgrxpress_18 Start: 16759, Stop: 18528, Start Num: 34

Candidate Starts for Wamburgrxpress_18:

(Start: 25 @16696 has 1 MA's), (29, 16717), (30, 16732), (Start: 34 @16759 has 36 MA's), (50, 16852), (58, 16900), (59, 16906), (61, 16933), (62, 16936), (63, 16942), (69, 17014), (72, 17023), (75, 17047), (78, 17062), (81, 17092), (100, 17218), (101, 17227), (103, 17248), (105, 17263), (114, 17332), (120, 17368), (121, 17389), (128, 17458), (132, 17497), (150, 17635), (152, 17647), (159, 17722), (161, 17728), (163, 17746), (169, 17785), (170, 17818), (171, 17827), (173, 17836), (175, 17845), (187, 17968), (193, 18004), (199, 18052), (201, 18064), (205, 18118), (214, 18214), (215, 18232), (216, 18238), (217, 18241), (222, 18274), (225, 18298), (234, 18361), (240, 18403), (246, 18442), (248, 18460), (252, 18481), (255, 18502),

Gene: Whirlwind_20 Start: 17130, Stop: 18893, Start Num: 34

Candidate Starts for Whirlwind_20:

(Start: 34 @17130 has 36 MA's), (Start: 38 @17157 has 14 MA's), (50, 17220), (59, 17274), (63, 17310), (70, 17385), (75, 17415), (78, 17430), (84, 17472), (100, 17586), (102, 17598), (116, 17709), (131, 17853), (132, 17865), (159, 18087), (161, 18093), (169, 18150), (171, 18192), (173, 18201), (176, 18213), (183, 18288), (190, 18354), (193, 18369), (199, 18417), (205, 18483), (213, 18561), (217, 18606), (225, 18663), (234, 18726), (237, 18762), (242, 18777), (246, 18807), (247, 18813), (248, 18825), (250, 18834), (252, 18846),

Gene: Whitty_19 Start: 16980, Stop: 18686, Start Num: 44

Candidate Starts for Whitty_19:

(24, 16872), (27, 16884), (Start: 44 @16980 has 23 MA's), (53, 17046), (65, 17121), (67, 17127), (74, 17211), (82, 17265), (88, 17310), (89, 17313), (98, 17379), (132, 17664), (159, 17886), (181, 18075), (199, 18213), (201, 18225), (217, 18402), (222, 18438), (246, 18603), (250, 18630), (256, 18669), (257, 18675),

Gene: Wigglewigggle_18 Start: 17021, Stop: 18754, Start Num: 43

Candidate Starts for Wigglewigggle_18:

(Start: 43 @17021 has 28 MA's), (53, 17090), (69, 17231), (70, 17234), (78, 17279), (82, 17312), (84, 17321), (88, 17357), (96, 17411), (100, 17438), (102, 17450), (106, 17501), (107, 17507), (111, 17540), (129, 17693), (132, 17717), (133, 17726), (138, 17771), (140, 17786), (150, 17864), (164, 17984), (170, 18047), (180, 18119), (184, 18155), (197, 18275), (199, 18281), (201, 18293), (206, 18356), (214, 18443), (217, 18470), (226, 18539), (227, 18554), (229, 18566), (234, 18590), (246, 18668),

Gene: Wildcat_40 Start: 25260, Stop: 27644, Start Num: 1

Candidate Starts for Wildcat_40:

(Start: 1 @25260 has 5 MA's), (2, 25377), (3, 25398), (4, 25401), (5, 25431), (6, 25437), (7, 25446), (12, 25536), (13, 25572), (14, 25590), (15, 25617), (16, 25629), (17, 25638), (20, 25701), (21, 25737), (22, 25773), (23, 25776), (26, 25782), (35, 25854), (42, 25884), (52, 25953), (53, 25956), (61, 26043), (65, 26061), (66, 26064), (69, 26124), (76, 26163), (82, 26205), (84, 26214), (85, 26220), (87, 26235), (88, 26250), (95, 26298), (106, 26394), (112, 26436), (113, 26439), (132, 26616), (134, 26634), (136, 26649), (137, 26664), (140, 26685), (143, 26718), (146, 26727), (149, 26757), (153, 26796), (157, 26838), (159, 26850), (160, 26853), (169, 26913), (175, 26973), (180, 27018), (184, 27054), (191, 27120), (197, 27174), (199, 27180), (205, 27246), (224, 27417), (226, 27441), (246, 27561), (249, 27582), (251, 27591), (256, 27627),

Gene: Wilder_18 Start: 16994, Stop: 18727, Start Num: 43

Candidate Starts for Wilder_18:

(Start: 43 @16994 has 28 MA's), (53, 17063), (69, 17204), (70, 17207), (78, 17252), (82, 17285), (84, 17294), (88, 17330), (96, 17384), (100, 17411), (102, 17423), (106, 17474), (107, 17480), (111, 17513), (129, 17666), (132, 17690), (133, 17699), (138, 17744), (140, 17759), (150, 17837), (164, 17957), (170, 18020), (180, 18092), (184, 18128), (197, 18248), (199, 18254), (201, 18266), (206, 18329), (214, 18416), (217, 18443), (226, 18512), (227, 18527), (229, 18539), (234, 18563), (246, 18641),

Gene: Winky_18 Start: 16989, Stop: 18722, Start Num: 43

Candidate Starts for Winky_18:

(Start: 43 @16989 has 28 MA's), (53, 17058), (69, 17199), (70, 17202), (78, 17247), (82, 17280), (84, 17289), (88, 17325), (96, 17379), (100, 17406), (102, 17418), (106, 17469), (107, 17475), (111, 17508), (129, 17661), (132, 17685), (133, 17694), (138, 17739), (140, 17754), (150, 17832), (164, 17952), (170, 18015), (180, 18087), (184, 18123), (197, 18243), (199, 18249), (201, 18261), (206, 18324), (214, 18411), (217, 18438), (226, 18507), (227, 18522), (229, 18534), (234, 18558), (246, 18636),

Gene: Wyatt2_18 Start: 16746, Stop: 18515, Start Num: 34

Candidate Starts for Wyatt2_18:

(Start: 25 @16683 has 1 MA's), (29, 16704), (30, 16719), (Start: 34 @16746 has 36 MA's), (50, 16839), (58, 16887), (59, 16893), (61, 16920), (62, 16923), (63, 16929), (69, 17001), (72, 17010), (75, 17034), (78, 17049), (81, 17079), (100, 17205), (101, 17214), (103, 17235), (105, 17250), (114, 17319), (120, 17355), (121, 17376), (128, 17445), (132, 17484), (150, 17622), (152, 17634), (159, 17709), (161, 17715), (163, 17733), (169, 17772), (170, 17805), (171, 17814), (173, 17823), (175,

17832), (176, 17835), (187, 17955), (193, 17991), (199, 18039), (201, 18051), (205, 18105), (214, 18201), (215, 18219), (216, 18225), (217, 18228), (222, 18261), (225, 18285), (234, 18348), (240, 18390), (246, 18429), (248, 18447), (252, 18468), (255, 18489),

Gene: Zakai_18 Start: 16983, Stop: 18716, Start Num: 43

Candidate Starts for Zakai_18:

(Start: 43 @16983 has 28 MA's), (53, 17052), (69, 17193), (70, 17196), (78, 17241), (82, 17274), (84, 17283), (88, 17319), (96, 17373), (100, 17400), (102, 17412), (106, 17463), (107, 17469), (111, 17502), (129, 17655), (132, 17679), (133, 17688), (138, 17733), (140, 17748), (150, 17826), (164, 17946), (170, 18009), (180, 18081), (184, 18117), (197, 18237), (199, 18243), (201, 18255), (206, 18318), (211, 18369), (214, 18405), (217, 18432), (226, 18501), (227, 18516), (229, 18528), (234, 18552), (246, 18630),

Gene: Zaria_18 Start: 16760, Stop: 18529, Start Num: 34

Candidate Starts for Zaria_18:

(Start: 25 @16697 has 1 MA's), (29, 16718), (30, 16733), (Start: 34 @16760 has 36 MA's), (50, 16853), (58, 16901), (59, 16907), (61, 16934), (62, 16937), (63, 16943), (69, 17015), (72, 17024), (75, 17048), (78, 17063), (81, 17093), (100, 17219), (101, 17228), (103, 17249), (105, 17264), (114, 17333), (120, 17369), (121, 17390), (128, 17459), (132, 17498), (150, 17636), (152, 17648), (159, 17723), (161, 17729), (163, 17747), (169, 17786), (170, 17819), (171, 17828), (173, 17837), (175, 17846), (187, 17969), (193, 18005), (199, 18053), (201, 18065), (205, 18119), (214, 18215), (215, 18233), (216, 18239), (217, 18242), (222, 18275), (225, 18299), (234, 18362), (240, 18404), (246, 18443), (248, 18461), (252, 18482), (255, 18503),

Gene: ZenTime222_19 Start: 16980, Stop: 18686, Start Num: 44

Candidate Starts for ZenTime222_19:

(24, 16872), (27, 16884), (Start: 44 @16980 has 23 MA's), (53, 17046), (65, 17121), (67, 17127), (74, 17211), (82, 17265), (88, 17310), (89, 17313), (98, 17379), (132, 17664), (159, 17886), (181, 18075), (199, 18213), (201, 18225), (217, 18402), (222, 18438), (246, 18603), (250, 18630), (256, 18669), (257, 18675),

Gene: ZhongYanYuan_17 Start: 16814, Stop: 18547, Start Num: 43

Candidate Starts for ZhongYanYuan_17:

(Start: 43 @16814 has 28 MA's), (53, 16883), (69, 17024), (70, 17027), (75, 17057), (78, 17072), (82, 17105), (88, 17150), (96, 17204), (100, 17231), (102, 17243), (106, 17294), (107, 17300), (111, 17333), (129, 17486), (132, 17510), (133, 17519), (138, 17564), (144, 17615), (155, 17720), (164, 17777), (170, 17840), (180, 17912), (184, 17948), (195, 18047), (197, 18068), (199, 18074), (201, 18086), (206, 18149), (214, 18236), (217, 18263), (222, 18296), (227, 18347), (229, 18359), (234, 18383), (246, 18461), (248, 18479),