

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 196335 Report

This analysis was run 12/09/24 on database version 580.

Pham number 196335 has 152 members, 23 are drafts.

Phages represented in each track:

- Track 1 : JustASigh_25
- Track 2 : Indlovu_45
- Track 3 : Austelle_44, Hangman_43, Mithril_43
- Track 4 : Nanao_42, Zemanar_44, GinPorsche_42, Lolalove_44, Ahwei_42, Frederick_44, Hally898_42, Antihero_42, Lambano_42, BobbyK_44, Fortunato_44, Poster_42, RawrgerThat_44, Epah_42, Magpie_42
- Track 5 : Waleliano_43
- Track 6 : BrownCNA_45
- Track 7 : Mudslide_43
- Track 8 : Heath_42
- Track 9 : Vincenzo_44, AlanGrant_45
- Track 10 : JaguarMi_43, Xincheng_42
- Track 11 : VioletZ_45, Apex_44, Prince_43, Hydro_43
- Track 12 : Fanaw_42
- Track 13 : Stinger_42
- Track 14 : ChrisnMich_43
- Track 15 : Cooper_44
- Track 16 : Nigel_42
- Track 17 : JAMaL_43
- Track 18 : QueenPie_42
- Track 19 : Saguaro_49
- Track 20 : Thonko_46
- Track 21 : CRB2_49
- Track 22 : Quesadilla_49
- Track 23 : PenguinLover67_49
- Track 24 : Blarby_38, XFactor_30
- Track 25 : MulchSalad_27
- Track 26 : LastJedi_24, Koella_24, Clifton_24
- Track 27 : Martik_30, SwagPigglett_30, Maravista_30, NormanBulbieJr_30, ByChance_30, Nivrat_30, ShowerHandel_30, Zizzle_30, Yorick_30, LilMoolah_30, Burwell21_30, Lizziana_30
- Track 28 : Pacc40_30, Blexus_30, Leperchaun_30
- Track 29 : PhesterPhotato_30, Phalconet_30
- Track 30 : Krakatau_31
- Track 31 : RedBird_30
- Track 32 : Enby_31, Lorde_31, SG4_30
- Track 33 : Dorothy_30, DaddyRickover_30

- Track 34 : IMpilo_29
- Track 35 : CaptainTrips_31
- Track 36 : SassyB_30, Seagreen_31, PopTart_30
- Track 37 : Firehouse51_31
- Track 38 : Whatsapiecost_31
- Track 39 : Moonbeam_31
- Track 40 : Fastidio_32, SiSi_30, DillTech15_30
- Track 41 : EleanorGeorge_30
- Track 42 : Byougenkin_30
- Track 43 : ShiLan_30, Jarcob_30
- Track 44 : Wachhund_30
- Track 45 : Zapner_37, Jabbawokkie_38, Demsculpinboyz_35
- Track 46 : TChen_30, LunaStella_32
- Track 47 : Renaud18_30, Chuckly_30
- Track 48 : Toron_31
- Track 49 : Mufasa_29, BoostSeason_29
- Track 50 : TM4_29
- Track 51 : Zakhe101_65, Wildflower_66, Winget_67, Vagabond_64, Firecracker_67, Dylan_66, Smooch_69, Alkhayr_64, Shida_66, YungJamal_71, Ryadel_70, FoulBall_66, Corndog_69, Krili_65, Vorrps_66, Murai_67, Ashwin_68, Mori_66, NiebruSaylor_65
- Track 52 : SchoolBus_66, Familton_67
- Track 53 : Idergollasper_66, TelAviv_63, Schuy_67, Blessica_67, JangDynasty_66, Catdawg_66, MadKillah_67
- Track 54 : Bora_64
- Track 55 : Clarkson_55, Pringar_54, Blackbeetle_54, JoieB_55, Marvin_51, Gattaca_53, MosMoris_52, Caprice_51, Tesla_52, Poise_54, Beelzebub_58, LittleLaf_54, Lilbit_55, Huphlepuuff_56, VasuNzinga_54, RedRaider77_53, Corazon_52
- Track 56 : Raela_54
- Track 57 : FeliMaine_54
- Track 58 : Nebkiss_34
- Track 59 : MooMoo_28
- Track 60 : StAugustine_56

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 60 of the 129 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Ahwei_42, AlanGrant_45, Antihero_42, Apex_44, Austelle_44, Beelzebub_58, Blackbeetle_54, BobbyK_44, BoostSeason_29, BrownCNA_45, Caprice_51, ChrisnMich_43, Clarkson_55, Cooper_44, Corazon_52, Demsculpinboyz_35, EleanorGeorge_30, Enby_31, Epah_42, Fanaw_42, Firehouse51_31, Fortunato_44, Frederick_44, Gattaca_53, GinPorsche_42, Hally898_42, Hangman_43, Heath_42, Huphlepuuff_56, Hydro_43, JAMaL_43, Jabbawokkie_38, JaguarMi_43, JoieB_55, JustASigh_25, Lambano_42, Lilbit_55, LittleLaf_54, Lolalove_44, Lorde_31, LunaStella_32, Magpie_42, Marvin_51, Mithril_43, MooMoo_28, MosMoris_52, Mudslide_43, Mufasa_29, MulchSalad_27, Nanao_42, Nigel_42, Poise_54,

PopTart_30, Poster_42, Prince_43, Pringar_54, QueenPie_42, Raela_54, RawrgerThat_44, RedRaider77_53, SG4_30, SassyB_30, Seagreen_31, Stinger_42, TChen_30, TM4_29, Tesla_52, Toron_31, VasuNzinga_54, Vincenzo_44, VioletZ_45, Waleliano_43, Whatsapiecost_31, Xincheng_42, Zapner_37, Zemanar_44,

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

- FeliMaine_54,

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

- Alkhayr_64, Ashwin_68, Blarby_38, Blessica_67, Blexus_30, Bora_64, Burwell21_30, ByChance_30, Byougenkin_30, CRB2_49, CaptainTrips_31, Catdawg_66, Chuckly_30, Clifton_24, Corndog_69, DaddyRickover_30, DillTech15_30, Dorothy_30, Dylan_66, Familton_67, Fastidio_32, Firecracker_67, FoulBall_66, IMpilo_29, Idergollasper_66, Indlovu_45, JangDynasty_66, Jarcob_30, Koella_24, Krakatau_31, Krili_65, LastJedi_24, Leperchaun_30, LilMoolah_30, Lizziana_30, MadKillah_67, Maravista_30, Martik_30, Moonbeam_31, Mori_66, Murai_67, Nebkiss_34, NiebruSaylor_65, Nivrat_30, NormanBulbieJr_30, Pacc40_30, PenguinLover67_49, Phalconet_30, PhesterPhotato_30, Quesadilla_49, RedBird_30, Renaud18_30, Ryadel_70, Saguaro_49, SchoolBus_66, Schuy_67, ShiLan_30, Shida_66, ShowerHandel_30, SiSi_30, Smooch_69, StAugustine_56, SwagPiggett_30, TelAviv_63, Thonko_46, Vagabond_64, Vorrrps_66, Wachhund_30, Wildflower_66, Winget_67, XFactor_30, Yorick_30, YungJamal_71, Zakhe101_65, Zizzle_30,

Summary by start number:

Start 34:

- Found in 77 of 152 (50.7%) of genes in pham
- Manual Annotations of this start: 60 of 129
- Called 98.7% of time when present
- Phage (with cluster) where this start called: Ahwei_42 (B4), AlanGrant_45 (B4), Antihero_42 (B4), Apex_44 (B4), Austelle_44 (B4), Beelzebub_58 (S), Blackbeetle_54 (S), BobbyK_44 (B4), BoostSeason_29 (K2), BrownCNA_45 (B4), Caprice_51 (S), ChrisnMich_43 (B4), Clarkson_55 (S), Cooper_44 (B4), Corazon_52 (S), Demsculpinboyz_35 (F2), EleanorGeorge_30 (F1), Enby_31 (F1), Epah_42 (B4), Fanaw_42 (B4), Firehouse51_31 (F1), Fortunato_44 (B4), Frederick_44 (B4), Gattaca_53 (S), GinPorsche_42 (B4), Hally898_42 (B4), Hangman_43 (B4), Heath_42 (B4), Huphlepuuff_56 (S), Hydro_43 (B4), JAMaL_43 (B4), Jabbawokkie_38 (F2), JaguarMi_43 (B4), JoieB_55 (S), JustASigh_25 (AH), Lambano_42 (B4), Lilbit_55 (S), LittleLaf_54 (S), Lolalove_44 (B4), Lorde_31 (F1), LunaStella_32 (F4), Magpie_42 (B4), Marvin_51 (S), Mithril_43 (B4), MooMoo_28 (singleton), MosMoris_52 (S), Mudslide_43 (B4), Mufasa_29 (K2), MulchSalad_27 (F), Nanao_42 (B4), Nigel_42 (B4), Poise_54 (S), PopTart_30 (F1), Poster_42 (B4), Prince_43 (B4), Pringar_54 (S), QueenPie_42 (B4), Raela_54 (S), RawrgerThat_44 (B4), RedRaider77_53 (S), SG4_30 (F1), SassyB_30 (F1), Seagreen_31 (F1), Stinger_42 (B4), TChen_30 (F4), TM4_29 (K2), Tesla_52 (S), Toron_31 (F6), VasuNzinga_54 (S), Vincenzo_44 (B4), VioletZ_45 (B4), Waleliano_43 (B4), Whatsapiecost_31 (F1), Xincheng_42 (B4), Zapner_37 (F2), Zemanar_44 (B4),

Start 35:

- Found in 2 of 152 (1.3%) of genes in pham
- Manual Annotations of this start: 2 of 129
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Saguario_49 (B7), Thonko_46 (B8),

Start 36:

- Found in 1 of 152 (0.7%) of genes in pham
- Manual Annotations of this start: 1 of 129
- Called 100.0% of time when present
- Phage (with cluster) where this start called: PenguinLover67_49 (B9),

Start 37:

- Found in 6 of 152 (3.9%) of genes in pham
- Manual Annotations of this start: 3 of 129
- Called 66.7% of time when present
- Phage (with cluster) where this start called: CRB2_49 (B9), Indlovu_45 (B11), Quesadilla_49 (B9), StAugustine_56 (singleton),

Start 38:

- Found in 29 of 152 (19.1%) of genes in pham
- Manual Annotations of this start: 27 of 129
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Alkhayr_64 (O), Ashwin_68 (O), Blessica_67 (O), Bora_64 (O), Catdawg_66 (O), Corndog_69 (O), Dylan_66 (O), Familton_67 (O), Firecracker_67 (O), FoulBall_66 (O), Idergollasper_66 (O), JangDynasty_66 (O), Krili_65 (O), MadKillah_67 (O), Mori_66 (O), Murai_67 (O), NiebruSaylor_65 (O), Ryadel_70 (O), SchoolBus_66 (O), Schuy_67 (O), Shida_66 (O), Smooch_69 (O), TelAviv_63 (O), Vagabond_64 (O), Vorrps_66 (O), Wildflower_66 (O), Winget_67 (O), YungJamal_71 (O), Zakhe101_65 (O),

Start 39:

- Found in 38 of 152 (25.0%) of genes in pham
- Manual Annotations of this start: 35 of 129
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Blarby_38 (F), Blexus_30 (F1), Burwell21_30 (F1), ByChance_30 (F1), Byougenkin_30 (F1), CaptainTrips_31 (F1), Chuckly_30 (F1), Clifton_24 (F1), DaddyRickover_30 (F1), DillTech15_30 (F1), Dorothy_30 (F1), Fastidio_32 (F1), IMpilo_29 (F1), Jarcob_30 (F1), Koella_24 (F1), Krakatau_31 (F1), LastJedi_24 (F1), Leperchaun_30 (F1), LilMoolah_30 (F1), Lizziana_30 (F1), Maravista_30 (F1), Martik_30 (F1), Moonbeam_31 (F1), Nivrat_30 (F1), NormanBulbieJr_30 (F1), Pacc40_30 (F1), Phalconet_30 (F1), PhesterPhotato_30 (F1), RedBird_30 (F1), Renaud18_30 (F4), ShiLan_30 (F1), ShowerHandel_30 (F1), SiSi_30 (F1), SwagPiggett_30 (F1), Wachhund_30 (F1), XFactor_30 (F1), Yorick_30 (F1), Zizzle_30 (F1),

Start 44:

- Found in 22 of 152 (14.5%) of genes in pham
- No Manual Annotations of this start.
- Called 4.5% of time when present
- Phage (with cluster) where this start called: FeliMaine_54 (S),

Start 48:

- Found in 1 of 152 (0.7%) of genes in pham
- Manual Annotations of this start: 1 of 129
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Nebkiss_34 (X),

Summary by clusters:

There are 16 clusters represented in this pham: F1, F2, F4, F6, F, AH, singleton, O, B4, K2, S, B7, B11, X, B8, B9,

Info for manual annotations of cluster AH:

- Start number 34 was manually annotated 1 time for cluster AH.

Info for manual annotations of cluster B11:

- Start number 37 was manually annotated 1 time for cluster B11.

Info for manual annotations of cluster B4:

- Start number 34 was manually annotated 25 times for cluster B4.

Info for manual annotations of cluster B7:

- Start number 35 was manually annotated 1 time for cluster B7.

Info for manual annotations of cluster B8:

- Start number 35 was manually annotated 1 time for cluster B8.

Info for manual annotations of cluster B9:

- Start number 36 was manually annotated 1 time for cluster B9.
- Start number 37 was manually annotated 2 times for cluster B9.

Info for manual annotations of cluster F1:

- Start number 34 was manually annotated 9 times for cluster F1.
- Start number 39 was manually annotated 34 times for cluster F1.

Info for manual annotations of cluster F2:

- Start number 34 was manually annotated 3 times for cluster F2.

Info for manual annotations of cluster F4:

- Start number 34 was manually annotated 2 times for cluster F4.
- Start number 39 was manually annotated 1 time for cluster F4.

Info for manual annotations of cluster K2:

- Start number 34 was manually annotated 3 times for cluster K2.

Info for manual annotations of cluster O:

- Start number 38 was manually annotated 27 times for cluster O.

Info for manual annotations of cluster S:

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

Info for manual annotations of cluster X:

- Start number 48 was manually annotated 1 time for cluster X.

Gene Information:

Gene: Ahwei_42 Start: 39523, Stop: 41259, Start Num: 34

Candidate Starts for Ahwei_42:

(Start: 34 @39523 has 60 MA's), (47, 39598), (51, 39616), (54, 39637), (57, 39652), (68, 39724), (74, 39817), (81, 39889), (84, 39913), (92, 40000), (93, 40015), (114, 40198), (121, 40279), (125, 40360), (128, 40384), (129, 40387), (134, 40429), (145, 40540), (146, 40549), (148, 40558), (156, 40654), (159, 40693), (166, 40762), (175, 40786), (180, 40813), (184, 40843), (198, 40921), (201, 40945), (203, 40963), (204, 40966), (207, 40990), (210, 41035), (219, 41119),

Gene: AlanGrant_45 Start: 41174, Stop: 42871, Start Num: 34

Candidate Starts for AlanGrant_45:

(Start: 34 @41174 has 60 MA's), (45, 41243), (47, 41249), (51, 41267), (54, 41288), (57, 41303), (68, 41375), (74, 41468), (81, 41540), (84, 41564), (93, 41666), (121, 41927), (125, 42008), (128, 42032), (129, 42035), (145, 42188), (146, 42197), (148, 42206), (152, 42230), (159, 42341), (166, 42410), (175, 42434), (176, 42437), (180, 42461), (184, 42491), (197, 42566), (201, 42593), (203, 42611), (207, 42638), (218, 42764),

Gene: Alkhayr_64 Start: 41911, Stop: 43131, Start Num: 38

Candidate Starts for Alkhayr_64:

(Start: 38 @41911 has 27 MA's), (46, 41947), (56, 41998), (58, 42004), (59, 42007), (78, 42154), (86, 42208), (95, 42301), (108, 42349), (119, 42457), (122, 42478), (146, 42766), (159, 42883), (161, 42916), (163, 42928), (171, 42979), (177, 43003), (186, 43063), (192, 43108),

Gene: Antihero_42 Start: 39523, Stop: 41259, Start Num: 34

Candidate Starts for Antihero_42:

(Start: 34 @39523 has 60 MA's), (47, 39598), (51, 39616), (54, 39637), (57, 39652), (68, 39724), (74, 39817), (81, 39889), (84, 39913), (92, 40000), (93, 40015), (114, 40198), (121, 40279), (125, 40360), (128, 40384), (129, 40387), (134, 40429), (145, 40540), (146, 40549), (148, 40558), (156, 40654), (159, 40693), (166, 40762), (175, 40786), (180, 40813), (184, 40843), (198, 40921), (201, 40945), (203, 40963), (204, 40966), (207, 40990), (210, 41035), (219, 41119),

Gene: Apex_44 Start: 40765, Stop: 42501, Start Num: 34

Candidate Starts for Apex_44:

(Start: 34 @40765 has 60 MA's), (47, 40840), (51, 40858), (54, 40879), (57, 40894), (68, 40966), (74, 41059), (81, 41131), (84, 41155), (92, 41242), (93, 41257), (115, 41446), (121, 41521), (125, 41602), (128, 41626), (129, 41629), (145, 41782), (146, 41791), (148, 41800), (156, 41896), (159, 41935), (166, 42004), (175, 42028), (180, 42055), (184, 42085), (198, 42163), (201, 42187), (203, 42205), (204, 42208), (210, 42277), (219, 42361),

Gene: Ashwin_68 Start: 42681, Stop: 43901, Start Num: 38

Candidate Starts for Ashwin_68:

(Start: 38 @42681 has 27 MA's), (46, 42717), (56, 42768), (58, 42774), (59, 42777), (78, 42924), (86, 42978), (95, 43071), (108, 43119), (119, 43227), (122, 43248), (146, 43536), (159, 43653), (161, 43686), (163, 43698), (171, 43749), (177, 43773), (186, 43833), (192, 43878),

Gene: Austelle_44 Start: 41215, Stop: 42951, Start Num: 34

Candidate Starts for Austelle_44:

(Start: 34 @41215 has 60 MA's), (47, 41290), (51, 41308), (54, 41329), (57, 41344), (68, 41416), (74, 41509), (81, 41581), (84, 41605), (92, 41692), (93, 41707), (115, 41896), (121, 41971), (125, 42052), (128, 42076), (129, 42079), (134, 42121), (145, 42232), (146, 42241), (148, 42250), (156, 42346), (159, 42385), (166, 42454), (175, 42478), (180, 42505), (184, 42535), (198, 42613), (201, 42637), (203, 42655), (204, 42658), (207, 42682), (210, 42727), (219, 42811),

Gene: Beelzebub_58 Start: 30975, Stop: 32354, Start Num: 34

Candidate Starts for Beelzebub_58:

(Start: 34 @30975 has 60 MA's), (44, 31032), (51, 31068), (55, 31092), (57, 31104), (70, 31227), (74, 31269), (81, 31341), (84, 31365), (85, 31371), (91, 31452), (98, 31521), (99, 31524), (108, 31560), (111, 31596), (119, 31668), (121, 31686), (122, 31689), (131, 31806), (133, 31836), (146, 31968), (149, 31989), (155, 32022), (158, 32076), (159, 32082), (177, 32202), (181, 32232), (184, 32253), (189, 32283),

Gene: Blackbeetle_54 Start: 30021, Stop: 31400, Start Num: 34

Candidate Starts for Blackbeetle_54:

(Start: 34 @30021 has 60 MA's), (44, 30078), (51, 30114), (55, 30138), (57, 30150), (70, 30273), (74, 30315), (81, 30387), (84, 30411), (85, 30417), (91, 30498), (98, 30567), (99, 30570), (108, 30606), (111, 30642), (119, 30714), (121, 30732), (122, 30735), (131, 30852), (133, 30882), (146, 31014), (149, 31035), (155, 31068), (158, 31122), (159, 31128), (177, 31248), (181, 31278), (184, 31299), (189, 31329),

Gene: Blarby_38 Start: 26777, Stop: 27985, Start Num: 39

Candidate Starts for Blarby_38:

(7, 26501), (13, 26522), (Start: 39 @26777 has 35 MA's), (59, 26873), (65, 26897), (72, 26990), (73, 26993), (81, 27038), (94, 27167), (108, 27218), (119, 27329), (122, 27350), (146, 27632), (149, 27653), (159, 27749), (163, 27794), (171, 27839), (177, 27863), (186, 27923),

Gene: Blessica_67 Start: 42510, Stop: 43730, Start Num: 38

Candidate Starts for Blessica_67:

(Start: 38 @42510 has 27 MA's), (46, 42546), (56, 42597), (58, 42603), (78, 42753), (86, 42807), (95, 42900), (108, 42948), (119, 43056), (122, 43077), (146, 43365), (159, 43482), (161, 43515), (163, 43527), (171, 43578), (177, 43602), (186, 43662), (192, 43707),

Gene: Blexus_30 Start: 26628, Stop: 27836, Start Num: 39

Candidate Starts for Blexus_30:

(Start: 39 @26628 has 35 MA's), (59, 26724), (65, 26748), (72, 26841), (73, 26844), (81, 26889), (94, 27018), (108, 27069), (119, 27180), (122, 27201), (146, 27483), (149, 27504), (159, 27600), (163, 27645), (171, 27690), (177, 27714), (186, 27774),

Gene: BobbyK_44 Start: 40560, Stop: 42296, Start Num: 34

Candidate Starts for BobbyK_44:

(Start: 34 @40560 has 60 MA's), (47, 40635), (51, 40653), (54, 40674), (57, 40689), (68, 40761), (74, 40854), (81, 40926), (84, 40950), (92, 41037), (93, 41052), (114, 41235), (121, 41316), (125, 41397), (128, 41421), (129, 41424), (134, 41466), (145, 41577), (146, 41586), (148, 41595), (156, 41691), (159, 41730), (166, 41799), (175, 41823), (180, 41850), (184, 41880), (198, 41958), (201, 41982), (203, 42000), (204, 42003), (207, 42027), (210, 42072), (219, 42156),

Gene: BoostSeason_29 Start: 23227, Stop: 24885, Start Num: 34

Candidate Starts for BoostSeason_29:

(Start: 34 @23227 has 60 MA's), (43, 23278), (44, 23281), (51, 23317), (57, 23353), (81, 23554), (85, 23584), (98, 23722), (109, 23794), (111, 23809), (118, 23875), (122, 23896), (128, 23998), (147, 24169), (153, 24205), (155, 24220), (159, 24283), (166, 24352), (177, 24385), (212, 24640), (226, 24790), (227, 24853),

Gene: Bora_64 Start: 41867, Stop: 43111, Start Num: 38

Candidate Starts for Bora_64:

(Start: 38 @41867 has 27 MA's), (46, 41903), (56, 41954), (58, 41960), (78, 42110), (86, 42164), (95, 42257), (108, 42305), (119, 42413), (122, 42434), (142, 42668), (146, 42722), (159, 42839), (161, 42872), (163, 42884), (171, 42935), (177, 42959), (186, 43019), (192, 43064),

Gene: BrownCNA_45 Start: 40845, Stop: 42581, Start Num: 34

Candidate Starts for BrownCNA_45:

(Start: 34 @40845 has 60 MA's), (47, 40920), (51, 40938), (54, 40959), (57, 40974), (68, 41046), (74, 41139), (81, 41211), (84, 41235), (92, 41322), (93, 41337), (115, 41526), (121, 41601), (125, 41682), (128, 41706), (129, 41709), (134, 41751), (145, 41862), (146, 41871), (148, 41880), (156, 41976), (159, 42015), (166, 42084), (175, 42108), (180, 42135), (184, 42165), (197, 42240), (198, 42243), (201, 42267), (203, 42285), (204, 42288), (210, 42357), (219, 42441),

Gene: Burwell21_30 Start: 26501, Stop: 27697, Start Num: 39

Candidate Starts for Burwell21_30:

(Start: 39 @26501 has 35 MA's), (56, 26585), (78, 26735), (86, 26789), (95, 26882), (108, 26930), (119, 27041), (122, 27062), (146, 27344), (149, 27365), (159, 27461), (163, 27506), (171, 27551), (177, 27575), (186, 27635),

Gene: ByChance_30 Start: 26478, Stop: 27674, Start Num: 39

Candidate Starts for ByChance_30:

(Start: 39 @26478 has 35 MA's), (56, 26562), (78, 26712), (86, 26766), (95, 26859), (108, 26907), (119, 27018), (122, 27039), (146, 27321), (149, 27342), (159, 27438), (163, 27483), (171, 27528), (177, 27552), (186, 27612),

Gene: Byougenkin_30 Start: 26387, Stop: 27595, Start Num: 39

Candidate Starts for Byougenkin_30:

(Start: 39 @26387 has 35 MA's), (59, 26483), (65, 26507), (72, 26600), (73, 26603), (81, 26648), (94, 26777), (108, 26828), (119, 26939), (122, 26960), (146, 27242), (149, 27263), (159, 27359), (163, 27404), (171, 27449), (177, 27473), (179, 27485), (186, 27533),

Gene: CRB2_49 Start: 43040, Stop: 44572, Start Num: 37

Candidate Starts for CRB2_49:

(1, 42311), (6, 42686), (16, 42809), (Start: 37 @43040 has 3 MA's), (41, 43049), (52, 43112), (60, 43148), (64, 43160), (71, 43262), (79, 43334), (81, 43346), (115, 43676), (121, 43751), (125, 43832), (135, 43913), (136, 43928), (146, 44021), (154, 44072), (159, 44165), (167, 44246), (178, 44282), (183, 44321), (184, 44327), (200, 44414), (202, 44429), (206, 44456),

Gene: Caprice_51 Start: 30334, Stop: 31713, Start Num: 34

Candidate Starts for Caprice_51:

(Start: 34 @30334 has 60 MA's), (44, 30391), (51, 30427), (55, 30451), (57, 30463), (70, 30586), (74, 30628), (81, 30700), (84, 30724), (85, 30730), (91, 30811), (98, 30880), (99, 30883), (108, 30919), (111, 30955), (119, 31027), (121, 31045), (122, 31048), (131, 31165), (133, 31195), (146, 31327), (149, 31348), (155, 31381), (158, 31435), (159, 31441), (177, 31561), (181, 31591), (184, 31612), (189, 31642),

Gene: CaptainTrips_31 Start: 26707, Stop: 27915, Start Num: 39

Candidate Starts for CaptainTrips_31:

(13, 26455), (Start: 39 @26707 has 35 MA's), (59, 26803), (65, 26827), (72, 26920), (73, 26923), (81, 26968), (94, 27097), (108, 27148), (119, 27259), (122, 27280), (146, 27562), (149, 27583), (159, 27679), (163, 27724), (171, 27769), (177, 27793), (186, 27853),

Gene: Catdawg_66 Start: 42246, Stop: 43466, Start Num: 38

Candidate Starts for Catdawg_66:

(Start: 38 @42246 has 27 MA's), (46, 42282), (56, 42333), (58, 42339), (78, 42489), (86, 42543), (95, 42636), (108, 42684), (119, 42792), (122, 42813), (146, 43101), (159, 43218), (161, 43251), (163, 43263), (171, 43314), (177, 43338), (186, 43398), (192, 43443),

Gene: ChrisnMich_43 Start: 39525, Stop: 41261, Start Num: 34

Candidate Starts for ChrisnMich_43:

(Start: 34 @39525 has 60 MA's), (47, 39600), (51, 39618), (54, 39639), (57, 39654), (68, 39726), (74, 39819), (81, 39891), (84, 39915), (92, 40002), (93, 40017), (114, 40200), (121, 40281), (125, 40362), (128, 40386), (134, 40431), (145, 40542), (146, 40551), (148, 40560), (156, 40656), (159, 40695), (166, 40764), (175, 40788), (180, 40815), (184, 40845), (198, 40923), (201, 40947), (203, 40965), (204, 40968), (207, 40992), (210, 41037), (219, 41121),

Gene: Chuckly_30 Start: 26483, Stop: 27691, Start Num: 39

Candidate Starts for Chuckly_30:

(Start: 39 @26483 has 35 MA's), (59, 26579), (65, 26603), (72, 26696), (73, 26699), (81, 26744), (94, 26873), (108, 26924), (119, 27035), (122, 27056), (146, 27338), (149, 27359), (159, 27455), (163, 27500), (171, 27545), (177, 27569), (186, 27629),

Gene: Clarkson_55 Start: 30703, Stop: 32082, Start Num: 34

Candidate Starts for Clarkson_55:

(Start: 34 @30703 has 60 MA's), (44, 30760), (51, 30796), (55, 30820), (57, 30832), (70, 30955), (74, 30997), (81, 31069), (84, 31093), (85, 31099), (91, 31180), (98, 31249), (99, 31252), (108, 31288), (111, 31324), (119, 31396), (121, 31414), (122, 31417), (131, 31534), (133, 31564), (146, 31696), (149, 31717), (155, 31750), (158, 31804), (159, 31810), (177, 31930), (181, 31960), (184, 31981), (189, 32011),

Gene: Clifton_24 Start: 22465, Stop: 23661, Start Num: 39

Candidate Starts for Clifton_24:

(12, 22195), (Start: 39 @22465 has 35 MA's), (56, 22549), (78, 22699), (86, 22753), (95, 22846), (108, 22894), (119, 23005), (122, 23026), (146, 23308), (149, 23329), (159, 23425), (163, 23470), (171, 23515), (177, 23539), (186, 23599),

Gene: Cooper_44 Start: 39744, Stop: 41456, Start Num: 34

Candidate Starts for Cooper_44:

(Start: 34 @39744 has 60 MA's), (51, 39837), (54, 39858), (57, 39873), (68, 39945), (74, 40038), (81, 40110), (84, 40134), (92, 40221), (93, 40236), (96, 40266), (107, 40356), (111, 40401), (114, 40419), (115, 40425), (121, 40500), (125, 40581), (128, 40605), (129, 40608), (145, 40761), (146, 40770), (148, 40779), (159, 40914), (166, 40983), (180, 41034), (184, 41064), (201, 41166), (203, 41184), (207, 41211), (219, 41340), (220, 41349), (223, 41394),

Gene: Corazon_52 Start: 30897, Stop: 32276, Start Num: 34

Candidate Starts for Corazon_52:

(Start: 34 @30897 has 60 MA's), (44, 30954), (51, 30990), (55, 31014), (57, 31026), (70, 31149), (74, 31191), (81, 31263), (84, 31287), (85, 31293), (91, 31374), (98, 31443), (99, 31446), (108, 31482), (111, 31518), (119, 31590), (121, 31608), (122, 31611), (131, 31728), (133, 31758), (146, 31890), (149, 31911), (155, 31944), (158, 31998), (159, 32004), (177, 32124), (181, 32154), (184, 32175), (189, 32205),

Gene: Corndog_69 Start: 43240, Stop: 44460, Start Num: 38

Candidate Starts for Corndog_69:

(Start: 38 @43240 has 27 MA's), (46, 43276), (56, 43327), (58, 43333), (59, 43336), (78, 43483), (86, 43537), (95, 43630), (108, 43678), (119, 43786), (122, 43807), (146, 44095), (159, 44212), (161, 44245), (163, 44257), (171, 44308), (177, 44332), (186, 44392), (192, 44437),

Gene: DaddyRickover_30 Start: 26502, Stop: 27698, Start Num: 39

Candidate Starts for DaddyRickover_30:

(8, 26229), (10, 26232), (Start: 39 @26502 has 35 MA's), (56, 26586), (78, 26736), (86, 26790), (95, 26883), (108, 26931), (119, 27042), (122, 27063), (146, 27345), (149, 27366), (159, 27462), (163, 27507), (171, 27552), (177, 27576), (186, 27636),

Gene: Demsculpinboyz_35 Start: 25454, Stop: 26752, Start Num: 34

Candidate Starts for Demsculpinboyz_35:

(Start: 34 @25454 has 60 MA's), (49, 25526), (57, 25574), (61, 25592), (69, 25646), (80, 25763), (82, 25766), (91, 25868), (97, 25925), (108, 25979), (116, 26042), (122, 26105), (123, 26108), (131, 26222), (132, 26234), (138, 26297), (146, 26393), (159, 26510), (161, 26543), (163, 26555), (182, 26660), (187, 26693), (192, 26732),

Gene: DillTech15_30 Start: 26411, Stop: 27607, Start Num: 39

Candidate Starts for DillTech15_30:

(Start: 39 @26411 has 35 MA's), (56, 26495), (78, 26645), (86, 26699), (95, 26792), (108, 26840), (119, 26951), (122, 26972), (146, 27254), (149, 27275), (159, 27371), (163, 27416), (171, 27461), (177, 27485), (186, 27545),

Gene: Dorothy_30 Start: 26287, Stop: 27483, Start Num: 39

Candidate Starts for Dorothy_30:

(8, 26014), (10, 26017), (Start: 39 @26287 has 35 MA's), (56, 26371), (78, 26521), (86, 26575), (95, 26668), (108, 26716), (119, 26827), (122, 26848), (146, 27130), (149, 27151), (159, 27247), (163, 27292), (171, 27337), (177, 27361), (186, 27421),

Gene: Dylan_66 Start: 42293, Stop: 43513, Start Num: 38

Candidate Starts for Dylan_66:

(Start: 38 @42293 has 27 MA's), (46, 42329), (56, 42380), (58, 42386), (59, 42389), (78, 42536), (86, 42590), (95, 42683), (108, 42731), (119, 42839), (122, 42860), (146, 43148), (159, 43265), (161, 43298), (163, 43310), (171, 43361), (177, 43385), (186, 43445), (192, 43490),

Gene: EleanorGeorge_30 Start: 26637, Stop: 27908, Start Num: 34

Candidate Starts for EleanorGeorge_30:

(10, 26364), (11, 26367), (Start: 34 @26637 has 60 MA's), (57, 26754), (80, 26943), (82, 26946), (90, 27024), (97, 27105), (108, 27156), (112, 27195), (116, 27219), (122, 27282), (123, 27285), (128, 27390), (132, 27411), (138, 27474), (141, 27504), (146, 27561), (159, 27678), (161, 27711),

Gene: Enby_31 Start: 26166, Stop: 27437, Start Num: 34

Candidate Starts for Enby_31:

(Start: 34 @26166 has 60 MA's), (57, 26283), (80, 26472), (82, 26475), (90, 26553), (97, 26634), (108, 26685), (112, 26724), (116, 26748), (122, 26811), (123, 26814), (128, 26919), (132, 26940), (138, 27003), (141, 27033), (146, 27090), (159, 27207), (161, 27240),

Gene: Epah_42 Start: 39523, Stop: 41259, Start Num: 34

Candidate Starts for Epah_42:

(Start: 34 @39523 has 60 MA's), (47, 39598), (51, 39616), (54, 39637), (57, 39652), (68, 39724), (74, 39817), (81, 39889), (84, 39913), (92, 40000), (93, 40015), (114, 40198), (121, 40279), (125, 40360), (128, 40384), (129, 40387), (134, 40429), (145, 40540), (146, 40549), (148, 40558), (156, 40654), (159, 40693), (166, 40762), (175, 40786), (180, 40813), (184, 40843), (198, 40921), (201, 40945), (203, 40963), (204, 40966), (207, 40990), (210, 41035), (219, 41119),

Gene: Familton_67 Start: 42203, Stop: 43423, Start Num: 38

Candidate Starts for Familton_67:

(18, 42050), (19, 42053), (21, 42065), (29, 42119), (30, 42122), (Start: 38 @42203 has 27 MA's), (46, 42239), (56, 42290), (58, 42296), (78, 42446), (86, 42500), (95, 42593), (108, 42641), (119, 42749),

(122, 42770), (146, 43058), (159, 43175), (161, 43208), (163, 43220), (171, 43271), (177, 43295),
(186, 43355), (192, 43400),

Gene: Fanaw_42 Start: 40220, Stop: 41956, Start Num: 34

Candidate Starts for Fanaw_42:

(Start: 34 @40220 has 60 MA's), (42, 40265), (47, 40295), (51, 40313), (54, 40334), (57, 40349), (68, 40421), (74, 40514), (81, 40586), (84, 40610), (92, 40697), (93, 40712), (115, 40901), (121, 40976), (125, 41057), (128, 41081), (129, 41084), (145, 41237), (146, 41246), (148, 41255), (156, 41351), (159, 41390), (166, 41459), (175, 41483), (180, 41510), (184, 41540), (198, 41618), (201, 41642), (203, 41660), (204, 41663), (207, 41687), (210, 41732), (219, 41816),

Gene: Fastidio_32 Start: 26640, Stop: 27836, Start Num: 39

Candidate Starts for Fastidio_32:

(Start: 39 @26640 has 35 MA's), (56, 26724), (78, 26874), (86, 26928), (95, 27021), (108, 27069), (119, 27180), (122, 27201), (146, 27483), (149, 27504), (159, 27600), (163, 27645), (171, 27690), (177, 27714), (186, 27774),

Gene: FeliMaine_54 Start: 31002, Stop: 32324, Start Num: 44

Candidate Starts for FeliMaine_54:

(Start: 34 @30945 has 60 MA's), (44, 31002), (51, 31038), (55, 31062), (57, 31074), (70, 31197), (74, 31239), (81, 31311), (84, 31335), (85, 31341), (91, 31422), (98, 31491), (99, 31494), (108, 31530), (111, 31566), (119, 31638), (121, 31656), (122, 31659), (131, 31776), (133, 31806), (146, 31938), (149, 31959), (155, 31992), (158, 32046), (159, 32052), (177, 32172), (181, 32202), (184, 32223), (189, 32253),

Gene: Firecracker_67 Start: 42393, Stop: 43643, Start Num: 38

Candidate Starts for Firecracker_67:

(Start: 38 @42393 has 27 MA's), (46, 42429), (56, 42480), (58, 42486), (59, 42489), (78, 42636), (86, 42690), (95, 42783), (108, 42831), (119, 42939), (122, 42960), (146, 43248), (159, 43365), (161, 43398), (163, 43410), (171, 43461), (177, 43485), (186, 43545), (192, 43590),

Gene: Firehouse51_31 Start: 27046, Stop: 28314, Start Num: 34

Candidate Starts for Firehouse51_31:

(Start: 34 @27046 has 60 MA's), (57, 27163), (69, 27235), (80, 27352), (82, 27355), (90, 27433), (97, 27514), (108, 27565), (112, 27604), (116, 27628), (122, 27691), (123, 27694), (128, 27799), (132, 27820), (138, 27883), (141, 27913), (146, 27970), (159, 28087), (161, 28120),

Gene: Fortunato_44 Start: 40578, Stop: 42314, Start Num: 34

Candidate Starts for Fortunato_44:

(Start: 34 @40578 has 60 MA's), (47, 40653), (51, 40671), (54, 40692), (57, 40707), (68, 40779), (74, 40872), (81, 40944), (84, 40968), (92, 41055), (93, 41070), (114, 41253), (121, 41334), (125, 41415), (128, 41439), (129, 41442), (134, 41484), (145, 41595), (146, 41604), (148, 41613), (156, 41709), (159, 41748), (166, 41817), (175, 41841), (180, 41868), (184, 41898), (198, 41976), (201, 42000), (203, 42018), (204, 42021), (207, 42045), (210, 42090), (219, 42174),

Gene: FoulBall_66 Start: 42197, Stop: 43417, Start Num: 38

Candidate Starts for FoulBall_66:

(Start: 38 @42197 has 27 MA's), (46, 42233), (56, 42284), (58, 42290), (59, 42293), (78, 42440), (86, 42494), (95, 42587), (108, 42635), (119, 42743), (122, 42764), (146, 43052), (159, 43169), (161, 43202), (163, 43214), (171, 43265), (177, 43289), (186, 43349), (192, 43394),

Gene: Frederick_44 Start: 40560, Stop: 42290, Start Num: 34

Candidate Starts for Frederick_44:

(Start: 34 @40560 has 60 MA's), (47, 40635), (51, 40653), (54, 40674), (57, 40689), (68, 40761), (74, 40854), (81, 40914), (84, 40938), (92, 41025), (93, 41040), (114, 41223), (121, 41304), (125, 41385), (128, 41409), (129, 41412), (134, 41454), (145, 41565), (146, 41574), (148, 41583), (156, 41679), (159, 41718), (166, 41787), (175, 41811), (180, 41838), (184, 41868), (198, 41946), (201, 41970), (203, 41988), (204, 41991), (207, 42015), (210, 42060), (219, 42144),

Gene: Gattaca_53 Start: 30124, Stop: 31503, Start Num: 34

Candidate Starts for Gattaca_53:

(Start: 34 @30124 has 60 MA's), (44, 30181), (51, 30217), (55, 30241), (57, 30253), (70, 30376), (74, 30418), (81, 30490), (84, 30514), (85, 30520), (91, 30601), (98, 30670), (99, 30673), (108, 30709), (111, 30745), (119, 30817), (121, 30835), (122, 30838), (131, 30955), (133, 30985), (146, 31117), (149, 31138), (155, 31171), (158, 31225), (159, 31231), (177, 31351), (181, 31381), (184, 31402), (189, 31432),

Gene: GinPorsche_42 Start: 39523, Stop: 41259, Start Num: 34

Candidate Starts for GinPorsche_42:

(Start: 34 @39523 has 60 MA's), (47, 39598), (51, 39616), (54, 39637), (57, 39652), (68, 39724), (74, 39817), (81, 39889), (84, 39913), (92, 40000), (93, 40015), (114, 40198), (121, 40279), (125, 40360), (128, 40384), (129, 40387), (134, 40429), (145, 40540), (146, 40549), (148, 40558), (156, 40654), (159, 40693), (166, 40762), (175, 40786), (180, 40813), (184, 40843), (198, 40921), (201, 40945), (203, 40963), (204, 40966), (207, 40990), (210, 41035), (219, 41119),

Gene: Hally898_42 Start: 39535, Stop: 41271, Start Num: 34

Candidate Starts for Hally898_42:

(Start: 34 @39535 has 60 MA's), (47, 39610), (51, 39628), (54, 39649), (57, 39664), (68, 39736), (74, 39829), (81, 39901), (84, 39925), (92, 40012), (93, 40027), (114, 40210), (121, 40291), (125, 40372), (128, 40396), (129, 40399), (134, 40441), (145, 40552), (146, 40561), (148, 40570), (156, 40666), (159, 40705), (166, 40774), (175, 40798), (180, 40825), (184, 40855), (198, 40933), (201, 40957), (203, 40975), (204, 40978), (207, 41002), (210, 41047), (219, 41131),

Gene: Hangman_43 Start: 40576, Stop: 42312, Start Num: 34

Candidate Starts for Hangman_43:

(Start: 34 @40576 has 60 MA's), (47, 40651), (51, 40669), (54, 40690), (57, 40705), (68, 40777), (74, 40870), (81, 40942), (84, 40966), (92, 41053), (93, 41068), (115, 41257), (121, 41332), (125, 41413), (128, 41437), (129, 41440), (134, 41482), (145, 41593), (146, 41602), (148, 41611), (156, 41707), (159, 41746), (166, 41815), (175, 41839), (180, 41866), (184, 41896), (198, 41974), (201, 41998), (203, 42016), (204, 42019), (207, 42043), (210, 42088), (219, 42172),

Gene: Heath_42 Start: 40183, Stop: 41907, Start Num: 34

Candidate Starts for Heath_42:

(Start: 34 @40183 has 60 MA's), (47, 40258), (51, 40276), (54, 40297), (57, 40312), (68, 40384), (74, 40477), (81, 40537), (84, 40561), (92, 40648), (93, 40663), (121, 40927), (125, 41008), (128, 41032), (129, 41035), (134, 41077), (145, 41188), (146, 41197), (148, 41206), (156, 41302), (159, 41341), (166, 41410), (175, 41434), (180, 41461), (184, 41491), (198, 41569), (201, 41593), (203, 41611), (204, 41614), (207, 41638), (210, 41683), (219, 41767),

Gene: Huphlepuuff_56 Start: 30508, Stop: 31887, Start Num: 34

Candidate Starts for Huphlepuuff_56:

(Start: 34 @30508 has 60 MA's), (44, 30565), (51, 30601), (55, 30625), (57, 30637), (70, 30760), (74, 30802), (81, 30874), (84, 30898), (85, 30904), (91, 30985), (98, 31054), (99, 31057), (108, 31093), (111, 31129), (119, 31201), (121, 31219), (122, 31222), (131, 31339), (133, 31369), (146, 31501), (149, 31522), (155, 31555), (158, 31609), (159, 31615), (177, 31735), (181, 31765), (184, 31786), (189, 31816),

Gene: Hydro_43 Start: 40593, Stop: 42329, Start Num: 34

Candidate Starts for Hydro_43:

(Start: 34 @40593 has 60 MA's), (47, 40668), (51, 40686), (54, 40707), (57, 40722), (68, 40794), (74, 40887), (81, 40959), (84, 40983), (92, 41070), (93, 41085), (115, 41274), (121, 41349), (125, 41430), (128, 41454), (129, 41457), (145, 41610), (146, 41619), (148, 41628), (156, 41724), (159, 41763), (166, 41832), (175, 41856), (180, 41883), (184, 41913), (198, 41991), (201, 42015), (203, 42033), (204, 42036), (210, 42105), (219, 42189),

Gene: IMpilo_29 Start: 26117, Stop: 27328, Start Num: 39

Candidate Starts for IMpilo_29:

(Start: 39 @26117 has 35 MA's), (59, 26213), (65, 26237), (72, 26330), (73, 26333), (81, 26378), (94, 26507), (108, 26558), (119, 26669), (122, 26690), (146, 26972), (149, 26993), (159, 27089), (163, 27134), (171, 27182), (187, 27272),

Gene: Idergollasper_66 Start: 42197, Stop: 43417, Start Num: 38

Candidate Starts for Idergollasper_66:

(Start: 38 @42197 has 27 MA's), (46, 42233), (56, 42284), (58, 42290), (78, 42440), (86, 42494), (95, 42587), (108, 42635), (119, 42743), (122, 42764), (146, 43052), (159, 43169), (161, 43202), (163, 43214), (171, 43265), (177, 43289), (186, 43349), (192, 43394),

Gene: Indlovu_45 Start: 39904, Stop: 41499, Start Num: 37

Candidate Starts for Indlovu_45:

(32, 39856), (Start: 37 @39904 has 3 MA's), (60, 40009), (64, 40021), (76, 40162), (79, 40201), (81, 40213), (89, 40288), (111, 40504), (114, 40522), (121, 40588), (125, 40669), (128, 40693), (145, 40837), (146, 40846), (159, 40987), (166, 41074), (176, 41107), (180, 41134), (191, 41200), (204, 41284),

Gene: JAMaL_43 Start: 40735, Stop: 42471, Start Num: 34

Candidate Starts for JAMaL_43:

(Start: 34 @40735 has 60 MA's), (47, 40810), (51, 40828), (54, 40849), (57, 40864), (68, 40936), (74, 41029), (81, 41101), (84, 41125), (93, 41227), (115, 41416), (121, 41491), (125, 41572), (128, 41596), (129, 41599), (134, 41641), (145, 41752), (146, 41761), (148, 41770), (156, 41866), (159, 41905), (166, 41974), (175, 41998), (180, 42025), (184, 42055), (198, 42133), (201, 42157), (203, 42175), (204, 42178), (207, 42202), (210, 42247), (219, 42331),

Gene: Jabbawokkie_38 Start: 26902, Stop: 28200, Start Num: 34

Candidate Starts for Jabbawokkie_38:

(Start: 34 @26902 has 60 MA's), (49, 26974), (57, 27022), (61, 27040), (69, 27094), (80, 27211), (82, 27214), (91, 27316), (97, 27373), (108, 27427), (116, 27490), (122, 27553), (123, 27556), (131, 27670), (132, 27682), (138, 27745), (146, 27841), (159, 27958), (161, 27991), (163, 28003), (182, 28108), (187, 28141), (192, 28180),

Gene: JaguarMi_43 Start: 40036, Stop: 41772, Start Num: 34

Candidate Starts for JaguarMi_43:

(Start: 34 @40036 has 60 MA's), (42, 40081), (47, 40111), (51, 40129), (54, 40150), (57, 40165), (68, 40237), (74, 40330), (81, 40402), (84, 40426), (92, 40513), (93, 40528), (107, 40648), (114, 40711), (115, 40717), (121, 40792), (125, 40873), (128, 40897), (129, 40900), (145, 41053), (146, 41062), (148, 41071), (159, 41206), (166, 41275), (174, 41293), (180, 41326), (184, 41356), (198, 41434), (201, 41458), (203, 41476), (207, 41503), (210, 41548), (214, 41602), (219, 41632),

Gene: JangDynasty_66 Start: 42283, Stop: 43503, Start Num: 38

Candidate Starts for JangDynasty_66:

(Start: 38 @42283 has 27 MA's), (46, 42319), (56, 42370), (58, 42376), (78, 42526), (86, 42580), (95, 42673), (108, 42721), (119, 42829), (122, 42850), (146, 43138), (159, 43255), (161, 43288), (163, 43300), (171, 43351), (177, 43375), (186, 43435), (192, 43480),

Gene: Jarcob_30 Start: 26553, Stop: 27749, Start Num: 39

Candidate Starts for Jarcob_30:

(Start: 39 @26553 has 35 MA's), (56, 26637), (78, 26787), (86, 26841), (95, 26934), (108, 26982), (119, 27093), (122, 27114), (146, 27396), (149, 27417), (159, 27513), (163, 27558), (171, 27603), (177, 27627), (186, 27687),

Gene: JoieB_55 Start: 30941, Stop: 32320, Start Num: 34

Candidate Starts for JoieB_55:

(Start: 34 @30941 has 60 MA's), (44, 30998), (51, 31034), (55, 31058), (57, 31070), (70, 31193), (74, 31235), (81, 31307), (84, 31331), (85, 31337), (91, 31418), (98, 31487), (99, 31490), (108, 31526), (111, 31562), (119, 31634), (121, 31652), (122, 31655), (131, 31772), (133, 31802), (146, 31934), (149, 31955), (155, 31988), (158, 32042), (159, 32048), (177, 32168), (181, 32198), (184, 32219), (189, 32249),

Gene: JustASigh_25 Start: 24704, Stop: 26068, Start Num: 34

Candidate Starts for JustASigh_25:

(31, 24677), (Start: 34 @24704 has 60 MA's), (40, 24734), (57, 24821), (77, 24995), (82, 25046), (84, 25070), (91, 25148), (97, 25205), (108, 25259), (111, 25295), (122, 25385), (128, 25493), (132, 25514), (138, 25577), (146, 25673), (161, 25823), (165, 25865),

Gene: Koella_24 Start: 22477, Stop: 23673, Start Num: 39

Candidate Starts for Koella_24:

(12, 22207), (Start: 39 @22477 has 35 MA's), (56, 22561), (78, 22711), (86, 22765), (95, 22858), (108, 22906), (119, 23017), (122, 23038), (146, 23320), (149, 23341), (159, 23437), (163, 23482), (171, 23527), (177, 23551), (186, 23611),

Gene: Krakatau_31 Start: 27006, Stop: 28214, Start Num: 39

Candidate Starts for Krakatau_31:

(4, 26619), (10, 26733), (13, 26751), (Start: 39 @27006 has 35 MA's), (59, 27102), (65, 27126), (72, 27219), (73, 27222), (81, 27267), (94, 27396), (108, 27447), (119, 27558), (122, 27579), (146, 27861), (149, 27882), (159, 27978), (163, 28023), (171, 28068), (177, 28092), (186, 28152),

Gene: Krili_65 Start: 41707, Stop: 42927, Start Num: 38

Candidate Starts for Krili_65:

(Start: 38 @41707 has 27 MA's), (46, 41743), (56, 41794), (58, 41800), (59, 41803), (78, 41950), (86, 42004), (95, 42097), (108, 42145), (119, 42253), (122, 42274), (146, 42562), (159, 42679), (161, 42712), (163, 42724), (171, 42775), (177, 42799), (186, 42859), (192, 42904),

Gene: Lambano_42 Start: 39535, Stop: 41271, Start Num: 34

Candidate Starts for Lambano_42:

(Start: 34 @39535 has 60 MA's), (47, 39610), (51, 39628), (54, 39649), (57, 39664), (68, 39736), (74, 39829), (81, 39901), (84, 39925), (92, 40012), (93, 40027), (114, 40210), (121, 40291), (125, 40372), (128, 40396), (129, 40399), (134, 40441), (145, 40552), (146, 40561), (148, 40570), (156, 40666), (159, 40705), (166, 40774), (175, 40798), (180, 40825), (184, 40855), (198, 40933), (201, 40957), (203, 40975), (204, 40978), (207, 41002), (210, 41047), (219, 41131),

Gene: LastJedi_24 Start: 22508, Stop: 23704, Start Num: 39

Candidate Starts for LastJedi_24:

(12, 22238), (Start: 39 @22508 has 35 MA's), (56, 22592), (78, 22742), (86, 22796), (95, 22889), (108, 22937), (119, 23048), (122, 23069), (146, 23351), (149, 23372), (159, 23468), (163, 23513), (171, 23558), (177, 23582), (186, 23642),

Gene: Leperchaun_30 Start: 26385, Stop: 27593, Start Num: 39

Candidate Starts for Leperchaun_30:

(Start: 39 @26385 has 35 MA's), (59, 26481), (65, 26505), (72, 26598), (73, 26601), (81, 26646), (94, 26775), (108, 26826), (119, 26937), (122, 26958), (146, 27240), (149, 27261), (159, 27357), (163, 27402), (171, 27447), (177, 27471), (186, 27531),

Gene: LilMoolah_30 Start: 26601, Stop: 27797, Start Num: 39

Candidate Starts for LilMoolah_30:

(Start: 39 @26601 has 35 MA's), (56, 26685), (78, 26835), (86, 26889), (95, 26982), (108, 27030), (119, 27141), (122, 27162), (146, 27444), (149, 27465), (159, 27561), (163, 27606), (171, 27651), (177, 27675), (186, 27735),

Gene: Lilbit_55 Start: 30704, Stop: 32083, Start Num: 34

Candidate Starts for Lilbit_55:

(Start: 34 @30704 has 60 MA's), (44, 30761), (51, 30797), (55, 30821), (57, 30833), (70, 30956), (74, 30998), (81, 31070), (84, 31094), (85, 31100), (91, 31181), (98, 31250), (99, 31253), (108, 31289), (111, 31325), (119, 31397), (121, 31415), (122, 31418), (131, 31535), (133, 31565), (146, 31697), (149, 31718), (155, 31751), (158, 31805), (159, 31811), (177, 31931), (181, 31961), (184, 31982), (189, 32012),

Gene: LittleLaf_54 Start: 30433, Stop: 31812, Start Num: 34

Candidate Starts for LittleLaf_54:

(Start: 34 @30433 has 60 MA's), (44, 30490), (51, 30526), (55, 30550), (57, 30562), (70, 30685), (74, 30727), (81, 30799), (84, 30823), (85, 30829), (91, 30910), (98, 30979), (99, 30982), (108, 31018), (111, 31054), (119, 31126), (121, 31144), (122, 31147), (131, 31264), (133, 31294), (146, 31426), (149, 31447), (155, 31480), (158, 31534), (159, 31540), (177, 31660), (181, 31690), (184, 31711), (189, 31741),

Gene: Lizziana_30 Start: 26476, Stop: 27672, Start Num: 39

Candidate Starts for Lizziana_30:

(Start: 39 @26476 has 35 MA's), (56, 26560), (78, 26710), (86, 26764), (95, 26857), (108, 26905), (119, 27016), (122, 27037), (146, 27319), (149, 27340), (159, 27436), (163, 27481), (171, 27526), (177, 27550), (186, 27610),

Gene: Lolalove_44 Start: 40560, Stop: 42296, Start Num: 34

Candidate Starts for Lolalove_44:

(Start: 34 @40560 has 60 MA's), (47, 40635), (51, 40653), (54, 40674), (57, 40689), (68, 40761), (74, 40854), (81, 40926), (84, 40950), (92, 41037), (93, 41052), (114, 41235), (121, 41316), (125, 41397), (128, 41421), (129, 41424), (134, 41466), (145, 41577), (146, 41586), (148, 41595), (156, 41691), (159, 41730), (166, 41799), (175, 41823), (180, 41850), (184, 41880), (198, 41958), (201, 41982), (203, 42000), (204, 42003), (207, 42027), (210, 42072), (219, 42156),

Gene: Lorde_31 Start: 26141, Stop: 27412, Start Num: 34

Candidate Starts for Lorde_31:

(Start: 34 @26141 has 60 MA's), (57, 26258), (80, 26447), (82, 26450), (90, 26528), (97, 26609), (108, 26660), (112, 26699), (116, 26723), (122, 26786), (123, 26789), (128, 26894), (132, 26915), (138, 26978), (141, 27008), (146, 27065), (159, 27182), (161, 27215),

Gene: LunaStella_32 Start: 26826, Stop: 28124, Start Num: 34

Candidate Starts for LunaStella_32:

(Start: 34 @26826 has 60 MA's), (49, 26898), (57, 26946), (61, 26964), (69, 27018), (80, 27135), (82, 27138), (91, 27240), (97, 27297), (108, 27351), (122, 27477), (123, 27480), (131, 27594), (132, 27606), (138, 27669), (146, 27765), (159, 27882), (161, 27915), (163, 27927), (169, 27972), (179, 28011), (182, 28032), (187, 28065), (192, 28104),

Gene: MadKillah_67 Start: 41976, Stop: 43196, Start Num: 38

Candidate Starts for MadKillah_67:

(Start: 38 @41976 has 27 MA's), (46, 42012), (56, 42063), (58, 42069), (78, 42219), (86, 42273), (95, 42366), (108, 42414), (119, 42522), (122, 42543), (146, 42831), (159, 42948), (161, 42981), (163, 42993), (171, 43044), (177, 43068), (186, 43128), (192, 43173),

Gene: Magpie_42 Start: 40402, Stop: 42138, Start Num: 34

Candidate Starts for Magpie_42:

(Start: 34 @40402 has 60 MA's), (47, 40477), (51, 40495), (54, 40516), (57, 40531), (68, 40603), (74, 40696), (81, 40768), (84, 40792), (92, 40879), (93, 40894), (114, 41077), (121, 41158), (125, 41239), (128, 41263), (129, 41266), (134, 41308), (145, 41419), (146, 41428), (148, 41437), (156, 41533), (159, 41572), (166, 41641), (175, 41665), (180, 41692), (184, 41722), (198, 41800), (201, 41824), (203, 41842), (204, 41845), (207, 41869), (210, 41914), (219, 41998),

Gene: Maravista_30 Start: 26258, Stop: 27454, Start Num: 39

Candidate Starts for Maravista_30:

(Start: 39 @26258 has 35 MA's), (56, 26342), (78, 26492), (86, 26546), (95, 26639), (108, 26687), (119, 26798), (122, 26819), (146, 27101), (149, 27122), (159, 27218), (163, 27263), (171, 27308), (177, 27332), (186, 27392),

Gene: Martik_30 Start: 26503, Stop: 27699, Start Num: 39

Candidate Starts for Martik_30:

(Start: 39 @26503 has 35 MA's), (56, 26587), (78, 26737), (86, 26791), (95, 26884), (108, 26932), (119, 27043), (122, 27064), (146, 27346), (149, 27367), (159, 27463), (163, 27508), (171, 27553), (177, 27577), (186, 27637),

Gene: Marvin_51 Start: 30191, Stop: 31570, Start Num: 34

Candidate Starts for Marvin_51:

(Start: 34 @30191 has 60 MA's), (44, 30248), (51, 30284), (55, 30308), (57, 30320), (70, 30443), (74, 30485), (81, 30557), (84, 30581), (85, 30587), (91, 30668), (98, 30737), (99, 30740), (108, 30776), (111, 30812), (119, 30884), (121, 30902), (122, 30905), (131, 31022), (133, 31052), (146, 31184), (149, 31205), (155, 31238), (158, 31292), (159, 31298), (177, 31418), (181, 31448), (184, 31469), (189, 31499),

Gene: Mithril_43 Start: 40570, Stop: 42306, Start Num: 34

Candidate Starts for Mithril_43:

(Start: 34 @40570 has 60 MA's), (47, 40645), (51, 40663), (54, 40684), (57, 40699), (68, 40771), (74, 40864), (81, 40936), (84, 40960), (92, 41047), (93, 41062), (115, 41251), (121, 41326), (125, 41407), (128, 41431), (129, 41434), (134, 41476), (145, 41587), (146, 41596), (148, 41605), (156, 41701), (159, 41740), (166, 41809), (175, 41833), (180, 41860), (184, 41890), (198, 41968), (201, 41992), (203, 42010), (204, 42013), (207, 42037), (210, 42082), (219, 42166),

Gene: MooMoo_28 Start: 25459, Stop: 26733, Start Num: 34

Candidate Starts for MooMoo_28:

(3, 25009), (5, 25114), (Start: 34 @25459 has 60 MA's), (45, 25522), (57, 25579), (80, 25768), (82, 25771), (90, 25849), (97, 25930), (108, 25981), (112, 26020), (113, 26029), (122, 26107), (123, 26110), (128, 26215), (138, 26299), (146, 26386), (159, 26503), (160, 26524), (161, 26536), (169,

26581), (184, 26659), (186, 26668),

Gene: Moonbeam_31 Start: 26999, Stop: 28207, Start Num: 39

Candidate Starts for Moonbeam_31:

(7, 26726), (13, 26747), (Start: 39 @26999 has 35 MA's), (59, 27095), (65, 27119), (72, 27212), (73, 27215), (81, 27260), (94, 27389), (108, 27440), (119, 27551), (122, 27572), (146, 27854), (149, 27875), (159, 27971), (163, 28016), (177, 28085), (179, 28097), (186, 28145),

Gene: Mori_66 Start: 42238, Stop: 43458, Start Num: 38

Candidate Starts for Mori_66:

(Start: 38 @42238 has 27 MA's), (46, 42274), (56, 42325), (58, 42331), (59, 42334), (78, 42481), (86, 42535), (95, 42628), (108, 42676), (119, 42784), (122, 42805), (146, 43093), (159, 43210), (161, 43243), (163, 43255), (171, 43306), (177, 43330), (186, 43390), (192, 43435),

Gene: MosMoris_52 Start: 30124, Stop: 31503, Start Num: 34

Candidate Starts for MosMoris_52:

(Start: 34 @30124 has 60 MA's), (44, 30181), (51, 30217), (55, 30241), (57, 30253), (70, 30376), (74, 30418), (81, 30490), (84, 30514), (85, 30520), (91, 30601), (98, 30670), (99, 30673), (108, 30709), (111, 30745), (119, 30817), (121, 30835), (122, 30838), (131, 30955), (133, 30985), (146, 31117), (149, 31138), (155, 31171), (158, 31225), (159, 31231), (177, 31351), (181, 31381), (184, 31402), (189, 31432),

Gene: Mudslide_43 Start: 40826, Stop: 42562, Start Num: 34

Candidate Starts for Mudslide_43:

(Start: 34 @40826 has 60 MA's), (47, 40901), (51, 40919), (54, 40940), (57, 40955), (68, 41027), (74, 41120), (81, 41192), (84, 41216), (92, 41303), (93, 41318), (115, 41507), (121, 41582), (125, 41663), (128, 41687), (129, 41690), (133, 41726), (134, 41732), (145, 41843), (146, 41852), (148, 41861), (156, 41957), (159, 41996), (166, 42065), (175, 42089), (180, 42116), (184, 42146), (197, 42221), (198, 42224), (201, 42248), (203, 42266), (204, 42269), (207, 42293), (210, 42338), (219, 42422),

Gene: Mufasa_29 Start: 23220, Stop: 24878, Start Num: 34

Candidate Starts for Mufasa_29:

(Start: 34 @23220 has 60 MA's), (43, 23271), (44, 23274), (51, 23310), (57, 23346), (81, 23547), (85, 23577), (98, 23715), (109, 23787), (111, 23802), (118, 23868), (122, 23889), (128, 23991), (147, 24162), (153, 24198), (155, 24213), (159, 24276), (166, 24345), (177, 24378), (212, 24633), (226, 24783), (227, 24846),

Gene: MulchSalad_27 Start: 22629, Stop: 23891, Start Num: 34

Candidate Starts for MulchSalad_27:

(Start: 34 @22629 has 60 MA's), (49, 22701), (57, 22749), (61, 22767), (80, 22938), (82, 22941), (97, 23100), (108, 23154), (122, 23280), (123, 23283), (128, 23388), (132, 23409), (138, 23472), (143, 23508), (146, 23535), (161, 23685), (163, 23697), (165, 23721), (171, 23745),

Gene: Murai_67 Start: 42419, Stop: 43639, Start Num: 38

Candidate Starts for Murai_67:

(Start: 38 @42419 has 27 MA's), (46, 42455), (56, 42506), (58, 42512), (59, 42515), (78, 42662), (86, 42716), (95, 42809), (108, 42857), (119, 42965), (122, 42986), (146, 43274), (159, 43391), (161, 43424), (163, 43436), (171, 43487), (177, 43511), (186, 43571), (192, 43616),

Gene: Nanao_42 Start: 39522, Stop: 41258, Start Num: 34

Candidate Starts for Nanao_42:

(Start: 34 @39522 has 60 MA's), (47, 39597), (51, 39615), (54, 39636), (57, 39651), (68, 39723), (74, 39816), (81, 39888), (84, 39912), (92, 39999), (93, 40014), (114, 40197), (121, 40278), (125, 40359),

(128, 40383), (129, 40386), (134, 40428), (145, 40539), (146, 40548), (148, 40557), (156, 40653), (159, 40692), (166, 40761), (175, 40785), (180, 40812), (184, 40842), (198, 40920), (201, 40944), (203, 40962), (204, 40965), (207, 40989), (210, 41034), (219, 41118),

Gene: Nebkiss_34 Start: 28982, Stop: 30292, Start Num: 48

Candidate Starts for Nebkiss_34:

(Start: 48 @28982 has 1 MA's), (66, 29072), (67, 29078), (70, 29147), (81, 29234), (87, 29273), (94, 29369), (101, 29399), (110, 29459), (111, 29468), (112, 29471), (121, 29552), (128, 29657), (130, 29663), (139, 29750), (140, 29756), (144, 29807), (147, 29825), (148, 29831), (149, 29843), (150, 29846), (152, 29855), (153, 29861), (159, 29954), (160, 29975), (166, 30014), (172, 30032), (185, 30101), (193, 30155), (194, 30167), (196, 30173), (199, 30188), (200, 30191), (208, 30257), (209, 30260),

Gene: NiebruSaylor_65 Start: 41626, Stop: 42846, Start Num: 38

Candidate Starts for NiebruSaylor_65:

(Start: 38 @41626 has 27 MA's), (46, 41662), (56, 41713), (58, 41719), (59, 41722), (78, 41869), (86, 41923), (95, 42016), (108, 42064), (119, 42172), (122, 42193), (146, 42481), (159, 42598), (161, 42631), (163, 42643), (171, 42694), (177, 42718), (186, 42778), (192, 42823),

Gene: Nigel_42 Start: 39419, Stop: 41152, Start Num: 34

Candidate Starts for Nigel_42:

(25, 39323), (Start: 34 @39419 has 60 MA's), (47, 39494), (51, 39512), (54, 39533), (55, 39536), (57, 39548), (68, 39620), (74, 39713), (81, 39785), (84, 39809), (92, 39896), (93, 39911), (107, 40031), (115, 40100), (121, 40175), (125, 40256), (128, 40280), (129, 40283), (145, 40436), (146, 40445), (159, 40589), (166, 40655), (175, 40679), (180, 40706), (184, 40736), (197, 40811), (203, 40856), (204, 40859), (207, 40883), (211, 40946), (219, 41012), (221, 41030),

Gene: Nivrat_30 Start: 26475, Stop: 27671, Start Num: 39

Candidate Starts for Nivrat_30:

(Start: 39 @26475 has 35 MA's), (56, 26559), (78, 26709), (86, 26763), (95, 26856), (108, 26904), (119, 27015), (122, 27036), (146, 27318), (149, 27339), (159, 27435), (163, 27480), (171, 27525), (177, 27549), (186, 27609),

Gene: NormanBulbieJr_30 Start: 26490, Stop: 27686, Start Num: 39

Candidate Starts for NormanBulbieJr_30:

(Start: 39 @26490 has 35 MA's), (56, 26574), (78, 26724), (86, 26778), (95, 26871), (108, 26919), (119, 27030), (122, 27051), (146, 27333), (149, 27354), (159, 27450), (163, 27495), (171, 27540), (177, 27564), (186, 27624),

Gene: Pacc40_30 Start: 26481, Stop: 27689, Start Num: 39

Candidate Starts for Pacc40_30:

(Start: 39 @26481 has 35 MA's), (59, 26577), (65, 26601), (72, 26694), (73, 26697), (81, 26742), (94, 26871), (108, 26922), (119, 27033), (122, 27054), (146, 27336), (149, 27357), (159, 27453), (163, 27498), (171, 27543), (177, 27567), (186, 27627),

Gene: PenguinLover67_49 Start: 42209, Stop: 43822, Start Num: 36

Candidate Starts for PenguinLover67_49:

(2, 41603), (15, 41942), (17, 41990), (Start: 36 @42209 has 1 MA's), (60, 42314), (62, 42317), (63, 42323), (64, 42326), (71, 42428), (79, 42500), (81, 42512), (100, 42695), (102, 42710), (104, 42722), (105, 42743), (111, 42812), (121, 42896), (125, 42977), (128, 43001), (132, 43022), (137, 43082), (145, 43145), (146, 43154), (148, 43163), (159, 43292), (160, 43313), (166, 43364), (168, 43370), (176, 43397), (180, 43424), (188, 43475), (190, 43487), (191, 43493), (204, 43577),

Gene: Phalconet_30 Start: 26423, Stop: 27631, Start Num: 39

Candidate Starts for Phalconet_30:

(7, 26147), (13, 26168), (Start: 39 @26423 has 35 MA's), (59, 26519), (65, 26543), (72, 26636), (73, 26639), (81, 26684), (94, 26813), (108, 26864), (119, 26975), (122, 26996), (146, 27278), (149, 27299), (159, 27395), (163, 27440), (171, 27485), (177, 27509), (186, 27569),

Gene: PhesterPhotato_30 Start: 26343, Stop: 27551, Start Num: 39

Candidate Starts for PhesterPhotato_30:

(7, 26067), (13, 26088), (Start: 39 @26343 has 35 MA's), (59, 26439), (65, 26463), (72, 26556), (73, 26559), (81, 26604), (94, 26733), (108, 26784), (119, 26895), (122, 26916), (146, 27198), (149, 27219), (159, 27315), (163, 27360), (171, 27405), (177, 27429), (186, 27489),

Gene: Poise_54 Start: 30021, Stop: 31400, Start Num: 34

Candidate Starts for Poise_54:

(Start: 34 @30021 has 60 MA's), (44, 30078), (51, 30114), (55, 30138), (57, 30150), (70, 30273), (74, 30315), (81, 30387), (84, 30411), (85, 30417), (91, 30498), (98, 30567), (99, 30570), (108, 30606), (111, 30642), (119, 30714), (121, 30732), (122, 30735), (131, 30852), (133, 30882), (146, 31014), (149, 31035), (155, 31068), (158, 31122), (159, 31128), (177, 31248), (181, 31278), (184, 31299), (189, 31329),

Gene: PopTart_30 Start: 26544, Stop: 27830, Start Num: 34

Candidate Starts for PopTart_30:

(9, 26271), (14, 26292), (Start: 34 @26544 has 60 MA's), (57, 26664), (69, 26736), (80, 26853), (82, 26856), (91, 26958), (97, 27015), (108, 27069), (116, 27132), (122, 27195), (123, 27198), (131, 27312), (132, 27324), (138, 27387), (146, 27474), (151, 27501), (159, 27591), (160, 27612), (161, 27624), (163, 27636), (165, 27660), (182, 27741), (187, 27774),

Gene: Poster_42 Start: 39523, Stop: 41259, Start Num: 34

Candidate Starts for Poster_42:

(Start: 34 @39523 has 60 MA's), (47, 39598), (51, 39616), (54, 39637), (57, 39652), (68, 39724), (74, 39817), (81, 39889), (84, 39913), (92, 40000), (93, 40015), (114, 40198), (121, 40279), (125, 40360), (128, 40384), (129, 40387), (134, 40429), (145, 40540), (146, 40549), (148, 40558), (156, 40654), (159, 40693), (166, 40762), (175, 40786), (180, 40813), (184, 40843), (198, 40921), (201, 40945), (203, 40963), (204, 40966), (207, 40990), (210, 41035), (219, 41119),

Gene: Prince_43 Start: 40736, Stop: 42472, Start Num: 34

Candidate Starts for Prince_43:

(Start: 34 @40736 has 60 MA's), (47, 40811), (51, 40829), (54, 40850), (57, 40865), (68, 40937), (74, 41030), (81, 41102), (84, 41126), (92, 41213), (93, 41228), (115, 41417), (121, 41492), (125, 41573), (128, 41597), (129, 41600), (145, 41753), (146, 41762), (148, 41771), (156, 41867), (159, 41906), (166, 41975), (175, 41999), (180, 42026), (184, 42056), (198, 42134), (201, 42158), (203, 42176), (204, 42179), (210, 42248), (219, 42332),

Gene: Pringar_54 Start: 30309, Stop: 31688, Start Num: 34

Candidate Starts for Pringar_54:

(Start: 34 @30309 has 60 MA's), (44, 30366), (51, 30402), (55, 30426), (57, 30438), (70, 30561), (74, 30603), (81, 30675), (84, 30699), (85, 30705), (91, 30786), (98, 30855), (99, 30858), (108, 30894), (111, 30930), (119, 31002), (121, 31020), (122, 31023), (131, 31140), (133, 31170), (146, 31302), (149, 31323), (155, 31356), (158, 31410), (159, 31416), (177, 31536), (181, 31566), (184, 31587), (189, 31617),

Gene: QueenPie_42 Start: 40647, Stop: 42371, Start Num: 34

Candidate Starts for QueenPie_42:

(Start: 34 @40647 has 60 MA's), (47, 40722), (51, 40740), (54, 40761), (57, 40776), (68, 40848), (74, 40941), (81, 41001), (84, 41025), (92, 41112), (93, 41127), (114, 41310), (115, 41316), (121, 41391), (125, 41472), (128, 41496), (134, 41541), (145, 41652), (146, 41661), (148, 41670), (159, 41805), (166, 41874), (175, 41898), (180, 41925), (184, 41955), (197, 42030), (198, 42033), (201, 42057), (203, 42075), (204, 42078), (207, 42102), (210, 42147), (219, 42231),

Gene: Quesadilla_49 Start: 42178, Stop: 43833, Start Num: 37

Candidate Starts for Quesadilla_49:

(21, 42043), (22, 42052), (24, 42058), (27, 42076), (Start: 37 @42178 has 3 MA's), (41, 42187), (64, 42301), (76, 42442), (79, 42481), (81, 42493), (87, 42532), (103, 42697), (114, 42811), (115, 42817), (121, 42892), (124, 42931), (125, 42973), (129, 43000), (135, 43054), (136, 43069), (146, 43159), (159, 43303), (166, 43387), (188, 43498), (190, 43510), (200, 43570), (204, 43600), (213, 43690), (215, 43720), (224, 43822),

Gene: Raela_54 Start: 30576, Stop: 31955, Start Num: 34

Candidate Starts for Raela_54:

(Start: 34 @30576 has 60 MA's), (44, 30633), (51, 30669), (55, 30693), (57, 30705), (70, 30828), (74, 30870), (81, 30942), (84, 30966), (85, 30972), (91, 31053), (98, 31122), (99, 31125), (108, 31161), (119, 31269), (121, 31287), (122, 31290), (131, 31407), (133, 31437), (146, 31569), (149, 31590), (155, 31623), (158, 31677), (159, 31683), (177, 31803), (181, 31833), (184, 31854), (189, 31884),

Gene: RawrgerThat_44 Start: 40581, Stop: 42323, Start Num: 34

Candidate Starts for RawrgerThat_44:

(Start: 34 @40581 has 60 MA's), (47, 40656), (51, 40674), (54, 40695), (57, 40710), (68, 40782), (74, 40875), (81, 40947), (84, 40971), (92, 41058), (93, 41073), (114, 41256), (121, 41337), (125, 41418), (128, 41442), (129, 41445), (134, 41487), (145, 41598), (146, 41607), (148, 41616), (156, 41712), (159, 41751), (166, 41820), (175, 41844), (180, 41871), (184, 41901), (198, 41979), (201, 42003), (203, 42021), (204, 42024), (207, 42048), (210, 42093), (219, 42177),

Gene: RedBird_30 Start: 26299, Stop: 27495, Start Num: 39

Candidate Starts for RedBird_30:

(Start: 39 @26299 has 35 MA's), (56, 26383), (78, 26533), (86, 26587), (95, 26680), (108, 26728), (119, 26839), (122, 26860), (146, 27142), (149, 27163), (159, 27259), (163, 27304), (171, 27349), (177, 27373), (186, 27433),

Gene: RedRaider77_53 Start: 29965, Stop: 31344, Start Num: 34

Candidate Starts for RedRaider77_53:

(Start: 34 @29965 has 60 MA's), (44, 30022), (51, 30058), (55, 30082), (57, 30094), (70, 30217), (74, 30259), (81, 30331), (84, 30355), (85, 30361), (91, 30442), (98, 30511), (99, 30514), (108, 30550), (111, 30586), (119, 30658), (121, 30676), (122, 30679), (131, 30796), (133, 30826), (146, 30958), (149, 30979), (155, 31012), (158, 31066), (159, 31072), (177, 31192), (181, 31222), (184, 31243), (189, 31273),

Gene: Renaud18_30 Start: 26514, Stop: 27722, Start Num: 39

Candidate Starts for Renaud18_30:

(Start: 39 @26514 has 35 MA's), (59, 26610), (65, 26634), (72, 26727), (73, 26730), (81, 26775), (94, 26904), (108, 26955), (119, 27066), (122, 27087), (146, 27369), (149, 27390), (159, 27486), (163, 27531), (171, 27576), (177, 27600), (186, 27660),

Gene: Ryadel_70 Start: 43007, Stop: 44251, Start Num: 38

Candidate Starts for Ryadel_70:

(Start: 38 @43007 has 27 MA's), (46, 43043), (56, 43094), (58, 43100), (59, 43103), (78, 43250), (86, 43304), (95, 43397), (108, 43445), (119, 43553), (122, 43574), (146, 43862), (159, 43979), (161,

44012), (163, 44024), (171, 44075), (177, 44099), (186, 44159), (192, 44204),

Gene: SG4_30 Start: 26651, Stop: 27922, Start Num: 34

Candidate Starts for SG4_30:

(Start: 34 @26651 has 60 MA's), (57, 26768), (80, 26957), (82, 26960), (90, 27038), (97, 27119), (108, 27170), (112, 27209), (116, 27233), (122, 27296), (123, 27299), (128, 27404), (132, 27425), (138, 27488), (141, 27518), (146, 27575), (159, 27692), (161, 27725),

Gene: Saguaro_49 Start: 41855, Stop: 43441, Start Num: 35

Candidate Starts for Saguaro_49:

(20, 41702), (23, 41720), (24, 41723), (26, 41735), (28, 41759), (33, 41813), (Start: 35 @41855 has 2 MA's), (Start: 37 @41864 has 3 MA's), (60, 41969), (64, 41981), (71, 42083), (75, 42110), (79, 42155), (81, 42167), (88, 42221), (112, 42464), (114, 42479), (121, 42545), (126, 42632), (137, 42731), (145, 42794), (146, 42803), (157, 42929), (159, 42941), (166, 43013), (175, 43037), (180, 43064), (184, 43094), (185, 43100), (201, 43196), (203, 43214), (204, 43217), (213, 43313),

Gene: SassyB_30 Start: 26544, Stop: 27830, Start Num: 34

Candidate Starts for SassyB_30:

(9, 26271), (14, 26292), (Start: 34 @26544 has 60 MA's), (57, 26664), (69, 26736), (80, 26853), (82, 26856), (91, 26958), (97, 27015), (108, 27069), (116, 27132), (122, 27195), (123, 27198), (131, 27312), (132, 27324), (138, 27387), (146, 27474), (151, 27501), (159, 27591), (160, 27612), (161, 27624), (163, 27636), (165, 27660), (182, 27741), (187, 27774),

Gene: SchoolBus_66 Start: 42191, Stop: 43411, Start Num: 38

Candidate Starts for SchoolBus_66:

(18, 42038), (19, 42041), (21, 42053), (29, 42107), (30, 42110), (Start: 38 @42191 has 27 MA's), (46, 42227), (56, 42278), (58, 42284), (78, 42434), (86, 42488), (95, 42581), (108, 42629), (119, 42737), (122, 42758), (146, 43046), (159, 43163), (161, 43196), (163, 43208), (171, 43259), (177, 43283), (186, 43343), (192, 43388),

Gene: Schuy_67 Start: 41982, Stop: 43202, Start Num: 38

Candidate Starts for Schuy_67:

(Start: 38 @41982 has 27 MA's), (46, 42018), (56, 42069), (58, 42075), (78, 42225), (86, 42279), (95, 42372), (108, 42420), (119, 42528), (122, 42549), (146, 42837), (159, 42954), (161, 42987), (163, 42999), (171, 43050), (177, 43074), (186, 43134), (192, 43179),

Gene: Seagreen_31 Start: 26351, Stop: 27637, Start Num: 34

Candidate Starts for Seagreen_31:

(9, 26078), (14, 26099), (Start: 34 @26351 has 60 MA's), (57, 26471), (69, 26543), (80, 26660), (82, 26663), (91, 26765), (97, 26822), (108, 26876), (116, 26939), (122, 27002), (123, 27005), (131, 27119), (132, 27131), (138, 27194), (146, 27281), (151, 27308), (159, 27398), (160, 27419), (161, 27431), (163, 27443), (165, 27467), (182, 27548), (187, 27581),

Gene: ShiLan_30 Start: 26544, Stop: 27740, Start Num: 39

Candidate Starts for ShiLan_30:

(Start: 39 @26544 has 35 MA's), (56, 26628), (78, 26778), (86, 26832), (95, 26925), (108, 26973), (119, 27084), (122, 27105), (146, 27387), (149, 27408), (159, 27504), (163, 27549), (171, 27594), (177, 27618), (186, 27678),

Gene: Shida_66 Start: 41889, Stop: 43109, Start Num: 38

Candidate Starts for Shida_66:

(Start: 38 @41889 has 27 MA's), (46, 41925), (56, 41976), (58, 41982), (59, 41985), (78, 42132), (86, 42186), (95, 42279), (108, 42327), (119, 42435), (122, 42456), (146, 42744), (159, 42861), (161,

42894), (163, 42906), (171, 42957), (177, 42981), (186, 43041), (192, 43086),

Gene: ShowerHandel_30 Start: 26503, Stop: 27699, Start Num: 39

Candidate Starts for ShowerHandel_30:

(Start: 39 @26503 has 35 MA's), (56, 26587), (78, 26737), (86, 26791), (95, 26884), (108, 26932), (119, 27043), (122, 27064), (146, 27346), (149, 27367), (159, 27463), (163, 27508), (171, 27553), (177, 27577), (186, 27637),

Gene: SiSi_30 Start: 26302, Stop: 27498, Start Num: 39

Candidate Starts for SiSi_30:

(Start: 39 @26302 has 35 MA's), (56, 26386), (78, 26536), (86, 26590), (95, 26683), (108, 26731), (119, 26842), (122, 26863), (146, 27145), (149, 27166), (159, 27262), (163, 27307), (171, 27352), (177, 27376), (186, 27436),

Gene: Smooch_69 Start: 43911, Stop: 45155, Start Num: 38

Candidate Starts for Smooch_69:

(Start: 38 @43911 has 27 MA's), (46, 43947), (56, 43998), (58, 44004), (59, 44007), (78, 44154), (86, 44208), (95, 44301), (108, 44349), (119, 44457), (122, 44478), (146, 44766), (159, 44883), (161, 44916), (163, 44928), (171, 44979), (177, 45003), (186, 45063), (192, 45108),

Gene: StAugustine_56 Start: 44382, Stop: 45980, Start Num: 37

Candidate Starts for StAugustine_56:

(Start: 37 @44382 has 3 MA's), (50, 44430), (64, 44499), (71, 44601), (76, 44640), (79, 44679), (81, 44691), (91, 44793), (97, 44868), (106, 44946), (121, 45102), (125, 45183), (128, 45207), (129, 45210), (130, 45213), (146, 45372), (147, 45375), (148, 45381), (159, 45516), (162, 45555), (164, 45591), (170, 45615), (200, 45789), (205, 45822), (216, 45936), (222, 45969),

Gene: Stinger_42 Start: 39109, Stop: 40842, Start Num: 34

Candidate Starts for Stinger_42:

(25, 39013), (Start: 34 @39109 has 60 MA's), (45, 39178), (51, 39202), (54, 39223), (55, 39226), (57, 39238), (68, 39310), (74, 39403), (81, 39475), (84, 39499), (93, 39601), (115, 39790), (121, 39865), (125, 39946), (128, 39970), (129, 39973), (134, 40015), (145, 40126), (146, 40135), (159, 40279), (166, 40345), (175, 40369), (180, 40396), (184, 40426), (197, 40501), (203, 40546), (207, 40573), (211, 40636),

Gene: SwagPiggett_30 Start: 26314, Stop: 27510, Start Num: 39

Candidate Starts for SwagPiggett_30:

(Start: 39 @26314 has 35 MA's), (56, 26398), (78, 26548), (86, 26602), (95, 26695), (108, 26743), (119, 26854), (122, 26875), (146, 27157), (149, 27178), (159, 27274), (163, 27319), (171, 27364), (177, 27388), (186, 27448),

Gene: TChen_30 Start: 26827, Stop: 28125, Start Num: 34

Candidate Starts for TChen_30:

(Start: 34 @26827 has 60 MA's), (49, 26899), (57, 26947), (61, 26965), (69, 27019), (80, 27136), (82, 27139), (91, 27241), (97, 27298), (108, 27352), (122, 27478), (123, 27481), (131, 27595), (132, 27607), (138, 27670), (146, 27766), (159, 27883), (161, 27916), (163, 27928), (169, 27973), (179, 28012), (182, 28033), (187, 28066), (192, 28105),

Gene: TM4_29 Start: 23341, Stop: 24984, Start Num: 34

Candidate Starts for TM4_29:

(Start: 34 @23341 has 60 MA's), (43, 23392), (44, 23395), (51, 23431), (57, 23467), (81, 23668), (85, 23698), (98, 23836), (109, 23908), (111, 23923), (118, 23989), (120, 23998), (121, 24007), (122, 24010), (128, 24112), (147, 24283), (153, 24319), (155, 24334), (159, 24397), (166, 24466), (177,

24499), (212, 24754), (225, 24886), (226, 24889), (227, 24952),

Gene: TelAviv_63 Start: 42164, Stop: 43384, Start Num: 38

Candidate Starts for TelAviv_63:

(Start: 38 @42164 has 27 MA's), (46, 42200), (56, 42251), (58, 42257), (78, 42407), (86, 42461), (95, 42554), (108, 42602), (119, 42710), (122, 42731), (146, 43019), (159, 43136), (161, 43169), (163, 43181), (171, 43232), (177, 43256), (186, 43316), (192, 43361),

Gene: Tesla_52 Start: 29814, Stop: 31193, Start Num: 34

Candidate Starts for Tesla_52:

(Start: 34 @29814 has 60 MA's), (44, 29871), (51, 29907), (55, 29931), (57, 29943), (70, 30066), (74, 30108), (81, 30180), (84, 30204), (85, 30210), (91, 30291), (98, 30360), (99, 30363), (108, 30399), (111, 30435), (119, 30507), (121, 30525), (122, 30528), (131, 30645), (133, 30675), (146, 30807), (149, 30828), (155, 30861), (158, 30915), (159, 30921), (177, 31041), (181, 31071), (184, 31092), (189, 31122),

Gene: Thonko_46 Start: 38334, Stop: 39899, Start Num: 35

Candidate Starts for Thonko_46:

(Start: 35 @38334 has 2 MA's), (Start: 37 @38343 has 3 MA's), (53, 38418), (60, 38454), (64, 38466), (76, 38607), (79, 38646), (81, 38658), (83, 38664), (91, 38760), (101, 38865), (109, 38952), (111, 38967), (117, 39015), (121, 39051), (135, 39213), (145, 39300), (146, 39309), (159, 39453), (166, 39519), (173, 39534), (175, 39543), (180, 39570), (195, 39672), (201, 39702), (203, 39720), (217, 39846),

Gene: Toron_31 Start: 26744, Stop: 28024, Start Num: 34

Candidate Starts for Toron_31:

(Start: 34 @26744 has 60 MA's), (57, 26864), (80, 27053), (82, 27056), (97, 27215), (108, 27266), (112, 27305), (122, 27392), (123, 27395), (127, 27497), (128, 27500), (132, 27521), (138, 27584), (146, 27680), (159, 27797), (160, 27818), (161, 27830), (169, 27875), (179, 27914), (184, 27953), (186, 27962), (192, 28007),

Gene: Vagabond_64 Start: 42027, Stop: 43247, Start Num: 38

Candidate Starts for Vagabond_64:

(Start: 38 @42027 has 27 MA's), (46, 42063), (56, 42114), (58, 42120), (59, 42123), (78, 42270), (86, 42324), (95, 42417), (108, 42465), (119, 42573), (122, 42594), (146, 42882), (159, 42999), (161, 43032), (163, 43044), (171, 43095), (177, 43119), (186, 43179), (192, 43224),

Gene: VasuNzinga_54 Start: 29883, Stop: 31262, Start Num: 34

Candidate Starts for VasuNzinga_54:

(Start: 34 @29883 has 60 MA's), (44, 29940), (51, 29976), (55, 30000), (57, 30012), (70, 30135), (74, 30177), (81, 30249), (84, 30273), (85, 30279), (91, 30360), (98, 30429), (99, 30432), (108, 30468), (111, 30504), (119, 30576), (121, 30594), (122, 30597), (131, 30714), (133, 30744), (146, 30876), (149, 30897), (155, 30930), (158, 30984), (159, 30990), (177, 31110), (181, 31140), (184, 31161), (189, 31191),

Gene: Vincenzo_44 Start: 41174, Stop: 42871, Start Num: 34

Candidate Starts for Vincenzo_44:

(Start: 34 @41174 has 60 MA's), (45, 41243), (47, 41249), (51, 41267), (54, 41288), (57, 41303), (68, 41375), (74, 41468), (81, 41540), (84, 41564), (93, 41666), (121, 41927), (125, 42008), (128, 42032), (129, 42035), (145, 42188), (146, 42197), (148, 42206), (152, 42230), (159, 42341), (166, 42410), (175, 42434), (176, 42437), (180, 42461), (184, 42491), (197, 42566), (201, 42593), (203, 42611), (207, 42638), (218, 42764),

Gene: VioletZ_45 Start: 40652, Stop: 42388, Start Num: 34

Candidate Starts for VioletZ_45:

(Start: 34 @40652 has 60 MA's), (47, 40727), (51, 40745), (54, 40766), (57, 40781), (68, 40853), (74, 40946), (81, 41018), (84, 41042), (92, 41129), (93, 41144), (115, 41333), (121, 41408), (125, 41489), (128, 41513), (129, 41516), (145, 41669), (146, 41678), (148, 41687), (156, 41783), (159, 41822), (166, 41891), (175, 41915), (180, 41942), (184, 41972), (198, 42050), (201, 42074), (203, 42092), (204, 42095), (210, 42164), (219, 42248),

Gene: Vorrps_66 Start: 42239, Stop: 43459, Start Num: 38

Candidate Starts for Vorrps_66:

(Start: 38 @42239 has 27 MA's), (46, 42275), (56, 42326), (58, 42332), (59, 42335), (78, 42482), (86, 42536), (95, 42629), (108, 42677), (119, 42785), (122, 42806), (146, 43094), (159, 43211), (161, 43244), (163, 43256), (171, 43307), (177, 43331), (186, 43391), (192, 43436),

Gene: Wachhund_30 Start: 26486, Stop: 27697, Start Num: 39

Candidate Starts for Wachhund_30:

(Start: 39 @26486 has 35 MA's), (59, 26582), (65, 26606), (72, 26699), (73, 26702), (81, 26747), (94, 26876), (108, 26927), (119, 27038), (122, 27059), (146, 27341), (149, 27362), (150, 27365), (159, 27458), (163, 27503), (171, 27551), (187, 27641),

Gene: Waleliano_43 Start: 40576, Stop: 42312, Start Num: 34

Candidate Starts for Waleliano_43:

(Start: 34 @40576 has 60 MA's), (47, 40651), (51, 40669), (54, 40690), (57, 40705), (68, 40777), (74, 40870), (81, 40942), (84, 40966), (92, 41053), (93, 41068), (114, 41251), (121, 41332), (125, 41413), (128, 41437), (129, 41440), (134, 41482), (145, 41593), (146, 41602), (148, 41611), (156, 41707), (159, 41746), (166, 41815), (175, 41839), (180, 41866), (184, 41896), (197, 41971), (198, 41974), (201, 41998), (202, 42004), (203, 42016), (204, 42019), (207, 42043), (210, 42088), (219, 42172),

Gene: Whatsapiecost_31 Start: 26670, Stop: 27956, Start Num: 34

Candidate Starts for Whatsapiecost_31:

(Start: 34 @26670 has 60 MA's), (57, 26790), (69, 26862), (80, 26979), (82, 26982), (91, 27084), (97, 27141), (108, 27195), (116, 27258), (122, 27321), (123, 27324), (131, 27438), (132, 27450), (138, 27513), (146, 27600), (151, 27627), (159, 27717), (160, 27738), (161, 27750), (163, 27762), (165, 27786), (182, 27867), (187, 27900),

Gene: Wildflower_66 Start: 41751, Stop: 42971, Start Num: 38

Candidate Starts for Wildflower_66:

(Start: 38 @41751 has 27 MA's), (46, 41787), (56, 41838), (58, 41844), (59, 41847), (78, 41994), (86, 42048), (95, 42141), (108, 42189), (119, 42297), (122, 42318), (146, 42606), (159, 42723), (161, 42756), (163, 42768), (171, 42819), (177, 42843), (186, 42903), (192, 42948),

Gene: Winget_67 Start: 42457, Stop: 43677, Start Num: 38

Candidate Starts for Winget_67:

(Start: 38 @42457 has 27 MA's), (46, 42493), (56, 42544), (58, 42550), (59, 42553), (78, 42700), (86, 42754), (95, 42847), (108, 42895), (119, 43003), (122, 43024), (146, 43312), (159, 43429), (161, 43462), (163, 43474), (171, 43525), (177, 43549), (186, 43609), (192, 43654),

Gene: XFactor_30 Start: 26489, Stop: 27697, Start Num: 39

Candidate Starts for XFactor_30:

(7, 26213), (13, 26234), (Start: 39 @26489 has 35 MA's), (59, 26585), (65, 26609), (72, 26702), (73, 26705), (81, 26750), (94, 26879), (108, 26930), (119, 27041), (122, 27062), (146, 27344), (149, 27365), (159, 27461), (163, 27506), (171, 27551), (177, 27575), (186, 27635),

Gene: Xincheng_42 Start: 40012, Stop: 41748, Start Num: 34

Candidate Starts for Xincheng_42:

(Start: 34 @40012 has 60 MA's), (42, 40057), (47, 40087), (51, 40105), (54, 40126), (57, 40141), (68, 40213), (74, 40306), (81, 40378), (84, 40402), (92, 40489), (93, 40504), (107, 40624), (114, 40687), (115, 40693), (121, 40768), (125, 40849), (128, 40873), (129, 40876), (145, 41029), (146, 41038), (148, 41047), (159, 41182), (166, 41251), (174, 41269), (180, 41302), (184, 41332), (198, 41410), (201, 41434), (203, 41452), (207, 41479), (210, 41524), (214, 41578), (219, 41608),

Gene: Yorick_30 Start: 26501, Stop: 27697, Start Num: 39

Candidate Starts for Yorick_30:

(Start: 39 @26501 has 35 MA's), (56, 26585), (78, 26735), (86, 26789), (95, 26882), (108, 26930), (119, 27041), (122, 27062), (146, 27344), (149, 27365), (159, 27461), (163, 27506), (171, 27551), (177, 27575), (186, 27635),

Gene: YungJamal_71 Start: 43649, Stop: 44869, Start Num: 38

Candidate Starts for YungJamal_71:

(Start: 38 @43649 has 27 MA's), (46, 43685), (56, 43736), (58, 43742), (59, 43745), (78, 43892), (86, 43946), (95, 44039), (108, 44087), (119, 44195), (122, 44216), (146, 44504), (159, 44621), (161, 44654), (163, 44666), (171, 44717), (177, 44741), (186, 44801), (192, 44846),

Gene: Zakhe101_65 Start: 42297, Stop: 43517, Start Num: 38

Candidate Starts for Zakhe101_65:

(Start: 38 @42297 has 27 MA's), (46, 42333), (56, 42384), (58, 42390), (59, 42393), (78, 42540), (86, 42594), (95, 42687), (108, 42735), (119, 42843), (122, 42864), (146, 43152), (159, 43269), (161, 43302), (163, 43314), (171, 43365), (177, 43389), (186, 43449), (192, 43494),

Gene: Zapner_37 Start: 26903, Stop: 28201, Start Num: 34

Candidate Starts for Zapner_37:

(Start: 34 @26903 has 60 MA's), (49, 26975), (57, 27023), (61, 27041), (69, 27095), (80, 27212), (82, 27215), (91, 27317), (97, 27374), (108, 27428), (116, 27491), (122, 27554), (123, 27557), (131, 27671), (132, 27683), (138, 27746), (146, 27842), (159, 27959), (161, 27992), (163, 28004), (182, 28109), (187, 28142), (192, 28181),

Gene: Zemanar_44 Start: 40552, Stop: 42288, Start Num: 34

Candidate Starts for Zemanar_44:

(Start: 34 @40552 has 60 MA's), (47, 40627), (51, 40645), (54, 40666), (57, 40681), (68, 40753), (74, 40846), (81, 40918), (84, 40942), (92, 41029), (93, 41044), (114, 41227), (121, 41308), (125, 41389), (128, 41413), (129, 41416), (134, 41458), (145, 41569), (146, 41578), (148, 41587), (156, 41683), (159, 41722), (166, 41791), (175, 41815), (180, 41842), (184, 41872), (198, 41950), (201, 41974), (203, 41992), (204, 41995), (207, 42019), (210, 42064), (219, 42148),

Gene: Zizzle_30 Start: 26445, Stop: 27641, Start Num: 39

Candidate Starts for Zizzle_30:

(Start: 39 @26445 has 35 MA's), (56, 26529), (78, 26679), (86, 26733), (95, 26826), (108, 26874), (119, 26985), (122, 27006), (146, 27288), (149, 27309), (159, 27405), (163, 27450), (171, 27495), (177, 27519), (186, 27579),