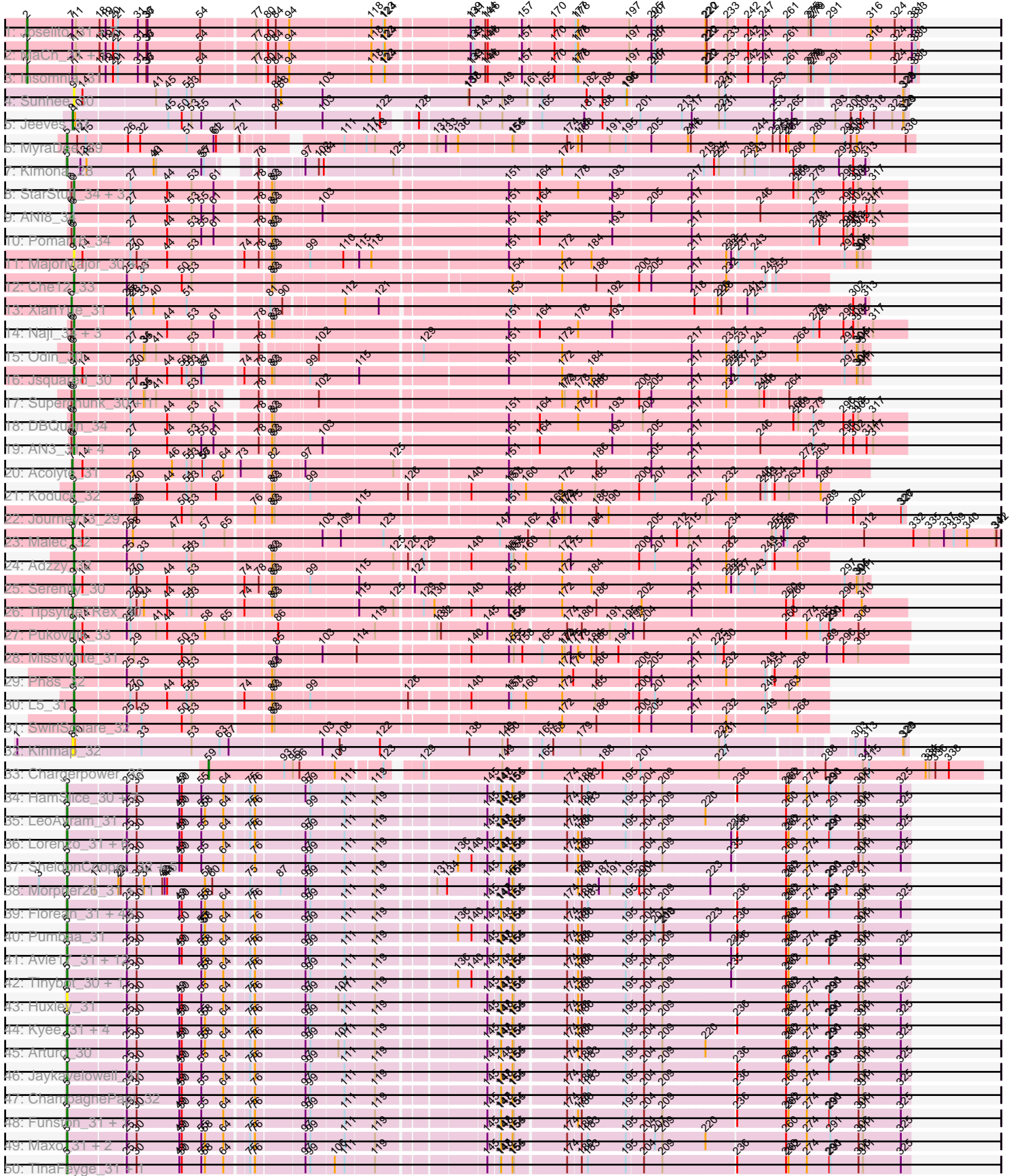


Pham 294426



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 294426 Report

This analysis was run 04/18/26 on database version 643.

Pham number 294426 has 213 members, 19 are drafts.

Phages represented in each track:

- Track 1 : Joselito_31, Munch_31, Flaverint_31, Lucivia_31, Jabith_31, Aneem_31, Bowtie_31, Gilberta_31
- Track 2 : MaCh_31, Bachome_31
- Track 3 : Insomnia_31
- Track 4 : Sunhee_30
- Track 5 : Jeeves_31
- Track 6 : MyraDee_29
- Track 7 : Kimona_28
- Track 8 : StarStuff_34, Tomathan_34, Duplo_34, Kerberos_34
- Track 9 : ANI8_34
- Track 10 : Pomar16_34
- Track 11 : MajorMajor_30, Bradman_30, Quokka_29
- Track 12 : Che12_33
- Track 13 : XianYue_31
- Track 14 : Naji_34, D29_31, D32_34, Travvers_34
- Track 15 : Odin_30
- Track 16 : Jsquared_30
- Track 17 : Superchunk_30, Caraxes_30
- Track 18 : DBQu4n_34
- Track 19 : AN3_31, AN9_34, VA6_31, C3_29, VC3_34
- Track 20 : Acolyte_31
- Track 21 : Koduck_32
- Track 22 : Journey13_29
- Track 23 : Malec_32
- Track 24 : Adzzy_32
- Track 25 : Serenity_30
- Track 26 : TipsytheTRex_30
- Track 27 : Pukovnik_33
- Track 28 : MissWhite_31
- Track 29 : Ph8s_32
- Track 30 : L5_31
- Track 31 : SwirlSquare_32
- Track 32 : Kinmap_32
- Track 33 : Chargerpower_32
- Track 34 : HamSlice_30, Pipcraft_31, Eapen_31, Citius_31, LappelDuVide_31, Lunsford_32, TroyPia_31, Relief_31
- Track 35 : LeoAvram_31

- Track 36 : Lorenzo_31, ICleared_31, Mazhar510_31, Mayonnaise_31, Sultana_31, PeterPeter_31, Shaka_31
- Track 37 : SheldonCooper_32, BangNhom_31, Cerulean_32, LHTSCC_32, Obama12_32, Eagle_30
- Track 38 : Morpher26_31, Perplexer_31, Datway_31, PetiteSangsue_31, Badger_31, Backyardigan_31, Xena_31, Bumblebee11_31, AbbysRanger_31, Katalie136_31, Cici_31, Achebe_30
- Track 39 : Florean_31, Bartimeaus_31, Dhanush_31, Taquarus_31, CentreCat_31, Commander_31, Thanksgivukkah_31, Ruin_31, TygerBlood_31, SteMason_30, Albee_31, RockieBear_30, Flux_31, Lemur_31, LittleB_31, Chaph_31, Medusa_31, SenorClean_31, Baby16_31, Druantia_31, Bombshell_31, TiroTheta9_31, Sabertooth_31, Blackmoor_31, Skipitt_31, KekoraPapaka_30, Kingmustik0402_31, JoongJeon_31, Holli_31, Melvin_31, Eros_31, Peaches_31, Wilbur_31, Romney_31, Clarenza_31, Millski_30, Burger_30, Deano_31, YoSam321_31, Roosevelt_31, Wizard007_31, Phelipe_31, JetBlade_31, Connomayer_31
- Track 40 : Pumbaa_31
- Track 41 : Avle17_31, Gadost_31, Alberto7_32, Bruiser_30, Koreni_30, Nemo27_31, Cocoaberry_31, Caelakin_31, Wander_31, Houdini22_31, Maverick_31, Phacado_31, Spino_31
- Track 42 : Tinybot_30, Rosa24_30
- Track 43 : Huxley_31
- Track 44 : Kyee_31, Annyong_31, BubbleTrouble_31, MeeZee_31, KFPoly_31
- Track 45 : Arturo_30
- Track 46 : Jaykayelowell_31
- Track 47 : ChampagnePapi_32
- Track 48 : Funston_31, Eris_30
- Track 49 : Maxo_31, Sparxx_31, Kampy_31
- Track 50 : TinaFeyge_31, NorthStar_31
- Track 51 : Phighter1804_31, DirtyDunning_31, Ulysses_30, LochMonster_31, Iracema64_32
- Track 52 : Wile_31
- Track 53 : AvatarAhPeg_32, Stink_32, Miramae_31
- Track 54 : Camperdownii_30
- Track 55 : Cindaradix_30
- Track 56 : Mundrea_31
- Track 57 : LittleGuy_31
- Track 58 : NotAPhaseMom_31
- Track 59 : BellusTerra_31, Nebs_31, Polymorphads_31, Eurydice_31, Ohfah_31
- Track 60 : Kremtemulon_31
- Track 61 : Kratak_31
- Track 62 : Phontbonne_31
- Track 63 : Iceman_32
- Track 64 : Morrow_31
- Track 65 : Scamp_31
- Track 66 : Shygu2_31
- Track 67 : Koan_31
- Track 68 : OKaNui_32
- Track 69 : Abdiel_30
- Track 70 : Nyxis_31
- Track 71 : Happiness_31
- Track 72 : Noelle_31
- Track 73 : Cintron_31
- Track 74 : Palestino_30

- Track 75 : Broseidon_31
- Track 76 : Yecey3_32
- Track 77 : DreamTeam1_31
- Track 78 : Minispark_29, Rahalelujah_30, WorldCup_29, Bellris_29, CogOmlette_29
- Track 79 : Charm_31
- Track 80 : SheaKeira_31
- Track 81 : Celestiallunch_31, MegTheThird_31
- Track 82 : Toaka_30
- Track 83 : Klodlith_31
- Track 84 : Nergal_25

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

The start number called the most often in the published annotations is 5, it was called in 142 of the 194 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AbbysRanger_31, Abdiel_30, Achebe_30, Albee_31, Alberto7_32, Annyong_31, Arturo_30, AvatarAhPeg_32, Avle17_31, Baby16_31, Backyardigan_31, Badger_31, BangNhom_31, Bartimeaus_31, BellusTerra_31, Blackmoor_31, Bombshell_31, Broseidon_31, Bruiser_30, BubbleTrouble_31, Bumblebee11_31, Burger_30, Caelakin_31, Camperdownii_30, CentreCat_31, Cerulean_32, ChampagnePapi_32, Chaph_31, Cici_31, Cindaradix_30, Cintron_31, Citius_31, Clarenza_31, Cocoaberry_31, Commander_31, Connomayer_31, Datway_31, Deano_31, Dhanush_31, DirtyDunning_31, Druantia_31, Eagle_30, Eapen_31, Eris_30, Eros_31, Eurydice_31, Floean_31, Flux_31, Funston_31, Gadost_31, HamSlice_30, Happiness_31, Holli_31, Houdini22_31, Huxley_31, ICleared_31, Iceman_32, Iracema64_32, Jaykayelowell_31, JetBlade_31, JoongJeon_31, KFPoly_31, Kampy_31, Katalie136_31, KekoraPapaka_30, Kimona_28, Kingmustik0402_31, Koan_31, Koreni_30, Kratark_31, Kremtemulon_31, Kyee_31, LHTSCC_32, LappelDuVide_31, Lemur_31, LeoAvram_31, LittleB_31, LittleGuy_31, LochMonster_31, Lorenzo_31, Lunsford_32, Maverick_31, Maxo_31, Mayonnaise_31, Mazhar510_31, Medusa_31, MeeZee_31, Melvin_31, Millski_30, Miramae_31, Morpher26_31, Morrow_31, Mundrea_31, MyraDee_29, Nebs_31, Nemo27_31, Noelle_31, NorthStar_31, NotAPhaseMom_31, Nyxis_31, OKaNui_32, Obama12_32, Ohfah_31, Palestino_30, Peaches_31, Perplexer_31, PeterPeter_31, PetiteSangsue_31, Phacado_31, Phelipe_31, Phighter1804_31, Phontbonne_31, Pipcraft_31, Polymorphads_31, Pumbaa_31, Relief_31, RockieBear_30, Romney_31, Roosevelt_31, Rosa24_30, Ruin_31, Sabertooth_31, Scamp_31, SeniorClean_31, Shaka_31, SheldonCooper_32, Shygu2_31, Skipitt_31, Sparxx_31, Spino_31, SteMason_30, Stink_32, Sultana_31, Taquarus_31, Thanksgivukkah_31, TinaFeyge_31, Tinybot_30, TiroTheta9_31, TroyPia_31, TygerBlood_31, Ulysses_30, Wander_31, Wilbur_31, Wile_31, Wizard007_31, Xena_31, YoSam321_31,

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

-

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

- AN3_31, AN9_34, ANI8_34, Acolyte_31, Adzzy_32, Aneem_31, Bachome_31, Bellris_29, Bowtie_31, Bradman_30, C3_29, Caraxes_30, Celestiallunch_31,

Chargerpower_32, Charm_31, Che12_33, CogOmlette_29, D29_31, D32_34, DBQu4n_34, DreamTeam1_31, Duplo_34, Flaverint_31, Gilberta_31, Insomnia_31, Jabith_31, Jeeves_31, Joselito_31, Journey13_29, Jsquared_30, Kerberos_34, Kinmap_32, Klodlith_31, Koduck_32, L5_31, Lucivia_31, MaCh_31, MajorMajor_30, Malec_32, MegTheThird_31, Minispark_29, MissWhite_31, Munch_31, Naji_34, Nergal_25, Odin_30, Ph8s_32, Pomar16_34, Pukovnik_33, Quokka_29, Rahalelujah_30, Serenity_30, SheaKeira_31, StarStuff_34, Sunhee_30, Superchunk_30, SwirlSquare_32, TipsytheTRex_30, Toaka_30, Tomathan_34, Travvers_34, VA6_31, VC3_34, WorldCup_29, XianYue_31, Yecey3_32,

Summary by start number:

Start 2:

- Found in 11 of 213 (5.2%) of genes in pham
- Manual Annotations of this start: 11 of 194
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aneem_31 (A11), Bachome_31 (A11), Bowtie_31 (A11), Flaverint_31 (A11), Gilberta_31 (A11), Insomnia_31 (A11), Jabith_31 (A11), Joselito_31 (A11), Lucivia_31 (A11), MaCh_31 (A11), Munch_31 (A11),

Start 5:

- Found in 147 of 213 (69.0%) of genes in pham
- Manual Annotations of this start: 142 of 194
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AbbysRanger_31 (A4), Abdiel_30 (A4), Achebe_30 (A4), Albee_31 (A4), Alberto7_32 (A4), Annyong_31 (A4), Arturo_30 (A4), AvatarAhPeg_32 (A4), Avle17_31 (A4), Baby16_31 (A4), Backyardigan_31 (A4), Badger_31 (A4), BangNhom_31 (A4), Bartimeaus_31 (A4), BellusTerra_31 (A4), Blackmoor_31 (A4), Bombshell_31 (A4), Broseidon_31 (A4), Bruiser_30 (A4), BubbleTrouble_31 (A4), Bumblebee11_31 (A4), Burger_30 (A4), Caelakin_31 (A4), Camperdownii_30 (A4), CentreCat_31 (A4), Cerulean_32 (A4), ChampagnePapi_32 (A4), Chaph_31 (A4), Cici_31 (A4), Cindaradix_30 (A4), Cintron_31 (A4), Citius_31 (A4), Clarenza_31 (A4), Cocoaberry_31 (A4), Commander_31 (A4), Connomayer_31 (A4), Datway_31 (A4), Deano_31 (A4), Dhanush_31 (A4), DirtyDunning_31 (A4), Druantia_31 (A4), Eagle_30 (A4), Eapen_31 (A4), Eris_30 (A4), Eros_31 (A4), Eurydice_31 (A4), Florean_31 (A4), Flux_31 (A4), Funston_31 (A4), Gadost_31 (A4), HamSlice_30 (A4), Happiness_31 (A4), Holli_31 (A4), Houdini22_31 (A4), Huxley_31 (A4), ICleared_31 (A4), Iceman_32 (A4), Iracema64_32 (A4), Jaykayelowell_31 (A4), JetBlade_31 (A4), JoongJeon_31 (A4), KFPoly_31 (A4), Kamy_31 (A4), Katalie136_31 (A4), KekoraPapaka_30 (A4), Kimona_28 (A19), Kingmustik0402_31 (A4), Koan_31 (A4), Koreni_30 (A4), Kratark_31 (A4), Kremtemulon_31 (A4), Kyee_31 (A4), LHTSCC_32 (A4), LappelDuVide_31 (A4), Lemur_31 (A4), LeoAvram_31 (A4), LittleB_31 (A4), LittleGuy_31 (A4), LochMonster_31 (A4), Lorenzo_31 (A4), Lunsford_32 (A4), Maverick_31 (A4), Maxo_31 (A4), Mayonnaise_31 (A4), Mazhar510_31 (A4), Medusa_31 (A4), MeeZee_31 (A4), Melvin_31 (A4), Millski_30 (A4), Miramae_31 (A4), Morpher26_31 (A4), Morrow_31 (A4), Mundrea_31 (A4), MyraDee_29 (A18), Nebs_31 (A4), Nemo27_31 (A4), Noelle_31 (A4), NorthStar_31 (A4), NotAPhaseMom_31 (A4), Nyxis_31 (A4), OKaNui_32 (A4), Obama12_32 (A4), Ohfah_31 (A4), Palestino_30 (A4), Peaches_31 (A4), Perplexer_31 (A4), PeterPeter_31 (A4), PetiteSangsue_31 (A4), Phacado_31 (A4), Phelipe_31 (A4), Phighter1804_31 (A4), Phontbonne_31 (A4), Pipcraft_31 (A4), Polymorphads_31 (A4), Pumbaa_31 (A4), Relief_31 (A4), RockieBear_30 (A4),

Romney_31 (A4), Roosevelt_31 (A4), Rosa24_30 (A4), Ruin_31 (A4), Sabertooth_31 (A4), Scamp_31 (A4), SenorClean_31 (A4), Shaka_31 (A4), SheldonCooper_32 (A4), Shygu2_31 (A4), Skipitt_31 (A4), Sparxx_31 (A4), Spino_31 (A4), SteMason_30 (A4), Stink_32 (A4), Sultana_31 (A4), Taquarus_31 (A4), Thanksgivukkah_31 (A4), TinaFeyge_31 (A4), Tinybot_30 (A4), TiroTheta9_31 (A4), TroyPia_31 (A4), TygerBlood_31 (A4), Ulysses_30 (A4), Wander_31 (A4), Wilbur_31 (A4), Wile_31 (A4), Wizard007_31 (A4), Xena_31 (A4), YoSam321_31 (A4),

Start 6:

- Found in 21 of 213 (9.9%) of genes in pham
- Manual Annotations of this start: 3 of 194
- Called 14.3% of time when present
- Phage (with cluster) where this start called: ANI8_34 (A2), XianYue_31 (A2), Yecey3_32 (A9),

Start 7:

- Found in 12 of 213 (5.6%) of genes in pham
- Manual Annotations of this start: 1 of 194
- Called 8.3% of time when present
- Phage (with cluster) where this start called: Acolyte_31 (A2),

Start 8:

- Found in 16 of 213 (7.5%) of genes in pham
- Manual Annotations of this start: 8 of 194
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bellris_29 (A9), Celestiallunch_31 (A9), Charm_31 (A9), CogOmlette_29 (A9), DreamTeam1_31 (A9), Jeeves_31 (A14), Kinmap_32 (A21), Klodlith_31 (A9), Malec_32 (A2), MegTheThird_31 (A9), Minispark_29 (A9), Rahalelujah_30 (A9), SheaKeira_31 (A9), TopsytheTRex_30 (A2), Toaka_30 (A9), WorldCup_29 (A9),

Start 9:

- Found in 34 of 213 (16.0%) of genes in pham
- Manual Annotations of this start: 27 of 194
- Called 97.1% of time when present
- Phage (with cluster) where this start called: AN3_31 (A2), AN9_34 (A2), Adzzy_32 (A2), Bradman_30 (A2), C3_29 (A2), Caraxes_30 (A2), Che12_33 (A2), D29_31 (A2), D32_34 (A2), DBQu4n_34 (A2), Duplo_34 (A2), Journey13_29 (A2), Jsquared_30 (A2), Kerberos_34 (A2), Koduck_32 (A2), L5_31 (A2), MajorMajor_30 (A2), MissWhite_31 (A2), Naji_34 (A2), Odin_30 (A2), Ph8s_32 (A2), Pomar16_34 (A2), Pukovnik_33 (A2), Quokka_29 (A2), Serenity_30 (A2), StarStuff_34 (A2), Sunhee_30 (A14), Superchunk_30 (A2), SwirlSquare_32 (A2), Tomathan_34 (A2), Travvers_34 (A2), VA6_31 (A2), VC3_34 (A2),

Start 30:

- Found in 154 of 213 (72.3%) of genes in pham
- Manual Annotations of this start: 1 of 194
- Called 0.6% of time when present
- Phage (with cluster) where this start called: Nergal_25 (AG),

Start 59:

- Found in 1 of 213 (0.5%) of genes in pham
- Manual Annotations of this start: 1 of 194

- Called 100.0% of time when present
- Phage (with cluster) where this start called: Chargerpower_32 (A22),

Summary by clusters:

There are 10 clusters represented in this pham: A14, A22, A11, AG, A21, A19, A18, A2, A4, A9,

Info for manual annotations of cluster A11:

- Start number 2 was manually annotated 11 times for cluster A11.

Info for manual annotations of cluster A14:

- Start number 8 was manually annotated 1 time for cluster A14.

Info for manual annotations of cluster A18:

- Start number 5 was manually annotated 1 time for cluster A18.

Info for manual annotations of cluster A19:

- Start number 5 was manually annotated 1 time for cluster A19.

Info for manual annotations of cluster A2:

- Start number 6 was manually annotated 2 times for cluster A2.
- Start number 7 was manually annotated 1 time for cluster A2.
- Start number 8 was manually annotated 2 times for cluster A2.
- Start number 9 was manually annotated 27 times for cluster A2.

Info for manual annotations of cluster A22:

- Start number 59 was manually annotated 1 time for cluster A22.

Info for manual annotations of cluster A4:

- Start number 5 was manually annotated 140 times for cluster A4.

Info for manual annotations of cluster A9:

- Start number 6 was manually annotated 1 time for cluster A9.
- Start number 8 was manually annotated 5 times for cluster A9.

Info for manual annotations of cluster AG:

- Start number 30 was manually annotated 1 time for cluster AG.

Gene Information:

Gene: AN3_31 Start: 22715, Stop: 24571, Start Num: 9

Candidate Starts for AN3_31:

(Start: 6 @22709 has 3 MA's), (Start: 9 @22715 has 27 MA's), (27, 22835), (44, 22925), (53, 22985), (55, 23009), (61, 23036), (78, 23129), (82, 23153), (83, 23159), (103, 23261), (151, 23666), (164, 23735), (193, 23903), (205, 23990), (217, 24086), (246, 24236), (279, 24350), (296, 24419), (302, 24443), (314, 24473), (317, 24488),

Gene: AN9_34 Start: 22703, Stop: 24556, Start Num: 9

Candidate Starts for AN9_34:

(Start: 6 @22697 has 3 MA's), (Start: 9 @22703 has 27 MA's), (27, 22823), (44, 22913), (53, 22973), (55, 22997), (61, 23024), (78, 23117), (82, 23141), (83, 23147), (103, 23249), (151, 23654), (164, 23723), (193, 23891), (205, 23978), (217, 24074), (246, 24221), (279, 24335), (296, 24404), (302, 24428), (314, 24458), (317, 24473),

Gene: ANI8_34 Start: 22697, Stop: 24556, Start Num: 6

Candidate Starts for ANI8_34:

(Start: 6 @22697 has 3 MA's), (Start: 9 @22703 has 27 MA's), (27, 22823), (44, 22913), (53, 22973), (55, 22997), (61, 23024), (78, 23117), (82, 23141), (83, 23147), (103, 23249), (151, 23654), (164, 23723), (193, 23891), (205, 23978), (217, 24074), (246, 24221), (279, 24335), (296, 24404), (302, 24428), (314, 24458), (317, 24473),

Gene: AbbysRanger_31 Start: 22986, Stop: 24845, Start Num: 5

Candidate Starts for AbbysRanger_31:

(3, 22926), (Start: 5 @22986 has 142 MA's), (17, 23052), (22, 23097), (24, 23103), (Start: 30 @23136 has 1 MA's), (34, 23154), (42, 23199), (43, 23205), (44, 23211), (58, 23304), (60, 23319), (75, 23391), (87, 23451), (97, 23502), (99, 23514), (111, 23592), (119, 23661), (131, 23784), (134, 23808), (145, 23889), (151, 23934), (154, 23943), (155, 23946), (178, 24075), (180, 24084), (187, 24126), (191, 24153), (195, 24189), (200, 24216), (204, 24228), (223, 24384), (260, 24558), (262, 24564), (274, 24609), (290, 24660), (291, 24663), (298, 24699), (311, 24735),

Gene: Abdiel_30 Start: 22957, Stop: 24813, Start Num: 5

Candidate Starts for Abdiel_30:

(Start: 5 @22957 has 142 MA's), (25, 23083), (Start: 30 @23107 has 1 MA's), (49, 23212), (50, 23218), (55, 23266), (58, 23275), (64, 23317), (75, 23362), (76, 23368), (99, 23485), (111, 23563), (119, 23632), (145, 23860), (148, 23887), (154, 23914), (155, 23917), (174, 24022), (180, 24052), (183, 24067), (195, 24157), (204, 24196), (209, 24241), (260, 24526), (262, 24532), (274, 24577), (285, 24610), (290, 24628), (291, 24631), (298, 24667), (311, 24703),

Gene: Achebe_30 Start: 22969, Stop: 24828, Start Num: 5

Candidate Starts for Achebe_30:

(3, 22909), (Start: 5 @22969 has 142 MA's), (17, 23035), (22, 23080), (24, 23086), (Start: 30 @23119 has 1 MA's), (34, 23137), (42, 23182), (43, 23188), (44, 23194), (58, 23287), (60, 23302), (75, 23374), (87, 23434), (97, 23485), (99, 23497), (111, 23575), (119, 23644), (131, 23767), (134, 23791), (145, 23872), (151, 23917), (154, 23926), (155, 23929), (178, 24058), (180, 24067), (187, 24109), (191, 24136), (195, 24172), (200, 24199), (204, 24211), (223, 24367), (260, 24541), (262, 24547), (274, 24592), (290, 24643), (291, 24646), (298, 24682), (311, 24718),

Gene: Acolyte_31 Start: 23339, Stop: 25057, Start Num: 7

Candidate Starts for Acolyte_31:

(Start: 7 @23339 has 1 MA's), (14, 23363), (28, 23468), (46, 23564), (51, 23600), (53, 23612), (56, 23639), (57, 23642), (64, 23687), (73, 23717), (82, 23768), (97, 23822), (125, 24026), (151, 24263), (186, 24461), (205, 24584), (217, 24680), (272, 24908), (283, 24941),

Gene: Adzzy_32 Start: 21442, Stop: 23085, Start Num: 9

Candidate Starts for Adzzy_32:

(Start: 9 @21442 has 27 MA's), (25, 21553), (33, 21589), (51, 21700), (53, 21712), (82, 21880), (83, 21886), (125, 22150), (126, 22174), (129, 22201), (140, 22288), (151, 22372), (153, 22378), (155, 22384), (160, 22414), (172, 22498), (175, 22519), (200, 22672), (207, 22711), (217, 22798), (232, 22870), (249, 22957), (254, 22966), (268, 23014),

Gene: Albee_31 Start: 22960, Stop: 24816, Start Num: 5

Candidate Starts for Albee_31:

(Start: 5 @22960 has 142 MA's), (25, 23086), (Start: 30 @23110 has 1 MA's), (49, 23215), (50, 23221), (55, 23269), (58, 23278), (64, 23320), (75, 23365), (76, 23371), (97, 23476), (99, 23488), (111, 23566), (119, 23635), (145, 23863), (147, 23887), (148, 23890), (154, 23917), (155, 23920), (174, 24025), (180, 24055), (183, 24070), (195, 24160), (204, 24199), (209, 24244), (236, 24412), (260, 24529), (262, 24535), (274, 24580), (290, 24631), (291, 24634), (306, 24697), (311, 24706), (325, 24793),

Gene: Alberto7_32 Start: 23262, Stop: 25118, Start Num: 5

Candidate Starts for Alberto7_32:

(Start: 5 @23262 has 142 MA's), (25, 23388), (Start: 30 @23412 has 1 MA's), (49, 23517), (50, 23523), (55, 23571), (58, 23580), (64, 23622), (75, 23667), (76, 23673), (97, 23778), (99, 23790), (111, 23868), (119, 23937), (145, 24165), (147, 24189), (148, 24192), (154, 24219), (155, 24222), (174, 24327), (178, 24348), (180, 24357), (195, 24462), (204, 24501), (209, 24546), (235, 24708), (236, 24714), (260, 24831), (262, 24837), (274, 24882), (290, 24933), (291, 24936), (306, 24999), (311, 25008), (325, 25095),

Gene: Aneem_31 Start: 23397, Stop: 25388, Start Num: 2

Candidate Starts for Aneem_31:

(Start: 2 @23397 has 11 MA's), (Start: 7 @23508 has 1 MA's), (11, 23517), (18, 23574), (19, 23589), (20, 23607), (21, 23619), (31, 23667), (36, 23685), (37, 23688), (54, 23808), (77, 23922), (80, 23943), (84, 23961), (94, 23994), (118, 24177), (123, 24207), (124, 24210), (139, 24384), (141, 24390), (144, 24414), (146, 24420), (157, 24495), (170, 24558), (177, 24600), (178, 24606), (197, 24729), (205, 24777), (207, 24786), (220, 24903), (222, 24906), (233, 24948), (242, 24990), (247, 25026), (261, 25080), (275, 25131), (276, 25137), (279, 25143), (291, 25185), (316, 25275), (324, 25332), (331, 25371), (333, 25380),

Gene: Annyong_31 Start: 22961, Stop: 24817, Start Num: 5

Candidate Starts for Annyong_31:

(Start: 5 @22961 has 142 MA's), (25, 23087), (Start: 30 @23111 has 1 MA's), (49, 23216), (50, 23222), (55, 23270), (58, 23279), (64, 23321), (75, 23366), (76, 23372), (97, 23477), (99, 23489), (111, 23567), (119, 23636), (145, 23864), (147, 23888), (148, 23891), (154, 23918), (155, 23921), (174, 24026), (178, 24047), (180, 24056), (195, 24161), (204, 24200), (209, 24245), (236, 24413), (260, 24530), (262, 24536), (274, 24581), (290, 24632), (291, 24635), (306, 24698), (311, 24707), (325, 24794),

Gene: Arturo_30 Start: 23069, Stop: 24925, Start Num: 5

Candidate Starts for Arturo_30:

(Start: 5 @23069 has 142 MA's), (25, 23195), (Start: 30 @23219 has 1 MA's), (49, 23324), (50, 23330), (55, 23378), (58, 23387), (64, 23429), (75, 23474), (76, 23480), (97, 23585), (99, 23597), (107, 23660), (111, 23675), (119, 23744), (145, 23972), (147, 23996), (148, 23999), (154, 24026), (155, 24029), (174, 24134), (178, 24155), (180, 24164), (195, 24269), (204, 24308), (209, 24353), (220, 24452), (260, 24638), (262, 24644), (274, 24689), (290, 24740), (291, 24743), (306, 24806), (311, 24815), (325, 24902),

Gene: AvatarAhPeg_32 Start: 23239, Stop: 25098, Start Num: 5

Candidate Starts for AvatarAhPeg_32:

(Start: 5 @23239 has 142 MA's), (17, 23305), (Start: 30 @23389 has 1 MA's), (34, 23407), (42, 23452), (50, 23500), (58, 23557), (64, 23599), (76, 23650), (79, 23671), (87, 23704), (97, 23755), (99, 23767), (106, 23821), (111, 23845), (119, 23914), (145, 24142), (148, 24169), (154, 24196), (155, 24199), (174, 24307), (178, 24328), (180, 24337), (191, 24406), (195, 24442), (204, 24481), (211, 24550), (235, 24688), (260, 24811), (262, 24817), (306, 24979), (311, 24988),

Gene: Avle17_31 Start: 22960, Stop: 24816, Start Num: 5

Candidate Starts for Avle17_31:

(Start: 5 @22960 has 142 MA's), (25, 23086), (Start: 30 @23110 has 1 MA's), (49, 23215), (50, 23221), (55, 23269), (58, 23278), (64, 23320), (75, 23365), (76, 23371), (97, 23476), (99, 23488), (111, 23566), (119, 23635), (145, 23863), (147, 23887), (148, 23890), (154, 23917), (155, 23920), (174, 24025), (178, 24046), (180, 24055), (195, 24160), (204, 24199), (209, 24244), (235, 24406), (236, 24412), (260, 24529), (262, 24535), (274, 24580), (290, 24631), (291, 24634), (306, 24697), (311, 24706), (325, 24793),

Gene: Baby16_31 Start: 22969, Stop: 24825, Start Num: 5

Candidate Starts for Baby16_31:

(Start: 5 @22969 has 142 MA's), (25, 23095), (Start: 30 @23119 has 1 MA's), (49, 23224), (50, 23230), (55, 23278), (58, 23287), (64, 23329), (75, 23374), (76, 23380), (97, 23485), (99, 23497), (111, 23575), (119, 23644), (145, 23872), (147, 23896), (148, 23899), (154, 23926), (155, 23929), (174, 24034), (180, 24064), (183, 24079), (195, 24169), (204, 24208), (209, 24253), (236, 24421), (260, 24538), (262, 24544), (274, 24589), (290, 24640), (291, 24643), (306, 24706), (311, 24715), (325, 24802),

Gene: Bachome_31 Start: 23388, Stop: 25376, Start Num: 2

Candidate Starts for Bachome_31:

(Start: 2 @23388 has 11 MA's), (Start: 7 @23499 has 1 MA's), (11, 23508), (18, 23565), (19, 23580), (20, 23598), (21, 23610), (31, 23658), (36, 23676), (37, 23679), (54, 23799), (77, 23913), (80, 23934), (84, 23952), (94, 23985), (118, 24168), (123, 24198), (124, 24201), (139, 24375), (141, 24381), (144, 24405), (146, 24411), (157, 24486), (170, 24549), (177, 24591), (178, 24597), (197, 24720), (205, 24768), (207, 24777), (220, 24894), (222, 24897), (233, 24939), (242, 24981), (247, 25017), (261, 25071), (316, 25263), (324, 25320), (331, 25359), (333, 25368),

Gene: Backyardigan_31 Start: 22981, Stop: 24840, Start Num: 5

Candidate Starts for Backyardigan_31:

(3, 22921), (Start: 5 @22981 has 142 MA's), (17, 23047), (22, 23092), (24, 23098), (Start: 30 @23131 has 1 MA's), (34, 23149), (42, 23194), (43, 23200), (44, 23206), (58, 23299), (60, 23314), (75, 23386), (87, 23446), (97, 23497), (99, 23509), (111, 23587), (119, 23656), (131, 23779), (134, 23803), (145, 23884), (151, 23929), (154, 23938), (155, 23941), (178, 24070), (180, 24079), (187, 24121), (191, 24148), (195, 24184), (200, 24211), (204, 24223), (223, 24379), (260, 24553), (262, 24559), (274, 24604), (290, 24655), (291, 24658), (298, 24694), (311, 24730),

Gene: Badger_31 Start: 22970, Stop: 24829, Start Num: 5

Candidate Starts for Badger_31:

(3, 22910), (Start: 5 @22970 has 142 MA's), (17, 23036), (22, 23081), (24, 23087), (Start: 30 @23120 has 1 MA's), (34, 23138), (42, 23183), (43, 23189), (44, 23195), (58, 23288), (60, 23303), (75, 23375), (87, 23435), (97, 23486), (99, 23498), (111, 23576), (119, 23645), (131, 23768), (134, 23792), (145, 23873), (151, 23918), (154, 23927), (155, 23930), (178, 24059), (180, 24068), (187, 24110), (191, 24137), (195, 24173), (200, 24200), (204, 24212), (223, 24368), (260, 24542), (262, 24548), (274, 24593), (290, 24644), (291, 24647), (298, 24683), (311, 24719),

Gene: BangNhom_31 Start: 23274, Stop: 25130, Start Num: 5

Candidate Starts for BangNhom_31:

(Start: 5 @23274 has 142 MA's), (25, 23400), (Start: 30 @23424 has 1 MA's), (49, 23529), (50, 23535), (55, 23583), (64, 23634), (76, 23685), (97, 23790), (99, 23802), (111, 23880), (119, 23949), (136, 24117), (140, 24147), (145, 24177), (147, 24201), (148, 24204), (154, 24231), (155, 24234), (174, 24339), (178, 24360), (180, 24369), (204, 24513), (209, 24558), (235, 24720), (260, 24843), (274, 24894), (306, 25011), (311, 25020), (325, 25107),

Gene: Bartimeaus_31 Start: 22960, Stop: 24816, Start Num: 5

Candidate Starts for Bartimeaus_31:

(Start: 5 @22960 has 142 MA's), (25, 23086), (Start: 30 @23110 has 1 MA's), (49, 23215), (50, 23221), (55, 23269), (58, 23278), (64, 23320), (75, 23365), (76, 23371), (97, 23476), (99, 23488), (111, 23566), (119, 23635), (145, 23863), (147, 23887), (148, 23890), (154, 23917), (155, 23920), (174, 24025), (180, 24055), (183, 24070), (195, 24160), (204, 24199), (209, 24244), (236, 24412), (260, 24529), (262, 24535), (274, 24580), (290, 24631), (291, 24634), (306, 24697), (311, 24706), (325, 24793),

Gene: Bellris_29 Start: 22236, Stop: 23978, Start Num: 8

Candidate Starts for Bellris_29:

(Start: 8 @22236 has 8 MA's), (10, 22242), (27, 22359), (34, 22392), (53, 22509), (57, 22539), (66, 22587), (69, 22596), (70, 22599), (91, 22686), (98, 22731), (105, 22758), (128, 22833), (135, 22911), (144, 22977), (165, 23103), (231, 23535), (238, 23580), (267, 23712), (303, 23853), (308, 23865), (319, 23904), (328, 23967),

Gene: BellusTerra_31 Start: 22957, Stop: 24813, Start Num: 5

Candidate Starts for BellusTerra_31:

(Start: 5 @22957 has 142 MA's), (25, 23083), (Start: 30 @23107 has 1 MA's), (49, 23212), (50, 23218), (55, 23266), (58, 23275), (64, 23317), (75, 23362), (76, 23368), (99, 23485), (111, 23563), (119, 23632), (145, 23860), (147, 23884), (148, 23887), (154, 23914), (155, 23917), (174, 24022), (180, 24052), (183, 24067), (195, 24157), (204, 24196), (207, 24223), (209, 24241), (220, 24340), (260, 24526), (274, 24577), (291, 24631), (306, 24694), (311, 24703), (325, 24790),

Gene: Blackmoor_31 Start: 22960, Stop: 24816, Start Num: 5

Candidate Starts for Blackmoor_31:

(Start: 5 @22960 has 142 MA's), (25, 23086), (Start: 30 @23110 has 1 MA's), (49, 23215), (50, 23221), (55, 23269), (58, 23278), (64, 23320), (75, 23365), (76, 23371), (97, 23476), (99, 23488), (111, 23566), (119, 23635), (145, 23863), (147, 23887), (148, 23890), (154, 23917), (155, 23920), (174, 24025), (180, 24055), (183, 24070), (195, 24160), (204, 24199), (209, 24244), (236, 24412), (260, 24529), (262, 24535), (274, 24580), (290, 24631), (291, 24634), (306, 24697), (311, 24706), (325, 24793),

Gene: Bombshell_31 Start: 22960, Stop: 24816, Start Num: 5

Candidate Starts for Bombshell_31:

(Start: 5 @22960 has 142 MA's), (25, 23086), (Start: 30 @23110 has 1 MA's), (49, 23215), (50, 23221), (55, 23269), (58, 23278), (64, 23320), (75, 23365), (76, 23371), (97, 23476), (99, 23488), (111, 23566), (119, 23635), (145, 23863), (147, 23887), (148, 23890), (154, 23917), (155, 23920), (174, 24025), (180, 24055), (183, 24070), (195, 24160), (204, 24199), (209, 24244), (236, 24412), (260, 24529), (262, 24535), (274, 24580), (290, 24631), (291, 24634), (306, 24697), (311, 24706), (325, 24793),

Gene: Bowtie_31 Start: 23397, Stop: 25388, Start Num: 2

Candidate Starts for Bowtie_31:

(Start: 2 @23397 has 11 MA's), (Start: 7 @23508 has 1 MA's), (11, 23517), (18, 23574), (19, 23589), (20, 23607), (21, 23619), (31, 23667), (36, 23685), (37, 23688), (54, 23808), (77, 23922), (80, 23943), (84, 23961), (94, 23994), (118, 24177), (123, 24207), (124, 24210), (139, 24384), (141, 24390), (144, 24414), (146, 24420), (157, 24495), (170, 24558), (177, 24600), (178, 24606), (197, 24729), (205, 24777), (207, 24786), (220, 24903), (222, 24906), (233, 24948), (242, 24990), (247, 25026), (261, 25080), (275, 25131), (276, 25137), (279, 25143), (291, 25185), (316, 25275), (324, 25332), (331, 25371), (333, 25380),

Gene: Bradman_30 Start: 21646, Stop: 23397, Start Num: 9

Candidate Starts for Bradman_30:

(Start: 9 @21646 has 27 MA's), (14, 21667), (27, 21766), (Start: 30 @21781 has 1 MA's), (44, 21856), (53, 21916), (74, 22027), (78, 22060), (82, 22084), (83, 22090), (99, 22162), (110, 22237), (115, 22270), (118, 22300), (151, 22588), (172, 22708), (184, 22777), (217, 23008), (232, 23083), (235, 23095), (237, 23104), (243, 23143), (297, 23338), (304, 23365), (305, 23368), (311, 23380),

Gene: Broseidon_31 Start: 22960, Stop: 24816, Start Num: 5

Candidate Starts for Broseidon_31:

(Start: 5 @22960 has 142 MA's), (25, 23086), (Start: 30 @23110 has 1 MA's), (49, 23215), (50, 23221), (55, 23269), (58, 23278), (64, 23320), (75, 23365), (76, 23371), (97, 23476), (99, 23488), (111, 23566), (119, 23635), (145, 23863), (147, 23887), (148, 23890), (154, 23917), (155, 23920), (174, 24025), (180, 24055), (183, 24070), (195, 24160), (199, 24172), (204, 24199), (209, 24244), (236, 24412), (260, 24529), (262, 24535), (274, 24580), (290, 24631), (291, 24634), (306, 24697), (311, 24706), (325, 24793),

Gene: Bruiser_30 Start: 22960, Stop: 24816, Start Num: 5

Candidate Starts for Bruiser_30:

(Start: 5 @22960 has 142 MA's), (25, 23086), (Start: 30 @23110 has 1 MA's), (49, 23215), (50, 23221), (55, 23269), (58, 23278), (64, 23320), (75, 23365), (76, 23371), (97, 23476), (99, 23488), (111, 23566), (119, 23635), (145, 23863), (147, 23887), (148, 23890), (154, 23917), (155, 23920), (174, 24025), (178, 24046), (180, 24055), (195, 24160), (204, 24199), (209, 24244), (235, 24406), (236, 24412), (260, 24529), (262, 24535), (274, 24580), (290, 24631), (291, 24634), (306, 24697), (311, 24706), (325, 24793),

Gene: BubbleTrouble_31 Start: 22960, Stop: 24816, Start Num: 5

Candidate Starts for BubbleTrouble_31:

(Start: 5 @22960 has 142 MA's), (25, 23086), (Start: 30 @23110 has 1 MA's), (49, 23215), (50, 23221), (55, 23269), (58, 23278), (64, 23320), (75, 23365), (76, 23371), (97, 23476), (99, 23488), (111, 23566), (119, 23635), (145, 23863), (147, 23887), (148, 23890), (154, 23917), (155, 23920), (174, 24025), (178, 24046), (180, 24055), (195, 24160), (204, 24199), (209, 24244), (236, 24412), (260, 24529), (262, 24535), (274, 24580), (290, 24631), (291, 24634), (306, 24697), (311, 24706), (325, 24793),

Gene: Bumblebee11_31 Start: 22972, Stop: 24831, Start Num: 5

Candidate Starts for Bumblebee11_31:

(3, 22912), (Start: 5 @22972 has 142 MA's), (17, 23038), (22, 23083), (24, 23089), (Start: 30 @23122 has 1 MA's), (34, 23140), (42, 23185), (43, 23191), (44, 23197), (58, 23290), (60, 23305), (75, 23377), (87, 23437), (97, 23488), (99, 23500), (111, 23578), (119, 23647), (131, 23770), (134, 23794), (145, 23875), (151, 23920), (154, 23929), (155, 23932), (178, 24061), (180, 24070), (187, 24112), (191, 24139), (195, 24175), (200, 24202), (204, 24214), (223, 24370), (260, 24544), (262, 24550), (274, 24595), (290, 24646), (291, 24649), (298, 24685), (311, 24721),

Gene: Burger_30 Start: 22960, Stop: 24816, Start Num: 5

Candidate Starts for Burger_30:

(Start: 5 @22960 has 142 MA's), (25, 23086), (Start: 30 @23110 has 1 MA's), (49, 23215), (50, 23221), (55, 23269), (58, 23278), (64, 23320), (75, 23365), (76, 23371), (97, 23476), (99, 23488), (111, 23566), (119, 23635), (145, 23863), (147, 23887), (148, 23890), (154, 23917), (155, 23920), (174, 24025), (180, 24055), (183, 24070), (195, 24160), (204, 24199), (209, 24244), (236, 24412), (260, 24529), (262, 24535), (274, 24580), (290, 24631), (291, 24634), (306, 24697), (311, 24706), (325, 24793),

Gene: C3_29 Start: 22703, Stop: 24556, Start Num: 9

Candidate Starts for C3_29:

(Start: 6 @22697 has 3 MA's), (Start: 9 @22703 has 27 MA's), (27, 22823), (44, 22913), (53, 22973), (55, 22997), (61, 23024), (78, 23117), (82, 23141), (83, 23147), (103, 23249), (151, 23654), (164, 23723), (193, 23891), (205, 23978), (217, 24074), (246, 24221), (279, 24335), (296, 24404), (302, 24428), (314, 24458), (317, 24473),

Gene: Caelakin_31 Start: 22960, Stop: 24816, Start Num: 5

Candidate Starts for Caelakin_31:

(Start: 5 @22960 has 142 MA's), (25, 23086), (Start: 30 @23110 has 1 MA's), (49, 23215), (50, 23221), (55, 23269), (58, 23278), (64, 23320), (75, 23365), (76, 23371), (97, 23476), (99, 23488), (111, 23566), (119, 23635), (145, 23863), (147, 23887), (148, 23890), (154, 23917), (155, 23920), (174, 24025), (178, 24046), (180, 24055), (195, 24160), (204, 24199), (209, 24244), (235, 24406), (236, 24412), (260, 24529), (262, 24535), (274, 24580), (290, 24631), (291, 24634), (306, 24697), (311, 24706), (325, 24793),

Gene: Camperdownii_30 Start: 22579, Stop: 24435, Start Num: 5

Candidate Starts for Camperdownii_30:

(Start: 5 @22579 has 142 MA's), (25, 22705), (Start: 30 @22729 has 1 MA's), (49, 22834), (50, 22840), (55, 22888), (64, 22939), (76, 22990), (97, 23095), (99, 23107), (111, 23185), (119, 23254), (136, 23422), (140, 23452), (145, 23482), (148, 23509), (154, 23536), (155, 23539), (174, 23644), (178, 23665), (180, 23674), (195, 23779), (204, 23818), (207, 23845), (209, 23863), (210, 23866), (223, 23974), (236, 24031), (260, 24148), (262, 24154), (306, 24316), (311, 24325),

Gene: Caraxes_30 Start: 21397, Stop: 22950, Start Num: 9

Candidate Starts for Caraxes_30:

(Start: 6 @21391 has 3 MA's), (Start: 9 @21397 has 27 MA's), (27, 21517), (34, 21550), (35, 21553), (41, 21580), (53, 21667), (78, 21754), (102, 21856), (172, 22384), (173, 22390), (178, 22420), (184, 22453), (186, 22465), (200, 22558), (205, 22588), (217, 22684), (232, 22756), (245, 22822), (248, 22834), (264, 22879),

Gene: Celestiallunch_31 Start: 22321, Stop: 24066, Start Num: 8

Candidate Starts for Celestiallunch_31:

(Start: 8 @22321 has 8 MA's), (34, 22477), (48, 22558), (57, 22624), (66, 22672), (72, 22696), (79, 22741), (91, 22771), (122, 22885), (144, 23062), (182, 23293), (188, 23332), (206, 23446), (227, 23605), (231, 23620), (270, 23806), (279, 23836), (299, 23917), (308, 23950), (322, 24022), (328, 24052), (329, 24055),

Gene: CentreCat_31 Start: 22961, Stop: 24817, Start Num: 5

Candidate Starts for CentreCat_31:

(Start: 5 @22961 has 142 MA's), (25, 23087), (Start: 30 @23111 has 1 MA's), (49, 23216), (50, 23222), (55, 23270), (58, 23279), (64, 23321), (75, 23366), (76, 23372), (97, 23477), (99, 23489), (111, 23567), (119, 23636), (145, 23864), (147, 23888), (148, 23891), (154, 23918), (155, 23921), (174, 24026), (180, 24056), (183, 24071), (195, 24161), (204, 24200), (209, 24245), (236, 24413), (260, 24530), (262, 24536), (274, 24581), (290, 24632), (291, 24635), (306, 24698), (311, 24707), (325, 24794),

Gene: Cerulean_32 Start: 23275, Stop: 25131, Start Num: 5

Candidate Starts for Cerulean_32:

(Start: 5 @23275 has 142 MA's), (25, 23401), (Start: 30 @23425 has 1 MA's), (49, 23530), (50, 23536), (55, 23584), (64, 23635), (76, 23686), (97, 23791), (99, 23803), (111, 23881), (119, 23950), (136, 24118), (140, 24148), (145, 24178), (147, 24202), (148, 24205), (154, 24232), (155, 24235), (174, 24340), (178, 24361), (180, 24370), (204, 24514), (209, 24559), (235, 24721), (260, 24844), (274, 24895), (306, 25012), (311, 25021), (325, 25108),

Gene: ChampagnePapi_32 Start: 23274, Stop: 25130, Start Num: 5

Candidate Starts for ChampagnePapi_32:

(Start: 5 @23274 has 142 MA's), (25, 23400), (Start: 30 @23424 has 1 MA's), (49, 23529), (50, 23535), (55, 23583), (64, 23634), (76, 23685), (97, 23790), (99, 23802), (111, 23880), (119, 23949), (145, 24177), (147, 24201), (148, 24204), (154, 24231), (155, 24234), (174, 24339), (180, 24369), (183, 24384), (195, 24474), (204, 24513), (209, 24558), (236, 24726), (260, 24843), (274, 24894), (306, 25011), (311, 25020), (325, 25107),

Gene: Chaph_31 Start: 22969, Stop: 24825, Start Num: 5

Candidate Starts for Chaph_31:

(Start: 5 @22969 has 142 MA's), (25, 23095), (Start: 30 @23119 has 1 MA's), (49, 23224), (50, 23230), (55, 23278), (58, 23287), (64, 23329), (75, 23374), (76, 23380), (97, 23485), (99, 23497), (111, 23575), (119, 23644), (145, 23872), (147, 23896), (148, 23899), (154, 23926), (155, 23929), (174, 24034), (180, 24064), (183, 24079), (195, 24169), (204, 24208), (209, 24253), (236, 24421), (260, 24538), (262, 24544), (274, 24589), (290, 24640), (291, 24643), (306, 24706), (311, 24715), (325, 24802),

Gene: Chargerpower_32 Start: 22051, Stop: 23787, Start Num: 59

Candidate Starts for Chargerpower_32:

(Start: 59 @22051 has 1 MA's), (93, 22222), (95, 22243), (96, 22255), (106, 22333), (123, 22432), (129, 22492), (149, 22666), (165, 22750), (188, 22894), (201, 22978), (227, 23167), (288, 23404), (311, 23494), (315, 23509), (334, 23647), (335, 23656), (336, 23671), (338, 23704),

Gene: Charm_31 Start: 22329, Stop: 24071, Start Num: 8

Candidate Starts for Charm_31:

(Start: 8 @22329 has 8 MA's), (10, 22335), (34, 22485), (41, 22515), (48, 22566), (57, 22632), (66, 22680), (72, 22704), (91, 22779), (122, 22893), (135, 23004), (144, 23070), (163, 23184), (168, 23220), (182, 23301), (188, 23340), (206, 23454), (208, 23466), (227, 23613), (231, 23628), (238, 23673), (299, 23925), (308, 23958), (310, 23961), (319, 23997), (328, 24060),

Gene: Che12_33 Start: 21672, Stop: 23324, Start Num: 9

Candidate Starts for Che12_33:

(Start: 9 @21672 has 27 MA's), (25, 21783), (33, 21819), (50, 21918), (53, 21942), (82, 22110), (83, 22116), (154, 22626), (172, 22737), (186, 22818), (200, 22911), (205, 22941), (217, 23037), (232, 23109), (249, 23196), (255, 23208),

Gene: Cici_31 Start: 22966, Stop: 24825, Start Num: 5

Candidate Starts for Cici_31:

(3, 22906), (Start: 5 @22966 has 142 MA's), (17, 23032), (22, 23077), (24, 23083), (Start: 30 @23116 has 1 MA's), (34, 23134), (42, 23179), (43, 23185), (44, 23191), (58, 23284), (60, 23299), (75, 23371), (87, 23431), (97, 23482), (99, 23494), (111, 23572), (119, 23641), (131, 23764), (134, 23788), (145, 23869), (151, 23914), (154, 23923), (155, 23926), (178, 24055), (180, 24064), (187, 24106), (191, 24133), (195, 24169), (200, 24196), (204, 24208), (223, 24364), (260, 24538), (262, 24544), (274, 24589), (290, 24640), (291, 24643), (298, 24679), (311, 24715),

Gene: Cindaradix_30 Start: 22690, Stop: 24546, Start Num: 5

Candidate Starts for Cindaradix_30:

(Start: 5 @22690 has 142 MA's), (Start: 30 @22840 has 1 MA's), (34, 22858), (38, 22870), (42, 22903), (44, 22915), (50, 22951), (58, 23008), (60, 23023), (87, 23155), (97, 23206), (99, 23218), (111, 23296), (113, 23317), (119, 23365), (145, 23593), (154, 23647), (155, 23650), (174, 23755), (178, 23776), (180, 23785), (195, 23890), (223, 24085), (236, 24142), (260, 24259), (262, 24265), (311, 24436),

Gene: Cintron_31 Start: 23005, Stop: 24864, Start Num: 5

Candidate Starts for Cintron_31:

(Start: 5 @23005 has 142 MA's), (25, 23131), (Start: 30 @23155 has 1 MA's), (49, 23260), (50, 23266), (55, 23314), (58, 23323), (64, 23365), (75, 23410), (76, 23416), (97, 23521), (99, 23533), (111, 23611), (119, 23680), (136, 23848), (145, 23908), (147, 23932), (148, 23935), (154, 23962), (155, 23965), (174, 24070), (180, 24100), (183, 24115), (195, 24205), (204, 24244), (207, 24271), (209, 24289), (262, 24580), (285, 24658), (287, 24670), (290, 24676), (298, 24715), (306, 24742), (310, 24748), (325, 24841),

Gene: Citius_31 Start: 22975, Stop: 24831, Start Num: 5

Candidate Starts for Citius_31:

(Start: 5 @22975 has 142 MA's), (25, 23101), (Start: 30 @23125 has 1 MA's), (49, 23230), (50, 23236), (55, 23284), (64, 23335), (75, 23380), (76, 23386), (97, 23491), (99, 23503), (111, 23581), (119, 23650), (145, 23878), (147, 23902), (148, 23905), (154, 23932), (155, 23935), (174, 24040), (180, 24070), (183, 24085), (195, 24175), (204, 24214), (209, 24259), (236, 24427), (260, 24544), (262, 24550), (274, 24595), (290, 24646), (291, 24649), (306, 24712), (311, 24721), (325, 24808),

Gene: Clarenza_31 Start: 22957, Stop: 24813, Start Num: 5

Candidate Starts for Clarenza_31:

(Start: 5 @22957 has 142 MA's), (25, 23083), (Start: 30 @23107 has 1 MA's), (49, 23212), (50, 23218), (55, 23266), (58, 23275), (64, 23317), (75, 23362), (76, 23368), (97, 23473), (99, 23485), (111, 23563), (119, 23632), (145, 23860), (147, 23884), (148, 23887), (154, 23914), (155, 23917), (174, 24022), (180, 24052), (183, 24067), (195, 24157), (204, 24196), (209, 24241), (236, 24409), (260, 24526), (262, 24532), (274, 24577), (290, 24628), (291, 24631), (306, 24694), (311, 24703), (325, 24790),

Gene: Cocoaberry_31 Start: 22964, Stop: 24820, Start Num: 5

Candidate Starts for Cocoaberry_31:

(Start: 5 @22964 has 142 MA's), (25, 23090), (Start: 30 @23114 has 1 MA's), (49, 23219), (50, 23225), (55, 23273), (58, 23282), (64, 23324), (75, 23369), (76, 23375), (97, 23480), (99, 23492), (111, 23570), (119, 23639), (145, 23867), (147, 23891), (148, 23894), (154, 23921), (155, 23924), (174, 24029), (178, 24050), (180, 24059), (195, 24164), (204, 24203), (209, 24248), (235, 24410), (236, 24416), (260, 24533), (262, 24539), (274, 24584), (290, 24635), (291, 24638), (306, 24701), (311, 24710), (325, 24797),

Gene: CogOmlette_29 Start: 22236, Stop: 23978, Start Num: 8

Candidate Starts for CogOmlette_29:

(Start: 8 @22236 has 8 MA's), (10, 22242), (27, 22359), (34, 22392), (53, 22509), (57, 22539), (66, 22587), (69, 22596), (70, 22599), (91, 22686), (98, 22731), (105, 22758), (128, 22833), (135, 22911), (144, 22977), (165, 23103), (231, 23535), (238, 23580), (267, 23712), (303, 23853), (308, 23865), (319, 23904), (328, 23967),

Gene: Commander_31 Start: 22960, Stop: 24816, Start Num: 5

Candidate Starts for Commander_31:

(Start: 5 @22960 has 142 MA's), (25, 23086), (Start: 30 @23110 has 1 MA's), (49, 23215), (50, 23221), (55, 23269), (58, 23278), (64, 23320), (75, 23365), (76, 23371), (97, 23476), (99, 23488), (111, 23566), (119, 23635), (145, 23863), (147, 23887), (148, 23890), (154, 23917), (155, 23920), (174, 24025), (180, 24055), (183, 24070), (195, 24160), (204, 24199), (209, 24244), (236, 24412), (260, 24529), (262, 24535), (274, 24580), (290, 24631), (291, 24634), (306, 24697), (311, 24706), (325, 24793),

Gene: Connomayer_31 Start: 22960, Stop: 24816, Start Num: 5

Candidate Starts for Connomayer_31:

(Start: 5 @22960 has 142 MA's), (25, 23086), (Start: 30 @23110 has 1 MA's), (49, 23215), (50, 23221), (55, 23269), (58, 23278), (64, 23320), (75, 23365), (76, 23371), (97, 23476), (99, 23488), (111, 23566), (119, 23635), (145, 23863), (147, 23887), (148, 23890), (154, 23917), (155, 23920), (174, 24025), (180, 24055), (183, 24070), (195, 24160), (204, 24199), (209, 24244), (236, 24412), (260, 24529), (262, 24535), (274, 24580), (290, 24631), (291, 24634), (306, 24697), (311, 24706), (325, 24793),

Gene: D29_31 Start: 22559, Stop: 24412, Start Num: 9

Candidate Starts for D29_31:

(Start: 6 @22553 has 3 MA's), (Start: 9 @22559 has 27 MA's), (27, 22679), (44, 22769), (53, 22829), (61, 22880), (78, 22973), (82, 22997), (83, 23003), (151, 23510), (164, 23579), (178, 23666), (193, 23747), (279, 24191), (284, 24206), (296, 24260), (302, 24284), (305, 24293), (317, 24329),

Gene: D32_34 Start: 22559, Stop: 24412, Start Num: 9

Candidate Starts for D32_34:

(Start: 6 @22553 has 3 MA's), (Start: 9 @22559 has 27 MA's), (27, 22679), (44, 22769), (53, 22829), (61, 22880), (78, 22973), (82, 22997), (83, 23003), (151, 23510), (164, 23579), (178, 23666), (193, 23747), (279, 24191), (284, 24206), (296, 24260), (302, 24284), (305, 24293), (317, 24329),

Gene: DBQu4n_34 Start: 22559, Stop: 24412, Start Num: 9

Candidate Starts for DBQu4n_34:

(Start: 6 @22553 has 3 MA's), (Start: 9 @22559 has 27 MA's), (27, 22679), (44, 22769), (53, 22829), (61, 22880), (78, 22973), (82, 22997), (83, 23003), (151, 23510), (164, 23579), (178, 23666), (193, 23747), (203, 23813), (217, 23930), (266, 24149), (269, 24161), (279, 24191), (296, 24260), (302, 24284), (305, 24293), (317, 24329),

Gene: Datway_31 Start: 22981, Stop: 24840, Start Num: 5

Candidate Starts for Datway_31:

(3, 22921), (Start: 5 @22981 has 142 MA's), (17, 23047), (22, 23092), (24, 23098), (Start: 30 @23131 has 1 MA's), (34, 23149), (42, 23194), (43, 23200), (44, 23206), (58, 23299), (60, 23314), (75, 23386), (87, 23446), (97, 23497), (99, 23509), (111, 23587), (119, 23656), (131, 23779), (134, 23803), (145, 23884), (151, 23929), (154, 23938), (155, 23941), (178, 24070), (180, 24079), (187, 24121), (191, 24148), (195, 24184), (200, 24211), (204, 24223), (223, 24379), (260, 24553), (262, 24559), (274, 24604), (290, 24655), (291, 24658), (298, 24694), (311, 24730),

Gene: Deano_31 Start: 22968, Stop: 24824, Start Num: 5

Candidate Starts for Deano_31:

(Start: 5 @22968 has 142 MA's), (25, 23094), (Start: 30 @23118 has 1 MA's), (49, 23223), (50, 23229), (55, 23277), (58, 23286), (64, 23328), (75, 23373), (76, 23379), (97, 23484), (99, 23496), (111, 23574), (119, 23643), (145, 23871), (147, 23895), (148, 23898), (154, 23925), (155, 23928), (174, 24033), (180, 24063), (183, 24078), (195, 24168), (204, 24207), (209, 24252), (236, 24420), (260, 24537), (262, 24543), (274, 24588), (290, 24639), (291, 24642), (306, 24705), (311, 24714), (325, 24801),

Gene: Dhanush_31 Start: 22963, Stop: 24819, Start Num: 5

Candidate Starts for Dhanush_31:

(Start: 5 @22963 has 142 MA's), (25, 23089), (Start: 30 @23113 has 1 MA's), (49, 23218), (50, 23224), (55, 23272), (58, 23281), (64, 23323), (75, 23368), (76, 23374), (97, 23479), (99, 23491), (111, 23569), (119, 23638), (145, 23866), (147, 23890), (148, 23893), (154, 23920), (155, 23923), (174, 24028), (180, 24058), (183, 24073), (195, 24163), (204, 24202), (209, 24247), (236, 24415), (260, 24532), (262, 24538), (274, 24583), (290, 24634), (291, 24637), (306, 24700), (311, 24709), (325, 24796),

Gene: DirtyDunning_31 Start: 22953, Stop: 24809, Start Num: 5

Candidate Starts for DirtyDunning_31:

(Start: 5 @22953 has 142 MA's), (25, 23079), (Start: 30 @23103 has 1 MA's), (49, 23208), (50, 23214), (55, 23262), (58, 23271), (64, 23313), (75, 23358), (76, 23364), (97, 23469), (99, 23481), (107, 23544), (111, 23559), (119, 23628), (136, 23796), (145, 23856), (148, 23883), (154, 23910), (155, 23913), (174, 24018), (178, 24039), (180, 24048), (195, 24153), (209, 24237), (220, 24336), (260, 24522), (262, 24528), (274, 24573), (290, 24624), (291, 24627), (306, 24690), (311, 24699), (325, 24786),

Gene: DreamTeam1_31 Start: 22328, Stop: 23986, Start Num: 8

Candidate Starts for DreamTeam1_31:

(Start: 8 @22328 has 8 MA's), (10, 22334), (34, 22484), (41, 22514), (48, 22565), (57, 22631), (66, 22679), (72, 22703), (91, 22778), (122, 22892), (163, 23183), (168, 23219), (188, 23339), (206, 23453), (227, 23612), (231, 23627), (240, 23681), (308, 23870),

Gene: Druantia_31 Start: 22961, Stop: 24817, Start Num: 5

Candidate Starts for Druantia_31:

(Start: 5 @22961 has 142 MA's), (25, 23087), (Start: 30 @23111 has 1 MA's), (49, 23216), (50, 23222), (55, 23270), (58, 23279), (64, 23321), (75, 23366), (76, 23372), (97, 23477), (99, 23489), (111, 23567), (119, 23636), (145, 23864), (147, 23888), (148, 23891), (154, 23918), (155, 23921), (174, 24026), (180, 24056), (183, 24071), (195, 24161), (204, 24200), (209, 24245), (236, 24413), (260, 24530), (262, 24536), (274, 24581), (290, 24632), (291, 24635), (306, 24698), (311, 24707), (325, 24794),

Gene: Duplo_34 Start: 22597, Stop: 24450, Start Num: 9

Candidate Starts for Duplo_34:

(Start: 6 @22591 has 3 MA's), (Start: 9 @22597 has 27 MA's), (27, 22717), (44, 22807), (53, 22867), (61, 22918), (78, 23011), (82, 23035), (83, 23041), (151, 23548), (164, 23617), (178, 23704), (193, 23785), (217, 23968), (266, 24187), (269, 24199), (279, 24229), (296, 24298), (302, 24322), (305, 24331), (317, 24367),

Gene: Eagle_30 Start: 22960, Stop: 24816, Start Num: 5

Candidate Starts for Eagle_30:

(Start: 5 @22960 has 142 MA's), (25, 23086), (Start: 30 @23110 has 1 MA's), (49, 23215), (50, 23221), (55, 23269), (64, 23320), (76, 23371), (97, 23476), (99, 23488), (111, 23566), (119, 23635), (136, 23803), (140, 23833), (145, 23863), (147, 23887), (148, 23890), (154, 23917), (155, 23920), (174, 24025), (178, 24046), (180, 24055), (204, 24199), (209, 24244), (235, 24406), (260, 24529), (274, 24580), (306, 24697), (311, 24706), (325, 24793),

Gene: Eapen_31 Start: 22959, Stop: 24815, Start Num: 5

Candidate Starts for Eapen_31:

(Start: 5 @22959 has 142 MA's), (25, 23085), (Start: 30 @23109 has 1 MA's), (49, 23214), (50, 23220), (55, 23268), (64, 23319), (75, 23364), (76, 23370), (97, 23475), (99, 23487), (111, 23565), (119, 23634), (145, 23862), (147, 23886), (148, 23889), (154, 23916), (155, 23919), (174, 24024), (180, 24054), (183, 24069), (195, 24159), (204, 24198), (209, 24243), (236, 24411), (260, 24528), (262, 24534), (274, 24579), (290, 24630), (291, 24633), (306, 24696), (311, 24705), (325, 24792),

Gene: Eris_30 Start: 22960, Stop: 24816, Start Num: 5

Candidate Starts for Eris_30:

(Start: 5 @22960 has 142 MA's), (25, 23086), (Start: 30 @23110 has 1 MA's), (49, 23215), (50, 23221), (55, 23269), (64, 23320), (75, 23365), (76, 23371), (97, 23476), (99, 23488), (111, 23566), (119, 23635), (145, 23863), (147, 23887), (148, 23890), (154, 23917), (155, 23920), (174, 24025), (178, 24046), (180, 24055), (195, 24160), (204, 24199), (209, 24244), (236, 24412), (260, 24529), (262, 24535), (274, 24580), (290, 24631), (291, 24634), (306, 24697), (311, 24706), (325, 24793),

Gene: Eros_31 Start: 22960, Stop: 24816, Start Num: 5

Candidate Starts for Eros_31:

(Start: 5 @22960 has 142 MA's), (25, 23086), (Start: 30 @23110 has 1 MA's), (49, 23215), (50, 23221), (55, 23269), (58, 23278), (64, 23320), (75, 23365), (76, 23371), (97, 23476), (99, 23488), (111, 23566), (119, 23635), (145, 23863), (147, 23887), (148, 23890), (154, 23917), (155, 23920), (174, 24025), (180, 24055), (183, 24070), (195, 24160), (204, 24199), (209, 24244), (236, 24412), (260, 24529), (262, 24535), (274, 24580), (290, 24631), (291, 24634), (306, 24697), (311, 24706), (325, 24793),

Gene: Eurydice_31 Start: 22957, Stop: 24813, Start Num: 5

Candidate Starts for Eurydice_31:

(Start: 5 @22957 has 142 MA's), (25, 23083), (Start: 30 @23107 has 1 MA's), (49, 23212), (50, 23218), (55, 23266), (58, 23275), (64, 23317), (75, 23362), (76, 23368), (99, 23485), (111, 23563), (119, 23632), (145, 23860), (147, 23884), (148, 23887), (154, 23914), (155, 23917), (174, 24022), (180, 24052), (183, 24067), (195, 24157), (204, 24196), (207, 24223), (209, 24241), (220, 24340), (260, 24526), (274, 24577), (291, 24631), (306, 24694), (311, 24703), (325, 24790),

Gene: Flaverint_31 Start: 23391, Stop: 25382, Start Num: 2

Candidate Starts for Flaverint_31:

(Start: 2 @23391 has 11 MA's), (Start: 7 @23502 has 1 MA's), (11, 23511), (18, 23568), (19, 23583), (20, 23601), (21, 23613), (31, 23661), (36, 23679), (37, 23682), (54, 23802), (77, 23916), (80, 23937), (84, 23955), (94, 23988), (118, 24171), (123, 24201), (124, 24204), (139, 24378), (141, 24384), (144, 24408), (146, 24414), (157, 24489), (170, 24552), (177, 24594), (178, 24600), (197, 24723), (205, 24771), (207, 24780), (220, 24897), (222, 24900), (233, 24942), (242, 24984), (247, 25020), (261, 25074), (275, 25125), (276, 25131), (279, 25137), (291, 25179), (316, 25269), (324, 25326), (331, 25365), (333, 25374),

Gene: Florean_31 Start: 22957, Stop: 24813, Start Num: 5

Candidate Starts for Florean_31:

(Start: 5 @22957 has 142 MA's), (25, 23083), (Start: 30 @23107 has 1 MA's), (49, 23212), (50, 23218), (55, 23266), (58, 23275), (64, 23317), (75, 23362), (76, 23368), (97, 23473), (99, 23485), (111, 23563), (119, 23632), (145, 23860), (147, 23884), (148, 23887), (154, 23914), (155, 23917), (174, 24022), (180, 24052), (183, 24067), (195, 24157), (204, 24196), (209, 24241), (236, 24409), (260, 24526), (262, 24532), (274, 24577), (290, 24628), (291, 24631), (306, 24694), (311, 24703), (325, 24790),

Gene: Flux_31 Start: 22960, Stop: 24816, Start Num: 5

Candidate Starts for Flux_31:

(Start: 5 @22960 has 142 MA's), (25, 23086), (Start: 30 @23110 has 1 MA's), (49, 23215), (50, 23221), (55, 23269), (58, 23278), (64, 23320), (75, 23365), (76, 23371), (97, 23476), (99, 23488), (111, 23566), (119, 23635), (145, 23863), (147, 23887), (148, 23890), (154, 23917), (155, 23920), (174, 24025), (180, 24055), (183, 24070), (195, 24160), (204, 24199), (209, 24244), (236, 24412), (260, 24529), (262, 24535), (274, 24580), (290, 24631), (291, 24634), (306, 24697), (311, 24706), (325, 24793),

Gene: Funston_31 Start: 22960, Stop: 24816, Start Num: 5

Candidate Starts for Funston_31:

(Start: 5 @22960 has 142 MA's), (25, 23086), (Start: 30 @23110 has 1 MA's), (49, 23215), (50, 23221), (55, 23269), (64, 23320), (75, 23365), (76, 23371), (97, 23476), (99, 23488), (111, 23566), (119, 23635), (145, 23863), (147, 23887), (148, 23890), (154, 23917), (155, 23920), (174, 24025), (178, 24046), (180, 24055), (195, 24160), (204, 24199), (209, 24244), (236, 24412), (260, 24529), (262, 24535), (274, 24580), (290, 24631), (291, 24634), (306, 24697), (311, 24706), (325, 24793),

Gene: Gadost_31 Start: 22964, Stop: 24820, Start Num: 5

Candidate Starts for Gadost_31:

(Start: 5 @22964 has 142 MA's), (25, 23090), (Start: 30 @23114 has 1 MA's), (49, 23219), (50, 23225), (55, 23273), (58, 23282), (64, 23324), (75, 23369), (76, 23375), (97, 23480), (99, 23492), (111, 23570), (119, 23639), (145, 23867), (147, 23891), (148, 23894), (154, 23921), (155, 23924), (174, 24029), (178, 24050), (180, 24059), (195, 24164), (204, 24203), (209, 24248), (235, 24410), (236, 24416), (260, 24533), (262, 24539), (274, 24584), (290, 24635), (291, 24638), (306, 24701), (311, 24710), (325, 24797),

Gene: Gilberta_31 Start: 23388, Stop: 25379, Start Num: 2

Candidate Starts for Gilberta_31:

(Start: 2 @23388 has 11 MA's), (Start: 7 @23499 has 1 MA's), (11, 23508), (18, 23565), (19, 23580), (20, 23598), (21, 23610), (31, 23658), (36, 23676), (37, 23679), (54, 23799), (77, 23913), (80, 23934), (84, 23952), (94, 23985), (118, 24168), (123, 24198), (124, 24201), (139, 24375), (141, 24381), (144, 24405), (146, 24411), (157, 24486), (170, 24549), (177, 24591), (178, 24597), (197, 24720), (205, 24768), (207, 24777), (220, 24894), (222, 24897), (233, 24939), (242, 24981), (247, 25017), (261, 25071), (275, 25122), (276, 25128), (279, 25134), (291, 25176), (316, 25266), (324, 25323), (331, 25362), (333, 25371),

Gene: HamSlice_30 Start: 22958, Stop: 24814, Start Num: 5

Candidate Starts for HamSlice_30:

(Start: 5 @22958 has 142 MA's), (25, 23084), (Start: 30 @23108 has 1 MA's), (49, 23213), (50, 23219), (55, 23267), (64, 23318), (75, 23363), (76, 23369), (97, 23474), (99, 23486), (111, 23564), (119, 23633), (145, 23861), (147, 23885), (148, 23888), (154, 23915), (155, 23918), (174, 24023), (180, 24053), (183, 24068), (195, 24158), (204, 24197), (209, 24242), (236, 24410), (260, 24527), (262, 24533), (274, 24578), (290, 24629), (291, 24632), (306, 24695), (311, 24704), (325, 24791),

Gene: Happiness_31 Start: 22966, Stop: 24822, Start Num: 5

Candidate Starts for Happiness_31:

(Start: 5 @22966 has 142 MA's), (25, 23092), (Start: 30 @23116 has 1 MA's), (44, 23191), (49, 23221), (55, 23275), (58, 23284), (64, 23326), (76, 23377), (97, 23482), (99, 23494), (111, 23572), (119, 23641), (136, 23809), (140, 23839), (145, 23869), (147, 23893), (148, 23896), (154, 23923), (155, 23926), (174, 24031), (178, 24052), (180, 24061), (195, 24166), (204, 24205), (209, 24250), (235, 24412), (260, 24535), (274, 24586), (290, 24637), (291, 24640), (306, 24703), (311, 24712), (325, 24799),

Gene: Holli_31 Start: 22750, Stop: 24606, Start Num: 5

Candidate Starts for Holli_31:

(Start: 5 @22750 has 142 MA's), (25, 22876), (Start: 30 @22900 has 1 MA's), (49, 23005), (50, 23011), (55, 23059), (58, 23068), (64, 23110), (75, 23155), (76, 23161), (97, 23266), (99, 23278), (111, 23356), (119, 23425), (145, 23653), (147, 23677), (148, 23680), (154, 23707), (155, 23710), (174, 23815), (180, 23845), (183, 23860), (195, 23950), (204, 23989), (209, 24034), (236, 24202), (260, 24319), (262, 24325), (274, 24370), (290, 24421), (291, 24424), (306, 24487), (311, 24496), (325, 24583),

Gene: Houdini22_31 Start: 22964, Stop: 24820, Start Num: 5

Candidate Starts for Houdini22_31:

(Start: 5 @22964 has 142 MA's), (25, 23090), (Start: 30 @23114 has 1 MA's), (49, 23219), (50, 23225), (55, 23273), (58, 23282), (64, 23324), (75, 23369), (76, 23375), (97, 23480), (99, 23492), (111, 23570), (119, 23639), (145, 23867), (147, 23891), (148, 23894), (154, 23921), (155, 23924), (174, 24029), (178, 24050), (180, 24059), (195, 24164), (204, 24203), (209, 24248), (235, 24410), (236, 24416), (260, 24533), (262, 24539), (274, 24584), (290, 24635), (291, 24638), (306, 24701), (311, 24710), (325, 24797),

Gene: Huxley_31 Start: 23021, Stop: 24877, Start Num: 5

Candidate Starts for Huxley_31:

(Start: 5 @23021 has 142 MA's), (25, 23147), (Start: 30 @23171 has 1 MA's), (49, 23276), (50, 23282), (55, 23330), (64, 23381), (75, 23426), (76, 23432), (97, 23537), (99, 23549), (107, 23612), (111, 23627), (119, 23696), (145, 23924), (147, 23948), (148, 23951), (154, 23978), (155, 23981), (174, 24086), (178, 24107), (180, 24116), (195, 24221), (204, 24260), (209, 24305), (260, 24590), (262, 24596), (274, 24641), (290, 24692), (291, 24695), (306, 24758), (311, 24767), (325, 24854),

Gene: ICleared_31 Start: 22958, Stop: 24814, Start Num: 5

Candidate Starts for ICleared_31:

(Start: 5 @22958 has 142 MA's), (25, 23084), (Start: 30 @23108 has 1 MA's), (49, 23213), (50, 23219), (55, 23267), (64, 23318), (75, 23363), (76, 23369), (97, 23474), (99, 23486), (111, 23564), (119, 23633), (145, 23861), (147, 23885), (148, 23888), (154, 23915), (155, 23918), (174, 24023), (178, 24044), (180, 24053), (195, 24158), (204, 24197), (209, 24242), (235, 24404), (236, 24410), (260, 24527), (262, 24533), (274, 24578), (290, 24629), (291, 24632), (306, 24695), (311, 24704), (325, 24791),

Gene: Iceman_32 Start: 23249, Stop: 25105, Start Num: 5

Candidate Starts for Iceman_32:

(Start: 5 @23249 has 142 MA's), (25, 23375), (Start: 30 @23399 has 1 MA's), (49, 23504), (50, 23510), (55, 23558), (64, 23609), (75, 23654), (76, 23660), (97, 23765), (99, 23777), (111, 23855), (119, 23924), (145, 24152), (147, 24176), (148, 24179), (154, 24206), (155, 24209), (174, 24314), (180, 24344), (183, 24359), (195, 24449), (204, 24488), (209, 24533), (236, 24701), (259, 24812), (260, 24818), (262, 24824), (274, 24869), (290, 24920), (291, 24923), (306, 24986), (311, 24995), (325, 25082),

Gene: Insomnia_31 Start: 23449, Stop: 25440, Start Num: 2

Candidate Starts for Insomnia_31:

(Start: 2 @23449 has 11 MA's), (Start: 7 @23560 has 1 MA's), (11, 23569), (18, 23626), (19, 23641), (20, 23659), (21, 23671), (31, 23719), (36, 23737), (37, 23740), (54, 23860), (77, 23974), (80, 23995), (84, 24013), (94, 24046), (118, 24229), (123, 24259), (124, 24262), (139, 24436), (141, 24442), (144, 24466), (146, 24472), (157, 24547), (170, 24610), (177, 24652), (178, 24658), (197, 24781), (205, 24829), (207, 24838), (220, 24955), (222, 24958), (233, 25000), (242, 25042), (247, 25078), (261, 25132), (275, 25183), (276, 25189), (279, 25195), (291, 25237), (324, 25384), (331, 25423), (333, 25432),

Gene: Iracema64_32 Start: 23268, Stop: 25124, Start Num: 5

Candidate Starts for Iracema64_32:

(Start: 5 @23268 has 142 MA's), (25, 23394), (Start: 30 @23418 has 1 MA's), (49, 23523), (50, 23529), (55, 23577), (58, 23586), (64, 23628), (75, 23673), (76, 23679), (97, 23784), (99, 23796), (107, 23859), (111, 23874), (119, 23943), (136, 24111), (145, 24171), (148, 24198), (154, 24225), (155, 24228), (174, 24333), (178, 24354), (180, 24363), (195, 24468), (209, 24552), (220, 24651), (260, 24837), (262, 24843), (274, 24888), (290, 24939), (291, 24942), (306, 25005), (311, 25014), (325, 25101),

Gene: Jabith_31 Start: 23449, Stop: 25440, Start Num: 2

Candidate Starts for Jabith_31:

(Start: 2 @23449 has 11 MA's), (Start: 7 @23560 has 1 MA's), (11, 23569), (18, 23626), (19, 23641), (20, 23659), (21, 23671), (31, 23719), (36, 23737), (37, 23740), (54, 23860), (77, 23974), (80, 23995), (84, 24013), (94, 24046), (118, 24229), (123, 24259), (124, 24262), (139, 24436), (141, 24442), (144, 24466), (146, 24472), (157, 24547), (170, 24610), (177, 24652), (178, 24658), (197, 24781), (205, 24829), (207, 24838), (220, 24955), (222, 24958), (233, 25000), (242, 25042), (247, 25078), (261, 25132), (275, 25183), (276, 25189), (279, 25195), (291, 25237), (316, 25327), (324, 25384), (331, 25423), (333, 25432),

Gene: Jaykayelowell_31 Start: 22956, Stop: 24812, Start Num: 5

Candidate Starts for Jaykayelowell_31:

(Start: 5 @22956 has 142 MA's), (25, 23082), (Start: 30 @23106 has 1 MA's), (49, 23211), (50, 23217), (55, 23265), (64, 23316), (75, 23361), (76, 23367), (97, 23472), (99, 23484), (111, 23562), (119, 23631), (145, 23859), (148, 23886), (154, 23913), (155, 23916), (174, 24021), (180, 24051), (183, 24066), (195, 24156), (204, 24195), (209, 24240), (236, 24408), (260, 24525), (262, 24531), (274, 24576), (290, 24627), (291, 24630), (306, 24693), (311, 24702), (325, 24789),

Gene: Jeeves_31 Start: 21978, Stop: 23861, Start Num: 8

Candidate Starts for Jeeves_31:

(Start: 8 @21978 has 8 MA's), (10, 21984), (45, 22194), (50, 22227), (53, 22251), (55, 22272), (71, 22347), (84, 22437), (103, 22551), (122, 22692), (128, 22746), (143, 22881), (149, 22935), (165, 23019), (181, 23118), (188, 23163), (201, 23247), (213, 23346), (217, 23370), (227, 23436), (231, 23451), (253, 23571), (265, 23598), (293, 23688), (300, 23724), (308, 23748), (318, 23781), (323, 23823), (328, 23850), (329, 23853),

Gene: JetBlade_31 Start: 22957, Stop: 24813, Start Num: 5

Candidate Starts for JetBlade_31:

(Start: 5 @22957 has 142 MA's), (25, 23083), (Start: 30 @23107 has 1 MA's), (49, 23212), (50, 23218), (55, 23266), (58, 23275), (64, 23317), (75, 23362), (76, 23368), (97, 23473), (99, 23485), (111, 23563), (119, 23632), (145, 23860), (147, 23884), (148, 23887), (154, 23914), (155, 23917), (174, 24022), (180, 24052), (183, 24067), (195, 24157), (204, 24196), (209, 24241), (236, 24409), (260, 24526), (262, 24532), (274, 24577), (290, 24628), (291, 24631), (306, 24694), (311, 24703), (325, 24790),

Gene: JoongJeon_31 Start: 22960, Stop: 24816, Start Num: 5

Candidate Starts for JoongJeon_31:

(Start: 5 @22960 has 142 MA's), (25, 23086), (Start: 30 @23110 has 1 MA's), (49, 23215), (50, 23221), (55, 23269), (58, 23278), (64, 23320), (75, 23365), (76, 23371), (97, 23476), (99, 23488), (111, 23566), (119, 23635), (145, 23863), (147, 23887), (148, 23890), (154, 23917), (155, 23920), (174, 24025), (180, 24055), (183, 24070), (195, 24160), (204, 24199), (209, 24244), (236, 24412), (260, 24529), (262, 24535), (274, 24580), (290, 24631), (291, 24634), (306, 24697), (311, 24706), (325, 24793),

Gene: Joselito_31 Start: 23397, Stop: 25388, Start Num: 2

Candidate Starts for Joselito_31:

(Start: 2 @23397 has 11 MA's), (Start: 7 @23508 has 1 MA's), (11, 23517), (18, 23574), (19, 23589), (20, 23607), (21, 23619), (31, 23667), (36, 23685), (37, 23688), (54, 23808), (77, 23922), (80, 23943), (84, 23961), (94, 23994), (118, 24177), (123, 24207), (124, 24210), (139, 24384), (141, 24390), (144, 24414), (146, 24420), (157, 24495), (170, 24558), (177, 24600), (178, 24606), (197, 24729), (205, 24777), (207, 24786), (220, 24903), (222, 24906), (233, 24948), (242, 24990), (247, 25026), (261, 25080), (275, 25131), (276, 25137), (279, 25143), (291, 25185), (316, 25275), (324, 25332), (331, 25371), (333, 25380),

Gene: Journey13_29 Start: 21908, Stop: 23737, Start Num: 9

Candidate Starts for Journey13_29:

(Start: 9 @21908 has 27 MA's), (29, 22037), (Start: 30 @22043 has 1 MA's), (50, 22154), (53, 22178), (76, 22313), (82, 22346), (83, 22352), (115, 22532), (151, 22850), (169, 22952), (172, 22973), (173, 22979), (175, 22994), (186, 23054), (190, 23081), (221, 23300), (289, 23564), (302, 23624), (326, 23726), (327, 23729),

Gene: Jsquared_30 Start: 21719, Stop: 23470, Start Num: 9

Candidate Starts for Jsquared_30:

(Start: 9 @21719 has 27 MA's), (14, 21740), (27, 21839), (Start: 30 @21854 has 1 MA's), (44, 21929), (50, 21965), (51, 21977), (53, 21989), (55, 22013), (57, 22019), (74, 22100), (78, 22133), (82, 22157), (83, 22163), (99, 22235), (115, 22343), (151, 22661), (172, 22781), (184, 22850), (217, 23081), (232, 23156), (235, 23168), (237, 23177), (243, 23216), (297, 23411), (304, 23438), (305, 23441), (311, 23453),

Gene: KFPoly_31 Start: 22957, Stop: 24813, Start Num: 5

Candidate Starts for KFPoly_31:

(Start: 5 @22957 has 142 MA's), (25, 23083), (Start: 30 @23107 has 1 MA's), (49, 23212), (50, 23218), (55, 23266), (58, 23275), (64, 23317), (75, 23362), (76, 23368), (97, 23473), (99, 23485), (111, 23563), (119, 23632), (145, 23860), (147, 23884), (148, 23887), (154, 23914), (155, 23917), (174, 24022), (178, 24043), (180, 24052), (195, 24157), (204, 24196), (209, 24241), (236, 24409), (260, 24526), (262, 24532), (274, 24577), (290, 24628), (291, 24631), (306, 24694), (311, 24703), (325, 24790),

Gene: Kamy_31 Start: 22958, Stop: 24814, Start Num: 5

Candidate Starts for Kamy_31:

(Start: 5 @22958 has 142 MA's), (25, 23084), (Start: 30 @23108 has 1 MA's), (49, 23213), (50, 23219), (55, 23267), (58, 23276), (64, 23318), (75, 23363), (76, 23369), (97, 23474), (99, 23486), (111, 23564), (119, 23633), (145, 23861), (147, 23885), (148, 23888), (154, 23915), (155, 23918), (174, 24023),

(180, 24053), (183, 24068), (195, 24158), (204, 24197), (207, 24224), (209, 24242), (220, 24341), (260, 24527), (274, 24578), (291, 24632), (306, 24695), (311, 24704), (325, 24791),

Gene: Katalie136_31 Start: 22972, Stop: 24831, Start Num: 5

Candidate Starts for Katalie136_31:

(3, 22912), (Start: 5 @22972 has 142 MA's), (17, 23038), (22, 23083), (24, 23089), (Start: 30 @23122 has 1 MA's), (34, 23140), (42, 23185), (43, 23191), (44, 23197), (58, 23290), (60, 23305), (75, 23377), (87, 23437), (97, 23488), (99, 23500), (111, 23578), (119, 23647), (131, 23770), (134, 23794), (145, 23875), (151, 23920), (154, 23929), (155, 23932), (178, 24061), (180, 24070), (187, 24112), (191, 24139), (195, 24175), (200, 24202), (204, 24214), (223, 24370), (260, 24544), (262, 24550), (274, 24595), (290, 24646), (291, 24649), (298, 24685), (311, 24721),

Gene: KekoraPapaka_30 Start: 22960, Stop: 24816, Start Num: 5

Candidate Starts for KekoraPapaka_30:

(Start: 5 @22960 has 142 MA's), (25, 23086), (Start: 30 @23110 has 1 MA's), (49, 23215), (50, 23221), (55, 23269), (58, 23278), (64, 23320), (75, 23365), (76, 23371), (97, 23476), (99, 23488), (111, 23566), (119, 23635), (145, 23863), (147, 23887), (148, 23890), (154, 23917), (155, 23920), (174, 24025), (180, 24055), (183, 24070), (195, 24160), (204, 24199), (209, 24244), (236, 24412), (260, 24529), (262, 24535), (274, 24580), (290, 24631), (291, 24634), (306, 24697), (311, 24706), (325, 24793),

Gene: Kerberos_34 Start: 22559, Stop: 24412, Start Num: 9

Candidate Starts for Kerberos_34:

(Start: 6 @22553 has 3 MA's), (Start: 9 @22559 has 27 MA's), (27, 22679), (44, 22769), (53, 22829), (61, 22880), (78, 22973), (82, 22997), (83, 23003), (151, 23510), (164, 23579), (178, 23666), (193, 23747), (217, 23930), (266, 24149), (269, 24161), (279, 24191), (296, 24260), (302, 24284), (305, 24293), (317, 24329),

Gene: Kimona_28 Start: 20738, Stop: 22444, Start Num: 5

Candidate Starts for Kimona_28:

(Start: 5 @20738 has 142 MA's), (13, 20771), (16, 20786), (40, 20936), (41, 20942), (55, 21053), (57, 21059), (78, 21116), (97, 21185), (102, 21218), (104, 21230), (125, 21389), (172, 21752), (219, 22079), (224, 22100), (227, 22112), (239, 22166), (243, 22190), (266, 22271), (295, 22379), (302, 22409), (313, 22436),

Gene: Kingmustik0402_31 Start: 22952, Stop: 24808, Start Num: 5

Candidate Starts for Kingmustik0402_31:

(Start: 5 @22952 has 142 MA's), (25, 23078), (Start: 30 @23102 has 1 MA's), (49, 23207), (50, 23213), (55, 23261), (58, 23270), (64, 23312), (75, 23357), (76, 23363), (97, 23468), (99, 23480), (111, 23558), (119, 23627), (145, 23855), (147, 23879), (148, 23882), (154, 23909), (155, 23912), (174, 24017), (180, 24047), (183, 24062), (195, 24152), (204, 24191), (209, 24236), (236, 24404), (260, 24521), (262, 24527), (274, 24572), (290, 24623), (291, 24626), (306, 24689), (311, 24698), (325, 24785),

Gene: Kinmap_32 Start: 22357, Stop: 24255, Start Num: 8

Candidate Starts for Kinmap_32:

(1, 22222), (Start: 8 @22357 has 8 MA's), (10, 22363), (33, 22507), (53, 22630), (63, 22696), (67, 22717), (103, 22936), (108, 22978), (122, 23077), (138, 23281), (149, 23362), (150, 23374), (165, 23446), (168, 23470), (179, 23536), (227, 23863), (231, 23878), (303, 24130), (313, 24154), (328, 24244), (329, 24247),

Gene: Klodlith_31 Start: 22328, Stop: 23986, Start Num: 8

Candidate Starts for Klodlith_31:

(Start: 8 @22328 has 8 MA's), (34, 22484), (41, 22514), (48, 22565), (57, 22631), (66, 22679), (72, 22703), (91, 22778), (122, 22892), (135, 23003), (163, 23183), (168, 23219), (188, 23339), (206,

23453), (208, 23465), (227, 23612), (231, 23627), (240, 23681), (299, 23837), (308, 23870),

Gene: Koan_31 Start: 22960, Stop: 24816, Start Num: 5

Candidate Starts for Koan_31:

(Start: 5 @22960 has 142 MA's), (25, 23086), (Start: 30 @23110 has 1 MA's), (49, 23215), (50, 23221), (55, 23269), (58, 23278), (64, 23320), (76, 23371), (97, 23476), (99, 23488), (111, 23566), (119, 23635), (145, 23863), (147, 23887), (148, 23890), (154, 23917), (155, 23920), (174, 24025), (178, 24046), (180, 24055), (183, 24070), (195, 24160), (204, 24199), (209, 24244), (236, 24412), (260, 24529), (262, 24535), (274, 24580), (290, 24631), (291, 24634), (306, 24697), (311, 24706), (325, 24793),

Gene: Koduck_32 Start: 21936, Stop: 23582, Start Num: 9

Candidate Starts for Koduck_32:

(Start: 9 @21936 has 27 MA's), (27, 22056), (Start: 30 @22071 has 1 MA's), (44, 22146), (51, 22194), (53, 22206), (62, 22263), (82, 22374), (83, 22380), (99, 22452), (126, 22671), (140, 22785), (151, 22869), (153, 22875), (160, 22911), (172, 22995), (185, 23073), (200, 23169), (207, 23208), (217, 23295), (232, 23367), (246, 23442), (249, 23454), (254, 23463), (263, 23493), (286, 23562),

Gene: Koreni_30 Start: 22606, Stop: 24462, Start Num: 5

Candidate Starts for Koreni_30:

(Start: 5 @22606 has 142 MA's), (25, 22732), (Start: 30 @22756 has 1 MA's), (49, 22861), (50, 22867), (55, 22915), (58, 22924), (64, 22966), (75, 23011), (76, 23017), (97, 23122), (99, 23134), (111, 23212), (119, 23281), (145, 23509), (147, 23533), (148, 23536), (154, 23563), (155, 23566), (174, 23671), (178, 23692), (180, 23701), (195, 23806), (204, 23845), (209, 23890), (235, 24052), (236, 24058), (260, 24175), (262, 24181), (274, 24226), (290, 24277), (291, 24280), (306, 24343), (311, 24352), (325, 24439),

Gene: Kratak_31 Start: 22952, Stop: 24808, Start Num: 5

Candidate Starts for Kratak_31:

(Start: 5 @22952 has 142 MA's), (25, 23078), (Start: 30 @23102 has 1 MA's), (49, 23207), (50, 23213), (55, 23261), (64, 23312), (75, 23357), (76, 23363), (97, 23468), (99, 23480), (107, 23543), (111, 23558), (119, 23627), (145, 23855), (147, 23879), (148, 23882), (154, 23909), (155, 23912), (174, 24017), (178, 24038), (180, 24047), (195, 24152), (204, 24191), (209, 24236), (220, 24335), (260, 24521), (262, 24527), (274, 24572), (290, 24623), (291, 24626), (306, 24689), (311, 24698), (325, 24785),

Gene: Kremtemulon_31 Start: 23008, Stop: 24867, Start Num: 5

Candidate Starts for Kremtemulon_31:

(Start: 5 @23008 has 142 MA's), (25, 23134), (Start: 30 @23158 has 1 MA's), (49, 23263), (50, 23269), (55, 23317), (58, 23326), (64, 23368), (76, 23419), (97, 23524), (99, 23536), (111, 23614), (119, 23683), (145, 23911), (148, 23938), (154, 23965), (155, 23968), (174, 24073), (180, 24103), (183, 24118), (195, 24208), (204, 24247), (207, 24274), (209, 24292), (262, 24583), (285, 24661), (287, 24673), (290, 24679), (298, 24718), (306, 24745), (310, 24751), (325, 24844),

Gene: Kyee_31 Start: 22958, Stop: 24814, Start Num: 5

Candidate Starts for Kyee_31:

(Start: 5 @22958 has 142 MA's), (25, 23084), (Start: 30 @23108 has 1 MA's), (49, 23213), (50, 23219), (55, 23267), (58, 23276), (64, 23318), (75, 23363), (76, 23369), (97, 23474), (99, 23486), (111, 23564), (119, 23633), (145, 23861), (147, 23885), (148, 23888), (154, 23915), (155, 23918), (174, 24023), (178, 24044), (180, 24053), (195, 24158), (204, 24197), (209, 24242), (236, 24410), (260, 24527), (262, 24533), (274, 24578), (290, 24629), (291, 24632), (306, 24695), (311, 24704), (325, 24791),

Gene: L5_31 Start: 21890, Stop: 23536, Start Num: 9

Candidate Starts for L5_31:

(Start: 9 @21890 has 27 MA's), (27, 22010), (Start: 30 @22025 has 1 MA's), (44, 22100), (51, 22148), (53, 22160), (74, 22271), (82, 22328), (83, 22334), (99, 22406), (126, 22625), (140, 22739), (151, 22823), (153, 22829), (160, 22865), (172, 22949), (185, 23027), (200, 23123), (207, 23162), (217, 23249), (249, 23408), (263, 23447),

Gene: LHTSCC_32 Start: 23274, Stop: 25130, Start Num: 5

Candidate Starts for LHTSCC_32:

(Start: 5 @23274 has 142 MA's), (25, 23400), (Start: 30 @23424 has 1 MA's), (49, 23529), (50, 23535), (55, 23583), (64, 23634), (76, 23685), (97, 23790), (99, 23802), (111, 23880), (119, 23949), (136, 24117), (140, 24147), (145, 24177), (147, 24201), (148, 24204), (154, 24231), (155, 24234), (174, 24339), (178, 24360), (180, 24369), (204, 24513), (209, 24558), (235, 24720), (260, 24843), (274, 24894), (306, 25011), (311, 25020), (325, 25107),

Gene: LappelDuVide_31 Start: 22957, Stop: 24813, Start Num: 5

Candidate Starts for LappelDuVide_31:

(Start: 5 @22957 has 142 MA's), (25, 23083), (Start: 30 @23107 has 1 MA's), (49, 23212), (50, 23218), (55, 23266), (64, 23317), (75, 23362), (76, 23368), (97, 23473), (99, 23485), (111, 23563), (119, 23632), (145, 23860), (147, 23884), (148, 23887), (154, 23914), (155, 23917), (174, 24022), (180, 24052), (183, 24067), (195, 24157), (204, 24196), (209, 24241), (236, 24409), (260, 24526), (262, 24532), (274, 24577), (290, 24628), (291, 24631), (306, 24694), (311, 24703), (325, 24790),

Gene: Lemur_31 Start: 22957, Stop: 24813, Start Num: 5

Candidate Starts for Lemur_31:

(Start: 5 @22957 has 142 MA's), (25, 23083), (Start: 30 @23107 has 1 MA's), (49, 23212), (50, 23218), (55, 23266), (58, 23275), (64, 23317), (75, 23362), (76, 23368), (97, 23473), (99, 23485), (111, 23563), (119, 23632), (145, 23860), (147, 23884), (148, 23887), (154, 23914), (155, 23917), (174, 24022), (180, 24052), (183, 24067), (195, 24157), (204, 24196), (209, 24241), (236, 24409), (260, 24526), (262, 24532), (274, 24577), (290, 24628), (291, 24631), (306, 24694), (311, 24703), (325, 24790),

Gene: LeoAvram_31 Start: 22957, Stop: 24813, Start Num: 5

Candidate Starts for LeoAvram_31:

(Start: 5 @22957 has 142 MA's), (25, 23083), (Start: 30 @23107 has 1 MA's), (49, 23212), (50, 23218), (55, 23266), (58, 23275), (64, 23317), (75, 23362), (76, 23368), (99, 23485), (111, 23563), (119, 23632), (145, 23860), (147, 23884), (148, 23887), (154, 23914), (155, 23917), (174, 24022), (180, 24052), (183, 24067), (195, 24157), (204, 24196), (209, 24241), (220, 24340), (260, 24526), (274, 24577), (291, 24631), (306, 24694), (311, 24703), (325, 24790),

Gene: LittleB_31 Start: 22960, Stop: 24816, Start Num: 5

Candidate Starts for LittleB_31:

(Start: 5 @22960 has 142 MA's), (25, 23086), (Start: 30 @23110 has 1 MA's), (49, 23215), (50, 23221), (55, 23269), (58, 23278), (64, 23320), (75, 23365), (76, 23371), (97, 23476), (99, 23488), (111, 23566), (119, 23635), (145, 23863), (147, 23887), (148, 23890), (154, 23917), (155, 23920), (174, 24025), (180, 24055), (183, 24070), (195, 24160), (204, 24199), (209, 24244), (236, 24412), (260, 24529), (262, 24535), (274, 24580), (290, 24631), (291, 24634), (306, 24697), (311, 24706), (325, 24793),

Gene: LittleGuy_31 Start: 22903, Stop: 24762, Start Num: 5

Candidate Starts for LittleGuy_31:

(Start: 5 @22903 has 142 MA's), (25, 23029), (Start: 30 @23053 has 1 MA's), (49, 23158), (50, 23164), (55, 23212), (58, 23221), (64, 23263), (75, 23308), (76, 23314), (97, 23419), (99, 23431), (111, 23509), (119, 23578), (154, 23860), (155, 23863), (174, 23968), (180, 23998), (195, 24103), (204, 24142), (207, 24169), (209, 24187), (262, 24478), (285, 24556), (287, 24568), (290, 24574), (298, 24613), (306, 24640), (310, 24646), (311, 24649), (325, 24739),

Gene: LochMonster_31 Start: 22932, Stop: 24788, Start Num: 5

Candidate Starts for LochMonster_31:

(Start: 5 @22932 has 142 MA's), (25, 23058), (Start: 30 @23082 has 1 MA's), (49, 23187), (50, 23193), (55, 23241), (58, 23250), (64, 23292), (75, 23337), (76, 23343), (97, 23448), (99, 23460), (107, 23523), (111, 23538), (119, 23607), (136, 23775), (145, 23835), (148, 23862), (154, 23889), (155, 23892), (174, 23997), (178, 24018), (180, 24027), (195, 24132), (209, 24216), (220, 24315), (260, 24501), (262, 24507), (274, 24552), (290, 24603), (291, 24606), (306, 24669), (311, 24678), (325, 24765),

Gene: Lorenzo_31 Start: 22960, Stop: 24816, Start Num: 5

Candidate Starts for Lorenzo_31:

(Start: 5 @22960 has 142 MA's), (25, 23086), (Start: 30 @23110 has 1 MA's), (49, 23215), (50, 23221), (55, 23269), (64, 23320), (75, 23365), (76, 23371), (97, 23476), (99, 23488), (111, 23566), (119, 23635), (145, 23863), (147, 23887), (148, 23890), (154, 23917), (155, 23920), (174, 24025), (178, 24046), (180, 24055), (195, 24160), (204, 24199), (209, 24244), (235, 24406), (236, 24412), (260, 24529), (262, 24535), (274, 24580), (290, 24631), (291, 24634), (306, 24697), (311, 24706), (325, 24793),

Gene: Lucivia_31 Start: 23446, Stop: 25437, Start Num: 2

Candidate Starts for Lucivia_31:

(Start: 2 @23446 has 11 MA's), (Start: 7 @23557 has 1 MA's), (11, 23566), (18, 23623), (19, 23638), (20, 23656), (21, 23668), (31, 23716), (36, 23734), (37, 23737), (54, 23857), (77, 23971), (80, 23992), (84, 24010), (94, 24043), (118, 24226), (123, 24256), (124, 24259), (139, 24433), (141, 24439), (144, 24463), (146, 24469), (157, 24544), (170, 24607), (177, 24649), (178, 24655), (197, 24778), (205, 24826), (207, 24835), (220, 24952), (222, 24955), (233, 24997), (242, 25039), (247, 25075), (261, 25129), (275, 25180), (276, 25186), (279, 25192), (291, 25234), (316, 25324), (324, 25381), (331, 25420), (333, 25429),

Gene: Lunsford_32 Start: 22957, Stop: 24813, Start Num: 5

Candidate Starts for Lunsford_32:

(Start: 5 @22957 has 142 MA's), (25, 23083), (Start: 30 @23107 has 1 MA's), (49, 23212), (50, 23218), (55, 23266), (64, 23317), (75, 23362), (76, 23368), (97, 23473), (99, 23485), (111, 23563), (119, 23632), (145, 23860), (147, 23884), (148, 23887), (154, 23914), (155, 23917), (174, 24022), (180, 24052), (183, 24067), (195, 24157), (204, 24196), (209, 24241), (236, 24409), (260, 24526), (262, 24532), (274, 24577), (290, 24628), (291, 24631), (306, 24694), (311, 24703), (325, 24790),

Gene: MaCh_31 Start: 23388, Stop: 25376, Start Num: 2

Candidate Starts for MaCh_31:

(Start: 2 @23388 has 11 MA's), (Start: 7 @23499 has 1 MA's), (11, 23508), (18, 23565), (19, 23580), (20, 23598), (21, 23610), (31, 23658), (36, 23676), (37, 23679), (54, 23799), (77, 23913), (80, 23934), (84, 23952), (94, 23985), (118, 24168), (123, 24198), (124, 24201), (139, 24375), (141, 24381), (144, 24405), (146, 24411), (157, 24486), (170, 24549), (177, 24591), (178, 24597), (197, 24720), (205, 24768), (207, 24777), (220, 24894), (222, 24897), (233, 24939), (242, 24981), (247, 25017), (261, 25071), (316, 25263), (324, 25320), (331, 25359), (333, 25368),

Gene: MajorMajor_30 Start: 21646, Stop: 23397, Start Num: 9

Candidate Starts for MajorMajor_30:

(Start: 9 @21646 has 27 MA's), (14, 21667), (27, 21766), (Start: 30 @21781 has 1 MA's), (44, 21856), (53, 21916), (74, 22027), (78, 22060), (82, 22084), (83, 22090), (99, 22162), (110, 22237), (115, 22270), (118, 22300), (151, 22588), (172, 22708), (184, 22777), (217, 23008), (232, 23083), (235, 23095), (237, 23104), (243, 23143), (297, 23338), (304, 23365), (305, 23368), (311, 23380),

Gene: Malec_32 Start: 23029, Stop: 25110, Start Num: 8

Candidate Starts for Malec_32:

(Start: 8 @23029 has 8 MA's), (14, 23053), (25, 23143), (28, 23158), (47, 23257), (57, 23332), (65, 23380), (103, 23569), (109, 23608), (123, 23704), (147, 23953), (162, 24016), (167, 24061), (184, 24163), (205, 24301), (212, 24364), (215, 24394), (234, 24478), (251, 24568), (255, 24577), (259, 24592), (261, 24601), (312, 24775), (332, 24895), (335, 24934), (337, 24970), (339, 24994), (340, 25027), (341, 25096), (342, 25099),

Gene: Maverick_31 Start: 22960, Stop: 24816, Start Num: 5

Candidate Starts for Maverick_31:

(Start: 5 @22960 has 142 MA's), (25, 23086), (Start: 30 @23110 has 1 MA's), (49, 23215), (50, 23221), (55, 23269), (58, 23278), (64, 23320), (75, 23365), (76, 23371), (97, 23476), (99, 23488), (111, 23566), (119, 23635), (145, 23863), (147, 23887), (148, 23890), (154, 23917), (155, 23920), (174, 24025), (178, 24046), (180, 24055), (195, 24160), (204, 24199), (209, 24244), (235, 24406), (236, 24412), (260, 24529), (262, 24535), (274, 24580), (290, 24631), (291, 24634), (306, 24697), (311, 24706), (325, 24793),

Gene: Maxo_31 Start: 22958, Stop: 24814, Start Num: 5

Candidate Starts for Maxo_31:

(Start: 5 @22958 has 142 MA's), (25, 23084), (Start: 30 @23108 has 1 MA's), (49, 23213), (50, 23219), (55, 23267), (58, 23276), (64, 23318), (75, 23363), (76, 23369), (97, 23474), (99, 23486), (111, 23564), (119, 23633), (145, 23861), (147, 23885), (148, 23888), (154, 23915), (155, 23918), (174, 24023), (180, 24053), (183, 24068), (195, 24158), (204, 24197), (207, 24224), (209, 24242), (220, 24341), (260, 24527), (274, 24578), (291, 24632), (306, 24695), (311, 24704), (325, 24791),

Gene: Mayonnaise_31 Start: 22960, Stop: 24816, Start Num: 5

Candidate Starts for Mayonnaise_31:

(Start: 5 @22960 has 142 MA's), (25, 23086), (Start: 30 @23110 has 1 MA's), (49, 23215), (50, 23221), (55, 23269), (64, 23320), (75, 23365), (76, 23371), (97, 23476), (99, 23488), (111, 23566), (119, 23635), (145, 23863), (147, 23887), (148, 23890), (154, 23917), (155, 23920), (174, 24025), (178, 24046), (180, 24055), (195, 24160), (204, 24199), (209, 24244), (235, 24406), (236, 24412), (260, 24529), (262, 24535), (274, 24580), (290, 24631), (291, 24634), (306, 24697), (311, 24706), (325, 24793),

Gene: Mazhar510_31 Start: 22961, Stop: 24817, Start Num: 5

Candidate Starts for Mazhar510_31:

(Start: 5 @22961 has 142 MA's), (25, 23087), (Start: 30 @23111 has 1 MA's), (49, 23216), (50, 23222), (55, 23270), (64, 23321), (75, 23366), (76, 23372), (97, 23477), (99, 23489), (111, 23567), (119, 23636), (145, 23864), (147, 23888), (148, 23891), (154, 23918), (155, 23921), (174, 24026), (178, 24047), (180, 24056), (195, 24161), (204, 24200), (209, 24245), (235, 24407), (236, 24413), (260, 24530), (262, 24536), (274, 24581), (290, 24632), (291, 24635), (306, 24698), (311, 24707), (325, 24794),

Gene: Medusa_31 Start: 22961, Stop: 24817, Start Num: 5

Candidate Starts for Medusa_31:

(Start: 5 @22961 has 142 MA's), (25, 23087), (Start: 30 @23111 has 1 MA's), (49, 23216), (50, 23222), (55, 23270), (58, 23279), (64, 23321), (75, 23366), (76, 23372), (97, 23477), (99, 23489), (111, 23567), (119, 23636), (145, 23864), (147, 23888), (148, 23891), (154, 23918), (155, 23921), (174, 24026), (180, 24056), (183, 24071), (195, 24161), (204, 24200), (209, 24245), (236, 24413), (260, 24530), (262, 24536), (274, 24581), (290, 24632), (291, 24635), (306, 24698), (311, 24707), (325, 24794),

Gene: MeeZee_31 Start: 22960, Stop: 24816, Start Num: 5

Candidate Starts for MeeZee_31:

(Start: 5 @22960 has 142 MA's), (25, 23086), (Start: 30 @23110 has 1 MA's), (49, 23215), (50, 23221), (55, 23269), (58, 23278), (64, 23320), (75, 23365), (76, 23371), (97, 23476), (99, 23488), (111, 23566), (119, 23635), (145, 23863), (147, 23887), (148, 23890), (154, 23917), (155, 23920), (174, 24025), (178, 24046), (180, 24055), (195, 24160), (204, 24199), (209, 24244), (236, 24412), (260, 24529), (262, 24535), (274, 24580), (290, 24631), (291, 24634), (306, 24697), (311, 24706), (325, 24793),

Gene: MegTheThird_31 Start: 22321, Stop: 24066, Start Num: 8

Candidate Starts for MegTheThird_31:

(Start: 8 @22321 has 8 MA's), (34, 22477), (48, 22558), (57, 22624), (66, 22672), (72, 22696), (79, 22741), (91, 22771), (122, 22885), (144, 23062), (182, 23293), (188, 23332), (206, 23446), (227, 23605), (231, 23620), (270, 23806), (279, 23836), (299, 23917), (308, 23950), (322, 24022), (328, 24052), (329, 24055),

Gene: Melvin_31 Start: 22960, Stop: 24816, Start Num: 5

Candidate Starts for Melvin_31:

(Start: 5 @22960 has 142 MA's), (25, 23086), (Start: 30 @23110 has 1 MA's), (49, 23215), (50, 23221), (55, 23269), (58, 23278), (64, 23320), (75, 23365), (76, 23371), (97, 23476), (99, 23488), (111, 23566), (119, 23635), (145, 23863), (147, 23887), (148, 23890), (154, 23917), (155, 23920), (174, 24025), (180, 24055), (183, 24070), (195, 24160), (204, 24199), (209, 24244), (236, 24412), (260, 24529), (262, 24535), (274, 24580), (290, 24631), (291, 24634), (306, 24697), (311, 24706), (325, 24793),

Gene: Millski_30 Start: 22963, Stop: 24819, Start Num: 5

Candidate Starts for Millski_30:

(Start: 5 @22963 has 142 MA's), (25, 23089), (Start: 30 @23113 has 1 MA's), (49, 23218), (50, 23224), (55, 23272), (58, 23281), (64, 23323), (75, 23368), (76, 23374), (97, 23479), (99, 23491), (111, 23569), (119, 23638), (145, 23866), (147, 23890), (148, 23893), (154, 23920), (155, 23923), (174, 24028), (180, 24058), (183, 24073), (195, 24163), (204, 24202), (209, 24247), (236, 24415), (260, 24532), (262, 24538), (274, 24583), (290, 24634), (291, 24637), (306, 24700), (311, 24709), (325, 24796),

Gene: Minispark_29 Start: 22236, Stop: 23978, Start Num: 8

Candidate Starts for Minispark_29:

(Start: 8 @22236 has 8 MA's), (10, 22242), (27, 22359), (34, 22392), (53, 22509), (57, 22539), (66, 22587), (69, 22596), (70, 22599), (91, 22686), (98, 22731), (105, 22758), (128, 22833), (135, 22911), (144, 22977), (165, 23103), (231, 23535), (238, 23580), (267, 23712), (303, 23853), (308, 23865), (319, 23904), (328, 23967),

Gene: Miramae_31 Start: 22903, Stop: 24762, Start Num: 5

Candidate Starts for Miramae_31:

(Start: 5 @22903 has 142 MA's), (17, 22969), (Start: 30 @23053 has 1 MA's), (34, 23071), (42, 23116), (50, 23164), (58, 23221), (64, 23263), (76, 23314), (79, 23335), (87, 23368), (97, 23419), (99, 23431), (106, 23485), (111, 23509), (119, 23578), (145, 23806), (148, 23833), (154, 23860), (155, 23863), (174, 23971), (178, 23992), (180, 24001), (191, 24070), (195, 24106), (204, 24145), (211, 24214), (235, 24352), (260, 24475), (262, 24481), (306, 24643), (311, 24652),

Gene: MissWhite_31 Start: 21856, Stop: 23703, Start Num: 9

Candidate Starts for MissWhite_31:

(Start: 9 @21856 has 27 MA's), (14, 21877), (29, 21985), (50, 22102), (53, 22126), (85, 22306), (103, 22402), (114, 22474), (140, 22711), (151, 22795), (155, 22807), (158, 22828), (165, 22876), (172, 22921), (173, 22927), (175, 22942), (178, 22957), (184, 22990), (186, 23002), (194, 23053), (217, 23221), (225, 23266), (230, 23284), (289, 23512), (296, 23548), (305, 23581),

Gene: Morpher26_31 Start: 22972, Stop: 24831, Start Num: 5

Candidate Starts for Morpher26_31:

(3, 22912), (Start: 5 @22972 has 142 MA's), (17, 23038), (22, 23083), (24, 23089), (Start: 30 @23122 has 1 MA's), (34, 23140), (42, 23185), (43, 23191), (44, 23197), (58, 23290), (60, 23305), (75, 23377), (87, 23437), (97, 23488), (99, 23500), (111, 23578), (119, 23647), (131, 23770), (134, 23794), (145, 23875), (151, 23920), (154, 23929), (155, 23932), (178, 24061), (180, 24070), (187, 24112), (191, 24139), (195, 24175), (200, 24202), (204, 24214), (223, 24370), (260, 24544), (262, 24550), (274, 24595), (290, 24646), (291, 24649), (298, 24685), (311, 24721),

Gene: Morrow_31 Start: 22963, Stop: 24819, Start Num: 5

Candidate Starts for Morrow_31:

(Start: 5 @22963 has 142 MA's), (25, 23089), (Start: 30 @23113 has 1 MA's), (49, 23218), (50, 23224), (55, 23272), (58, 23281), (64, 23323), (75, 23368), (76, 23374), (99, 23491), (111, 23569), (119, 23638), (145, 23866), (147, 23890), (148, 23893), (155, 23923), (174, 24028), (180, 24058), (183, 24073), (195, 24163), (204, 24202), (207, 24229), (209, 24247), (220, 24346), (260, 24532), (274, 24583), (291, 24637), (306, 24700), (311, 24709), (325, 24796),

Gene: Munch_31 Start: 23397, Stop: 25388, Start Num: 2

Candidate Starts for Munch_31:

(Start: 2 @23397 has 11 MA's), (Start: 7 @23508 has 1 MA's), (11, 23517), (18, 23574), (19, 23589), (20, 23607), (21, 23619), (31, 23667), (36, 23685), (37, 23688), (54, 23808), (77, 23922), (80, 23943), (84, 23961), (94, 23994), (118, 24177), (123, 24207), (124, 24210), (139, 24384), (141, 24390), (144, 24414), (146, 24420), (157, 24495), (170, 24558), (177, 24600), (178, 24606), (197, 24729), (205, 24777), (207, 24786), (220, 24903), (222, 24906), (233, 24948), (242, 24990), (247, 25026), (261, 25080), (275, 25131), (276, 25137), (279, 25143), (291, 25185), (316, 25275), (324, 25332), (331, 25371), (333, 25380),

Gene: Mundrea_31 Start: 22930, Stop: 24786, Start Num: 5

Candidate Starts for Mundrea_31:

(Start: 5 @22930 has 142 MA's), (Start: 30 @23080 has 1 MA's), (34, 23098), (38, 23110), (42, 23143), (44, 23155), (58, 23248), (60, 23263), (87, 23395), (97, 23446), (99, 23458), (111, 23536), (119, 23605), (145, 23833), (154, 23887), (155, 23890), (174, 23995), (178, 24016), (180, 24025), (195, 24130), (223, 24325), (236, 24382), (260, 24499), (262, 24505), (311, 24676),

Gene: MyraDee_29 Start: 20768, Stop: 22630, Start Num: 5

Candidate Starts for MyraDee_29:

(Start: 5 @20768 has 142 MA's), (12, 20789), (15, 20810), (26, 20894), (32, 20924), (51, 21038), (61, 21101), (62, 21107), (72, 21152), (111, 21344), (117, 21392), (119, 21413), (131, 21536), (133, 21557), (136, 21581), (154, 21695), (155, 21698), (174, 21806), (178, 21827), (180, 21836), (191, 21905), (195, 21941), (205, 21998), (214, 22085), (216, 22091), (244, 22250), (252, 22289), (258, 22304), (260, 22313), (262, 22319), (280, 22382), (297, 22457), (300, 22472), (304, 22487), (330, 22607),

Gene: Naji_34 Start: 22559, Stop: 24412, Start Num: 9

Candidate Starts for Naji_34:

(Start: 6 @22553 has 3 MA's), (Start: 9 @22559 has 27 MA's), (27, 22679), (44, 22769), (53, 22829), (61, 22880), (78, 22973), (82, 22997), (83, 23003), (151, 23510), (164, 23579), (178, 23666), (193, 23747), (279, 24191), (284, 24206), (296, 24260), (302, 24284), (305, 24293), (317, 24329),

Gene: Nebs_31 Start: 22957, Stop: 24813, Start Num: 5

Candidate Starts for Nebs_31:

(Start: 5 @22957 has 142 MA's), (25, 23083), (Start: 30 @23107 has 1 MA's), (49, 23212), (50, 23218), (55, 23266), (58, 23275), (64, 23317), (75, 23362), (76, 23368), (99, 23485), (111, 23563), (119, 23632), (145, 23860), (147, 23884), (148, 23887), (154, 23914), (155, 23917), (174, 24022), (180, 24052), (183, 24067), (195, 24157), (204, 24196), (207, 24223), (209, 24241), (220, 24340), (260,

24526), (274, 24577), (291, 24631), (306, 24694), (311, 24703), (325, 24790),

Gene: Nemo27_31 Start: 22959, Stop: 24815, Start Num: 5

Candidate Starts for Nemo27_31:

(Start: 5 @22959 has 142 MA's), (25, 23085), (Start: 30 @23109 has 1 MA's), (49, 23214), (50, 23220), (55, 23268), (58, 23277), (64, 23319), (75, 23364), (76, 23370), (97, 23475), (99, 23487), (111, 23565), (119, 23634), (145, 23862), (147, 23886), (148, 23889), (154, 23916), (155, 23919), (174, 24024), (178, 24045), (180, 24054), (195, 24159), (204, 24198), (209, 24243), (235, 24405), (236, 24411), (260, 24528), (262, 24534), (274, 24579), (290, 24630), (291, 24633), (306, 24696), (311, 24705), (325, 24792),

Gene: Nergal_25 Start: 20708, Stop: 22390, Start Num: 30

Candidate Starts for Nergal_25:

(Start: 30 @20708 has 1 MA's), (43, 20774), (100, 21074), (137, 21374), (156, 21488), (166, 21542), (170, 21566), (171, 21578), (177, 21617), (189, 21686), (192, 21701), (198, 21749), (217, 21893), (220, 21923), (226, 21944), (229, 21956), (233, 21968), (271, 22127), (278, 22151), (279, 22154), (281, 22157), (292, 22196), (309, 22250), (321, 22310), (330, 22358),

Gene: Noelle_31 Start: 23041, Stop: 24900, Start Num: 5

Candidate Starts for Noelle_31:

(Start: 5 @23041 has 142 MA's), (31, 23194), (39, 23227), (40, 23233), (42, 23254), (44, 23266), (56, 23353), (60, 23374), (79, 23473), (97, 23557), (99, 23569), (108, 23635), (111, 23647), (119, 23716), (145, 23944), (151, 23989), (154, 23998), (155, 24001), (178, 24130), (180, 24139), (187, 24181), (191, 24208), (195, 24244), (200, 24271), (204, 24283), (207, 24310), (223, 24439), (236, 24496), (237, 24499), (260, 24613), (262, 24619), (282, 24685), (290, 24715), (307, 24784), (311, 24790),

Gene: NorthStar_31 Start: 22960, Stop: 24816, Start Num: 5

Candidate Starts for NorthStar_31:

(Start: 5 @22960 has 142 MA's), (25, 23086), (Start: 30 @23110 has 1 MA's), (49, 23215), (50, 23221), (55, 23269), (58, 23278), (64, 23320), (75, 23365), (76, 23371), (97, 23476), (99, 23488), (106, 23542), (111, 23566), (119, 23635), (145, 23863), (147, 23887), (148, 23890), (154, 23917), (155, 23920), (174, 24025), (180, 24055), (183, 24070), (195, 24160), (204, 24199), (209, 24244), (236, 24412), (260, 24529), (262, 24535), (274, 24580), (290, 24631), (291, 24634), (306, 24697), (311, 24706), (325, 24793),

Gene: NotAPhaseMom_31 Start: 22964, Stop: 24820, Start Num: 5

Candidate Starts for NotAPhaseMom_31:

(Start: 5 @22964 has 142 MA's), (25, 23090), (Start: 30 @23114 has 1 MA's), (49, 23219), (50, 23225), (55, 23273), (58, 23282), (64, 23324), (75, 23369), (76, 23375), (97, 23480), (99, 23492), (111, 23570), (119, 23639), (145, 23867), (147, 23891), (148, 23894), (154, 23921), (155, 23924), (174, 24029), (178, 24050), (180, 24059), (195, 24164), (204, 24203), (209, 24248), (235, 24410), (236, 24416), (260, 24533), (262, 24539), (274, 24584), (290, 24635), (306, 24701), (311, 24710), (325, 24797),

Gene: Nyxis_31 Start: 22903, Stop: 24762, Start Num: 5

Candidate Starts for Nyxis_31:

(Start: 5 @22903 has 142 MA's), (25, 23029), (Start: 30 @23053 has 1 MA's), (49, 23158), (50, 23164), (55, 23212), (58, 23221), (64, 23263), (75, 23308), (76, 23314), (99, 23431), (111, 23509), (119, 23578), (154, 23860), (155, 23863), (174, 23968), (180, 23998), (195, 24103), (204, 24142), (207, 24169), (209, 24187), (262, 24478), (285, 24556), (287, 24568), (290, 24574), (298, 24613), (306, 24640), (310, 24646), (311, 24649), (325, 24739),

Gene: OKaNui_32 Start: 23013, Stop: 24869, Start Num: 5

Candidate Starts for OKaNui_32:

(Start: 5 @23013 has 142 MA's), (25, 23139), (Start: 30 @23163 has 1 MA's), (49, 23268), (50, 23274), (55, 23322), (58, 23331), (64, 23373), (75, 23418), (76, 23424), (97, 23529), (99, 23541), (106, 23595), (111, 23619), (119, 23688), (136, 23856), (145, 23916), (147, 23940), (148, 23943), (151, 23961), (154, 23970), (155, 23973), (174, 24078), (180, 24108), (183, 24123), (195, 24213), (204, 24252), (209, 24297), (236, 24465), (260, 24582), (262, 24588), (274, 24633), (290, 24684), (291, 24687), (306, 24750), (311, 24759), (325, 24846),

Gene: Obama12_32 Start: 23276, Stop: 25132, Start Num: 5

Candidate Starts for Obama12_32:

(Start: 5 @23276 has 142 MA's), (25, 23402), (Start: 30 @23426 has 1 MA's), (49, 23531), (50, 23537), (55, 23585), (64, 23636), (76, 23687), (97, 23792), (99, 23804), (111, 23882), (119, 23951), (136, 24119), (140, 24149), (145, 24179), (147, 24203), (148, 24206), (154, 24233), (155, 24236), (174, 24341), (178, 24362), (180, 24371), (204, 24515), (209, 24560), (235, 24722), (260, 24845), (274, 24896), (306, 25013), (311, 25022), (325, 25109),

Gene: Odin_30 Start: 21523, Stop: 23199, Start Num: 9

Candidate Starts for Odin_30:

(Start: 6 @21517 has 3 MA's), (Start: 9 @21523 has 27 MA's), (27, 21643), (34, 21676), (35, 21679), (41, 21706), (53, 21793), (78, 21880), (102, 21982), (129, 22204), (151, 22390), (172, 22510), (217, 22810), (232, 22885), (237, 22906), (243, 22945), (268, 23035), (297, 23140), (304, 23167), (305, 23170), (311, 23182),

Gene: Ohfah_31 Start: 22957, Stop: 24813, Start Num: 5

Candidate Starts for Ohfah_31:

(Start: 5 @22957 has 142 MA's), (25, 23083), (Start: 30 @23107 has 1 MA's), (49, 23212), (50, 23218), (55, 23266), (58, 23275), (64, 23317), (75, 23362), (76, 23368), (99, 23485), (111, 23563), (119, 23632), (145, 23860), (147, 23884), (148, 23887), (154, 23914), (155, 23917), (174, 24022), (180, 24052), (183, 24067), (195, 24157), (204, 24196), (207, 24223), (209, 24241), (220, 24340), (260, 24526), (274, 24577), (291, 24631), (306, 24694), (311, 24703), (325, 24790),

Gene: Palestino_30 Start: 22960, Stop: 24816, Start Num: 5

Candidate Starts for Palestino_30:

(Start: 5 @22960 has 142 MA's), (25, 23086), (Start: 30 @23110 has 1 MA's), (49, 23215), (50, 23221), (55, 23269), (58, 23278), (64, 23320), (68, 23335), (75, 23365), (76, 23371), (97, 23476), (99, 23488), (111, 23566), (119, 23635), (145, 23863), (147, 23887), (148, 23890), (154, 23917), (155, 23920), (174, 24025), (178, 24046), (180, 24055), (195, 24160), (204, 24199), (209, 24244), (236, 24412), (260, 24529), (262, 24535), (274, 24580), (290, 24631), (291, 24634), (306, 24697), (311, 24706), (325, 24793),

Gene: Peaches_31 Start: 22959, Stop: 24815, Start Num: 5

Candidate Starts for Peaches_31:

(Start: 5 @22959 has 142 MA's), (25, 23085), (Start: 30 @23109 has 1 MA's), (49, 23214), (50, 23220), (55, 23268), (58, 23277), (64, 23319), (75, 23364), (76, 23370), (97, 23475), (99, 23487), (111, 23565), (119, 23634), (145, 23862), (147, 23886), (148, 23889), (154, 23916), (155, 23919), (174, 24024), (180, 24054), (183, 24069), (195, 24159), (204, 24198), (209, 24243), (236, 24411), (260, 24528), (262, 24534), (274, 24579), (290, 24630), (291, 24633), (306, 24696), (311, 24705), (325, 24792),

Gene: Perplexer_31 Start: 22969, Stop: 24828, Start Num: 5

Candidate Starts for Perplexer_31:

(3, 22909), (Start: 5 @22969 has 142 MA's), (17, 23035), (22, 23080), (24, 23086), (Start: 30 @23119 has 1 MA's), (34, 23137), (42, 23182), (43, 23188), (44, 23194), (58, 23287), (60, 23302), (75, 23374), (87, 23434), (97, 23485), (99, 23497), (111, 23575), (119, 23644), (131, 23767), (134, 23791), (145, 23872), (151, 23917), (154, 23926), (155, 23929), (178, 24058), (180, 24067), (187, 24109), (191,

24136), (195, 24172), (200, 24199), (204, 24211), (223, 24367), (260, 24541), (262, 24547), (274, 24592), (290, 24643), (291, 24646), (298, 24682), (311, 24718),

Gene: PeterPeter_31 Start: 22960, Stop: 24816, Start Num: 5

Candidate Starts for PeterPeter_31:

(Start: 5 @22960 has 142 MA's), (25, 23086), (Start: 30 @23110 has 1 MA's), (49, 23215), (50, 23221), (55, 23269), (64, 23320), (75, 23365), (76, 23371), (97, 23476), (99, 23488), (111, 23566), (119, 23635), (145, 23863), (147, 23887), (148, 23890), (154, 23917), (155, 23920), (174, 24025), (178, 24046), (180, 24055), (195, 24160), (204, 24199), (209, 24244), (235, 24406), (236, 24412), (260, 24529), (262, 24535), (274, 24580), (290, 24631), (291, 24634), (306, 24697), (311, 24706), (325, 24793),

Gene: PetiteSangsue_31 Start: 22972, Stop: 24831, Start Num: 5

Candidate Starts for PetiteSangsue_31:

(3, 22912), (Start: 5 @22972 has 142 MA's), (17, 23038), (22, 23083), (24, 23089), (Start: 30 @23122 has 1 MA's), (34, 23140), (42, 23185), (43, 23191), (44, 23197), (58, 23290), (60, 23305), (75, 23377), (87, 23437), (97, 23488), (99, 23500), (111, 23578), (119, 23647), (131, 23770), (134, 23794), (145, 23875), (151, 23920), (154, 23929), (155, 23932), (178, 24061), (180, 24070), (187, 24112), (191, 24139), (195, 24175), (200, 24202), (204, 24214), (223, 24370), (260, 24544), (262, 24550), (274, 24595), (290, 24646), (291, 24649), (298, 24685), (311, 24721),

Gene: Ph8s_32 Start: 21442, Stop: 23091, Start Num: 9

Candidate Starts for Ph8s_32:

(Start: 9 @21442 has 27 MA's), (25, 21553), (33, 21589), (50, 21688), (53, 21712), (82, 21880), (83, 21886), (172, 22504), (176, 22531), (186, 22585), (200, 22678), (205, 22708), (217, 22804), (232, 22876), (249, 22963), (254, 22972), (268, 23020),

Gene: Phacado_31 Start: 22959, Stop: 24815, Start Num: 5

Candidate Starts for Phacado_31:

(Start: 5 @22959 has 142 MA's), (25, 23085), (Start: 30 @23109 has 1 MA's), (49, 23214), (50, 23220), (55, 23268), (58, 23277), (64, 23319), (75, 23364), (76, 23370), (97, 23475), (99, 23487), (111, 23565), (119, 23634), (145, 23862), (147, 23886), (148, 23889), (154, 23916), (155, 23919), (174, 24024), (178, 24045), (180, 24054), (195, 24159), (204, 24198), (209, 24243), (235, 24405), (236, 24411), (260, 24528), (262, 24534), (274, 24579), (290, 24630), (291, 24633), (306, 24696), (311, 24705), (325, 24792),

Gene: Phelipe_31 Start: 22960, Stop: 24816, Start Num: 5

Candidate Starts for Phelipe_31:

(Start: 5 @22960 has 142 MA's), (25, 23086), (Start: 30 @23110 has 1 MA's), (49, 23215), (50, 23221), (55, 23269), (58, 23278), (64, 23320), (75, 23365), (76, 23371), (97, 23476), (99, 23488), (111, 23566), (119, 23635), (145, 23863), (147, 23887), (148, 23890), (154, 23917), (155, 23920), (174, 24025), (180, 24055), (183, 24070), (195, 24160), (204, 24199), (209, 24244), (236, 24412), (260, 24529), (262, 24535), (274, 24580), (290, 24631), (291, 24634), (306, 24697), (311, 24706), (325, 24793),

Gene: Phighter1804_31 Start: 22935, Stop: 24791, Start Num: 5

Candidate Starts for Phighter1804_31:

(Start: 5 @22935 has 142 MA's), (25, 23061), (Start: 30 @23085 has 1 MA's), (49, 23190), (50, 23196), (55, 23244), (58, 23253), (64, 23295), (75, 23340), (76, 23346), (97, 23451), (99, 23463), (107, 23526), (111, 23541), (119, 23610), (136, 23778), (145, 23838), (148, 23865), (154, 23892), (155, 23895), (174, 24000), (178, 24021), (180, 24030), (195, 24135), (209, 24219), (220, 24318), (260, 24504), (262, 24510), (274, 24555), (290, 24606), (291, 24609), (306, 24672), (311, 24681), (325, 24768),

Gene: Phontbonne_31 Start: 22904, Stop: 24763, Start Num: 5

Candidate Starts for Phontbonne_31:

(Start: 5 @22904 has 142 MA's), (25, 23030), (Start: 30 @23054 has 1 MA's), (49, 23159), (50, 23165), (55, 23213), (58, 23222), (64, 23264), (75, 23309), (76, 23315), (99, 23432), (111, 23510), (119, 23579), (154, 23861), (155, 23864), (174, 23969), (180, 23999), (195, 24104), (204, 24143), (207, 24170), (209, 24188), (262, 24479), (285, 24557), (287, 24569), (290, 24575), (298, 24614), (306, 24641), (310, 24647), (325, 24740),

Gene: Pipcraft_31 Start: 22960, Stop: 24816, Start Num: 5

Candidate Starts for Pipcraft_31:

(Start: 5 @22960 has 142 MA's), (25, 23086), (Start: 30 @23110 has 1 MA's), (49, 23215), (50, 23221), (55, 23269), (64, 23320), (75, 23365), (76, 23371), (97, 23476), (99, 23488), (111, 23566), (119, 23635), (145, 23863), (147, 23887), (148, 23890), (154, 23917), (155, 23920), (174, 24025), (180, 24055), (183, 24070), (195, 24160), (204, 24199), (209, 24244), (236, 24412), (260, 24529), (262, 24535), (274, 24580), (290, 24631), (291, 24634), (306, 24697), (311, 24706), (325, 24793),

Gene: Polymorphads_31 Start: 22957, Stop: 24813, Start Num: 5

Candidate Starts for Polymorphads_31:

(Start: 5 @22957 has 142 MA's), (25, 23083), (Start: 30 @23107 has 1 MA's), (49, 23212), (50, 23218), (55, 23266), (58, 23275), (64, 23317), (75, 23362), (76, 23368), (99, 23485), (111, 23563), (119, 23632), (145, 23860), (147, 23884), (148, 23887), (154, 23914), (155, 23917), (174, 24022), (180, 24052), (183, 24067), (195, 24157), (204, 24196), (207, 24223), (209, 24241), (220, 24340), (260, 24526), (274, 24577), (291, 24631), (306, 24694), (311, 24703), (325, 24790),

Gene: Pomar16_34 Start: 22600, Stop: 24453, Start Num: 9

Candidate Starts for Pomar16_34:

(Start: 6 @22594 has 3 MA's), (Start: 9 @22600 has 27 MA's), (27, 22720), (44, 22810), (53, 22870), (55, 22894), (61, 22921), (78, 23014), (82, 23038), (83, 23044), (151, 23551), (164, 23620), (193, 23788), (217, 23971), (279, 24232), (284, 24247), (296, 24301), (299, 24310), (302, 24325), (305, 24334), (317, 24370),

Gene: Pukovnik_33 Start: 24251, Stop: 26089, Start Num: 9

Candidate Starts for Pukovnik_33:

(Start: 9 @24251 has 27 MA's), (14, 24272), (25, 24362), (27, 24371), (41, 24428), (44, 24455), (58, 24548), (65, 24593), (86, 24689), (119, 24905), (131, 25028), (132, 25037), (145, 25133), (154, 25187), (155, 25190), (174, 25298), (180, 25328), (191, 25397), (195, 25433), (199, 25445), (204, 25472), (260, 25802), (274, 25853), (285, 25886), (290, 25904), (291, 25907), (306, 25970),

Gene: Pumbaa_31 Start: 22935, Stop: 24791, Start Num: 5

Candidate Starts for Pumbaa_31:

(Start: 5 @22935 has 142 MA's), (25, 23061), (Start: 30 @23085 has 1 MA's), (50, 23196), (55, 23244), (57, 23250), (58, 23253), (64, 23295), (76, 23346), (97, 23451), (99, 23463), (111, 23541), (119, 23610), (136, 23778), (140, 23808), (145, 23838), (148, 23865), (154, 23892), (155, 23895), (174, 24000), (178, 24021), (180, 24030), (195, 24135), (204, 24174), (207, 24201), (209, 24219), (210, 24222), (223, 24330), (236, 24387), (260, 24504), (262, 24510), (306, 24672), (311, 24681),

Gene: Quokka_29 Start: 21646, Stop: 23397, Start Num: 9

Candidate Starts for Quokka_29:

(Start: 9 @21646 has 27 MA's), (14, 21667), (27, 21766), (Start: 30 @21781 has 1 MA's), (44, 21856), (53, 21916), (74, 22027), (78, 22060), (82, 22084), (83, 22090), (99, 22162), (110, 22237), (115, 22270), (118, 22300), (151, 22588), (172, 22708), (184, 22777), (217, 23008), (232, 23083), (235, 23095), (237, 23104), (243, 23143), (297, 23338), (304, 23365), (305, 23368), (311, 23380),

Gene: Rahalelujah_30 Start: 22236, Stop: 23978, Start Num: 8

Candidate Starts for Rahalelujah_30:

(Start: 8 @22236 has 8 MA's), (10, 22242), (27, 22359), (34, 22392), (53, 22509), (57, 22539), (66, 22587), (69, 22596), (70, 22599), (91, 22686), (98, 22731), (105, 22758), (128, 22833), (135, 22911), (144, 22977), (165, 23103), (231, 23535), (238, 23580), (267, 23712), (303, 23853), (308, 23865), (319, 23904), (328, 23967),

Gene: Relief_31 Start: 22958, Stop: 24814, Start Num: 5

Candidate Starts for Relief_31:

(Start: 5 @22958 has 142 MA's), (25, 23084), (Start: 30 @23108 has 1 MA's), (49, 23213), (50, 23219), (55, 23267), (64, 23318), (75, 23363), (76, 23369), (97, 23474), (99, 23486), (111, 23564), (119, 23633), (145, 23861), (147, 23885), (148, 23888), (154, 23915), (155, 23918), (174, 24023), (180, 24053), (183, 24068), (195, 24158), (204, 24197), (209, 24242), (236, 24410), (260, 24527), (262, 24533), (274, 24578), (290, 24629), (291, 24632), (306, 24695), (311, 24704), (325, 24791),

Gene: RockieBear_30 Start: 22960, Stop: 24816, Start Num: 5

Candidate Starts for RockieBear_30:

(Start: 5 @22960 has 142 MA's), (25, 23086), (Start: 30 @23110 has 1 MA's), (49, 23215), (50, 23221), (55, 23269), (58, 23278), (64, 23320), (75, 23365), (76, 23371), (97, 23476), (99, 23488), (111, 23566), (119, 23635), (145, 23863), (147, 23887), (148, 23890), (154, 23917), (155, 23920), (174, 24025), (180, 24055), (183, 24070), (195, 24160), (204, 24199), (209, 24244), (236, 24412), (260, 24529), (262, 24535), (274, 24580), (290, 24631), (291, 24634), (306, 24697), (311, 24706), (325, 24793),

Gene: Romney_31 Start: 22960, Stop: 24816, Start Num: 5

Candidate Starts for Romney_31:

(Start: 5 @22960 has 142 MA's), (25, 23086), (Start: 30 @23110 has 1 MA's), (49, 23215), (50, 23221), (55, 23269), (58, 23278), (64, 23320), (75, 23365), (76, 23371), (97, 23476), (99, 23488), (111, 23566), (119, 23635), (145, 23863), (147, 23887), (148, 23890), (154, 23917), (155, 23920), (174, 24025), (180, 24055), (183, 24070), (195, 24160), (204, 24199), (209, 24244), (236, 24412), (260, 24529), (262, 24535), (274, 24580), (290, 24631), (291, 24634), (306, 24697), (311, 24706), (325, 24793),

Gene: Roosevelt_31 Start: 22960, Stop: 24816, Start Num: 5

Candidate Starts for Roosevelt_31:

(Start: 5 @22960 has 142 MA's), (25, 23086), (Start: 30 @23110 has 1 MA's), (49, 23215), (50, 23221), (55, 23269), (58, 23278), (64, 23320), (75, 23365), (76, 23371), (97, 23476), (99, 23488), (111, 23566), (119, 23635), (145, 23863), (147, 23887), (148, 23890), (154, 23917), (155, 23920), (174, 24025), (180, 24055), (183, 24070), (195, 24160), (204, 24199), (209, 24244), (236, 24412), (260, 24529), (262, 24535), (274, 24580), (290, 24631), (291, 24634), (306, 24697), (311, 24706), (325, 24793),

Gene: Rosa24_30 Start: 22935, Stop: 24791, Start Num: 5

Candidate Starts for Rosa24_30:

(Start: 5 @22935 has 142 MA's), (25, 23061), (Start: 30 @23085 has 1 MA's), (55, 23244), (58, 23253), (64, 23295), (75, 23340), (76, 23346), (97, 23451), (99, 23463), (111, 23541), (119, 23610), (136, 23778), (140, 23808), (145, 23838), (148, 23865), (154, 23892), (155, 23895), (174, 24000), (178, 24021), (180, 24030), (195, 24135), (204, 24174), (209, 24219), (235, 24381), (260, 24504), (262, 24510), (306, 24672), (311, 24681),

Gene: Ruin_31 Start: 22956, Stop: 24812, Start Num: 5

Candidate Starts for Ruin_31:

(Start: 5 @22956 has 142 MA's), (25, 23082), (Start: 30 @23106 has 1 MA's), (49, 23211), (50, 23217), (55, 23265), (58, 23274), (64, 23316), (75, 23361), (76, 23367), (97, 23472), (99, 23484), (111, 23562), (119, 23631), (145, 23859), (147, 23883), (148, 23886), (154, 23913), (155, 23916), (174, 24021), (180, 24051), (183, 24066), (195, 24156), (204, 24195), (209, 24240), (236, 24408), (260, 24525), (262, 24531), (274, 24576), (290, 24627), (291, 24630), (306, 24693), (311, 24702), (325, 24789),

Gene: Sabertooth_31 Start: 22957, Stop: 24813, Start Num: 5

Candidate Starts for Sabertooth_31:

(Start: 5 @22957 has 142 MA's), (25, 23083), (Start: 30 @23107 has 1 MA's), (49, 23212), (50, 23218), (55, 23266), (58, 23275), (64, 23317), (75, 23362), (76, 23368), (97, 23473), (99, 23485), (111, 23563), (119, 23632), (145, 23860), (147, 23884), (148, 23887), (154, 23914), (155, 23917), (174, 24022), (180, 24052), (183, 24067), (195, 24157), (204, 24196), (209, 24241), (236, 24409), (260, 24526), (262, 24532), (274, 24577), (290, 24628), (291, 24631), (306, 24694), (311, 24703), (325, 24790),

Gene: Scamp_31 Start: 22960, Stop: 24816, Start Num: 5

Candidate Starts for Scamp_31:

(Start: 5 @22960 has 142 MA's), (25, 23086), (Start: 30 @23110 has 1 MA's), (49, 23215), (50, 23221), (55, 23269), (64, 23320), (75, 23365), (76, 23371), (97, 23476), (99, 23488), (111, 23566), (119, 23635), (145, 23863), (147, 23887), (148, 23890), (154, 23917), (155, 23920), (174, 24025), (180, 24055), (195, 24160), (204, 24199), (209, 24244), (236, 24412), (260, 24529), (262, 24535), (274, 24580), (290, 24631), (291, 24634), (306, 24697), (311, 24706), (325, 24793),

Gene: SenorClean_31 Start: 22960, Stop: 24816, Start Num: 5

Candidate Starts for SenorClean_31:

(Start: 5 @22960 has 142 MA's), (25, 23086), (Start: 30 @23110 has 1 MA's), (49, 23215), (50, 23221), (55, 23269), (58, 23278), (64, 23320), (75, 23365), (76, 23371), (97, 23476), (99, 23488), (111, 23566), (119, 23635), (145, 23863), (147, 23887), (148, 23890), (154, 23917), (155, 23920), (174, 24025), (180, 24055), (183, 24070), (195, 24160), (204, 24199), (209, 24244), (236, 24412), (260, 24529), (262, 24535), (274, 24580), (290, 24631), (291, 24634), (306, 24697), (311, 24706), (325, 24793),

Gene: Serenity_30 Start: 21771, Stop: 23522, Start Num: 9

Candidate Starts for Serenity_30:

(Start: 9 @21771 has 27 MA's), (14, 21792), (27, 21891), (Start: 30 @21906 has 1 MA's), (44, 21981), (53, 22041), (74, 22152), (78, 22185), (82, 22209), (83, 22215), (99, 22287), (115, 22395), (127, 22512), (151, 22713), (172, 22833), (184, 22902), (217, 23133), (232, 23208), (235, 23220), (237, 23229), (243, 23268), (297, 23463), (304, 23490), (305, 23493), (311, 23505),

Gene: Shaka_31 Start: 22960, Stop: 24816, Start Num: 5

Candidate Starts for Shaka_31:

(Start: 5 @22960 has 142 MA's), (25, 23086), (Start: 30 @23110 has 1 MA's), (49, 23215), (50, 23221), (55, 23269), (64, 23320), (75, 23365), (76, 23371), (97, 23476), (99, 23488), (111, 23566), (119, 23635), (145, 23863), (147, 23887), (148, 23890), (154, 23917), (155, 23920), (174, 24025), (178, 24046), (180, 24055), (195, 24160), (204, 24199), (209, 24244), (235, 24406), (236, 24412), (260, 24529), (262, 24535), (274, 24580), (290, 24631), (291, 24634), (306, 24697), (311, 24706), (325, 24793),

Gene: SheaKeira_31 Start: 22351, Stop: 24009, Start Num: 8

Candidate Starts for SheaKeira_31:

(Start: 8 @22351 has 8 MA's), (23, 22453), (34, 22507), (40, 22531), (41, 22537), (52, 22618), (53, 22624), (57, 22654), (66, 22702), (72, 22726), (91, 22801), (144, 23092), (179, 23308), (188, 23362), (206, 23476), (208, 23488), (227, 23635), (231, 23650), (302, 23875), (320, 23938),

Gene: SheldonCooper_32 Start: 23275, Stop: 25131, Start Num: 5

Candidate Starts for SheldonCooper_32:

(Start: 5 @23275 has 142 MA's), (25, 23401), (Start: 30 @23425 has 1 MA's), (49, 23530), (50, 23536), (55, 23584), (64, 23635), (76, 23686), (97, 23791), (99, 23803), (111, 23881), (119, 23950), (136, 24118), (140, 24148), (145, 24178), (147, 24202), (148, 24205), (154, 24232), (155, 24235), (174, 24340), (178, 24361), (180, 24370), (204, 24514), (209, 24559), (235, 24721), (260, 24844), (274,

24895), (306, 25012), (311, 25021), (325, 25108),

Gene: Shygu2_31 Start: 22966, Stop: 24825, Start Num: 5

Candidate Starts for Shygu2_31:

(3, 22903), (Start: 5 @22966 has 142 MA's), (16, 23014), (17, 23032), (Start: 30 @23116 has 1 MA's), (34, 23134), (42, 23179), (44, 23191), (75, 23371), (87, 23431), (97, 23482), (99, 23494), (111, 23572), (119, 23641), (145, 23869), (148, 23896), (154, 23923), (155, 23926), (174, 24034), (178, 24055), (180, 24064), (191, 24133), (195, 24169), (204, 24208), (235, 24415), (260, 24538), (274, 24589), (306, 24706), (311, 24715),

Gene: Skipitt_31 Start: 22957, Stop: 24813, Start Num: 5

Candidate Starts for Skipitt_31:

(Start: 5 @22957 has 142 MA's), (25, 23083), (Start: 30 @23107 has 1 MA's), (49, 23212), (50, 23218), (55, 23266), (58, 23275), (64, 23317), (75, 23362), (76, 23368), (97, 23473), (99, 23485), (111, 23563), (119, 23632), (145, 23860), (147, 23884), (148, 23887), (154, 23914), (155, 23917), (174, 24022), (180, 24052), (183, 24067), (195, 24157), (204, 24196), (209, 24241), (236, 24409), (260, 24526), (262, 24532), (274, 24577), (290, 24628), (291, 24631), (306, 24694), (311, 24703), (325, 24790),

Gene: Sparxx_31 Start: 22958, Stop: 24814, Start Num: 5

Candidate Starts for Sparxx_31:

(Start: 5 @22958 has 142 MA's), (25, 23084), (Start: 30 @23108 has 1 MA's), (49, 23213), (50, 23219), (55, 23267), (58, 23276), (64, 23318), (75, 23363), (76, 23369), (97, 23474), (99, 23486), (111, 23564), (119, 23633), (145, 23861), (147, 23885), (148, 23888), (154, 23915), (155, 23918), (174, 24023), (180, 24053), (183, 24068), (195, 24158), (204, 24197), (207, 24224), (209, 24242), (220, 24341), (260, 24527), (274, 24578), (291, 24632), (306, 24695), (311, 24704), (325, 24791),

Gene: Spino_31 Start: 22960, Stop: 24816, Start Num: 5

Candidate Starts for Spino_31:

(Start: 5 @22960 has 142 MA's), (25, 23086), (Start: 30 @23110 has 1 MA's), (49, 23215), (50, 23221), (55, 23269), (58, 23278), (64, 23320), (75, 23365), (76, 23371), (97, 23476), (99, 23488), (111, 23566), (119, 23635), (145, 23863), (147, 23887), (148, 23890), (154, 23917), (155, 23920), (174, 24025), (178, 24046), (180, 24055), (195, 24160), (204, 24199), (209, 24244), (235, 24406), (236, 24412), (260, 24529), (262, 24535), (274, 24580), (290, 24631), (291, 24634), (306, 24697), (311, 24706), (325, 24793),

Gene: StarStuff_34 Start: 22559, Stop: 24412, Start Num: 9

Candidate Starts for StarStuff_34:

(Start: 6 @22553 has 3 MA's), (Start: 9 @22559 has 27 MA's), (27, 22679), (44, 22769), (53, 22829), (61, 22880), (78, 22973), (82, 22997), (83, 23003), (151, 23510), (164, 23579), (178, 23666), (193, 23747), (217, 23930), (266, 24149), (269, 24161), (279, 24191), (296, 24260), (302, 24284), (305, 24293), (317, 24329),

Gene: SteMason_30 Start: 22960, Stop: 24816, Start Num: 5

Candidate Starts for SteMason_30:

(Start: 5 @22960 has 142 MA's), (25, 23086), (Start: 30 @23110 has 1 MA's), (49, 23215), (50, 23221), (55, 23269), (58, 23278), (64, 23320), (75, 23365), (76, 23371), (97, 23476), (99, 23488), (111, 23566), (119, 23635), (145, 23863), (147, 23887), (148, 23890), (154, 23917), (155, 23920), (174, 24025), (180, 24055), (183, 24070), (195, 24160), (204, 24199), (209, 24244), (236, 24412), (260, 24529), (262, 24535), (274, 24580), (290, 24631), (291, 24634), (306, 24697), (311, 24706), (325, 24793),

Gene: Stink_32 Start: 23240, Stop: 25099, Start Num: 5

Candidate Starts for Stink_32:

(Start: 5 @23240 has 142 MA's), (17, 23306), (Start: 30 @23390 has 1 MA's), (34, 23408), (42, 23453), (50, 23501), (58, 23558), (64, 23600), (76, 23651), (79, 23672), (87, 23705), (97, 23756), (99, 23768), (106, 23822), (111, 23846), (119, 23915), (145, 24143), (148, 24170), (154, 24197), (155, 24200), (174, 24308), (178, 24329), (180, 24338), (191, 24407), (195, 24443), (204, 24482), (211, 24551), (235, 24689), (260, 24812), (262, 24818), (306, 24980), (311, 24989),

Gene: Sultana_31 Start: 22961, Stop: 24817, Start Num: 5

Candidate Starts for Sultana_31:

(Start: 5 @22961 has 142 MA's), (25, 23087), (Start: 30 @23111 has 1 MA's), (49, 23216), (50, 23222), (55, 23270), (64, 23321), (75, 23366), (76, 23372), (97, 23477), (99, 23489), (111, 23567), (119, 23636), (145, 23864), (147, 23888), (148, 23891), (154, 23918), (155, 23921), (174, 24026), (178, 24047), (180, 24056), (195, 24161), (204, 24200), (209, 24245), (235, 24407), (236, 24413), (260, 24530), (262, 24536), (274, 24581), (290, 24632), (291, 24635), (306, 24698), (311, 24707), (325, 24794),

Gene: Sunhee_30 Start: 22065, Stop: 23957, Start Num: 9

Candidate Starts for Sunhee_30:

(Start: 9 @22065 has 27 MA's), (14, 22086), (41, 22248), (45, 22278), (51, 22323), (53, 22335), (84, 22524), (88, 22536), (103, 22638), (137, 22980), (138, 22983), (149, 23064), (161, 23124), (165, 23148), (182, 23253), (188, 23292), (195, 23349), (196, 23352), (227, 23565), (231, 23580), (253, 23700), (328, 23946), (329, 23949),

Gene: Superchunk_30 Start: 21397, Stop: 22950, Start Num: 9

Candidate Starts for Superchunk_30:

(Start: 6 @21391 has 3 MA's), (Start: 9 @21397 has 27 MA's), (27, 21517), (34, 21550), (35, 21553), (41, 21580), (53, 21667), (78, 21754), (102, 21856), (172, 22384), (173, 22390), (178, 22420), (184, 22453), (186, 22465), (200, 22558), (205, 22588), (217, 22684), (232, 22756), (245, 22822), (248, 22834), (264, 22879),

Gene: SwirlSquare_32 Start: 21533, Stop: 23197, Start Num: 9

Candidate Starts for SwirlSquare_32:

(Start: 9 @21533 has 27 MA's), (25, 21644), (33, 21680), (50, 21779), (53, 21803), (82, 21971), (83, 21977), (172, 22598), (186, 22679), (200, 22772), (205, 22802), (217, 22898), (232, 22970), (249, 23057), (268, 23126),

Gene: Taquarus_31 Start: 22963, Stop: 24819, Start Num: 5

Candidate Starts for Taquarus_31:

(Start: 5 @22963 has 142 MA's), (25, 23089), (Start: 30 @23113 has 1 MA's), (49, 23218), (50, 23224), (55, 23272), (58, 23281), (64, 23323), (75, 23368), (76, 23374), (97, 23479), (99, 23491), (111, 23569), (119, 23638), (145, 23866), (147, 23890), (148, 23893), (154, 23920), (155, 23923), (174, 24028), (180, 24058), (183, 24073), (195, 24163), (204, 24202), (209, 24247), (236, 24415), (260, 24532), (262, 24538), (274, 24583), (290, 24634), (291, 24637), (306, 24700), (311, 24709), (325, 24796),

Gene: Thanksgivukkah_31 Start: 22961, Stop: 24817, Start Num: 5

Candidate Starts for Thanksgivukkah_31:

(Start: 5 @22961 has 142 MA's), (25, 23087), (Start: 30 @23111 has 1 MA's), (49, 23216), (50, 23222), (55, 23270), (58, 23279), (64, 23321), (75, 23366), (76, 23372), (97, 23477), (99, 23489), (111, 23567), (119, 23636), (145, 23864), (147, 23888), (148, 23891), (154, 23918), (155, 23921), (174, 24026), (180, 24056), (183, 24071), (195, 24161), (204, 24200), (209, 24245), (236, 24413), (260, 24530), (262, 24536), (274, 24581), (290, 24632), (291, 24635), (306, 24698), (311, 24707), (325, 24794),

Gene: TinaFeyge_31 Start: 22957, Stop: 24813, Start Num: 5

Candidate Starts for TinaFeyge_31:

(Start: 5 @22957 has 142 MA's), (25, 23083), (Start: 30 @23107 has 1 MA's), (49, 23212), (50, 23218), (55, 23266), (58, 23275), (64, 23317), (75, 23362), (76, 23368), (97, 23473), (99, 23485), (106, 23539), (111, 23563), (119, 23632), (145, 23860), (147, 23884), (148, 23887), (154, 23914), (155, 23917), (174, 24022), (180, 24052), (183, 24067), (195, 24157), (204, 24196), (209, 24241), (236, 24409), (260, 24526), (262, 24532), (274, 24577), (290, 24628), (291, 24631), (306, 24694), (311, 24703), (325, 24790),

Gene: Tinybot_30 Start: 22937, Stop: 24793, Start Num: 5

Candidate Starts for Tinybot_30:

(Start: 5 @22937 has 142 MA's), (25, 23063), (Start: 30 @23087 has 1 MA's), (55, 23246), (58, 23255), (64, 23297), (75, 23342), (76, 23348), (97, 23453), (99, 23465), (111, 23543), (119, 23612), (136, 23780), (140, 23810), (145, 23840), (148, 23867), (154, 23894), (155, 23897), (174, 24002), (178, 24023), (180, 24032), (195, 24137), (204, 24176), (209, 24221), (235, 24383), (260, 24506), (262, 24512), (306, 24674), (311, 24683),

Gene: TopsytheTRex_30 Start: 21878, Stop: 23713, Start Num: 8

Candidate Starts for TopsytheTRex_30:

(Start: 8 @21878 has 8 MA's), (27, 22001), (Start: 30 @22016 has 1 MA's), (34, 22034), (44, 22091), (51, 22139), (53, 22151), (74, 22262), (82, 22319), (83, 22325), (115, 22505), (125, 22589), (129, 22640), (130, 22661), (140, 22727), (151, 22811), (155, 22823), (172, 22931), (186, 23012), (202, 23111), (217, 23231), (260, 23435), (266, 23450), (296, 23561), (310, 23603),

Gene: TiroTheta9_31 Start: 22957, Stop: 24813, Start Num: 5

Candidate Starts for TiroTheta9_31:

(Start: 5 @22957 has 142 MA's), (25, 23083), (Start: 30 @23107 has 1 MA's), (49, 23212), (50, 23218), (55, 23266), (58, 23275), (64, 23317), (75, 23362), (76, 23368), (97, 23473), (99, 23485), (111, 23563), (119, 23632), (145, 23860), (147, 23884), (148, 23887), (154, 23914), (155, 23917), (174, 24022), (180, 24052), (183, 24067), (195, 24157), (204, 24196), (209, 24241), (236, 24409), (260, 24526), (262, 24532), (274, 24577), (290, 24628), (291, 24631), (306, 24694), (311, 24703), (325, 24790),

Gene: Toaka_30 Start: 22544, Stop: 24361, Start Num: 8

Candidate Starts for Toaka_30:

(Start: 8 @22544 has 8 MA's), (10, 22550), (24, 22649), (50, 22793), (53, 22817), (120, 23180), (122, 23183), (128, 23216), (135, 23294), (137, 23318), (142, 23336), (144, 23360), (165, 23486), (179, 23576), (201, 23714), (231, 23918), (238, 23963), (240, 23972), (256, 24047), (257, 24050), (328, 24350),

Gene: Tomathan_34 Start: 22559, Stop: 24412, Start Num: 9

Candidate Starts for Tomathan_34:

(Start: 6 @22553 has 3 MA's), (Start: 9 @22559 has 27 MA's), (27, 22679), (44, 22769), (53, 22829), (61, 22880), (78, 22973), (82, 22997), (83, 23003), (151, 23510), (164, 23579), (178, 23666), (193, 23747), (217, 23930), (266, 24149), (269, 24161), (279, 24191), (296, 24260), (302, 24284), (305, 24293), (317, 24329),

Gene: Travvers_34 Start: 22559, Stop: 24412, Start Num: 9

Candidate Starts for Travvers_34:

(Start: 6 @22553 has 3 MA's), (Start: 9 @22559 has 27 MA's), (27, 22679), (44, 22769), (53, 22829), (61, 22880), (78, 22973), (82, 22997), (83, 23003), (151, 23510), (164, 23579), (178, 23666), (193, 23747), (279, 24191), (284, 24206), (296, 24260), (302, 24284), (305, 24293), (317, 24329),

Gene: TroyPia_31 Start: 22960, Stop: 24816, Start Num: 5

Candidate Starts for TroyPia_31:

(Start: 5 @22960 has 142 MA's), (25, 23086), (Start: 30 @23110 has 1 MA's), (49, 23215), (50, 23221), (55, 23269), (64, 23320), (75, 23365), (76, 23371), (97, 23476), (99, 23488), (111, 23566), (119, 23635), (145, 23863), (147, 23887), (148, 23890), (154, 23917), (155, 23920), (174, 24025), (180, 24055), (183, 24070), (195, 24160), (204, 24199), (209, 24244), (236, 24412), (260, 24529), (262, 24535), (274, 24580), (290, 24631), (291, 24634), (306, 24697), (311, 24706), (325, 24793),

Gene: TygerBlood_31 Start: 22960, Stop: 24816, Start Num: 5

Candidate Starts for TygerBlood_31:

(Start: 5 @22960 has 142 MA's), (25, 23086), (Start: 30 @23110 has 1 MA's), (49, 23215), (50, 23221), (55, 23269), (58, 23278), (64, 23320), (75, 23365), (76, 23371), (97, 23476), (99, 23488), (111, 23566), (119, 23635), (145, 23863), (147, 23887), (148, 23890), (154, 23917), (155, 23920), (174, 24025), (180, 24055), (183, 24070), (195, 24160), (204, 24199), (209, 24244), (236, 24412), (260, 24529), (262, 24535), (274, 24580), (290, 24631), (291, 24634), (306, 24697), (311, 24706), (325, 24793),

Gene: Ulysses_30 Start: 22678, Stop: 24534, Start Num: 5

Candidate Starts for Ulysses_30:

(Start: 5 @22678 has 142 MA's), (25, 22804), (Start: 30 @22828 has 1 MA's), (49, 22933), (50, 22939), (55, 22987), (58, 22996), (64, 23038), (75, 23083), (76, 23089), (97, 23194), (99, 23206), (107, 23269), (111, 23284), (119, 23353), (136, 23521), (145, 23581), (148, 23608), (154, 23635), (155, 23638), (174, 23743), (178, 23764), (180, 23773), (195, 23878), (209, 23962), (220, 24061), (260, 24247), (262, 24253), (274, 24298), (290, 24349), (291, 24352), (306, 24415), (311, 24424), (325, 24511),

Gene: VA6_31 Start: 22715, Stop: 24568, Start Num: 9

Candidate Starts for VA6_31:

(Start: 6 @22709 has 3 MA's), (Start: 9 @22715 has 27 MA's), (27, 22835), (44, 22925), (53, 22985), (55, 23009), (61, 23036), (78, 23129), (82, 23153), (83, 23159), (103, 23261), (151, 23666), (164, 23735), (193, 23903), (205, 23990), (217, 24086), (246, 24233), (279, 24347), (296, 24416), (302, 24440), (314, 24470), (317, 24485),

Gene: VC3_34 Start: 22703, Stop: 24556, Start Num: 9

Candidate Starts for VC3_34:

(Start: 6 @22697 has 3 MA's), (Start: 9 @22703 has 27 MA's), (27, 22823), (44, 22913), (53, 22973), (55, 22997), (61, 23024), (78, 23117), (82, 23141), (83, 23147), (103, 23249), (151, 23654), (164, 23723), (193, 23891), (205, 23978), (217, 24074), (246, 24221), (279, 24335), (296, 24404), (302, 24428), (314, 24458), (317, 24473),

Gene: Wander_31 Start: 22960, Stop: 24816, Start Num: 5

Candidate Starts for Wander_31:

(Start: 5 @22960 has 142 MA's), (25, 23086), (Start: 30 @23110 has 1 MA's), (49, 23215), (50, 23221), (55, 23269), (58, 23278), (64, 23320), (75, 23365), (76, 23371), (97, 23476), (99, 23488), (111, 23566), (119, 23635), (145, 23863), (147, 23887), (148, 23890), (154, 23917), (155, 23920), (174, 24025), (178, 24046), (180, 24055), (195, 24160), (204, 24199), (209, 24244), (235, 24406), (236, 24412), (260, 24529), (262, 24535), (274, 24580), (290, 24631), (291, 24634), (306, 24697), (311, 24706), (325, 24793),

Gene: Wilbur_31 Start: 22960, Stop: 24816, Start Num: 5

Candidate Starts for Wilbur_31:

(Start: 5 @22960 has 142 MA's), (25, 23086), (Start: 30 @23110 has 1 MA's), (49, 23215), (50, 23221), (55, 23269), (58, 23278), (64, 23320), (75, 23365), (76, 23371), (97, 23476), (99, 23488), (111, 23566), (119, 23635), (145, 23863), (147, 23887), (148, 23890), (154, 23917), (155, 23920), (174, 24025), (180, 24055), (183, 24070), (195, 24160), (204, 24199), (209, 24244), (236, 24412), (260, 24529), (262, 24535), (274, 24580), (290, 24631), (291, 24634), (306, 24697), (311, 24706), (325, 24793),

Gene: Wile_31 Start: 22982, Stop: 24841, Start Num: 5

Candidate Starts for Wile_31:

(3, 22922), (4, 22937), (Start: 5 @22982 has 142 MA's), (17, 23048), (22, 23093), (24, 23099), (Start: 30 @23132 has 1 MA's), (34, 23150), (42, 23195), (43, 23201), (44, 23207), (58, 23300), (60, 23315), (75, 23387), (87, 23447), (97, 23498), (99, 23510), (111, 23588), (119, 23657), (131, 23780), (134, 23804), (145, 23885), (151, 23930), (154, 23939), (155, 23942), (178, 24071), (180, 24080), (187, 24122), (191, 24149), (195, 24185), (200, 24212), (204, 24224), (223, 24380), (260, 24554), (262, 24560), (274, 24605), (290, 24656), (291, 24659), (298, 24695), (311, 24731),

Gene: Wizard007_31 Start: 22962, Stop: 24818, Start Num: 5

Candidate Starts for Wizard007_31:

(Start: 5 @22962 has 142 MA's), (25, 23088), (Start: 30 @23112 has 1 MA's), (49, 23217), (50, 23223), (55, 23271), (58, 23280), (64, 23322), (75, 23367), (76, 23373), (97, 23478), (99, 23490), (111, 23568), (119, 23637), (145, 23865), (147, 23889), (148, 23892), (154, 23919), (155, 23922), (174, 24027), (180, 24057), (183, 24072), (195, 24162), (204, 24201), (209, 24246), (236, 24414), (260, 24531), (262, 24537), (274, 24582), (290, 24633), (291, 24636), (306, 24699), (311, 24708), (325, 24795),

Gene: WorldCup_29 Start: 22236, Stop: 23978, Start Num: 8

Candidate Starts for WorldCup_29:

(Start: 8 @22236 has 8 MA's), (10, 22242), (27, 22359), (34, 22392), (53, 22509), (57, 22539), (66, 22587), (69, 22596), (70, 22599), (91, 22686), (98, 22731), (105, 22758), (128, 22833), (135, 22911), (144, 22977), (165, 23103), (231, 23535), (238, 23580), (267, 23712), (303, 23853), (308, 23865), (319, 23904), (328, 23967),

Gene: Xena_31 Start: 22969, Stop: 24828, Start Num: 5

Candidate Starts for Xena_31:

(3, 22909), (Start: 5 @22969 has 142 MA's), (17, 23035), (22, 23080), (24, 23086), (Start: 30 @23119 has 1 MA's), (34, 23137), (42, 23182), (43, 23188), (44, 23194), (58, 23287), (60, 23302), (75, 23374), (87, 23434), (97, 23485), (99, 23497), (111, 23575), (119, 23644), (131, 23767), (134, 23791), (145, 23872), (151, 23917), (154, 23926), (155, 23929), (178, 24058), (180, 24067), (187, 24109), (191, 24136), (195, 24172), (200, 24199), (204, 24211), (223, 24367), (260, 24541), (262, 24547), (274, 24592), (290, 24643), (291, 24646), (298, 24682), (311, 24718),

Gene: XianYue_31 Start: 22723, Stop: 24396, Start Num: 6

Candidate Starts for XianYue_31:

(Start: 6 @22723 has 3 MA's), (25, 22840), (27, 22849), (28, 22855), (33, 22876), (40, 22906), (51, 22987), (81, 23155), (90, 23179), (112, 23287), (121, 23353), (153, 23620), (192, 23833), (218, 24019), (226, 24064), (228, 24073), (241, 24124), (243, 24142), (302, 24361), (313, 24388),

Gene: Yecey3_32 Start: 22435, Stop: 24132, Start Num: 6

Candidate Starts for Yecey3_32:

(Start: 6 @22435 has 3 MA's), (23, 22540), (34, 22594), (41, 22624), (50, 22687), (53, 22711), (82, 22789), (89, 22810), (92, 22813), (101, 22864), (103, 22885), (115, 22963), (116, 22966), (151, 23278), (152, 23281), (159, 23314), (160, 23320), (172, 23404), (173, 23410), (175, 23425), (186, 23485), (207, 23617), (217, 23704), (244, 23839), (250, 23866), (273, 23941), (277, 23956), (289, 23992), (294, 24016), (301, 24049), (305, 24061),

Gene: YoSam321_31 Start: 22957, Stop: 24813, Start Num: 5

Candidate Starts for YoSam321_31:

(Start: 5 @22957 has 142 MA's), (25, 23083), (Start: 30 @23107 has 1 MA's), (49, 23212), (50, 23218), (55, 23266), (58, 23275), (64, 23317), (75, 23362), (76, 23368), (97, 23473), (99, 23485), (111, 23563), (119, 23632), (145, 23860), (147, 23884), (148, 23887), (154, 23914), (155, 23917), (174, 24022), (180, 24052), (183, 24067), (195, 24157), (204, 24196), (209, 24241), (236, 24409), (260, 24526),

(262, 24532), (274, 24577), (290, 24628), (291, 24631), (306, 24694), (311, 24703), (325, 24790),