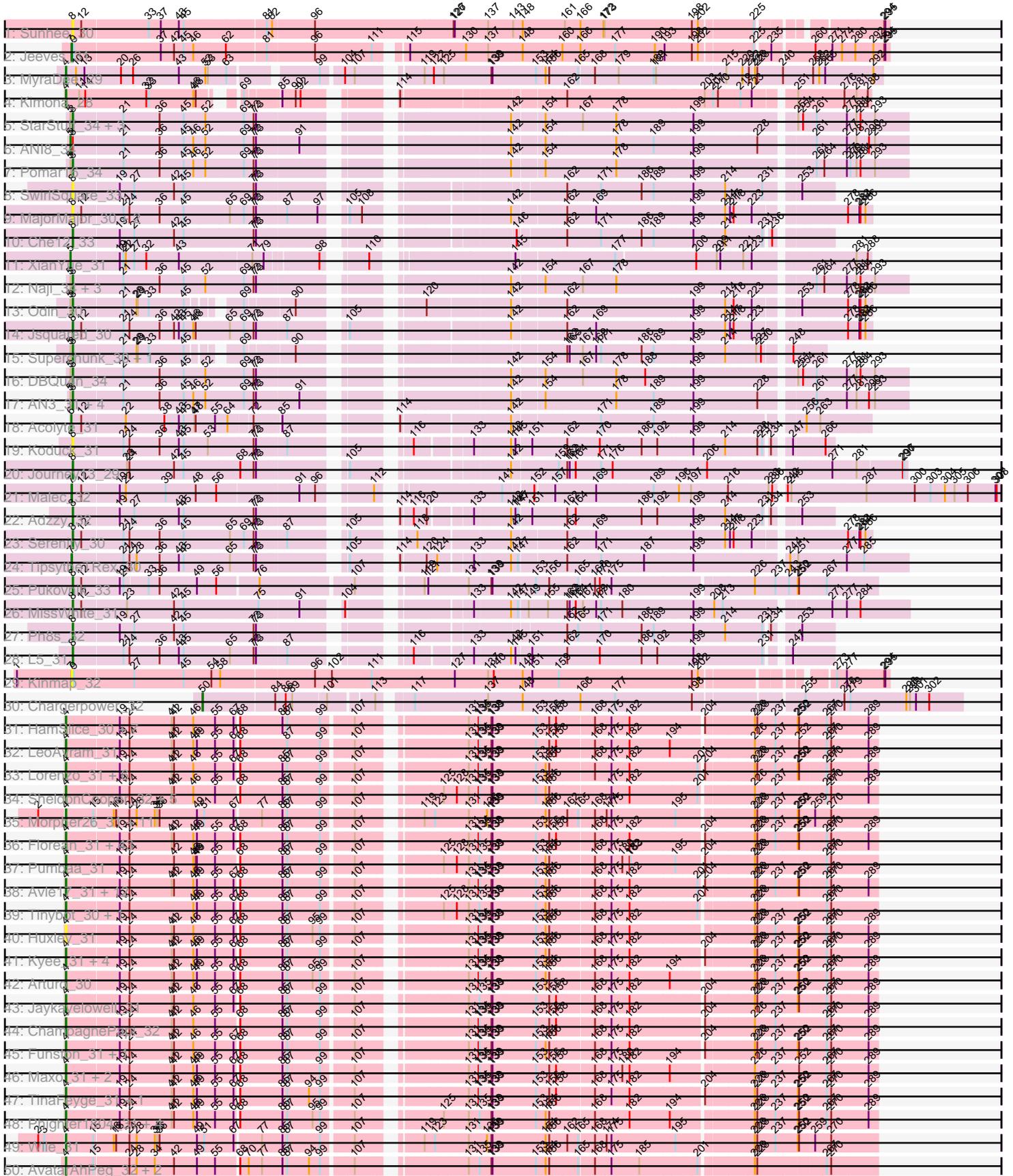


Pham 283498



51: Camberdown	19	42	46	55	88	88	99	99	107	125	128	131	135	153	168	175	188	195	204	228	230
52: Cinda Radix_30	19	42	46	55	88	88	99	99	107	125	128	131	135	153	168	175	188	195	204	228	230
53: Mungwa_31	19	42	46	55	88	88	99	99	107	125	128	131	135	153	168	175	188	195	204	228	230
54: Little Guy_31	19	42	46	55	88	88	99	99	107	125	128	131	135	153	168	175	188	195	204	228	230
55: Not A Chase Me_31	19	42	46	55	88	88	99	99	107	125	128	131	135	153	168	175	188	195	204	228	230
56: Bellus Terra_31	19	42	46	55	88	88	99	99	107	125	128	131	135	153	168	175	188	195	204	228	230
57: Krememuon_31	19	42	46	55	88	88	99	99	107	125	128	131	135	153	168	175	188	195	204	228	230
58: Kratak_31	19	42	46	55	88	88	99	99	107	125	128	131	135	153	168	175	188	195	204	228	230
59: Phonbonne	19	42	46	55	88	88	99	99	107	125	128	131	135	153	168	175	188	195	204	228	230
60: Iceman_32	19	42	46	55	88	88	99	99	107	125	128	131	135	153	168	175	188	195	204	228	230
61: Morrov_31	19	42	46	55	88	88	99	99	107	125	128	131	135	153	168	175	188	195	204	228	230
62: Stamp_31	19	42	46	55	88	88	99	99	107	125	128	131	135	153	168	175	188	195	204	228	230
63: Shygu2_31	19	42	46	55	88	88	99	99	107	125	128	131	135	153	168	175	188	195	204	228	230
64: Koan_31	19	42	46	55	88	88	99	99	107	125	128	131	135	153	168	175	188	195	204	228	230
65: Okanui_32	19	42	46	55	88	88	99	99	107	125	128	131	135	153	168	175	188	195	204	228	230
66: Abdie_30	19	42	46	55	88	88	99	99	107	125	128	131	135	153	168	175	188	195	204	228	230
67: Nyxis_31	19	42	46	55	88	88	99	99	107	125	128	131	135	153	168	175	188	195	204	228	230
68: Happiness_31	19	42	46	55	88	88	99	99	107	125	128	131	135	153	168	175	188	195	204	228	230
69: Noeng_31	19	42	46	55	88	88	99	99	107	125	128	131	135	153	168	175	188	195	204	228	230
70: Cimron_31	19	42	46	55	88	88	99	99	107	125	128	131	135	153	168	175	188	195	204	228	230
71: Palesino_30	19	42	46	55	88	88	99	99	107	125	128	131	135	153	168	175	188	195	204	228	230
72: Brosebon_31	19	42	46	55	88	88	99	99	107	125	128	131	135	153	168	175	188	195	204	228	230
73: Yecey_32	19	42	46	55	88	88	99	99	107	125	128	131	135	153	168	175	188	195	204	228	230
74: Dream Team_31	19	42	46	55	88	88	99	99	107	125	128	131	135	153	168	175	188	195	204	228	230
75: Mimispark_29 + 30	19	42	46	55	88	88	99	99	107	125	128	131	135	153	168	175	188	195	204	228	230
76: Chamu_31	19	42	46	55	88	88	99	99	107	125	128	131	135	153	168	175	188	195	204	228	230
77: Shearera_31	19	42	46	55	88	88	99	99	107	125	128	131	135	153	168	175	188	195	204	228	230
78: Celestunch_31 + 30	19	42	46	55	88	88	99	99	107	125	128	131	135	153	168	175	188	195	204	228	230
79: Toaka_30	19	42	46	55	88	88	99	99	107	125	128	131	135	153	168	175	188	195	204	228	230
80: Kiodini_31	19	42	46	55	88	88	99	99	107	125	128	131	135	153	168	175	188	195	204	228	230

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 283498 Report

This analysis was run 02/23/26 on database version 636.

Pham number 283498 has 201 members, 21 are drafts.

Phages represented in each track:

- Track 1 : Sunhee_30
- Track 2 : Jeeves_31
- Track 3 : MyraDee_29
- Track 4 : Kimona_28
- Track 5 : StarStuff_34, Tomathan_34, Duplo_34, Kerberos_34
- Track 6 : ANI8_34
- Track 7 : Pomar16_34
- Track 8 : SwirlSquare_33
- Track 9 : MajorMajor_30, Bradman_30, Quokka_29
- Track 10 : Che12_33
- Track 11 : XianYue_31
- Track 12 : Naji_34, D29_31, D32_34, Travvers_34
- Track 13 : Odin_30
- Track 14 : Jsquared_30
- Track 15 : Superchunk_30, Caraxes_30
- Track 16 : DBQu4n_34
- Track 17 : AN3_31, AN9_34, VA6_31, C3_29, VC3_34
- Track 18 : Acolyte_31
- Track 19 : Koduck_31
- Track 20 : Journey13_29
- Track 21 : Malec_32
- Track 22 : Adzzy_32
- Track 23 : Serenity_30
- Track 24 : TipsytheTRex_30
- Track 25 : Pukovnik_33
- Track 26 : MissWhite_31
- Track 27 : Ph8s_32
- Track 28 : L5_31
- Track 29 : Kinmap_32
- Track 30 : Chargerpower_32
- Track 31 : HamSlice_30, Pipcraft_31, Eapen_31, Citius_31, LappelDuVide_31, Lunsford_32, TroyPia_31, Relief_31
- Track 32 : LeoAvram_31
- Track 33 : Lorenzo_31, ICleared_31, Mazhar510_31, Mayonnaise_31, Sultana_31, PeterPeter_31, Shaka_31
- Track 34 : SheldonCooper_32, BangNhom_31, Cerulean_32, LHTSCC_32, Obama12_32, Eagle_30

- Track 35 : 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 36 : Florean_31, Bartimeaus_31, Dhanush_31, Taquarus_31, CentreCat_31, Thanksgivukkah_31, Ruin_31, TygerBlood_31, SteMason_30, Albee_31, RockieBear_30, Flux_31, Lemur_31, Commander_31, LittleB_31, Chaph_31, SenorClean_31, Baby16_31, Druantia_31, Bombshell_31, TiroTheta9_31, Sabertooth_31, Blackmoor_31, Skipitt_31, KekoraPapaka_30, Kingmustik0402_31, Medusa_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 37 : Pumbaa_31
- Track 38 : Avle17_31, Maverick_31, Gadost_31, Alberto7_32, Bruiser_30, Koreni_30, Nemo27_31, Cocoaberry_31, Caelakin_31, Wander_31, Houdini22_31, Phacado_31, Spino_31
- Track 39 : Tinybot_30, Rosa24_30
- Track 40 : Huxley_31
- Track 41 : Kyee_31, Annyong_31, BubbleTrouble_31, MeeZee_31, KFPoly_31
- Track 42 : Arturo_30
- Track 43 : Jaykayelowell_31
- Track 44 : ChampagnePapi_32
- Track 45 : Funston_31, Eris_30
- Track 46 : Maxo_31, Sparxx_31, Kampy_31
- Track 47 : TinaFeyge_31, NorthStar_31
- Track 48 : Phighter1804_31, DirtyDunning_31, Ulysses_30, LochMonster_31, Iracema64_32
- Track 49 : Wile_31
- Track 50 : AvatarAhPeg_32, Stink_32, Miramae_31
- Track 51 : Camperdownii_30
- Track 52 : Cindaradix_30
- Track 53 : Mundrea_31
- Track 54 : LittleGuy_31
- Track 55 : NotAPhaseMom_31
- Track 56 : BellusTerra_31, Nebs_31, Polymorphads_31, Eurydice_31, Ohfah_31
- Track 57 : Kremtemulon_31
- Track 58 : Kratak_31
- Track 59 : Phontbonne_31
- Track 60 : Iceman_32
- Track 61 : Morrow_31
- Track 62 : Scamp_31
- Track 63 : Shygu2_31
- Track 64 : Koan_31
- Track 65 : OKaNui_32
- Track 66 : Abdiel_30
- Track 67 : Nyxis_31
- Track 68 : Happiness_31
- Track 69 : Noelle_31
- Track 70 : Cintron_31
- Track 71 : Palestino_30
- Track 72 : Broseidon_31
- Track 73 : Yecey3_32
- Track 74 : DreamTeam1_31
- Track 75 : Minispark_29, Rahalelujah_30, WorldCup_29, Bellris_29, CogOmlette_29

- Track 76 : Charm_31
- Track 77 : SheaKeira_31
- Track 78 : Celestiallunch_31, MegTheThird_31
- Track 79 : Toaka_30
- Track 80 : Klodlith_31

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

The start number called the most often in the published annotations is 4, it was called in 142 of the 180 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, Bellris_29, 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, Jeeves_31, Journey13_29, Jsquared_30, Kerberos_34, Kinmap_32, Klodlith_31, Koduck_31, L5_31, MajorMajor_30, Malec_32, MegTheThird_31, Minispark_29, MissWhite_31, Naji_34, Odin_30, Ph8s_32, Pomar16_34, Pukovnik_33, Quokka_29, Rahalelujah_30, Serenity_30, SheaKeira_31, StarStuff_34, Sunhee_30,

Superchunk_30, SwirlSquare_33, TipsytheTRex_30, Toaka_30, Tomathan_34, Travvers_34, VA6_31, VC3_34, WorldCup_29, XianYue_31, Yecey3_32,

Summary by start number:

Start 4:

- Found in 147 of 201 (73.1%) of genes in pham
- Manual Annotations of this start: 142 of 180
- 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), SeniorClean_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 5:

- Found in 21 of 201 (10.4%) of genes in pham
- Manual Annotations of this start: 3 of 180
- Called 14.3% of time when present
- Phage (with cluster) where this start called: ANI8_34 (A2), XianYue_31 (A2), Yecey3_32 (A9),

Start 6:

- Found in 1 of 201 (0.5%) of genes in pham
- Manual Annotations of this start: 1 of 180
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Acolyte_31 (A2),

Start 7:

- Found in 16 of 201 (8.0%) of genes in pham
- Manual Annotations of this start: 8 of 180
- 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), TipsytheTRex_30 (A2), Toaka_30 (A9), WorldCup_29 (A9),

Start 8:

- Found in 34 of 201 (16.9%) of genes in pham
- Manual Annotations of this start: 25 of 180
- 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_31 (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_33 (A2), Tomathan_34 (A2), Travvers_34 (A2), VA6_31 (A2), VC3_34 (A2),

Start 50:

- Found in 1 of 201 (0.5%) of genes in pham
- Manual Annotations of this start: 1 of 180
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Chargerpower_32 (A22),

Summary by clusters:

There are 8 clusters represented in this pham: A14, A22, A21, A19, A18, A2, A4, A9,

Info for manual annotations of cluster A14:

- Start number 7 was manually annotated 1 time for cluster A14.

Info for manual annotations of cluster A18:

- Start number 4 was manually annotated 1 time for cluster A18.

Info for manual annotations of cluster A19:

- Start number 4 was manually annotated 1 time for cluster A19.

Info for manual annotations of cluster A2:

- Start number 5 was manually annotated 2 times for cluster A2.
- Start number 6 was manually annotated 1 time for cluster A2.
- Start number 7 was manually annotated 2 times for cluster A2.
- Start number 8 was manually annotated 25 times for cluster A2.

Info for manual annotations of cluster A22:

- Start number 50 was manually annotated 1 time for cluster A22.

Info for manual annotations of cluster A4:

- Start number 4 was manually annotated 140 times for cluster A4.

Info for manual annotations of cluster A9:

- Start number 5 was manually annotated 1 time for cluster A9.
- Start number 7 was manually annotated 5 times for cluster A9.

Gene Information:

Gene: AN3_31 Start: 22715, Stop: 24571, Start Num: 8

Candidate Starts for AN3_31:

(Start: 5 @22709 has 3 MA's), (Start: 8 @22715 has 25 MA's), (21, 22835), (36, 22925), (45, 22985), (46, 23009), (52, 23036), (69, 23129), (72, 23153), (73, 23159), (91, 23261), (142, 23666), (154, 23735), (178, 23903), (189, 23990), (199, 24086), (228, 24236), (261, 24350), (277, 24419), (281, 24443), (290, 24473), (293, 24488),

Gene: AN9_34 Start: 22703, Stop: 24556, Start Num: 8

Candidate Starts for AN9_34:

(Start: 5 @22697 has 3 MA's), (Start: 8 @22703 has 25 MA's), (21, 22823), (36, 22913), (45, 22973), (46, 22997), (52, 23024), (69, 23117), (72, 23141), (73, 23147), (91, 23249), (142, 23654), (154, 23723), (178, 23891), (189, 23978), (199, 24074), (228, 24221), (261, 24335), (277, 24404), (281, 24428), (290, 24458), (293, 24473),

Gene: ANI8_34 Start: 22697, Stop: 24556, Start Num: 5

Candidate Starts for ANI8_34:

(Start: 5 @22697 has 3 MA's), (Start: 8 @22703 has 25 MA's), (21, 22823), (36, 22913), (45, 22973), (46, 22997), (52, 23024), (69, 23117), (72, 23141), (73, 23147), (91, 23249), (142, 23654), (154, 23723), (178, 23891), (189, 23978), (199, 24074), (228, 24221), (261, 24335), (277, 24404), (281, 24428), (290, 24458), (293, 24473),

Gene: AbbysRanger_31 Start: 22986, Stop: 24845, Start Num: 4

Candidate Starts for AbbysRanger_31:

(2, 22926), (Start: 4 @22986 has 142 MA's), (15, 23052), (16, 23097), (18, 23103), (24, 23136), (28, 23154), (34, 23199), (35, 23205), (36, 23211), (49, 23304), (51, 23319), (67, 23391), (77, 23451), (85, 23502), (87, 23514), (99, 23592), (107, 23661), (119, 23784), (123, 23808), (131, 23889), (136, 23934), (138, 23943), (139, 23946), (154, 24075), (156, 24084), (162, 24126), (165, 24153), (168, 24189), (174, 24216), (175, 24228), (195, 24384), (226, 24558), (228, 24564), (237, 24609), (250, 24660), (252, 24663), (259, 24699), (270, 24735),

Gene: Abdiel_30 Start: 22957, Stop: 24813, Start Num: 4

Candidate Starts for Abdiel_30:

(Start: 4 @22957 has 142 MA's), (19, 23083), (24, 23107), (41, 23212), (42, 23218), (46, 23266), (49, 23275), (55, 23317), (67, 23362), (68, 23368), (87, 23485), (99, 23563), (107, 23632), (131, 23860), (135, 23887), (138, 23914), (139, 23917), (153, 24022), (156, 24052), (158, 24067), (168, 24157), (175, 24196), (182, 24241), (226, 24526), (228, 24532), (237, 24577), (243, 24610), (250, 24628), (252, 24631), (259, 24667), (270, 24703),

Gene: Achebe_30 Start: 22969, Stop: 24828, Start Num: 4

Candidate Starts for Achebe_30:

(2, 22909), (Start: 4 @22969 has 142 MA's), (15, 23035), (16, 23080), (18, 23086), (24, 23119), (28, 23137), (34, 23182), (35, 23188), (36, 23194), (49, 23287), (51, 23302), (67, 23374), (77, 23434), (85, 23485), (87, 23497), (99, 23575), (107, 23644), (119, 23767), (123, 23791), (131, 23872), (136, 23917), (138, 23926), (139, 23929), (154, 24058), (156, 24067), (162, 24109), (165, 24136), (168, 24172), (174, 24199), (175, 24211), (195, 24367), (226, 24541), (228, 24547), (237, 24592), (250, 24643), (252, 24646), (259, 24682), (270, 24718),

Gene: Acolyte_31 Start: 23339, Stop: 25057, Start Num: 6

Candidate Starts for Acolyte_31:

(Start: 6 @23339 has 1 MA's), (12, 23363), (22, 23468), (38, 23564), (43, 23600), (45, 23612), (47, 23639), (48, 23642), (55, 23687), (64, 23717), (72, 23768), (85, 23822), (114, 24026), (142, 24263), (171, 24461), (189, 24584), (199, 24680), (256, 24908), (263, 24941),

Gene: Adzzy_32 Start: 21442, Stop: 23085, Start Num: 8

Candidate Starts for Adzzy_32:

(Start: 8 @21442 has 25 MA's), (19, 21553), (27, 21589), (43, 21700), (45, 21712), (72, 21880), (73, 21886), (114, 22150), (116, 22174), (120, 22201), (133, 22288), (142, 22372), (145, 22378), (147, 22384), (151, 22414), (162, 22498), (164, 22519), (186, 22672), (192, 22711), (199, 22798), (214, 22870), (231, 22957), (234, 22966), (253, 23014),

Gene: Albee_31 Start: 22960, Stop: 24816, Start Num: 4

Candidate Starts for Albee_31:

(Start: 4 @22960 has 142 MA's), (19, 23086), (24, 23110), (41, 23215), (42, 23221), (46, 23269), (49, 23278), (55, 23320), (67, 23365), (68, 23371), (85, 23476), (87, 23488), (99, 23566), (107, 23635), (131, 23863), (134, 23887), (135, 23890), (138, 23917), (139, 23920), (153, 24025), (156, 24055), (158, 24070), (168, 24160), (175, 24199), (182, 24244), (204, 24412), (226, 24529), (228, 24535), (237, 24580), (250, 24631), (252, 24634), (267, 24697), (270, 24706), (289, 24793),

Gene: Alberto7_32 Start: 23262, Stop: 25118, Start Num: 4

Candidate Starts for Alberto7_32:

(Start: 4 @23262 has 142 MA's), (19, 23388), (24, 23412), (41, 23517), (42, 23523), (46, 23571), (49, 23580), (55, 23622), (67, 23667), (68, 23673), (85, 23778), (87, 23790), (99, 23868), (107, 23937), (131, 24165), (134, 24189), (135, 24192), (138, 24219), (139, 24222), (153, 24327), (154, 24348), (156, 24357), (168, 24462), (175, 24501), (182, 24546), (201, 24708), (204, 24714), (226, 24831), (228, 24837), (237, 24882), (250, 24933), (252, 24936), (267, 24999), (270, 25008), (289, 25095),

Gene: Annyong_31 Start: 22961, Stop: 24817, Start Num: 4

Candidate Starts for Annyong_31:

(Start: 4 @22961 has 142 MA's), (19, 23087), (24, 23111), (41, 23216), (42, 23222), (46, 23270), (49, 23279), (55, 23321), (67, 23366), (68, 23372), (85, 23477), (87, 23489), (99, 23567), (107, 23636), (131, 23864), (134, 23888), (135, 23891), (138, 23918), (139, 23921), (153, 24026), (154, 24047), (156, 24056), (168, 24161), (175, 24200), (182, 24245), (204, 24413), (226, 24530), (228, 24536), (237, 24581), (250, 24632), (252, 24635), (267, 24698), (270, 24707), (289, 24794),

Gene: Arturo_30 Start: 23069, Stop: 24925, Start Num: 4

Candidate Starts for Arturo_30:

(Start: 4 @23069 has 142 MA's), (19, 23195), (24, 23219), (41, 23324), (42, 23330), (46, 23378), (49, 23387), (55, 23429), (67, 23474), (68, 23480), (85, 23585), (87, 23597), (95, 23660), (99, 23675), (107, 23744), (131, 23972), (134, 23996), (135, 23999), (138, 24026), (139, 24029), (153, 24134), (154, 24155), (156, 24164), (168, 24269), (175, 24308), (182, 24353), (194, 24452), (226, 24638), (228, 24644), (237, 24689), (250, 24740), (252, 24743), (267, 24806), (270, 24815), (289, 24902),

Gene: AvatarAhPeg_32 Start: 23239, Stop: 25098, Start Num: 4

Candidate Starts for AvatarAhPeg_32:

(Start: 4 @23239 has 142 MA's), (15, 23305), (24, 23389), (28, 23407), (34, 23452), (42, 23500), (49, 23557), (55, 23599), (68, 23650), (70, 23671), (77, 23704), (85, 23755), (87, 23767), (94, 23821), (99, 23845), (107, 23914), (131, 24142), (135, 24169), (138, 24196), (139, 24199), (153, 24307), (154, 24328), (156, 24337), (165, 24406), (168, 24442), (175, 24481), (185, 24550), (201, 24688), (226, 24811), (228, 24817), (267, 24979), (270, 24988),

Gene: Avle17_31 Start: 22960, Stop: 24816, Start Num: 4

Candidate Starts for Avle17_31:

(Start: 4 @22960 has 142 MA's), (19, 23086), (24, 23110), (41, 23215), (42, 23221), (46, 23269), (49, 23278), (55, 23320), (67, 23365), (68, 23371), (85, 23476), (87, 23488), (99, 23566), (107, 23635), (131, 23863), (134, 23887), (135, 23890), (138, 23917), (139, 23920), (153, 24025), (154, 24046), (156, 24055), (168, 24160), (175, 24199), (182, 24244), (201, 24406), (204, 24412), (226, 24529), (228, 24535), (237, 24580), (250, 24631), (252, 24634), (267, 24697), (270, 24706), (289, 24793),

Gene: Baby16_31 Start: 22969, Stop: 24825, Start Num: 4

Candidate Starts for Baby16_31:

(Start: 4 @22969 has 142 MA's), (19, 23095), (24, 23119), (41, 23224), (42, 23230), (46, 23278), (49, 23287), (55, 23329), (67, 23374), (68, 23380), (85, 23485), (87, 23497), (99, 23575), (107, 23644), (131, 23872), (134, 23896), (135, 23899), (138, 23926), (139, 23929), (153, 24034), (156, 24064), (158, 24079), (168, 24169), (175, 24208), (182, 24253), (204, 24421), (226, 24538), (228, 24544), (237, 24589), (250, 24640), (252, 24643), (267, 24706), (270, 24715), (289, 24802),

Gene: Backyardigan_31 Start: 22981, Stop: 24840, Start Num: 4

Candidate Starts for Backyardigan_31:

(2, 22921), (Start: 4 @22981 has 142 MA's), (15, 23047), (16, 23092), (18, 23098), (24, 23131), (28, 23149), (34, 23194), (35, 23200), (36, 23206), (49, 23299), (51, 23314), (67, 23386), (77, 23446), (85, 23497), (87, 23509), (99, 23587), (107, 23656), (119, 23779), (123, 23803), (131, 23884), (136, 23929), (138, 23938), (139, 23941), (154, 24070), (156, 24079), (162, 24121), (165, 24148), (168, 24184), (174, 24211), (175, 24223), (195, 24379), (226, 24553), (228, 24559), (237, 24604), (250, 24655), (252, 24658), (259, 24694), (270, 24730),

Gene: Badger_31 Start: 22970, Stop: 24829, Start Num: 4

Candidate Starts for Badger_31:

(2, 22910), (Start: 4 @22970 has 142 MA's), (15, 23036), (16, 23081), (18, 23087), (24, 23120), (28, 23138), (34, 23183), (35, 23189), (36, 23195), (49, 23288), (51, 23303), (67, 23375), (77, 23435), (85, 23486), (87, 23498), (99, 23576), (107, 23645), (119, 23768), (123, 23792), (131, 23873), (136, 23918), (138, 23927), (139, 23930), (154, 24059), (156, 24068), (162, 24110), (165, 24137), (168, 24173), (174, 24200), (175, 24212), (195, 24368), (226, 24542), (228, 24548), (237, 24593), (250, 24644), (252, 24647), (259, 24683), (270, 24719),

Gene: BangNhom_31 Start: 23274, Stop: 25130, Start Num: 4

Candidate Starts for BangNhom_31:

(Start: 4 @23274 has 142 MA's), (19, 23400), (24, 23424), (41, 23529), (42, 23535), (46, 23583), (55, 23634), (68, 23685), (85, 23790), (87, 23802), (99, 23880), (107, 23949), (125, 24117), (128, 24147), (131, 24177), (134, 24201), (135, 24204), (138, 24231), (139, 24234), (153, 24339), (154, 24360), (156, 24369), (175, 24513), (182, 24558), (201, 24720), (226, 24843), (237, 24894), (267, 25011), (270, 25020), (289, 25107),

Gene: Bartimeaus_31 Start: 22960, Stop: 24816, Start Num: 4

Candidate Starts for Bartimeaus_31:

(Start: 4 @22960 has 142 MA's), (19, 23086), (24, 23110), (41, 23215), (42, 23221), (46, 23269), (49, 23278), (55, 23320), (67, 23365), (68, 23371), (85, 23476), (87, 23488), (99, 23566), (107, 23635), (131, 23863), (134, 23887), (135, 23890), (138, 23917), (139, 23920), (153, 24025), (156, 24055), (158, 24070), (168, 24160), (175, 24199), (182, 24244), (204, 24412), (226, 24529), (228, 24535), (237, 24580), (250, 24631), (252, 24634), (267, 24697), (270, 24706), (289, 24793),

Gene: Bellris_29 Start: 22236, Stop: 23978, Start Num: 7

Candidate Starts for Bellris_29:

(Start: 7 @22236 has 8 MA's), (9, 22242), (21, 22359), (28, 22392), (45, 22509), (48, 22539), (57, 22587), (60, 22596), (61, 22599), (83, 22686), (93, 22731), (100, 22758), (115, 22833), (125, 22911), (132, 22977), (148, 23103), (202, 23535), (212, 23580), (238, 23712), (273, 23853), (274, 23865), (282, 23904), (294, 23967),

Gene: BellusTerra_31 Start: 22957, Stop: 24813, Start Num: 4

Candidate Starts for BellusTerra_31:

(Start: 4 @22957 has 142 MA's), (19, 23083), (24, 23107), (41, 23212), (42, 23218), (46, 23266), (49, 23275), (55, 23317), (67, 23362), (68, 23368), (87, 23485), (99, 23563), (107, 23632), (131, 23860), (134, 23884), (135, 23887), (138, 23914), (139, 23917), (153, 24022), (156, 24052), (158, 24067), (168, 24157), (175, 24196), (180, 24223), (182, 24241), (194, 24340), (226, 24526), (237, 24577), (252, 24631), (267, 24694), (270, 24703), (289, 24790),

Gene: Blackmoor_31 Start: 22960, Stop: 24816, Start Num: 4

Candidate Starts for Blackmoor_31:

(Start: 4 @22960 has 142 MA's), (19, 23086), (24, 23110), (41, 23215), (42, 23221), (46, 23269), (49, 23278), (55, 23320), (67, 23365), (68, 23371), (85, 23476), (87, 23488), (99, 23566), (107, 23635), (131, 23863), (134, 23887), (135, 23890), (138, 23917), (139, 23920), (153, 24025), (156, 24055), (158, 24070), (168, 24160), (175, 24199), (182, 24244), (204, 24412), (226, 24529), (228, 24535), (237, 24580), (250, 24631), (252, 24634), (267, 24697), (270, 24706), (289, 24793),

Gene: Bombshell_31 Start: 22960, Stop: 24816, Start Num: 4

Candidate Starts for Bombshell_31:

(Start: 4 @22960 has 142 MA's), (19, 23086), (24, 23110), (41, 23215), (42, 23221), (46, 23269), (49, 23278), (55, 23320), (67, 23365), (68, 23371), (85, 23476), (87, 23488), (99, 23566), (107, 23635), (131, 23863), (134, 23887), (135, 23890), (138, 23917), (139, 23920), (153, 24025), (156, 24055), (158, 24070), (168, 24160), (175, 24199), (182, 24244), (204, 24412), (226, 24529), (228, 24535), (237, 24580), (250, 24631), (252, 24634), (267, 24697), (270, 24706), (289, 24793),

Gene: Bradman_30 Start: 21646, Stop: 23397, Start Num: 8

Candidate Starts for Bradman_30:

(Start: 8 @21646 has 25 MA's), (12, 21667), (21, 21766), (24, 21781), (36, 21856), (45, 21916), (65, 22027), (69, 22060), (72, 22084), (73, 22090), (87, 22162), (97, 22237), (105, 22270), (108, 22300), (142, 22588), (162, 22708), (169, 22777), (199, 23008), (214, 23083), (217, 23095), (218, 23104), (223, 23143), (278, 23338), (283, 23365), (284, 23368), (286, 23380),

Gene: Broseidon_31 Start: 22960, Stop: 24816, Start Num: 4

Candidate Starts for Broseidon_31:

(Start: 4 @22960 has 142 MA's), (19, 23086), (24, 23110), (41, 23215), (42, 23221), (46, 23269), (49, 23278), (55, 23320), (67, 23365), (68, 23371), (85, 23476), (87, 23488), (99, 23566), (107, 23635), (131, 23863), (134, 23887), (135, 23890), (138, 23917), (139, 23920), (153, 24025), (156, 24055), (158, 24070), (168, 24160), (170, 24172), (175, 24199), (182, 24244), (204, 24412), (226, 24529), (228, 24535), (237, 24580), (250, 24631), (252, 24634), (267, 24697), (270, 24706), (289, 24793),

Gene: Bruiser_30 Start: 22960, Stop: 24816, Start Num: 4

Candidate Starts for Bruiser_30:

(Start: 4 @22960 has 142 MA's), (19, 23086), (24, 23110), (41, 23215), (42, 23221), (46, 23269), (49, 23278), (55, 23320), (67, 23365), (68, 23371), (85, 23476), (87, 23488), (99, 23566), (107, 23635), (131, 23863), (134, 23887), (135, 23890), (138, 23917), (139, 23920), (153, 24025), (154, 24046), (156, 24055), (168, 24160), (175, 24199), (182, 24244), (201, 24406), (204, 24412), (226, 24529), (228, 24535), (237, 24580), (250, 24631), (252, 24634), (267, 24697), (270, 24706), (289, 24793),

Gene: BubbleTrouble_31 Start: 22960, Stop: 24816, Start Num: 4

Candidate Starts for BubbleTrouble_31:

(Start: 4 @22960 has 142 MA's), (19, 23086), (24, 23110), (41, 23215), (42, 23221), (46, 23269), (49, 23278), (55, 23320), (67, 23365), (68, 23371), (85, 23476), (87, 23488), (99, 23566), (107, 23635), (131, 23863), (134, 23887), (135, 23890), (138, 23917), (139, 23920), (153, 24025), (154, 24046), (156, 24055), (168, 24160), (175, 24199), (182, 24244), (204, 24412), (226, 24529), (228, 24535), (237, 24580), (250, 24631), (252, 24634), (267, 24697), (270, 24706), (289, 24793),

Gene: Bumblebee11_31 Start: 22972, Stop: 24831, Start Num: 4

Candidate Starts for Bumblebee11_31:

(2, 22912), (Start: 4 @22972 has 142 MA's), (15, 23038), (16, 23083), (18, 23089), (24, 23122), (28, 23140), (34, 23185), (35, 23191), (36, 23197), (49, 23290), (51, 23305), (67, 23377), (77, 23437), (85, 23488), (87, 23500), (99, 23578), (107, 23647), (119, 23770), (123, 23794), (131, 23875), (136, 23920), (138, 23929), (139, 23932), (154, 24061), (156, 24070), (162, 24112), (165, 24139), (168, 24175), (174, 24202), (175, 24214), (195, 24370), (226, 24544), (228, 24550), (237, 24595), (250, 24646), (252, 24649), (259, 24685), (270, 24721),

Gene: Burger_30 Start: 22960, Stop: 24816, Start Num: 4

Candidate Starts for Burger_30:

(Start: 4 @22960 has 142 MA's), (19, 23086), (24, 23110), (41, 23215), (42, 23221), (46, 23269), (49, 23278), (55, 23320), (67, 23365), (68, 23371), (85, 23476), (87, 23488), (99, 23566), (107, 23635), (131, 23863), (134, 23887), (135, 23890), (138, 23917), (139, 23920), (153, 24025), (156, 24055), (158, 24070), (168, 24160), (175, 24199), (182, 24244), (204, 24412), (226, 24529), (228, 24535), (237, 24580), (250, 24631), (252, 24634), (267, 24697), (270, 24706), (289, 24793),

Gene: C3_29 Start: 22703, Stop: 24556, Start Num: 8

Candidate Starts for C3_29:

(Start: 5 @22697 has 3 MA's), (Start: 8 @22703 has 25 MA's), (21, 22823), (36, 22913), (45, 22973), (46, 22997), (52, 23024), (69, 23117), (72, 23141), (73, 23147), (91, 23249), (142, 23654), (154, 23723), (178, 23891), (189, 23978), (199, 24074), (228, 24221), (261, 24335), (277, 24404), (281, 24428), (290, 24458), (293, 24473),

Gene: Caelakin_31 Start: 22960, Stop: 24816, Start Num: 4

Candidate Starts for Caelakin_31:

(Start: 4 @22960 has 142 MA's), (19, 23086), (24, 23110), (41, 23215), (42, 23221), (46, 23269), (49, 23278), (55, 23320), (67, 23365), (68, 23371), (85, 23476), (87, 23488), (99, 23566), (107, 23635), (131, 23863), (134, 23887), (135, 23890), (138, 23917), (139, 23920), (153, 24025), (154, 24046), (156, 24055), (168, 24160), (175, 24199), (182, 24244), (201, 24406), (204, 24412), (226, 24529), (228, 24535), (237, 24580), (250, 24631), (252, 24634), (267, 24697), (270, 24706), (289, 24793),

Gene: Camperdownii_30 Start: 22579, Stop: 24435, Start Num: 4

Candidate Starts for Camperdownii_30:

(Start: 4 @22579 has 142 MA's), (19, 22705), (24, 22729), (41, 22834), (42, 22840), (46, 22888), (55, 22939), (68, 22990), (85, 23095), (87, 23107), (99, 23185), (107, 23254), (125, 23422), (128, 23452), (131, 23482), (135, 23509), (138, 23536), (139, 23539), (153, 23644), (154, 23665), (156, 23674), (168, 23779), (175, 23818), (180, 23845), (182, 23863), (183, 23866), (195, 23974), (204, 24031),

(226, 24148), (228, 24154), (267, 24316), (270, 24325),

Gene: Caraxes_30 Start: 21397, Stop: 22950, Start Num: 8

Candidate Starts for Caraxes_30:

(Start: 5 @21391 has 3 MA's), (Start: 8 @21397 has 25 MA's), (21, 21517), (28, 21550), (29, 21553), (33, 21580), (45, 21667), (69, 21754), (90, 21856), (162, 22384), (163, 22390), (167, 22420), (169, 22453), (171, 22465), (186, 22558), (189, 22588), (199, 22684), (214, 22756), (227, 22822), (230, 22834), (248, 22879),

Gene: Celestiallunch_31 Start: 22321, Stop: 24066, Start Num: 7

Candidate Starts for Celestiallunch_31:

(Start: 7 @22321 has 8 MA's), (28, 22477), (40, 22558), (48, 22624), (57, 22672), (66, 22696), (74, 22741), (83, 22771), (111, 22885), (132, 23062), (161, 23293), (166, 23332), (181, 23446), (198, 23605), (202, 23620), (239, 23806), (246, 23836), (268, 23917), (274, 23950), (291, 24022), (294, 24052), (295, 24055),

Gene: CentreCat_31 Start: 22961, Stop: 24817, Start Num: 4

Candidate Starts for CentreCat_31:

(Start: 4 @22961 has 142 MA's), (19, 23087), (24, 23111), (41, 23216), (42, 23222), (46, 23270), (49, 23279), (55, 23321), (67, 23366), (68, 23372), (85, 23477), (87, 23489), (99, 23567), (107, 23636), (131, 23864), (134, 23888), (135, 23891), (138, 23918), (139, 23921), (153, 24026), (156, 24056), (158, 24071), (168, 24161), (175, 24200), (182, 24245), (204, 24413), (226, 24530), (228, 24536), (237, 24581), (250, 24632), (252, 24635), (267, 24698), (270, 24707), (289, 24794),

Gene: Cerulean_32 Start: 23275, Stop: 25131, Start Num: 4

Candidate Starts for Cerulean_32:

(Start: 4 @23275 has 142 MA's), (19, 23401), (24, 23425), (41, 23530), (42, 23536), (46, 23584), (55, 23635), (68, 23686), (85, 23791), (87, 23803), (99, 23881), (107, 23950), (125, 24118), (128, 24148), (131, 24178), (134, 24202), (135, 24205), (138, 24232), (139, 24235), (153, 24340), (154, 24361), (156, 24370), (175, 24514), (182, 24559), (201, 24721), (226, 24844), (237, 24895), (267, 25012), (270, 25021), (289, 25108),

Gene: ChampagnePapi_32 Start: 23274, Stop: 25130, Start Num: 4

Candidate Starts for ChampagnePapi_32:

(Start: 4 @23274 has 142 MA's), (19, 23400), (24, 23424), (41, 23529), (42, 23535), (46, 23583), (55, 23634), (68, 23685), (85, 23790), (87, 23802), (99, 23880), (107, 23949), (131, 24177), (134, 24201), (135, 24204), (138, 24231), (139, 24234), (153, 24339), (156, 24369), (158, 24384), (168, 24474), (175, 24513), (182, 24558), (204, 24726), (226, 24843), (237, 24894), (267, 25011), (270, 25020), (289, 25107),

Gene: Chaph_31 Start: 22969, Stop: 24825, Start Num: 4

Candidate Starts for Chaph_31:

(Start: 4 @22969 has 142 MA's), (19, 23095), (24, 23119), (41, 23224), (42, 23230), (46, 23278), (49, 23287), (55, 23329), (67, 23374), (68, 23380), (85, 23485), (87, 23497), (99, 23575), (107, 23644), (131, 23872), (134, 23896), (135, 23899), (138, 23926), (139, 23929), (153, 24034), (156, 24064), (158, 24079), (168, 24169), (175, 24208), (182, 24253), (204, 24421), (226, 24538), (228, 24544), (237, 24589), (250, 24640), (252, 24643), (267, 24706), (270, 24715), (289, 24802),

Gene: Chargerpower_32 Start: 22051, Stop: 23787, Start Num: 50

Candidate Starts for Chargerpower_32:

(Start: 50 @22051 has 1 MA's), (84, 22222), (86, 22243), (89, 22255), (101, 22333), (113, 22432), (117, 22492), (137, 22666), (148, 22750), (166, 22894), (177, 22978), (198, 23167), (255, 23404), (276, 23494), (279, 23509), (298, 23647), (299, 23656), (301, 23671), (302, 23704),

Gene: Charm_31 Start: 22329, Stop: 24071, Start Num: 7

Candidate Starts for Charm_31:

(Start: 7 @22329 has 8 MA's), (9, 22335), (28, 22485), (33, 22515), (40, 22566), (48, 22632), (57, 22680), (66, 22704), (83, 22779), (111, 22893), (125, 23004), (132, 23070), (147, 23184), (151, 23220), (161, 23301), (166, 23340), (181, 23454), (184, 23466), (198, 23613), (202, 23628), (212, 23673), (268, 23925), (274, 23958), (275, 23961), (282, 23997), (294, 24060),

Gene: Che12_33 Start: 21672, Stop: 23324, Start Num: 8

Candidate Starts for Che12_33:

(Start: 8 @21672 has 25 MA's), (19, 21783), (27, 21819), (42, 21918), (45, 21942), (72, 22110), (73, 22116), (146, 22626), (162, 22737), (171, 22818), (186, 22911), (189, 22941), (199, 23037), (214, 23109), (231, 23196), (236, 23208),

Gene: Cici_31 Start: 22966, Stop: 24825, Start Num: 4

Candidate Starts for Cici_31:

(2, 22906), (Start: 4 @22966 has 142 MA's), (15, 23032), (16, 23077), (18, 23083), (24, 23116), (28, 23134), (34, 23179), (35, 23185), (36, 23191), (49, 23284), (51, 23299), (67, 23371), (77, 23431), (85, 23482), (87, 23494), (99, 23572), (107, 23641), (119, 23764), (123, 23788), (131, 23869), (136, 23914), (138, 23923), (139, 23926), (154, 24055), (156, 24064), (162, 24106), (165, 24133), (168, 24169), (174, 24196), (175, 24208), (195, 24364), (226, 24538), (228, 24544), (237, 24589), (250, 24640), (252, 24643), (259, 24679), (270, 24715),

Gene: Cindaradix_30 Start: 22690, Stop: 24546, Start Num: 4

Candidate Starts for Cindaradix_30:

(Start: 4 @22690 has 142 MA's), (24, 22840), (28, 22858), (30, 22870), (34, 22903), (36, 22915), (42, 22951), (49, 23008), (51, 23023), (77, 23155), (85, 23206), (87, 23218), (99, 23296), (103, 23317), (107, 23365), (131, 23593), (138, 23647), (139, 23650), (153, 23755), (154, 23776), (156, 23785), (168, 23890), (195, 24085), (204, 24142), (226, 24259), (228, 24265), (270, 24436),

Gene: Cintron_31 Start: 23005, Stop: 24864, Start Num: 4

Candidate Starts for Cintron_31:

(Start: 4 @23005 has 142 MA's), (19, 23131), (24, 23155), (41, 23260), (42, 23266), (46, 23314), (49, 23323), (55, 23365), (67, 23410), (68, 23416), (85, 23521), (87, 23533), (99, 23611), (107, 23680), (125, 23848), (131, 23908), (134, 23932), (135, 23935), (138, 23962), (139, 23965), (153, 24070), (156, 24100), (158, 24115), (168, 24205), (175, 24244), (180, 24271), (182, 24289), (228, 24580), (243, 24658), (249, 24670), (250, 24676), (259, 24715), (267, 24742), (269, 24748), (289, 24841),

Gene: Citius_31 Start: 22975, Stop: 24831, Start Num: 4

Candidate Starts for Citius_31:

(Start: 4 @22975 has 142 MA's), (19, 23101), (24, 23125), (41, 23230), (42, 23236), (46, 23284), (55, 23335), (67, 23380), (68, 23386), (85, 23491), (87, 23503), (99, 23581), (107, 23650), (131, 23878), (134, 23902), (135, 23905), (138, 23932), (139, 23935), (153, 24040), (156, 24070), (158, 24085), (168, 24175), (175, 24214), (182, 24259), (204, 24427), (226, 24544), (228, 24550), (237, 24595), (250, 24646), (252, 24649), (267, 24712), (270, 24721), (289, 24808),

Gene: Clarenza_31 Start: 22957, Stop: 24813, Start Num: 4

Candidate Starts for Clarenza_31:

(Start: 4 @22957 has 142 MA's), (19, 23083), (24, 23107), (41, 23212), (42, 23218), (46, 23266), (49, 23275), (55, 23317), (67, 23362), (68, 23368), (85, 23473), (87, 23485), (99, 23563), (107, 23632), (131, 23860), (134, 23884), (135, 23887), (138, 23914), (139, 23917), (153, 24022), (156, 24052), (158, 24067), (168, 24157), (175, 24196), (182, 24241), (204, 24409), (226, 24526), (228, 24532), (237, 24577), (250, 24628), (252, 24631), (267, 24694), (270, 24703), (289, 24790),

Gene: Cocoaberry_31 Start: 22964, Stop: 24820, Start Num: 4

Candidate Starts for Cocoaberry_31:

(Start: 4 @22964 has 142 MA's), (19, 23090), (24, 23114), (41, 23219), (42, 23225), (46, 23273), (49, 23282), (55, 23324), (67, 23369), (68, 23375), (85, 23480), (87, 23492), (99, 23570), (107, 23639), (131, 23867), (134, 23891), (135, 23894), (138, 23921), (139, 23924), (153, 24029), (154, 24050), (156, 24059), (168, 24164), (175, 24203), (182, 24248), (201, 24410), (204, 24416), (226, 24533), (228, 24539), (237, 24584), (250, 24635), (252, 24638), (267, 24701), (270, 24710), (289, 24797),

Gene: CogOmlette_29 Start: 22236, Stop: 23978, Start Num: 7

Candidate Starts for CogOmlette_29:

(Start: 7 @22236 has 8 MA's), (9, 22242), (21, 22359), (28, 22392), (45, 22509), (48, 22539), (57, 22587), (60, 22596), (61, 22599), (83, 22686), (93, 22731), (100, 22758), (115, 22833), (125, 22911), (132, 22977), (148, 23103), (202, 23535), (212, 23580), (238, 23712), (273, 23853), (274, 23865), (282, 23904), (294, 23967),

Gene: Commander_31 Start: 22960, Stop: 24816, Start Num: 4

Candidate Starts for Commander_31:

(Start: 4 @22960 has 142 MA's), (19, 23086), (24, 23110), (41, 23215), (42, 23221), (46, 23269), (49, 23278), (55, 23320), (67, 23365), (68, 23371), (85, 23476), (87, 23488), (99, 23566), (107, 23635), (131, 23863), (134, 23887), (135, 23890), (138, 23917), (139, 23920), (153, 24025), (156, 24055), (158, 24070), (168, 24160), (175, 24199), (182, 24244), (204, 24412), (226, 24529), (228, 24535), (237, 24580), (250, 24631), (252, 24634), (267, 24697), (270, 24706), (289, 24793),

Gene: Connomayer_31 Start: 22960, Stop: 24816, Start Num: 4

Candidate Starts for Connomayer_31:

(Start: 4 @22960 has 142 MA's), (19, 23086), (24, 23110), (41, 23215), (42, 23221), (46, 23269), (49, 23278), (55, 23320), (67, 23365), (68, 23371), (85, 23476), (87, 23488), (99, 23566), (107, 23635), (131, 23863), (134, 23887), (135, 23890), (138, 23917), (139, 23920), (153, 24025), (156, 24055), (158, 24070), (168, 24160), (175, 24199), (182, 24244), (204, 24412), (226, 24529), (228, 24535), (237, 24580), (250, 24631), (252, 24634), (267, 24697), (270, 24706), (289, 24793),

Gene: D29_31 Start: 22559, Stop: 24412, Start Num: 8

Candidate Starts for D29_31:

(Start: 5 @22553 has 3 MA's), (Start: 8 @22559 has 25 MA's), (21, 22679), (36, 22769), (45, 22829), (52, 22880), (69, 22973), (72, 22997), (73, 23003), (142, 23510), (154, 23579), (167, 23666), (178, 23747), (261, 24191), (264, 24206), (277, 24260), (281, 24284), (284, 24293), (293, 24329),

Gene: D32_34 Start: 22559, Stop: 24412, Start Num: 8

Candidate Starts for D32_34:

(Start: 5 @22553 has 3 MA's), (Start: 8 @22559 has 25 MA's), (21, 22679), (36, 22769), (45, 22829), (52, 22880), (69, 22973), (72, 22997), (73, 23003), (142, 23510), (154, 23579), (167, 23666), (178, 23747), (261, 24191), (264, 24206), (277, 24260), (281, 24284), (284, 24293), (293, 24329),

Gene: DBQu4n_34 Start: 22559, Stop: 24412, Start Num: 8

Candidate Starts for DBQu4n_34:

(Start: 5 @22553 has 3 MA's), (Start: 8 @22559 has 25 MA's), (21, 22679), (36, 22769), (45, 22829), (52, 22880), (69, 22973), (72, 22997), (73, 23003), (142, 23510), (154, 23579), (167, 23666), (178, 23747), (188, 23813), (199, 23930), (251, 24149), (254, 24161), (261, 24191), (277, 24260), (281, 24284), (284, 24293), (293, 24329),

Gene: Datway_31 Start: 22981, Stop: 24840, Start Num: 4

Candidate Starts for Datway_31:

(2, 22921), (Start: 4 @22981 has 142 MA's), (15, 23047), (16, 23092), (18, 23098), (24, 23131), (28, 23149), (34, 23194), (35, 23200), (36, 23206), (49, 23299), (51, 23314), (67, 23386), (77, 23446), (85, 23497), (87, 23509), (99, 23587), (107, 23656), (119, 23779), (123, 23803), (131, 23884), (136, 23929), (138, 23938), (139, 23941), (154, 24070), (156, 24079), (162, 24121), (165, 24148), (168, 24184), (174, 24211), (175, 24223), (195, 24379), (226, 24553), (228, 24559), (237, 24604), (250, 24655), (252, 24658), (259, 24694), (270, 24730),

Gene: Deano_31 Start: 22968, Stop: 24824, Start Num: 4

Candidate Starts for Deano_31:

(Start: 4 @22968 has 142 MA's), (19, 23094), (24, 23118), (41, 23223), (42, 23229), (46, 23277), (49, 23286), (55, 23328), (67, 23373), (68, 23379), (85, 23484), (87, 23496), (99, 23574), (107, 23643), (131, 23871), (134, 23895), (135, 23898), (138, 23925), (139, 23928), (153, 24033), (156, 24063), (158, 24078), (168, 24168), (175, 24207), (182, 24252), (204, 24420), (226, 24537), (228, 24543), (237, 24588), (250, 24639), (252, 24642), (267, 24705), (270, 24714), (289, 24801),

Gene: Dhanush_31 Start: 22963, Stop: 24819, Start Num: 4

Candidate Starts for Dhanush_31:

(Start: 4 @22963 has 142 MA's), (19, 23089), (24, 23113), (41, 23218), (42, 23224), (46, 23272), (49, 23281), (55, 23323), (67, 23368), (68, 23374), (85, 23479), (87, 23491), (99, 23569), (107, 23638), (131, 23866), (134, 23890), (135, 23893), (138, 23920), (139, 23923), (153, 24028), (156, 24058), (158, 24073), (168, 24163), (175, 24202), (182, 24247), (204, 24415), (226, 24532), (228, 24538), (237, 24583), (250, 24634), (252, 24637), (267, 24700), (270, 24709), (289, 24796),

Gene: DirtyDunning_31 Start: 22953, Stop: 24809, Start Num: 4

Candidate Starts for DirtyDunning_31:

(Start: 4 @22953 has 142 MA's), (19, 23079), (24, 23103), (41, 23208), (42, 23214), (46, 23262), (49, 23271), (55, 23313), (67, 23358), (68, 23364), (85, 23469), (87, 23481), (95, 23544), (99, 23559), (107, 23628), (125, 23796), (131, 23856), (135, 23883), (138, 23910), (139, 23913), (153, 24018), (154, 24039), (156, 24048), (168, 24153), (182, 24237), (194, 24336), (226, 24522), (228, 24528), (237, 24573), (250, 24624), (252, 24627), (267, 24690), (270, 24699), (289, 24786),

Gene: DreamTeam1_31 Start: 22328, Stop: 23986, Start Num: 7

Candidate Starts for DreamTeam1_31:

(Start: 7 @22328 has 8 MA's), (9, 22334), (28, 22484), (33, 22514), (40, 22565), (48, 22631), (57, 22679), (66, 22703), (83, 22778), (111, 22892), (147, 23183), (151, 23219), (166, 23339), (181, 23453), (198, 23612), (202, 23627), (214, 23681), (274, 23870),

Gene: Druantia_31 Start: 22961, Stop: 24817, Start Num: 4

Candidate Starts for Druantia_31:

(Start: 4 @22961 has 142 MA's), (19, 23087), (24, 23111), (41, 23216), (42, 23222), (46, 23270), (49, 23279), (55, 23321), (67, 23366), (68, 23372), (85, 23477), (87, 23489), (99, 23567), (107, 23636), (131, 23864), (134, 23888), (135, 23891), (138, 23918), (139, 23921), (153, 24026), (156, 24056), (158, 24071), (168, 24161), (175, 24200), (182, 24245), (204, 24413), (226, 24530), (228, 24536), (237, 24581), (250, 24632), (252, 24635), (267, 24698), (270, 24707), (289, 24794),

Gene: Duplo_34 Start: 22597, Stop: 24450, Start Num: 8

Candidate Starts for Duplo_34:

(Start: 5 @22591 has 3 MA's), (Start: 8 @22597 has 25 MA's), (21, 22717), (36, 22807), (45, 22867), (52, 22918), (69, 23011), (72, 23035), (73, 23041), (142, 23548), (154, 23617), (167, 23704), (178, 23785), (199, 23968), (251, 24187), (254, 24199), (261, 24229), (277, 24298), (281, 24322), (284, 24331), (293, 24367),

Gene: Eagle_30 Start: 22960, Stop: 24816, Start Num: 4

Candidate Starts for Eagle_30:

(Start: 4 @22960 has 142 MA's), (19, 23086), (24, 23110), (41, 23215), (42, 23221), (46, 23269), (55, 23320), (68, 23371), (85, 23476), (87, 23488), (99, 23566), (107, 23635), (125, 23803), (128, 23833), (131, 23863), (134, 23887), (135, 23890), (138, 23917), (139, 23920), (153, 24025), (154, 24046), (156, 24055), (175, 24199), (182, 24244), (201, 24406), (226, 24529), (237, 24580), (267, 24697), (270, 24706), (289, 24793),

Gene: Eapen_31 Start: 22959, Stop: 24815, Start Num: 4

Candidate Starts for Eapen_31:

(Start: 4 @22959 has 142 MA's), (19, 23085), (24, 23109), (41, 23214), (42, 23220), (46, 23268), (55, 23319), (67, 23364), (68, 23370), (85, 23475), (87, 23487), (99, 23565), (107, 23634), (131, 23862), (134, 23886), (135, 23889), (138, 23916), (139, 23919), (153, 24024), (156, 24054), (158, 24069), (168, 24159), (175, 24198), (182, 24243), (204, 24411), (226, 24528), (228, 24534), (237, 24579), (250, 24630), (252, 24633), (267, 24696), (270, 24705), (289, 24792),

Gene: Eris_30 Start: 22960, Stop: 24816, Start Num: 4

Candidate Starts for Eris_30:

(Start: 4 @22960 has 142 MA's), (19, 23086), (24, 23110), (41, 23215), (42, 23221), (46, 23269), (55, 23320), (67, 23365), (68, 23371), (85, 23476), (87, 23488), (99, 23566), (107, 23635), (131, 23863), (134, 23887), (135, 23890), (138, 23917), (139, 23920), (153, 24025), (154, 24046), (156, 24055), (168, 24160), (175, 24199), (182, 24244), (204, 24412), (226, 24529), (228, 24535), (237, 24580), (250, 24631), (252, 24634), (267, 24697), (270, 24706), (289, 24793),

Gene: Eros_31 Start: 22960, Stop: 24816, Start Num: 4

Candidate Starts for Eros_31:

(Start: 4 @22960 has 142 MA's), (19, 23086), (24, 23110), (41, 23215), (42, 23221), (46, 23269), (49, 23278), (55, 23320), (67, 23365), (68, 23371), (85, 23476), (87, 23488), (99, 23566), (107, 23635), (131, 23863), (134, 23887), (135, 23890), (138, 23917), (139, 23920), (153, 24025), (156, 24055), (158, 24070), (168, 24160), (175, 24199), (182, 24244), (204, 24412), (226, 24529), (228, 24535), (237, 24580), (250, 24631), (252, 24634), (267, 24697), (270, 24706), (289, 24793),

Gene: Eurydice_31 Start: 22957, Stop: 24813, Start Num: 4

Candidate Starts for Eurydice_31:

(Start: 4 @22957 has 142 MA's), (19, 23083), (24, 23107), (41, 23212), (42, 23218), (46, 23266), (49, 23275), (55, 23317), (67, 23362), (68, 23368), (87, 23485), (99, 23563), (107, 23632), (131, 23860), (134, 23884), (135, 23887), (138, 23914), (139, 23917), (153, 24022), (156, 24052), (158, 24067), (168, 24157), (175, 24196), (180, 24223), (182, 24241), (194, 24340), (226, 24526), (237, 24577), (252, 24631), (267, 24694), (270, 24703), (289, 24790),

Gene: Florean_31 Start: 22957, Stop: 24813, Start Num: 4

Candidate Starts for Florean_31:

(Start: 4 @22957 has 142 MA's), (19, 23083), (24, 23107), (41, 23212), (42, 23218), (46, 23266), (49, 23275), (55, 23317), (67, 23362), (68, 23368), (85, 23473), (87, 23485), (99, 23563), (107, 23632), (131, 23860), (134, 23884), (135, 23887), (138, 23914), (139, 23917), (153, 24022), (156, 24052), (158, 24067), (168, 24157), (175, 24196), (182, 24241), (204, 24409), (226, 24526), (228, 24532), (237, 24577), (250, 24628), (252, 24631), (267, 24694), (270, 24703), (289, 24790),

Gene: Flux_31 Start: 22960, Stop: 24816, Start Num: 4

Candidate Starts for Flux_31:

(Start: 4 @22960 has 142 MA's), (19, 23086), (24, 23110), (41, 23215), (42, 23221), (46, 23269), (49, 23278), (55, 23320), (67, 23365), (68, 23371), (85, 23476), (87, 23488), (99, 23566), (107, 23635), (131, 23863), (134, 23887), (135, 23890), (138, 23917), (139, 23920), (153, 24025), (156, 24055), (158, 24070), (168, 24160), (175, 24199), (182, 24244), (204, 24412), (226, 24529), (228, 24535),

(237, 24580), (250, 24631), (252, 24634), (267, 24697), (270, 24706), (289, 24793),

Gene: Funston_31 Start: 22960, Stop: 24816, Start Num: 4

Candidate Starts for Funston_31:

(Start: 4 @22960 has 142 MA's), (19, 23086), (24, 23110), (41, 23215), (42, 23221), (46, 23269), (55, 23320), (67, 23365), (68, 23371), (85, 23476), (87, 23488), (99, 23566), (107, 23635), (131, 23863), (134, 23887), (135, 23890), (138, 23917), (139, 23920), (153, 24025), (154, 24046), (156, 24055), (168, 24160), (175, 24199), (182, 24244), (204, 24412), (226, 24529), (228, 24535), (237, 24580), (250, 24631), (252, 24634), (267, 24697), (270, 24706), (289, 24793),

Gene: Gadost_31 Start: 22964, Stop: 24820, Start Num: 4

Candidate Starts for Gadost_31:

(Start: 4 @22964 has 142 MA's), (19, 23090), (24, 23114), (41, 23219), (42, 23225), (46, 23273), (49, 23282), (55, 23324), (67, 23369), (68, 23375), (85, 23480), (87, 23492), (99, 23570), (107, 23639), (131, 23867), (134, 23891), (135, 23894), (138, 23921), (139, 23924), (153, 24029), (154, 24050), (156, 24059), (168, 24164), (175, 24203), (182, 24248), (201, 24410), (204, 24416), (226, 24533), (228, 24539), (237, 24584), (250, 24635), (252, 24638), (267, 24701), (270, 24710), (289, 24797),

Gene: HamSlice_30 Start: 22958, Stop: 24814, Start Num: 4

Candidate Starts for HamSlice_30:

(Start: 4 @22958 has 142 MA's), (19, 23084), (24, 23108), (41, 23213), (42, 23219), (46, 23267), (55, 23318), (67, 23363), (68, 23369), (85, 23474), (87, 23486), (99, 23564), (107, 23633), (131, 23861), (134, 23885), (135, 23888), (138, 23915), (139, 23918), (153, 24023), (156, 24053), (158, 24068), (168, 24158), (175, 24197), (182, 24242), (204, 24410), (226, 24527), (228, 24533), (237, 24578), (250, 24629), (252, 24632), (267, 24695), (270, 24704), (289, 24791),

Gene: Happiness_31 Start: 22966, Stop: 24822, Start Num: 4

Candidate Starts for Happiness_31:

(Start: 4 @22966 has 142 MA's), (19, 23092), (24, 23116), (36, 23191), (41, 23221), (46, 23275), (49, 23284), (55, 23326), (68, 23377), (85, 23482), (87, 23494), (99, 23572), (107, 23641), (125, 23809), (128, 23839), (131, 23869), (134, 23893), (135, 23896), (138, 23923), (139, 23926), (153, 24031), (154, 24052), (156, 24061), (168, 24166), (175, 24205), (182, 24250), (201, 24412), (226, 24535), (237, 24586), (250, 24637), (252, 24640), (267, 24703), (270, 24712), (289, 24799),

Gene: Holli_31 Start: 22750, Stop: 24606, Start Num: 4

Candidate Starts for Holli_31:

(Start: 4 @22750 has 142 MA's), (19, 22876), (24, 22900), (41, 23005), (42, 23011), (46, 23059), (49, 23068), (55, 23110), (67, 23155), (68, 23161), (85, 23266), (87, 23278), (99, 23356), (107, 23425), (131, 23653), (134, 23677), (135, 23680), (138, 23707), (139, 23710), (153, 23815), (156, 23845), (158, 23860), (168, 23950), (175, 23989), (182, 24034), (204, 24202), (226, 24319), (228, 24325), (237, 24370), (250, 24421), (252, 24424), (267, 24487), (270, 24496), (289, 24583),

Gene: Houdini22_31 Start: 22964, Stop: 24820, Start Num: 4

Candidate Starts for Houdini22_31:

(Start: 4 @22964 has 142 MA's), (19, 23090), (24, 23114), (41, 23219), (42, 23225), (46, 23273), (49, 23282), (55, 23324), (67, 23369), (68, 23375), (85, 23480), (87, 23492), (99, 23570), (107, 23639), (131, 23867), (134, 23891), (135, 23894), (138, 23921), (139, 23924), (153, 24029), (154, 24050), (156, 24059), (168, 24164), (175, 24203), (182, 24248), (201, 24410), (204, 24416), (226, 24533), (228, 24539), (237, 24584), (250, 24635), (252, 24638), (267, 24701), (270, 24710), (289, 24797),

Gene: Huxley_31 Start: 23021, Stop: 24877, Start Num: 4

Candidate Starts for Huxley_31:

(Start: 4 @23021 has 142 MA's), (19, 23147), (24, 23171), (41, 23276), (42, 23282), (46, 23330), (55, 23381), (67, 23426), (68, 23432), (85, 23537), (87, 23549), (95, 23612), (99, 23627), (107, 23696), (131, 23924), (134, 23948), (135, 23951), (138, 23978), (139, 23981), (153, 24086), (154, 24107), (156, 24116), (168, 24221), (175, 24260), (182, 24305), (226, 24590), (228, 24596), (237, 24641), (250, 24692), (252, 24695), (267, 24758), (270, 24767), (289, 24854),

Gene: ICleared_31 Start: 22958, Stop: 24814, Start Num: 4

Candidate Starts for ICleared_31:

(Start: 4 @22958 has 142 MA's), (19, 23084), (24, 23108), (41, 23213), (42, 23219), (46, 23267), (55, 23318), (67, 23363), (68, 23369), (85, 23474), (87, 23486), (99, 23564), (107, 23633), (131, 23861), (134, 23885), (135, 23888), (138, 23915), (139, 23918), (153, 24023), (154, 24044), (156, 24053), (168, 24158), (175, 24197), (182, 24242), (201, 24404), (204, 24410), (226, 24527), (228, 24533), (237, 24578), (250, 24629), (252, 24632), (267, 24695), (270, 24704), (289, 24791),

Gene: Iceman_32 Start: 23249, Stop: 25105, Start Num: 4

Candidate Starts for Iceman_32:

(Start: 4 @23249 has 142 MA's), (19, 23375), (24, 23399), (41, 23504), (42, 23510), (46, 23558), (55, 23609), (67, 23654), (68, 23660), (85, 23765), (87, 23777), (99, 23855), (107, 23924), (131, 24152), (134, 24176), (135, 24179), (138, 24206), (139, 24209), (153, 24314), (156, 24344), (158, 24359), (168, 24449), (175, 24488), (182, 24533), (204, 24701), (224, 24812), (226, 24818), (228, 24824), (237, 24869), (250, 24920), (252, 24923), (267, 24986), (270, 24995), (289, 25082),

Gene: Iracema64_32 Start: 23268, Stop: 25124, Start Num: 4

Candidate Starts for Iracema64_32:

(Start: 4 @23268 has 142 MA's), (19, 23394), (24, 23418), (41, 23523), (42, 23529), (46, 23577), (49, 23586), (55, 23628), (67, 23673), (68, 23679), (85, 23784), (87, 23796), (95, 23859), (99, 23874), (107, 23943), (125, 24111), (131, 24171), (135, 24198), (138, 24225), (139, 24228), (153, 24333), (154, 24354), (156, 24363), (168, 24468), (182, 24552), (194, 24651), (226, 24837), (228, 24843), (237, 24888), (250, 24939), (252, 24942), (267, 25005), (270, 25014), (289, 25101),

Gene: Jaykayelowell_31 Start: 22956, Stop: 24812, Start Num: 4

Candidate Starts for Jaykayelowell_31:

(Start: 4 @22956 has 142 MA's), (19, 23082), (24, 23106), (41, 23211), (42, 23217), (46, 23265), (55, 23316), (67, 23361), (68, 23367), (85, 23472), (87, 23484), (99, 23562), (107, 23631), (131, 23859), (135, 23886), (138, 23913), (139, 23916), (153, 24021), (156, 24051), (158, 24066), (168, 24156), (175, 24195), (182, 24240), (204, 24408), (226, 24525), (228, 24531), (237, 24576), (250, 24627), (252, 24630), (267, 24693), (270, 24702), (289, 24789),

Gene: Jeeves_31 Start: 21978, Stop: 23861, Start Num: 7

Candidate Starts for Jeeves_31:

(Start: 7 @21978 has 8 MA's), (9, 21984), (37, 22194), (42, 22227), (45, 22251), (46, 22272), (62, 22347), (81, 22437), (96, 22551), (111, 22692), (115, 22746), (130, 22881), (137, 22935), (148, 23019), (160, 23118), (166, 23163), (177, 23247), (190, 23346), (193, 23370), (198, 23436), (202, 23451), (225, 23571), (235, 23598), (260, 23688), (271, 23724), (274, 23748), (280, 23781), (292, 23823), (294, 23850), (295, 23853),

Gene: JetBlade_31 Start: 22957, Stop: 24813, Start Num: 4

Candidate Starts for JetBlade_31:

(Start: 4 @22957 has 142 MA's), (19, 23083), (24, 23107), (41, 23212), (42, 23218), (46, 23266), (49, 23275), (55, 23317), (67, 23362), (68, 23368), (85, 23473), (87, 23485), (99, 23563), (107, 23632), (131, 23860), (134, 23884), (135, 23887), (138, 23914), (139, 23917), (153, 24022), (156, 24052), (158, 24067), (168, 24157), (175, 24196), (182, 24241), (204, 24409), (226, 24526), (228, 24532), (237, 24577), (250, 24628), (252, 24631), (267, 24694), (270, 24703), (289, 24790),

Gene: JoongJeon_31 Start: 22960, Stop: 24816, Start Num: 4

Candidate Starts for JoongJeon_31:

(Start: 4 @22960 has 142 MA's), (19, 23086), (24, 23110), (41, 23215), (42, 23221), (46, 23269), (49, 23278), (55, 23320), (67, 23365), (68, 23371), (85, 23476), (87, 23488), (99, 23566), (107, 23635), (131, 23863), (134, 23887), (135, 23890), (138, 23917), (139, 23920), (153, 24025), (156, 24055), (158, 24070), (168, 24160), (175, 24199), (182, 24244), (204, 24412), (226, 24529), (228, 24535), (237, 24580), (250, 24631), (252, 24634), (267, 24697), (270, 24706), (289, 24793),

Gene: Journey13_29 Start: 21908, Stop: 23737, Start Num: 8

Candidate Starts for Journey13_29:

(Start: 8 @21908 has 25 MA's), (23, 22037), (24, 22043), (42, 22154), (45, 22178), (68, 22313), (72, 22346), (73, 22352), (105, 22532), (142, 22850), (159, 22952), (162, 22973), (163, 22979), (164, 22994), (171, 23054), (176, 23081), (206, 23300), (271, 23564), (281, 23624), (296, 23726), (297, 23729),

Gene: Jsquared_30 Start: 21719, Stop: 23470, Start Num: 8

Candidate Starts for Jsquared_30:

(Start: 8 @21719 has 25 MA's), (12, 21740), (21, 21839), (24, 21854), (36, 21929), (42, 21965), (43, 21977), (45, 21989), (46, 22013), (48, 22019), (65, 22100), (69, 22133), (72, 22157), (73, 22163), (87, 22235), (105, 22343), (142, 22661), (162, 22781), (169, 22850), (199, 23081), (214, 23156), (217, 23168), (218, 23177), (223, 23216), (278, 23411), (283, 23438), (284, 23441), (286, 23453),

Gene: KFPoly_31 Start: 22957, Stop: 24813, Start Num: 4

Candidate Starts for KFPoly_31:

(Start: 4 @22957 has 142 MA's), (19, 23083), (24, 23107), (41, 23212), (42, 23218), (46, 23266), (49, 23275), (55, 23317), (67, 23362), (68, 23368), (85, 23473), (87, 23485), (99, 23563), (107, 23632), (131, 23860), (134, 23884), (135, 23887), (138, 23914), (139, 23917), (153, 24022), (154, 24043), (156, 24052), (168, 24157), (175, 24196), (182, 24241), (204, 24409), (226, 24526), (228, 24532), (237, 24577), (250, 24628), (252, 24631), (267, 24694), (270, 24703), (289, 24790),

Gene: Kamy_31 Start: 22958, Stop: 24814, Start Num: 4

Candidate Starts for Kamy_31:

(Start: 4 @22958 has 142 MA's), (19, 23084), (24, 23108), (41, 23213), (42, 23219), (46, 23267), (49, 23276), (55, 23318), (67, 23363), (68, 23369), (85, 23474), (87, 23486), (99, 23564), (107, 23633), (131, 23861), (134, 23885), (135, 23888), (138, 23915), (139, 23918), (153, 24023), (156, 24053), (158, 24068), (168, 24158), (175, 24197), (180, 24224), (182, 24242), (194, 24341), (226, 24527), (237, 24578), (252, 24632), (267, 24695), (270, 24704), (289, 24791),

Gene: Katalie136_31 Start: 22972, Stop: 24831, Start Num: 4

Candidate Starts for Katalie136_31:

(2, 22912), (Start: 4 @22972 has 142 MA's), (15, 23038), (16, 23083), (18, 23089), (24, 23122), (28, 23140), (34, 23185), (35, 23191), (36, 23197), (49, 23290), (51, 23305), (67, 23377), (77, 23437), (85, 23488), (87, 23500), (99, 23578), (107, 23647), (119, 23770), (123, 23794), (131, 23875), (136, 23920), (138, 23929), (139, 23932), (154, 24061), (156, 24070), (162, 24112), (165, 24139), (168, 24175), (174, 24202), (175, 24214), (195, 24370), (226, 24544), (228, 24550), (237, 24595), (250, 24646), (252, 24649), (259, 24685), (270, 24721),

Gene: KekoraPapaka_30 Start: 22960, Stop: 24816, Start Num: 4

Candidate Starts for KekoraPapaka_30:

(Start: 4 @22960 has 142 MA's), (19, 23086), (24, 23110), (41, 23215), (42, 23221), (46, 23269), (49, 23278), (55, 23320), (67, 23365), (68, 23371), (85, 23476), (87, 23488), (99, 23566), (107, 23635), (131, 23863), (134, 23887), (135, 23890), (138, 23917), (139, 23920), (153, 24025), (156, 24055),

(158, 24070), (168, 24160), (175, 24199), (182, 24244), (204, 24412), (226, 24529), (228, 24535), (237, 24580), (250, 24631), (252, 24634), (267, 24697), (270, 24706), (289, 24793),

Gene: Kerberos_34 Start: 22559, Stop: 24412, Start Num: 8

Candidate Starts for Kerberos_34:

(Start: 5 @22553 has 3 MA's), (Start: 8 @22559 has 25 MA's), (21, 22679), (36, 22769), (45, 22829), (52, 22880), (69, 22973), (72, 22997), (73, 23003), (142, 23510), (154, 23579), (167, 23666), (178, 23747), (199, 23930), (251, 24149), (254, 24161), (261, 24191), (277, 24260), (281, 24284), (284, 24293), (293, 24329),

Gene: Kimona_28 Start: 20738, Stop: 22444, Start Num: 4

Candidate Starts for Kimona_28:

(Start: 4 @20738 has 142 MA's), (11, 20771), (14, 20786), (32, 20936), (33, 20942), (46, 21053), (48, 21059), (69, 21116), (85, 21185), (90, 21218), (92, 21230), (114, 21389), (162, 21752), (203, 22079), (207, 22100), (210, 22112), (219, 22166), (223, 22190), (251, 22271), (276, 22379), (281, 22409), (288, 22436),

Gene: Kingmustik0402_31 Start: 22952, Stop: 24808, Start Num: 4

Candidate Starts for Kingmustik0402_31:

(Start: 4 @22952 has 142 MA's), (19, 23078), (24, 23102), (41, 23207), (42, 23213), (46, 23261), (49, 23270), (55, 23312), (67, 23357), (68, 23363), (85, 23468), (87, 23480), (99, 23558), (107, 23627), (131, 23855), (134, 23879), (135, 23882), (138, 23909), (139, 23912), (153, 24017), (156, 24047), (158, 24062), (168, 24152), (175, 24191), (182, 24236), (204, 24404), (226, 24521), (228, 24527), (237, 24572), (250, 24623), (252, 24626), (267, 24689), (270, 24698), (289, 24785),

Gene: Kinmap_32 Start: 22357, Stop: 24255, Start Num: 7

Candidate Starts for Kinmap_32:

(1, 22222), (Start: 7 @22357 has 8 MA's), (9, 22363), (27, 22507), (45, 22630), (54, 22696), (58, 22717), (96, 22936), (102, 22978), (111, 23077), (127, 23281), (137, 23362), (140, 23374), (148, 23446), (151, 23470), (159, 23536), (198, 23863), (202, 23878), (273, 24130), (277, 24154), (294, 24244), (295, 24247),

Gene: Klodlith_31 Start: 22328, Stop: 23986, Start Num: 7

Candidate Starts for Klodlith_31:

(Start: 7 @22328 has 8 MA's), (28, 22484), (33, 22514), (40, 22565), (48, 22631), (57, 22679), (66, 22703), (83, 22778), (111, 22892), (125, 23003), (147, 23183), (151, 23219), (166, 23339), (181, 23453), (184, 23465), (198, 23612), (202, 23627), (214, 23681), (268, 23837), (274, 23870),

Gene: Koan_31 Start: 22960, Stop: 24816, Start Num: 4

Candidate Starts for Koan_31:

(Start: 4 @22960 has 142 MA's), (19, 23086), (24, 23110), (41, 23215), (42, 23221), (46, 23269), (49, 23278), (55, 23320), (68, 23371), (85, 23476), (87, 23488), (99, 23566), (107, 23635), (131, 23863), (134, 23887), (135, 23890), (138, 23917), (139, 23920), (153, 24025), (154, 24046), (156, 24055), (158, 24070), (168, 24160), (175, 24199), (182, 24244), (204, 24412), (226, 24529), (228, 24535), (237, 24580), (250, 24631), (252, 24634), (267, 24697), (270, 24706), (289, 24793),

Gene: Koduck_31 Start: 21936, Stop: 23582, Start Num: 8

Candidate Starts for Koduck_31:

(Start: 8 @21936 has 25 MA's), (21, 22056), (24, 22071), (36, 22146), (43, 22194), (45, 22206), (53, 22263), (72, 22374), (73, 22380), (87, 22452), (116, 22671), (133, 22785), (142, 22869), (145, 22875), (151, 22911), (162, 22995), (170, 23073), (186, 23169), (192, 23208), (199, 23295), (214, 23367), (228, 23442), (231, 23454), (234, 23463), (247, 23493), (266, 23562),

Gene: Koreni_30 Start: 22606, Stop: 24462, Start Num: 4

Candidate Starts for Koreni_30:

(Start: 4 @22606 has 142 MA's), (19, 22732), (24, 22756), (41, 22861), (42, 22867), (46, 22915), (49, 22924), (55, 22966), (67, 23011), (68, 23017), (85, 23122), (87, 23134), (99, 23212), (107, 23281), (131, 23509), (134, 23533), (135, 23536), (138, 23563), (139, 23566), (153, 23671), (154, 23692), (156, 23701), (168, 23806), (175, 23845), (182, 23890), (201, 24052), (204, 24058), (226, 24175), (228, 24181), (237, 24226), (250, 24277), (252, 24280), (267, 24343), (270, 24352), (289, 24439),

Gene: Kratak_31 Start: 22952, Stop: 24808, Start Num: 4

Candidate Starts for Kratak_31:

(Start: 4 @22952 has 142 MA's), (19, 23078), (24, 23102), (41, 23207), (42, 23213), (46, 23261), (55, 23312), (67, 23357), (68, 23363), (85, 23468), (87, 23480), (95, 23543), (99, 23558), (107, 23627), (131, 23855), (134, 23879), (135, 23882), (138, 23909), (139, 23912), (153, 24017), (154, 24038), (156, 24047), (168, 24152), (175, 24191), (182, 24236), (194, 24335), (226, 24521), (228, 24527), (237, 24572), (250, 24623), (252, 24626), (267, 24689), (270, 24698), (289, 24785),

Gene: Kremtemulon_31 Start: 23008, Stop: 24867, Start Num: 4

Candidate Starts for Kremtemulon_31:

(Start: 4 @23008 has 142 MA's), (19, 23134), (24, 23158), (41, 23263), (42, 23269), (46, 23317), (49, 23326), (55, 23368), (68, 23419), (85, 23524), (87, 23536), (99, 23614), (107, 23683), (131, 23911), (135, 23938), (138, 23965), (139, 23968), (153, 24073), (156, 24103), (158, 24118), (168, 24208), (175, 24247), (180, 24274), (182, 24292), (228, 24583), (243, 24661), (249, 24673), (250, 24679), (259, 24718), (267, 24745), (269, 24751), (289, 24844),

Gene: Kyee_31 Start: 22958, Stop: 24814, Start Num: 4

Candidate Starts for Kyee_31:

(Start: 4 @22958 has 142 MA's), (19, 23084), (24, 23108), (41, 23213), (42, 23219), (46, 23267), (49, 23276), (55, 23318), (67, 23363), (68, 23369), (85, 23474), (87, 23486), (99, 23564), (107, 23633), (131, 23861), (134, 23885), (135, 23888), (138, 23915), (139, 23918), (153, 24023), (154, 24044), (156, 24053), (168, 24158), (175, 24197), (182, 24242), (204, 24410), (226, 24527), (228, 24533), (237, 24578), (250, 24629), (252, 24632), (267, 24695), (270, 24704), (289, 24791),

Gene: L5_31 Start: 21890, Stop: 23536, Start Num: 8

Candidate Starts for L5_31:

(Start: 8 @21890 has 25 MA's), (21, 22010), (24, 22025), (36, 22100), (43, 22148), (45, 22160), (65, 22271), (72, 22328), (73, 22334), (87, 22406), (116, 22625), (133, 22739), (142, 22823), (145, 22829), (151, 22865), (162, 22949), (170, 23027), (186, 23123), (192, 23162), (199, 23249), (231, 23408), (247, 23447),

Gene: LHTSCC_32 Start: 23274, Stop: 25130, Start Num: 4

Candidate Starts for LHTSCC_32:

(Start: 4 @23274 has 142 MA's), (19, 23400), (24, 23424), (41, 23529), (42, 23535), (46, 23583), (55, 23634), (68, 23685), (85, 23790), (87, 23802), (99, 23880), (107, 23949), (125, 24117), (128, 24147), (131, 24177), (134, 24201), (135, 24204), (138, 24231), (139, 24234), (153, 24339), (154, 24360), (156, 24369), (175, 24513), (182, 24558), (201, 24720), (226, 24843), (237, 24894), (267, 25011), (270, 25020), (289, 25107),

Gene: LappelDuVide_31 Start: 22957, Stop: 24813, Start Num: 4

Candidate Starts for LappelDuVide_31:

(Start: 4 @22957 has 142 MA's), (19, 23083), (24, 23107), (41, 23212), (42, 23218), (46, 23266), (55, 23317), (67, 23362), (68, 23368), (85, 23473), (87, 23485), (99, 23563), (107, 23632), (131, 23860), (134, 23884), (135, 23887), (138, 23914), (139, 23917), (153, 24022), (156, 24052), (158, 24067), (168, 24157), (175, 24196), (182, 24241), (204, 24409), (226, 24526), (228, 24532), (237, 24577),

(250, 24628), (252, 24631), (267, 24694), (270, 24703), (289, 24790),

Gene: Lemur_31 Start: 22957, Stop: 24813, Start Num: 4

Candidate Starts for Lemur_31:

(Start: 4 @22957 has 142 MA's), (19, 23083), (24, 23107), (41, 23212), (42, 23218), (46, 23266), (49, 23275), (55, 23317), (67, 23362), (68, 23368), (85, 23473), (87, 23485), (99, 23563), (107, 23632), (131, 23860), (134, 23884), (135, 23887), (138, 23914), (139, 23917), (153, 24022), (156, 24052), (158, 24067), (168, 24157), (175, 24196), (182, 24241), (204, 24409), (226, 24526), (228, 24532), (237, 24577), (250, 24628), (252, 24631), (267, 24694), (270, 24703), (289, 24790),

Gene: LeoAvram_31 Start: 22957, Stop: 24813, Start Num: 4

Candidate Starts for LeoAvram_31:

(Start: 4 @22957 has 142 MA's), (19, 23083), (24, 23107), (41, 23212), (42, 23218), (46, 23266), (49, 23275), (55, 23317), (67, 23362), (68, 23368), (87, 23485), (99, 23563), (107, 23632), (131, 23860), (134, 23884), (135, 23887), (138, 23914), (139, 23917), (153, 24022), (156, 24052), (158, 24067), (168, 24157), (175, 24196), (182, 24241), (194, 24340), (226, 24526), (237, 24577), (252, 24631), (267, 24694), (270, 24703), (289, 24790),

Gene: LittleB_31 Start: 22960, Stop: 24816, Start Num: 4

Candidate Starts for LittleB_31:

(Start: 4 @22960 has 142 MA's), (19, 23086), (24, 23110), (41, 23215), (42, 23221), (46, 23269), (49, 23278), (55, 23320), (67, 23365), (68, 23371), (85, 23476), (87, 23488), (99, 23566), (107, 23635), (131, 23863), (134, 23887), (135, 23890), (138, 23917), (139, 23920), (153, 24025), (156, 24055), (158, 24070), (168, 24160), (175, 24199), (182, 24244), (204, 24412), (226, 24529), (228, 24535), (237, 24580), (250, 24631), (252, 24634), (267, 24697), (270, 24706), (289, 24793),

Gene: LittleGuy_31 Start: 22903, Stop: 24762, Start Num: 4

Candidate Starts for LittleGuy_31:

(Start: 4 @22903 has 142 MA's), (19, 23029), (24, 23053), (41, 23158), (42, 23164), (46, 23212), (49, 23221), (55, 23263), (67, 23308), (68, 23314), (85, 23419), (87, 23431), (99, 23509), (107, 23578), (138, 23860), (139, 23863), (153, 23968), (156, 23998), (168, 24103), (175, 24142), (180, 24169), (182, 24187), (228, 24478), (243, 24556), (249, 24568), (250, 24574), (259, 24613), (267, 24640), (269, 24646), (270, 24649), (289, 24739),

Gene: LochMonster_31 Start: 22932, Stop: 24788, Start Num: 4

Candidate Starts for LochMonster_31:

(Start: 4 @22932 has 142 MA's), (19, 23058), (24, 23082), (41, 23187), (42, 23193), (46, 23241), (49, 23250), (55, 23292), (67, 23337), (68, 23343), (85, 23448), (87, 23460), (95, 23523), (99, 23538), (107, 23607), (125, 23775), (131, 23835), (135, 23862), (138, 23889), (139, 23892), (153, 23997), (154, 24018), (156, 24027), (168, 24132), (182, 24216), (194, 24315), (226, 24501), (228, 24507), (237, 24552), (250, 24603), (252, 24606), (267, 24669), (270, 24678), (289, 24765),

Gene: Lorenzo_31 Start: 22960, Stop: 24816, Start Num: 4

Candidate Starts for Lorenzo_31:

(Start: 4 @22960 has 142 MA's), (19, 23086), (24, 23110), (41, 23215), (42, 23221), (46, 23269), (55, 23320), (67, 23365), (68, 23371), (85, 23476), (87, 23488), (99, 23566), (107, 23635), (131, 23863), (134, 23887), (135, 23890), (138, 23917), (139, 23920), (153, 24025), (154, 24046), (156, 24055), (168, 24160), (175, 24199), (182, 24244), (201, 24406), (204, 24412), (226, 24529), (228, 24535), (237, 24580), (250, 24631), (252, 24634), (267, 24697), (270, 24706), (289, 24793),

Gene: Lunsford_32 Start: 22957, Stop: 24813, Start Num: 4

Candidate Starts for Lunsford_32:

(Start: 4 @22957 has 142 MA's), (19, 23083), (24, 23107), (41, 23212), (42, 23218), (46, 23266), (55, 23317), (67, 23362), (68, 23368), (85, 23473), (87, 23485), (99, 23563), (107, 23632), (131, 23860), (134, 23884), (135, 23887), (138, 23914), (139, 23917), (153, 24022), (156, 24052), (158, 24067), (168, 24157), (175, 24196), (182, 24241), (204, 24409), (226, 24526), (228, 24532), (237, 24577), (250, 24628), (252, 24631), (267, 24694), (270, 24703), (289, 24790),

Gene: MajorMajor_30 Start: 21646, Stop: 23397, Start Num: 8

Candidate Starts for MajorMajor_30:

(Start: 8 @21646 has 25 MA's), (12, 21667), (21, 21766), (24, 21781), (36, 21856), (45, 21916), (65, 22027), (69, 22060), (72, 22084), (73, 22090), (87, 22162), (97, 22237), (105, 22270), (108, 22300), (142, 22588), (162, 22708), (169, 22777), (199, 23008), (214, 23083), (217, 23095), (218, 23104), (223, 23143), (278, 23338), (283, 23365), (284, 23368), (286, 23380),

Gene: Malec_32 Start: 23029, Stop: 25110, Start Num: 7

Candidate Starts for Malec_32:

(Start: 7 @23029 has 8 MA's), (12, 23053), (19, 23143), (22, 23158), (39, 23257), (48, 23332), (56, 23380), (91, 23569), (96, 23608), (112, 23704), (141, 23953), (152, 24016), (157, 24061), (169, 24163), (189, 24301), (196, 24364), (197, 24394), (216, 24478), (233, 24568), (236, 24577), (242, 24592), (245, 24601), (287, 24775), (300, 24895), (303, 24934), (304, 24970), (305, 24994), (306, 25027), (307, 25096), (308, 25099),

Gene: Maverick_31 Start: 22960, Stop: 24816, Start Num: 4

Candidate Starts for Maverick_31:

(Start: 4 @22960 has 142 MA's), (19, 23086), (24, 23110), (41, 23215), (42, 23221), (46, 23269), (49, 23278), (55, 23320), (67, 23365), (68, 23371), (85, 23476), (87, 23488), (99, 23566), (107, 23635), (131, 23863), (134, 23887), (135, 23890), (138, 23917), (139, 23920), (153, 24025), (154, 24046), (156, 24055), (168, 24160), (175, 24199), (182, 24244), (201, 24406), (204, 24412), (226, 24529), (228, 24535), (237, 24580), (250, 24631), (252, 24634), (267, 24697), (270, 24706), (289, 24793),

Gene: Maxo_31 Start: 22958, Stop: 24814, Start Num: 4

Candidate Starts for Maxo_31:

(Start: 4 @22958 has 142 MA's), (19, 23084), (24, 23108), (41, 23213), (42, 23219), (46, 23267), (49, 23276), (55, 23318), (67, 23363), (68, 23369), (85, 23474), (87, 23486), (99, 23564), (107, 23633), (131, 23861), (134, 23885), (135, 23888), (138, 23915), (139, 23918), (153, 24023), (156, 24053), (158, 24068), (168, 24158), (175, 24197), (180, 24224), (182, 24242), (194, 24341), (226, 24527), (237, 24578), (252, 24632), (267, 24695), (270, 24704), (289, 24791),

Gene: Mayonnaise_31 Start: 22960, Stop: 24816, Start Num: 4

Candidate Starts for Mayonnaise_31:

(Start: 4 @22960 has 142 MA's), (19, 23086), (24, 23110), (41, 23215), (42, 23221), (46, 23269), (55, 23320), (67, 23365), (68, 23371), (85, 23476), (87, 23488), (99, 23566), (107, 23635), (131, 23863), (134, 23887), (135, 23890), (138, 23917), (139, 23920), (153, 24025), (154, 24046), (156, 24055), (168, 24160), (175, 24199), (182, 24244), (201, 24406), (204, 24412), (226, 24529), (228, 24535), (237, 24580), (250, 24631), (252, 24634), (267, 24697), (270, 24706), (289, 24793),

Gene: Mazhar510_31 Start: 22961, Stop: 24817, Start Num: 4

Candidate Starts for Mazhar510_31:

(Start: 4 @22961 has 142 MA's), (19, 23087), (24, 23111), (41, 23216), (42, 23222), (46, 23270), (55, 23321), (67, 23366), (68, 23372), (85, 23477), (87, 23489), (99, 23567), (107, 23636), (131, 23864), (134, 23888), (135, 23891), (138, 23918), (139, 23921), (153, 24026), (154, 24047), (156, 24056), (168, 24161), (175, 24200), (182, 24245), (201, 24407), (204, 24413), (226, 24530), (228, 24536), (237, 24581), (250, 24632), (252, 24635), (267, 24698), (270, 24707), (289, 24794),

Gene: Medusa_31 Start: 22961, Stop: 24817, Start Num: 4

Candidate Starts for Medusa_31:

(Start: 4 @22961 has 142 MA's), (19, 23087), (24, 23111), (41, 23216), (42, 23222), (46, 23270), (49, 23279), (55, 23321), (67, 23366), (68, 23372), (85, 23477), (87, 23489), (99, 23567), (107, 23636), (131, 23864), (134, 23888), (135, 23891), (138, 23918), (139, 23921), (153, 24026), (156, 24056), (158, 24071), (168, 24161), (175, 24200), (182, 24245), (204, 24413), (226, 24530), (228, 24536), (237, 24581), (250, 24632), (252, 24635), (267, 24698), (270, 24707), (289, 24794),

Gene: MeeZee_31 Start: 22960, Stop: 24816, Start Num: 4

Candidate Starts for MeeZee_31:

(Start: 4 @22960 has 142 MA's), (19, 23086), (24, 23110), (41, 23215), (42, 23221), (46, 23269), (49, 23278), (55, 23320), (67, 23365), (68, 23371), (85, 23476), (87, 23488), (99, 23566), (107, 23635), (131, 23863), (134, 23887), (135, 23890), (138, 23917), (139, 23920), (153, 24025), (154, 24046), (156, 24055), (168, 24160), (175, 24199), (182, 24244), (204, 24412), (226, 24529), (228, 24535), (237, 24580), (250, 24631), (252, 24634), (267, 24697), (270, 24706), (289, 24793),

Gene: MegTheThird_31 Start: 22321, Stop: 24066, Start Num: 7

Candidate Starts for MegTheThird_31:

(Start: 7 @22321 has 8 MA's), (28, 22477), (40, 22558), (48, 22624), (57, 22672), (66, 22696), (74, 22741), (83, 22771), (111, 22885), (132, 23062), (161, 23293), (166, 23332), (181, 23446), (198, 23605), (202, 23620), (239, 23806), (246, 23836), (268, 23917), (274, 23950), (291, 24022), (294, 24052), (295, 24055),

Gene: Melvin_31 Start: 22960, Stop: 24816, Start Num: 4

Candidate Starts for Melvin_31:

(Start: 4 @22960 has 142 MA's), (19, 23086), (24, 23110), (41, 23215), (42, 23221), (46, 23269), (49, 23278), (55, 23320), (67, 23365), (68, 23371), (85, 23476), (87, 23488), (99, 23566), (107, 23635), (131, 23863), (134, 23887), (135, 23890), (138, 23917), (139, 23920), (153, 24025), (156, 24055), (158, 24070), (168, 24160), (175, 24199), (182, 24244), (204, 24412), (226, 24529), (228, 24535), (237, 24580), (250, 24631), (252, 24634), (267, 24697), (270, 24706), (289, 24793),

Gene: Millski_30 Start: 22963, Stop: 24819, Start Num: 4

Candidate Starts for Millski_30:

(Start: 4 @22963 has 142 MA's), (19, 23089), (24, 23113), (41, 23218), (42, 23224), (46, 23272), (49, 23281), (55, 23323), (67, 23368), (68, 23374), (85, 23479), (87, 23491), (99, 23569), (107, 23638), (131, 23866), (134, 23890), (135, 23893), (138, 23920), (139, 23923), (153, 24028), (156, 24058), (158, 24073), (168, 24163), (175, 24202), (182, 24247), (204, 24415), (226, 24532), (228, 24538), (237, 24583), (250, 24634), (252, 24637), (267, 24700), (270, 24709), (289, 24796),

Gene: Minispark_29 Start: 22236, Stop: 23978, Start Num: 7

Candidate Starts for Minispark_29:

(Start: 7 @22236 has 8 MA's), (9, 22242), (21, 22359), (28, 22392), (45, 22509), (48, 22539), (57, 22587), (60, 22596), (61, 22599), (83, 22686), (93, 22731), (100, 22758), (115, 22833), (125, 22911), (132, 22977), (148, 23103), (202, 23535), (212, 23580), (238, 23712), (273, 23853), (274, 23865), (282, 23904), (294, 23967),

Gene: Miramae_31 Start: 22903, Stop: 24762, Start Num: 4

Candidate Starts for Miramae_31:

(Start: 4 @22903 has 142 MA's), (15, 22969), (24, 23053), (28, 23071), (34, 23116), (42, 23164), (49, 23221), (55, 23263), (68, 23314), (70, 23335), (77, 23368), (85, 23419), (87, 23431), (94, 23485), (99, 23509), (107, 23578), (131, 23806), (135, 23833), (138, 23860), (139, 23863), (153, 23971), (154, 23992), (156, 24001), (165, 24070), (168, 24106), (175, 24145), (185, 24214), (201, 24352), (226, 24475), (228, 24481), (267, 24643), (270, 24652),

Gene: MissWhite_31 Start: 21856, Stop: 23703, Start Num: 8

Candidate Starts for MissWhite_31:

(Start: 8 @21856 has 25 MA's), (12, 21877), (23, 21985), (42, 22102), (45, 22126), (75, 22306), (91, 22402), (104, 22474), (133, 22711), (142, 22795), (147, 22807), (149, 22828), (155, 22876), (162, 22921), (163, 22927), (164, 22942), (167, 22957), (169, 22990), (171, 23002), (180, 23053), (199, 23221), (208, 23266), (213, 23284), (271, 23512), (277, 23548), (284, 23581),

Gene: Morpher26_31 Start: 22972, Stop: 24831, Start Num: 4

Candidate Starts for Morpher26_31:

(2, 22912), (Start: 4 @22972 has 142 MA's), (15, 23038), (16, 23083), (18, 23089), (24, 23122), (28, 23140), (34, 23185), (35, 23191), (36, 23197), (49, 23290), (51, 23305), (67, 23377), (77, 23437), (85, 23488), (87, 23500), (99, 23578), (107, 23647), (119, 23770), (123, 23794), (131, 23875), (136, 23920), (138, 23929), (139, 23932), (154, 24061), (156, 24070), (162, 24112), (165, 24139), (168, 24175), (174, 24202), (175, 24214), (195, 24370), (226, 24544), (228, 24550), (237, 24595), (250, 24646), (252, 24649), (259, 24685), (270, 24721),

Gene: Morrow_31 Start: 22963, Stop: 24819, Start Num: 4

Candidate Starts for Morrow_31:

(Start: 4 @22963 has 142 MA's), (19, 23089), (24, 23113), (41, 23218), (42, 23224), (46, 23272), (49, 23281), (55, 23323), (67, 23368), (68, 23374), (87, 23491), (99, 23569), (107, 23638), (131, 23866), (134, 23890), (135, 23893), (139, 23923), (153, 24028), (156, 24058), (158, 24073), (168, 24163), (175, 24202), (180, 24229), (182, 24247), (194, 24346), (226, 24532), (237, 24583), (252, 24637), (267, 24700), (270, 24709), (289, 24796),

Gene: Mundrea_31 Start: 22930, Stop: 24786, Start Num: 4

Candidate Starts for Mundrea_31:

(Start: 4 @22930 has 142 MA's), (24, 23080), (28, 23098), (30, 23110), (34, 23143), (36, 23155), (49, 23248), (51, 23263), (77, 23395), (85, 23446), (87, 23458), (99, 23536), (107, 23605), (131, 23833), (138, 23887), (139, 23890), (153, 23995), (154, 24016), (156, 24025), (168, 24130), (195, 24325), (204, 24382), (226, 24499), (228, 24505), (270, 24676),

Gene: MyraDee_29 Start: 20768, Stop: 22630, Start Num: 4

Candidate Starts for MyraDee_29:

(Start: 4 @20768 has 142 MA's), (10, 20789), (13, 20810), (20, 20894), (26, 20924), (43, 21038), (52, 21101), (53, 21107), (63, 21152), (99, 21344), (104, 21392), (107, 21413), (119, 21536), (122, 21557), (125, 21581), (138, 21695), (139, 21698), (153, 21806), (154, 21827), (156, 21836), (165, 21905), (168, 21941), (179, 21998), (189, 22085), (191, 22091), (215, 22250), (220, 22289), (222, 22304), (226, 22313), (228, 22319), (240, 22382), (258, 22457), (262, 22472), (265, 22487), (292, 22607),

Gene: Naji_34 Start: 22559, Stop: 24412, Start Num: 8

Candidate Starts for Naji_34:

(Start: 5 @22553 has 3 MA's), (Start: 8 @22559 has 25 MA's), (21, 22679), (36, 22769), (45, 22829), (52, 22880), (69, 22973), (72, 22997), (73, 23003), (142, 23510), (154, 23579), (167, 23666), (178, 23747), (261, 24191), (264, 24206), (277, 24260), (281, 24284), (284, 24293), (293, 24329),

Gene: Nebs_31 Start: 22957, Stop: 24813, Start Num: 4

Candidate Starts for Nebs_31:

(Start: 4 @22957 has 142 MA's), (19, 23083), (24, 23107), (41, 23212), (42, 23218), (46, 23266), (49, 23275), (55, 23317), (67, 23362), (68, 23368), (87, 23485), (99, 23563), (107, 23632), (131, 23860), (134, 23884), (135, 23887), (138, 23914), (139, 23917), (153, 24022), (156, 24052), (158, 24067), (168, 24157), (175, 24196), (180, 24223), (182, 24241), (194, 24340), (226, 24526), (237, 24577), (252, 24631), (267, 24694), (270, 24703), (289, 24790),

Gene: Nemo27_31 Start: 22959, Stop: 24815, Start Num: 4

Candidate Starts for Nemo27_31:

(Start: 4 @22959 has 142 MA's), (19, 23085), (24, 23109), (41, 23214), (42, 23220), (46, 23268), (49, 23277), (55, 23319), (67, 23364), (68, 23370), (85, 23475), (87, 23487), (99, 23565), (107, 23634), (131, 23862), (134, 23886), (135, 23889), (138, 23916), (139, 23919), (153, 24024), (154, 24045), (156, 24054), (168, 24159), (175, 24198), (182, 24243), (201, 24405), (204, 24411), (226, 24528), (228, 24534), (237, 24579), (250, 24630), (252, 24633), (267, 24696), (270, 24705), (289, 24792),

Gene: Noelle_31 Start: 23041, Stop: 24900, Start Num: 4

Candidate Starts for Noelle_31:

(Start: 4 @23041 has 142 MA's), (25, 23194), (31, 23227), (32, 23233), (34, 23254), (36, 23266), (47, 23353), (51, 23374), (70, 23473), (85, 23557), (87, 23569), (96, 23635), (99, 23647), (107, 23716), (131, 23944), (136, 23989), (138, 23998), (139, 24001), (154, 24130), (156, 24139), (162, 24181), (165, 24208), (168, 24244), (174, 24271), (175, 24283), (180, 24310), (195, 24439), (204, 24496), (205, 24499), (226, 24613), (228, 24619), (241, 24685), (250, 24715), (268, 24784), (270, 24790),

Gene: NorthStar_31 Start: 22960, Stop: 24816, Start Num: 4

Candidate Starts for NorthStar_31:

(Start: 4 @22960 has 142 MA's), (19, 23086), (24, 23110), (41, 23215), (42, 23221), (46, 23269), (49, 23278), (55, 23320), (67, 23365), (68, 23371), (85, 23476), (87, 23488), (94, 23542), (99, 23566), (107, 23635), (131, 23863), (134, 23887), (135, 23890), (138, 23917), (139, 23920), (153, 24025), (156, 24055), (158, 24070), (168, 24160), (175, 24199), (182, 24244), (204, 24412), (226, 24529), (228, 24535), (237, 24580), (250, 24631), (252, 24634), (267, 24697), (270, 24706), (289, 24793),

Gene: NotAPhaseMom_31 Start: 22964, Stop: 24820, Start Num: 4

Candidate Starts for NotAPhaseMom_31:

(Start: 4 @22964 has 142 MA's), (19, 23090), (24, 23114), (41, 23219), (42, 23225), (46, 23273), (49, 23282), (55, 23324), (67, 23369), (68, 23375), (85, 23480), (87, 23492), (99, 23570), (107, 23639), (131, 23867), (134, 23891), (135, 23894), (138, 23921), (139, 23924), (153, 24029), (154, 24050), (156, 24059), (168, 24164), (175, 24203), (182, 24248), (201, 24410), (204, 24416), (226, 24533), (228, 24539), (237, 24584), (250, 24635), (267, 24701), (270, 24710), (289, 24797),

Gene: Nyxis_31 Start: 22903, Stop: 24762, Start Num: 4

Candidate Starts for Nyxis_31:

(Start: 4 @22903 has 142 MA's), (19, 23029), (24, 23053), (41, 23158), (42, 23164), (46, 23212), (49, 23221), (55, 23263), (67, 23308), (68, 23314), (87, 23431), (99, 23509), (107, 23578), (138, 23860), (139, 23863), (153, 23968), (156, 23998), (168, 24103), (175, 24142), (180, 24169), (182, 24187), (228, 24478), (243, 24556), (249, 24568), (250, 24574), (259, 24613), (267, 24640), (269, 24646), (270, 24649), (289, 24739),

Gene: OKaNui_32 Start: 23013, Stop: 24869, Start Num: 4

Candidate Starts for OKaNui_32:

(Start: 4 @23013 has 142 MA's), (19, 23139), (24, 23163), (41, 23268), (42, 23274), (46, 23322), (49, 23331), (55, 23373), (67, 23418), (68, 23424), (85, 23529), (87, 23541), (94, 23595), (99, 23619), (107, 23688), (125, 23856), (131, 23916), (134, 23940), (135, 23943), (136, 23961), (138, 23970), (139, 23973), (153, 24078), (156, 24108), (158, 24123), (168, 24213), (175, 24252), (182, 24297), (204, 24465), (226, 24582), (228, 24588), (237, 24633), (250, 24684), (252, 24687), (267, 24750), (270, 24759), (289, 24846),

Gene: Obama12_32 Start: 23276, Stop: 25132, Start Num: 4

Candidate Starts for Obama12_32:

(Start: 4 @23276 has 142 MA's), (19, 23402), (24, 23426), (41, 23531), (42, 23537), (46, 23585), (55, 23636), (68, 23687), (85, 23792), (87, 23804), (99, 23882), (107, 23951), (125, 24119), (128, 24149), (131, 24179), (134, 24203), (135, 24206), (138, 24233), (139, 24236), (153, 24341), (154, 24362), (156, 24371), (175, 24515), (182, 24560), (201, 24722), (226, 24845), (237, 24896), (267, 25013), (270, 25022), (289, 25109),

Gene: Odin_30 Start: 21523, Stop: 23199, Start Num: 8

Candidate Starts for Odin_30:

(Start: 5 @21517 has 3 MA's), (Start: 8 @21523 has 25 MA's), (21, 21643), (28, 21676), (29, 21679), (33, 21706), (45, 21793), (69, 21880), (90, 21982), (120, 22204), (142, 22390), (162, 22510), (199, 22810), (214, 22885), (218, 22906), (223, 22945), (253, 23035), (278, 23140), (283, 23167), (284, 23170), (286, 23182),

Gene: Ohfah_31 Start: 22957, Stop: 24813, Start Num: 4

Candidate Starts for Ohfah_31:

(Start: 4 @22957 has 142 MA's), (19, 23083), (24, 23107), (41, 23212), (42, 23218), (46, 23266), (49, 23275), (55, 23317), (67, 23362), (68, 23368), (87, 23485), (99, 23563), (107, 23632), (131, 23860), (134, 23884), (135, 23887), (138, 23914), (139, 23917), (153, 24022), (156, 24052), (158, 24067), (168, 24157), (175, 24196), (180, 24223), (182, 24241), (194, 24340), (226, 24526), (237, 24577), (252, 24631), (267, 24694), (270, 24703), (289, 24790),

Gene: Palestino_30 Start: 22960, Stop: 24816, Start Num: 4

Candidate Starts for Palestino_30:

(Start: 4 @22960 has 142 MA's), (19, 23086), (24, 23110), (41, 23215), (42, 23221), (46, 23269), (49, 23278), (55, 23320), (59, 23335), (67, 23365), (68, 23371), (85, 23476), (87, 23488), (99, 23566), (107, 23635), (131, 23863), (134, 23887), (135, 23890), (138, 23917), (139, 23920), (153, 24025), (154, 24046), (156, 24055), (168, 24160), (175, 24199), (182, 24244), (204, 24412), (226, 24529), (228, 24535), (237, 24580), (250, 24631), (252, 24634), (267, 24697), (270, 24706), (289, 24793),

Gene: Peaches_31 Start: 22959, Stop: 24815, Start Num: 4

Candidate Starts for Peaches_31:

(Start: 4 @22959 has 142 MA's), (19, 23085), (24, 23109), (41, 23214), (42, 23220), (46, 23268), (49, 23277), (55, 23319), (67, 23364), (68, 23370), (85, 23475), (87, 23487), (99, 23565), (107, 23634), (131, 23862), (134, 23886), (135, 23889), (138, 23916), (139, 23919), (153, 24024), (156, 24054), (158, 24069), (168, 24159), (175, 24198), (182, 24243), (204, 24411), (226, 24528), (228, 24534), (237, 24579), (250, 24630), (252, 24633), (267, 24696), (270, 24705), (289, 24792),

Gene: Perplexer_31 Start: 22969, Stop: 24828, Start Num: 4

Candidate Starts for Perplexer_31:

(2, 22909), (Start: 4 @22969 has 142 MA's), (15, 23035), (16, 23080), (18, 23086), (24, 23119), (28, 23137), (34, 23182), (35, 23188), (36, 23194), (49, 23287), (51, 23302), (67, 23374), (77, 23434), (85, 23485), (87, 23497), (99, 23575), (107, 23644), (119, 23767), (123, 23791), (131, 23872), (136, 23917), (138, 23926), (139, 23929), (154, 24058), (156, 24067), (162, 24109), (165, 24136), (168, 24172), (174, 24199), (175, 24211), (195, 24367), (226, 24541), (228, 24547), (237, 24592), (250, 24643), (252, 24646), (259, 24682), (270, 24718),

Gene: PeterPeter_31 Start: 22960, Stop: 24816, Start Num: 4

Candidate Starts for PeterPeter_31:

(Start: 4 @22960 has 142 MA's), (19, 23086), (24, 23110), (41, 23215), (42, 23221), (46, 23269), (55, 23320), (67, 23365), (68, 23371), (85, 23476), (87, 23488), (99, 23566), (107, 23635), (131, 23863), (134, 23887), (135, 23890), (138, 23917), (139, 23920), (153, 24025), (154, 24046), (156, 24055), (168, 24160), (175, 24199), (182, 24244), (201, 24406), (204, 24412), (226, 24529), (228, 24535), (237, 24580), (250, 24631), (252, 24634), (267, 24697), (270, 24706), (289, 24793),

Gene: PetiteSangsue_31 Start: 22972, Stop: 24831, Start Num: 4

Candidate Starts for PetiteSangsue_31:

(2, 22912), (Start: 4 @22972 has 142 MA's), (15, 23038), (16, 23083), (18, 23089), (24, 23122), (28, 23140), (34, 23185), (35, 23191), (36, 23197), (49, 23290), (51, 23305), (67, 23377), (77, 23437), (85, 23488), (87, 23500), (99, 23578), (107, 23647), (119, 23770), (123, 23794), (131, 23875), (136, 23920), (138, 23929), (139, 23932), (154, 24061), (156, 24070), (162, 24112), (165, 24139), (168, 24175), (174, 24202), (175, 24214), (195, 24370), (226, 24544), (228, 24550), (237, 24595), (250, 24646), (252, 24649), (259, 24685), (270, 24721),

Gene: Ph8s_32 Start: 21442, Stop: 23091, Start Num: 8

Candidate Starts for Ph8s_32:

(Start: 8 @21442 has 25 MA's), (19, 21553), (27, 21589), (42, 21688), (45, 21712), (72, 21880), (73, 21886), (162, 22504), (165, 22531), (171, 22585), (186, 22678), (189, 22708), (199, 22804), (214, 22876), (231, 22963), (234, 22972), (253, 23020),

Gene: Phacado_31 Start: 22959, Stop: 24815, Start Num: 4

Candidate Starts for Phacado_31:

(Start: 4 @22959 has 142 MA's), (19, 23085), (24, 23109), (41, 23214), (42, 23220), (46, 23268), (49, 23277), (55, 23319), (67, 23364), (68, 23370), (85, 23475), (87, 23487), (99, 23565), (107, 23634), (131, 23862), (134, 23886), (135, 23889), (138, 23916), (139, 23919), (153, 24024), (154, 24045), (156, 24054), (168, 24159), (175, 24198), (182, 24243), (201, 24405), (204, 24411), (226, 24528), (228, 24534), (237, 24579), (250, 24630), (252, 24633), (267, 24696), (270, 24705), (289, 24792),

Gene: Phelipe_31 Start: 22960, Stop: 24816, Start Num: 4

Candidate Starts for Phelipe_31:

(Start: 4 @22960 has 142 MA's), (19, 23086), (24, 23110), (41, 23215), (42, 23221), (46, 23269), (49, 23278), (55, 23320), (67, 23365), (68, 23371), (85, 23476), (87, 23488), (99, 23566), (107, 23635), (131, 23863), (134, 23887), (135, 23890), (138, 23917), (139, 23920), (153, 24025), (156, 24055), (158, 24070), (168, 24160), (175, 24199), (182, 24244), (204, 24412), (226, 24529), (228, 24535), (237, 24580), (250, 24631), (252, 24634), (267, 24697), (270, 24706), (289, 24793),

Gene: Phighter1804_31 Start: 22935, Stop: 24791, Start Num: 4

Candidate Starts for Phighter1804_31:

(Start: 4 @22935 has 142 MA's), (19, 23061), (24, 23085), (41, 23190), (42, 23196), (46, 23244), (49, 23253), (55, 23295), (67, 23340), (68, 23346), (85, 23451), (87, 23463), (95, 23526), (99, 23541), (107, 23610), (125, 23778), (131, 23838), (135, 23865), (138, 23892), (139, 23895), (153, 24000), (154, 24021), (156, 24030), (168, 24135), (182, 24219), (194, 24318), (226, 24504), (228, 24510), (237, 24555), (250, 24606), (252, 24609), (267, 24672), (270, 24681), (289, 24768),

Gene: Phontbonne_31 Start: 22904, Stop: 24763, Start Num: 4

Candidate Starts for Phontbonne_31:

(Start: 4 @22904 has 142 MA's), (19, 23030), (24, 23054), (41, 23159), (42, 23165), (46, 23213), (49, 23222), (55, 23264), (67, 23309), (68, 23315), (87, 23432), (99, 23510), (107, 23579), (138, 23861), (139, 23864), (153, 23969), (156, 23999), (168, 24104), (175, 24143), (180, 24170), (182, 24188), (228, 24479), (243, 24557), (249, 24569), (250, 24575), (259, 24614), (267, 24641), (269, 24647), (289, 24740),

Gene: Pipcraft_31 Start: 22960, Stop: 24816, Start Num: 4

Candidate Starts for Pipcraft_31:

(Start: 4 @22960 has 142 MA's), (19, 23086), (24, 23110), (41, 23215), (42, 23221), (46, 23269), (55, 23320), (67, 23365), (68, 23371), (85, 23476), (87, 23488), (99, 23566), (107, 23635), (131, 23863), (134, 23887), (135, 23890), (138, 23917), (139, 23920), (153, 24025), (156, 24055), (158, 24070),

(168, 24160), (175, 24199), (182, 24244), (204, 24412), (226, 24529), (228, 24535), (237, 24580), (250, 24631), (252, 24634), (267, 24697), (270, 24706), (289, 24793),

Gene: Polymorphads_31 Start: 22957, Stop: 24813, Start Num: 4

Candidate Starts for Polymorphads_31:

(Start: 4 @22957 has 142 MA's), (19, 23083), (24, 23107), (41, 23212), (42, 23218), (46, 23266), (49, 23275), (55, 23317), (67, 23362), (68, 23368), (87, 23485), (99, 23563), (107, 23632), (131, 23860), (134, 23884), (135, 23887), (138, 23914), (139, 23917), (153, 24022), (156, 24052), (158, 24067), (168, 24157), (175, 24196), (180, 24223), (182, 24241), (194, 24340), (226, 24526), (237, 24577), (252, 24631), (267, 24694), (270, 24703), (289, 24790),

Gene: Pomar16_34 Start: 22600, Stop: 24453, Start Num: 8

Candidate Starts for Pomar16_34:

(Start: 5 @22594 has 3 MA's), (Start: 8 @22600 has 25 MA's), (21, 22720), (36, 22810), (45, 22870), (46, 22894), (52, 22921), (69, 23014), (72, 23038), (73, 23044), (142, 23551), (154, 23620), (178, 23788), (199, 23971), (261, 24232), (264, 24247), (277, 24301), (279, 24310), (281, 24325), (284, 24334), (293, 24370),

Gene: Pukovnik_33 Start: 24251, Stop: 26089, Start Num: 8

Candidate Starts for Pukovnik_33:

(Start: 8 @24251 has 25 MA's), (12, 24272), (19, 24362), (21, 24371), (33, 24428), (36, 24455), (49, 24548), (56, 24593), (76, 24689), (107, 24905), (119, 25028), (121, 25037), (131, 25133), (138, 25187), (139, 25190), (153, 25298), (156, 25328), (165, 25397), (168, 25433), (170, 25445), (175, 25472), (226, 25802), (237, 25853), (243, 25886), (250, 25904), (252, 25907), (267, 25970),

Gene: Pumbaa_31 Start: 22935, Stop: 24791, Start Num: 4

Candidate Starts for Pumbaa_31:

(Start: 4 @22935 has 142 MA's), (19, 23061), (24, 23085), (42, 23196), (46, 23244), (48, 23250), (49, 23253), (55, 23295), (68, 23346), (85, 23451), (87, 23463), (99, 23541), (107, 23610), (125, 23778), (128, 23808), (131, 23838), (135, 23865), (138, 23892), (139, 23895), (153, 24000), (154, 24021), (156, 24030), (168, 24135), (175, 24174), (180, 24201), (182, 24219), (183, 24222), (195, 24330), (204, 24387), (226, 24504), (228, 24510), (267, 24672), (270, 24681),

Gene: Quokka_29 Start: 21646, Stop: 23397, Start Num: 8

Candidate Starts for Quokka_29:

(Start: 8 @21646 has 25 MA's), (12, 21667), (21, 21766), (24, 21781), (36, 21856), (45, 21916), (65, 22027), (69, 22060), (72, 22084), (73, 22090), (87, 22162), (97, 22237), (105, 22270), (108, 22300), (142, 22588), (162, 22708), (169, 22777), (199, 23008), (214, 23083), (217, 23095), (218, 23104), (223, 23143), (278, 23338), (283, 23365), (284, 23368), (286, 23380),

Gene: Rahalelujah_30 Start: 22236, Stop: 23978, Start Num: 7

Candidate Starts for Rahalelujah_30:

(Start: 7 @22236 has 8 MA's), (9, 22242), (21, 22359), (28, 22392), (45, 22509), (48, 22539), (57, 22587), (60, 22596), (61, 22599), (83, 22686), (93, 22731), (100, 22758), (115, 22833), (125, 22911), (132, 22977), (148, 23103), (202, 23535), (212, 23580), (238, 23712), (273, 23853), (274, 23865), (282, 23904), (294, 23967),

Gene: Relief_31 Start: 22958, Stop: 24814, Start Num: 4

Candidate Starts for Relief_31:

(Start: 4 @22958 has 142 MA's), (19, 23084), (24, 23108), (41, 23213), (42, 23219), (46, 23267), (55, 23318), (67, 23363), (68, 23369), (85, 23474), (87, 23486), (99, 23564), (107, 23633), (131, 23861), (134, 23885), (135, 23888), (138, 23915), (139, 23918), (153, 24023), (156, 24053), (158, 24068), (168, 24158), (175, 24197), (182, 24242), (204, 24410), (226, 24527), (228, 24533), (237, 24578),

(250, 24629), (252, 24632), (267, 24695), (270, 24704), (289, 24791),

Gene: RockieBear_30 Start: 22960, Stop: 24816, Start Num: 4

Candidate Starts for RockieBear_30:

(Start: 4 @22960 has 142 MA's), (19, 23086), (24, 23110), (41, 23215), (42, 23221), (46, 23269), (49, 23278), (55, 23320), (67, 23365), (68, 23371), (85, 23476), (87, 23488), (99, 23566), (107, 23635), (131, 23863), (134, 23887), (135, 23890), (138, 23917), (139, 23920), (153, 24025), (156, 24055), (158, 24070), (168, 24160), (175, 24199), (182, 24244), (204, 24412), (226, 24529), (228, 24535), (237, 24580), (250, 24631), (252, 24634), (267, 24697), (270, 24706), (289, 24793),

Gene: Romney_31 Start: 22960, Stop: 24816, Start Num: 4

Candidate Starts for Romney_31:

(Start: 4 @22960 has 142 MA's), (19, 23086), (24, 23110), (41, 23215), (42, 23221), (46, 23269), (49, 23278), (55, 23320), (67, 23365), (68, 23371), (85, 23476), (87, 23488), (99, 23566), (107, 23635), (131, 23863), (134, 23887), (135, 23890), (138, 23917), (139, 23920), (153, 24025), (156, 24055), (158, 24070), (168, 24160), (175, 24199), (182, 24244), (204, 24412), (226, 24529), (228, 24535), (237, 24580), (250, 24631), (252, 24634), (267, 24697), (270, 24706), (289, 24793),

Gene: Roosevelt_31 Start: 22960, Stop: 24816, Start Num: 4

Candidate Starts for Roosevelt_31:

(Start: 4 @22960 has 142 MA's), (19, 23086), (24, 23110), (41, 23215), (42, 23221), (46, 23269), (49, 23278), (55, 23320), (67, 23365), (68, 23371), (85, 23476), (87, 23488), (99, 23566), (107, 23635), (131, 23863), (134, 23887), (135, 23890), (138, 23917), (139, 23920), (153, 24025), (156, 24055), (158, 24070), (168, 24160), (175, 24199), (182, 24244), (204, 24412), (226, 24529), (228, 24535), (237, 24580), (250, 24631), (252, 24634), (267, 24697), (270, 24706), (289, 24793),

Gene: Rosa24_30 Start: 22935, Stop: 24791, Start Num: 4

Candidate Starts for Rosa24_30:

(Start: 4 @22935 has 142 MA's), (19, 23061), (24, 23085), (46, 23244), (49, 23253), (55, 23295), (67, 23340), (68, 23346), (85, 23451), (87, 23463), (99, 23541), (107, 23610), (125, 23778), (128, 23808), (131, 23838), (135, 23865), (138, 23892), (139, 23895), (153, 24000), (154, 24021), (156, 24030), (168, 24135), (175, 24174), (182, 24219), (201, 24381), (226, 24504), (228, 24510), (267, 24672), (270, 24681),

Gene: Ruin_31 Start: 22956, Stop: 24812, Start Num: 4

Candidate Starts for Ruin_31:

(Start: 4 @22956 has 142 MA's), (19, 23082), (24, 23106), (41, 23211), (42, 23217), (46, 23265), (49, 23274), (55, 23316), (67, 23361), (68, 23367), (85, 23472), (87, 23484), (99, 23562), (107, 23631), (131, 23859), (134, 23883), (135, 23886), (138, 23913), (139, 23916), (153, 24021), (156, 24051), (158, 24066), (168, 24156), (175, 24195), (182, 24240), (204, 24408), (226, 24525), (228, 24531), (237, 24576), (250, 24627), (252, 24630), (267, 24693), (270, 24702), (289, 24789),

Gene: Sabertooth_31 Start: 22957, Stop: 24813, Start Num: 4

Candidate Starts for Sabertooth_31:

(Start: 4 @22957 has 142 MA's), (19, 23083), (24, 23107), (41, 23212), (42, 23218), (46, 23266), (49, 23275), (55, 23317), (67, 23362), (68, 23368), (85, 23473), (87, 23485), (99, 23563), (107, 23632), (131, 23860), (134, 23884), (135, 23887), (138, 23914), (139, 23917), (153, 24022), (156, 24052), (158, 24067), (168, 24157), (175, 24196), (182, 24241), (204, 24409), (226, 24526), (228, 24532), (237, 24577), (250, 24628), (252, 24631), (267, 24694), (270, 24703), (289, 24790),

Gene: Scamp_31 Start: 22960, Stop: 24816, Start Num: 4

Candidate Starts for Scamp_31:

(Start: 4 @22960 has 142 MA's), (19, 23086), (24, 23110), (41, 23215), (42, 23221), (46, 23269), (55, 23320), (67, 23365), (68, 23371), (85, 23476), (87, 23488), (99, 23566), (107, 23635), (131, 23863), (134, 23887), (135, 23890), (138, 23917), (139, 23920), (153, 24025), (156, 24055), (168, 24160), (175, 24199), (182, 24244), (204, 24412), (226, 24529), (228, 24535), (237, 24580), (250, 24631), (252, 24634), (267, 24697), (270, 24706), (289, 24793),

Gene: SenorClean_31 Start: 22960, Stop: 24816, Start Num: 4

Candidate Starts for SenorClean_31:

(Start: 4 @22960 has 142 MA's), (19, 23086), (24, 23110), (41, 23215), (42, 23221), (46, 23269), (49, 23278), (55, 23320), (67, 23365), (68, 23371), (85, 23476), (87, 23488), (99, 23566), (107, 23635), (131, 23863), (134, 23887), (135, 23890), (138, 23917), (139, 23920), (153, 24025), (156, 24055), (158, 24070), (168, 24160), (175, 24199), (182, 24244), (204, 24412), (226, 24529), (228, 24535), (237, 24580), (250, 24631), (252, 24634), (267, 24697), (270, 24706), (289, 24793),

Gene: Serenity_30 Start: 21771, Stop: 23522, Start Num: 8

Candidate Starts for Serenity_30:

(Start: 8 @21771 has 25 MA's), (12, 21792), (21, 21891), (24, 21906), (36, 21981), (45, 22041), (65, 22152), (69, 22185), (72, 22209), (73, 22215), (87, 22287), (105, 22395), (118, 22512), (142, 22713), (162, 22833), (169, 22902), (199, 23133), (214, 23208), (217, 23220), (218, 23229), (223, 23268), (278, 23463), (283, 23490), (284, 23493), (286, 23505),

Gene: Shaka_31 Start: 22960, Stop: 24816, Start Num: 4

Candidate Starts for Shaka_31:

(Start: 4 @22960 has 142 MA's), (19, 23086), (24, 23110), (41, 23215), (42, 23221), (46, 23269), (55, 23320), (67, 23365), (68, 23371), (85, 23476), (87, 23488), (99, 23566), (107, 23635), (131, 23863), (134, 23887), (135, 23890), (138, 23917), (139, 23920), (153, 24025), (154, 24046), (156, 24055), (168, 24160), (175, 24199), (182, 24244), (201, 24406), (204, 24412), (226, 24529), (228, 24535), (237, 24580), (250, 24631), (252, 24634), (267, 24697), (270, 24706), (289, 24793),

Gene: SheaKeira_31 Start: 22351, Stop: 24009, Start Num: 7

Candidate Starts for SheaKeira_31:

(Start: 7 @22351 has 8 MA's), (17, 22453), (28, 22507), (32, 22531), (33, 22537), (44, 22618), (45, 22624), (48, 22654), (57, 22702), (66, 22726), (83, 22801), (132, 23092), (159, 23308), (166, 23362), (181, 23476), (184, 23488), (198, 23635), (202, 23650), (272, 23875), (284, 23938),

Gene: SheldonCooper_32 Start: 23275, Stop: 25131, Start Num: 4

Candidate Starts for SheldonCooper_32:

(Start: 4 @23275 has 142 MA's), (19, 23401), (24, 23425), (41, 23530), (42, 23536), (46, 23584), (55, 23635), (68, 23686), (85, 23791), (87, 23803), (99, 23881), (107, 23950), (125, 24118), (128, 24148), (131, 24178), (134, 24202), (135, 24205), (138, 24232), (139, 24235), (153, 24340), (154, 24361), (156, 24370), (175, 24514), (182, 24559), (201, 24721), (226, 24844), (237, 24895), (267, 25012), (270, 25021), (289, 25108),

Gene: Shygu2_31 Start: 22966, Stop: 24825, Start Num: 4

Candidate Starts for Shygu2_31:

(2, 22903), (Start: 4 @22966 has 142 MA's), (14, 23014), (15, 23032), (24, 23116), (28, 23134), (34, 23179), (36, 23191), (67, 23371), (77, 23431), (85, 23482), (87, 23494), (99, 23572), (107, 23641), (131, 23869), (135, 23896), (138, 23923), (139, 23926), (153, 24034), (154, 24055), (156, 24064), (165, 24133), (168, 24169), (175, 24208), (201, 24415), (226, 24538), (237, 24589), (267, 24706), (270, 24715),

Gene: Skipitt_31 Start: 22957, Stop: 24813, Start Num: 4

Candidate Starts for Skipitt_31:

(Start: 4 @22957 has 142 MA's), (19, 23083), (24, 23107), (41, 23212), (42, 23218), (46, 23266), (49, 23275), (55, 23317), (67, 23362), (68, 23368), (85, 23473), (87, 23485), (99, 23563), (107, 23632), (131, 23860), (134, 23884), (135, 23887), (138, 23914), (139, 23917), (153, 24022), (156, 24052), (158, 24067), (168, 24157), (175, 24196), (182, 24241), (204, 24409), (226, 24526), (228, 24532), (237, 24577), (250, 24628), (252, 24631), (267, 24694), (270, 24703), (289, 24790),

Gene: Sparxx_31 Start: 22958, Stop: 24814, Start Num: 4

Candidate Starts for Sparxx_31:

(Start: 4 @22958 has 142 MA's), (19, 23084), (24, 23108), (41, 23213), (42, 23219), (46, 23267), (49, 23276), (55, 23318), (67, 23363), (68, 23369), (85, 23474), (87, 23486), (99, 23564), (107, 23633), (131, 23861), (134, 23885), (135, 23888), (138, 23915), (139, 23918), (153, 24023), (156, 24053), (158, 24068), (168, 24158), (175, 24197), (180, 24224), (182, 24242), (194, 24341), (226, 24527), (237, 24578), (252, 24632), (267, 24695), (270, 24704), (289, 24791),

Gene: Spino_31 Start: 22960, Stop: 24816, Start Num: 4

Candidate Starts for Spino_31:

(Start: 4 @22960 has 142 MA's), (19, 23086), (24, 23110), (41, 23215), (42, 23221), (46, 23269), (49, 23278), (55, 23320), (67, 23365), (68, 23371), (85, 23476), (87, 23488), (99, 23566), (107, 23635), (131, 23863), (134, 23887), (135, 23890), (138, 23917), (139, 23920), (153, 24025), (154, 24046), (156, 24055), (168, 24160), (175, 24199), (182, 24244), (201, 24406), (204, 24412), (226, 24529), (228, 24535), (237, 24580), (250, 24631), (252, 24634), (267, 24697), (270, 24706), (289, 24793),

Gene: StarStuff_34 Start: 22559, Stop: 24412, Start Num: 8

Candidate Starts for StarStuff_34:

(Start: 5 @22553 has 3 MA's), (Start: 8 @22559 has 25 MA's), (21, 22679), (36, 22769), (45, 22829), (52, 22880), (69, 22973), (72, 22997), (73, 23003), (142, 23510), (154, 23579), (167, 23666), (178, 23747), (199, 23930), (251, 24149), (254, 24161), (261, 24191), (277, 24260), (281, 24284), (284, 24293), (293, 24329),

Gene: SteMason_30 Start: 22960, Stop: 24816, Start Num: 4

Candidate Starts for SteMason_30:

(Start: 4 @22960 has 142 MA's), (19, 23086), (24, 23110), (41, 23215), (42, 23221), (46, 23269), (49, 23278), (55, 23320), (67, 23365), (68, 23371), (85, 23476), (87, 23488), (99, 23566), (107, 23635), (131, 23863), (134, 23887), (135, 23890), (138, 23917), (139, 23920), (153, 24025), (156, 24055), (158, 24070), (168, 24160), (175, 24199), (182, 24244), (204, 24412), (226, 24529), (228, 24535), (237, 24580), (250, 24631), (252, 24634), (267, 24697), (270, 24706), (289, 24793),

Gene: Stink_32 Start: 23240, Stop: 25099, Start Num: 4

Candidate Starts for Stink_32:

(Start: 4 @23240 has 142 MA's), (15, 23306), (24, 23390), (28, 23408), (34, 23453), (42, 23501), (49, 23558), (55, 23600), (68, 23651), (70, 23672), (77, 23705), (85, 23756), (87, 23768), (94, 23822), (99, 23846), (107, 23915), (131, 24143), (135, 24170), (138, 24197), (139, 24200), (153, 24308), (154, 24329), (156, 24338), (165, 24407), (168, 24443), (175, 24482), (185, 24551), (201, 24689), (226, 24812), (228, 24818), (267, 24980), (270, 24989),

Gene: Sultana_31 Start: 22961, Stop: 24817, Start Num: 4

Candidate Starts for Sultana_31:

(Start: 4 @22961 has 142 MA's), (19, 23087), (24, 23111), (41, 23216), (42, 23222), (46, 23270), (55, 23321), (67, 23366), (68, 23372), (85, 23477), (87, 23489), (99, 23567), (107, 23636), (131, 23864), (134, 23888), (135, 23891), (138, 23918), (139, 23921), (153, 24026), (154, 24047), (156, 24056), (168, 24161), (175, 24200), (182, 24245), (201, 24407), (204, 24413), (226, 24530), (228, 24536), (237, 24581), (250, 24632), (252, 24635), (267, 24698), (270, 24707), (289, 24794),

Gene: Sunhee_30 Start: 22065, Stop: 23957, Start Num: 8

Candidate Starts for Sunhee_30:

(Start: 8 @22065 has 25 MA's), (12, 22086), (33, 22248), (37, 22278), (43, 22323), (45, 22335), (81, 22524), (82, 22536), (96, 22638), (126, 22980), (127, 22983), (137, 23064), (143, 23124), (148, 23148), (161, 23253), (166, 23292), (172, 23349), (173, 23352), (198, 23565), (202, 23580), (225, 23700), (294, 23946), (295, 23949),

Gene: Superchunk_30 Start: 21397, Stop: 22950, Start Num: 8

Candidate Starts for Superchunk_30:

(Start: 5 @21391 has 3 MA's), (Start: 8 @21397 has 25 MA's), (21, 21517), (28, 21550), (29, 21553), (33, 21580), (45, 21667), (69, 21754), (90, 21856), (162, 22384), (163, 22390), (167, 22420), (169, 22453), (171, 22465), (186, 22558), (189, 22588), (199, 22684), (214, 22756), (227, 22822), (230, 22834), (248, 22879),

Gene: SwirlSquare_33 Start: 21533, Stop: 23197, Start Num: 8

Candidate Starts for SwirlSquare_33:

(Start: 8 @21533 has 25 MA's), (19, 21644), (27, 21680), (42, 21779), (45, 21803), (72, 21971), (73, 21977), (162, 22598), (171, 22679), (186, 22772), (189, 22802), (199, 22898), (214, 22970), (231, 23057), (253, 23126),

Gene: Taquarus_31 Start: 22963, Stop: 24819, Start Num: 4

Candidate Starts for Taquarus_31:

(Start: 4 @22963 has 142 MA's), (19, 23089), (24, 23113), (41, 23218), (42, 23224), (46, 23272), (49, 23281), (55, 23323), (67, 23368), (68, 23374), (85, 23479), (87, 23491), (99, 23569), (107, 23638), (131, 23866), (134, 23890), (135, 23893), (138, 23920), (139, 23923), (153, 24028), (156, 24058), (158, 24073), (168, 24163), (175, 24202), (182, 24247), (204, 24415), (226, 24532), (228, 24538), (237, 24583), (250, 24634), (252, 24637), (267, 24700), (270, 24709), (289, 24796),

Gene: Thanksgivukkah_31 Start: 22961, Stop: 24817, Start Num: 4

Candidate Starts for Thanksgivukkah_31:

(Start: 4 @22961 has 142 MA's), (19, 23087), (24, 23111), (41, 23216), (42, 23222), (46, 23270), (49, 23279), (55, 23321), (67, 23366), (68, 23372), (85, 23477), (87, 23489), (99, 23567), (107, 23636), (131, 23864), (134, 23888), (135, 23891), (138, 23918), (139, 23921), (153, 24026), (156, 24056), (158, 24071), (168, 24161), (175, 24200), (182, 24245), (204, 24413), (226, 24530), (228, 24536), (237, 24581), (250, 24632), (252, 24635), (267, 24698), (270, 24707), (289, 24794),

Gene: TinaFeyge_31 Start: 22957, Stop: 24813, Start Num: 4

Candidate Starts for TinaFeyge_31:

(Start: 4 @22957 has 142 MA's), (19, 23083), (24, 23107), (41, 23212), (42, 23218), (46, 23266), (49, 23275), (55, 23317), (67, 23362), (68, 23368), (85, 23473), (87, 23485), (94, 23539), (99, 23563), (107, 23632), (131, 23860), (134, 23884), (135, 23887), (138, 23914), (139, 23917), (153, 24022), (156, 24052), (158, 24067), (168, 24157), (175, 24196), (182, 24241), (204, 24409), (226, 24526), (228, 24532), (237, 24577), (250, 24628), (252, 24631), (267, 24694), (270, 24703), (289, 24790),

Gene: Tinybot_30 Start: 22937, Stop: 24793, Start Num: 4

Candidate Starts for Tinybot_30:

(Start: 4 @22937 has 142 MA's), (19, 23063), (24, 23087), (46, 23246), (49, 23255), (55, 23297), (67, 23342), (68, 23348), (85, 23453), (87, 23465), (99, 23543), (107, 23612), (125, 23780), (128, 23810), (131, 23840), (135, 23867), (138, 23894), (139, 23897), (153, 24002), (154, 24023), (156, 24032), (168, 24137), (175, 24176), (182, 24221), (201, 24383), (226, 24506), (228, 24512), (267, 24674), (270, 24683),

Gene: TipsytheTRex_30 Start: 21878, Stop: 23713, Start Num: 7

Candidate Starts for TipsytheTRex_30:

(Start: 7 @21878 has 8 MA's), (21, 22001), (24, 22016), (28, 22034), (36, 22091), (43, 22139), (45, 22151), (65, 22262), (72, 22319), (73, 22325), (105, 22505), (114, 22589), (120, 22640), (124, 22661), (133, 22727), (142, 22811), (147, 22823), (162, 22931), (171, 23012), (187, 23111), (199, 23231), (244, 23435), (251, 23450), (277, 23561), (285, 23603),

Gene: TiroTheta9_31 Start: 22957, Stop: 24813, Start Num: 4

Candidate Starts for TiroTheta9_31:

(Start: 4 @22957 has 142 MA's), (19, 23083), (24, 23107), (41, 23212), (42, 23218), (46, 23266), (49, 23275), (55, 23317), (67, 23362), (68, 23368), (85, 23473), (87, 23485), (99, 23563), (107, 23632), (131, 23860), (134, 23884), (135, 23887), (138, 23914), (139, 23917), (153, 24022), (156, 24052), (158, 24067), (168, 24157), (175, 24196), (182, 24241), (204, 24409), (226, 24526), (228, 24532), (237, 24577), (250, 24628), (252, 24631), (267, 24694), (270, 24703), (289, 24790),

Gene: Toaka_30 Start: 22544, Stop: 24361, Start Num: 7

Candidate Starts for Toaka_30:

(Start: 7 @22544 has 8 MA's), (9, 22550), (18, 22649), (42, 22793), (45, 22817), (109, 23180), (111, 23183), (115, 23216), (125, 23294), (126, 23318), (129, 23336), (132, 23360), (148, 23486), (159, 23576), (177, 23714), (202, 23918), (212, 23963), (214, 23972), (228, 24047), (229, 24050), (294, 24350),

Gene: Tomathan_34 Start: 22559, Stop: 24412, Start Num: 8

Candidate Starts for Tomathan_34:

(Start: 5 @22553 has 3 MA's), (Start: 8 @22559 has 25 MA's), (21, 22679), (36, 22769), (45, 22829), (52, 22880), (69, 22973), (72, 22997), (73, 23003), (142, 23510), (154, 23579), (167, 23666), (178, 23747), (199, 23930), (251, 24149), (254, 24161), (261, 24191), (277, 24260), (281, 24284), (284, 24293), (293, 24329),

Gene: Travvers_34 Start: 22559, Stop: 24412, Start Num: 8

Candidate Starts for Travvers_34:

(Start: 5 @22553 has 3 MA's), (Start: 8 @22559 has 25 MA's), (21, 22679), (36, 22769), (45, 22829), (52, 22880), (69, 22973), (72, 22997), (73, 23003), (142, 23510), (154, 23579), (167, 23666), (178, 23747), (261, 24191), (264, 24206), (277, 24260), (281, 24284), (284, 24293), (293, 24329),

Gene: TroyPia_31 Start: 22960, Stop: 24816, Start Num: 4

Candidate Starts for TroyPia_31:

(Start: 4 @22960 has 142 MA's), (19, 23086), (24, 23110), (41, 23215), (42, 23221), (46, 23269), (55, 23320), (67, 23365), (68, 23371), (85, 23476), (87, 23488), (99, 23566), (107, 23635), (131, 23863), (134, 23887), (135, 23890), (138, 23917), (139, 23920), (153, 24025), (156, 24055), (158, 24070), (168, 24160), (175, 24199), (182, 24244), (204, 24412), (226, 24529), (228, 24535), (237, 24580), (250, 24631), (252, 24634), (267, 24697), (270, 24706), (289, 24793),

Gene: TygerBlood_31 Start: 22960, Stop: 24816, Start Num: 4

Candidate Starts for TygerBlood_31:

(Start: 4 @22960 has 142 MA's), (19, 23086), (24, 23110), (41, 23215), (42, 23221), (46, 23269), (49, 23278), (55, 23320), (67, 23365), (68, 23371), (85, 23476), (87, 23488), (99, 23566), (107, 23635), (131, 23863), (134, 23887), (135, 23890), (138, 23917), (139, 23920), (153, 24025), (156, 24055), (158, 24070), (168, 24160), (175, 24199), (182, 24244), (204, 24412), (226, 24529), (228, 24535), (237, 24580), (250, 24631), (252, 24634), (267, 24697), (270, 24706), (289, 24793),

Gene: Ulysses_30 Start: 22678, Stop: 24534, Start Num: 4

Candidate Starts for Ulysses_30:

(Start: 4 @22678 has 142 MA's), (19, 22804), (24, 22828), (41, 22933), (42, 22939), (46, 22987), (49, 22996), (55, 23038), (67, 23083), (68, 23089), (85, 23194), (87, 23206), (95, 23269), (99, 23284), (107, 23353), (125, 23521), (131, 23581), (135, 23608), (138, 23635), (139, 23638), (153, 23743), (154, 23764), (156, 23773), (168, 23878), (182, 23962), (194, 24061), (226, 24247), (228, 24253), (237, 24298), (250, 24349), (252, 24352), (267, 24415), (270, 24424), (289, 24511),

Gene: VA6_31 Start: 22715, Stop: 24568, Start Num: 8

Candidate Starts for VA6_31:

(Start: 5 @22709 has 3 MA's), (Start: 8 @22715 has 25 MA's), (21, 22835), (36, 22925), (45, 22985), (46, 23009), (52, 23036), (69, 23129), (72, 23153), (73, 23159), (91, 23261), (142, 23666), (154, 23735), (178, 23903), (189, 23990), (199, 24086), (228, 24233), (261, 24347), (277, 24416), (281, 24440), (290, 24470), (293, 24485),

Gene: VC3_34 Start: 22703, Stop: 24556, Start Num: 8

Candidate Starts for VC3_34:

(Start: 5 @22697 has 3 MA's), (Start: 8 @22703 has 25 MA's), (21, 22823), (36, 22913), (45, 22973), (46, 22997), (52, 23024), (69, 23117), (72, 23141), (73, 23147), (91, 23249), (142, 23654), (154, 23723), (178, 23891), (189, 23978), (199, 24074), (228, 24221), (261, 24335), (277, 24404), (281, 24428), (290, 24458), (293, 24473),

Gene: Wander_31 Start: 22960, Stop: 24816, Start Num: 4

Candidate Starts for Wander_31:

(Start: 4 @22960 has 142 MA's), (19, 23086), (24, 23110), (41, 23215), (42, 23221), (46, 23269), (49, 23278), (55, 23320), (67, 23365), (68, 23371), (85, 23476), (87, 23488), (99, 23566), (107, 23635), (131, 23863), (134, 23887), (135, 23890), (138, 23917), (139, 23920), (153, 24025), (154, 24046), (156, 24055), (168, 24160), (175, 24199), (182, 24244), (201, 24406), (204, 24412), (226, 24529), (228, 24535), (237, 24580), (250, 24631), (252, 24634), (267, 24697), (270, 24706), (289, 24793),

Gene: Wilbur_31 Start: 22960, Stop: 24816, Start Num: 4

Candidate Starts for Wilbur_31:

(Start: 4 @22960 has 142 MA's), (19, 23086), (24, 23110), (41, 23215), (42, 23221), (46, 23269), (49, 23278), (55, 23320), (67, 23365), (68, 23371), (85, 23476), (87, 23488), (99, 23566), (107, 23635), (131, 23863), (134, 23887), (135, 23890), (138, 23917), (139, 23920), (153, 24025), (156, 24055), (158, 24070), (168, 24160), (175, 24199), (182, 24244), (204, 24412), (226, 24529), (228, 24535), (237, 24580), (250, 24631), (252, 24634), (267, 24697), (270, 24706), (289, 24793),

Gene: Wile_31 Start: 22982, Stop: 24841, Start Num: 4

Candidate Starts for Wile_31:

(2, 22922), (3, 22937), (Start: 4 @22982 has 142 MA's), (15, 23048), (16, 23093), (18, 23099), (24, 23132), (28, 23150), (34, 23195), (35, 23201), (36, 23207), (49, 23300), (51, 23315), (67, 23387), (77, 23447), (85, 23498), (87, 23510), (99, 23588), (107, 23657), (119, 23780), (123, 23804), (131, 23885), (136, 23930), (138, 23939), (139, 23942), (154, 24071), (156, 24080), (162, 24122), (165, 24149), (168, 24185), (174, 24212), (175, 24224), (195, 24380), (226, 24554), (228, 24560), (237, 24605), (250, 24656), (252, 24659), (259, 24695), (270, 24731),

Gene: Wizard007_31 Start: 22962, Stop: 24818, Start Num: 4

Candidate Starts for Wizard007_31:

(Start: 4 @22962 has 142 MA's), (19, 23088), (24, 23112), (41, 23217), (42, 23223), (46, 23271), (49, 23280), (55, 23322), (67, 23367), (68, 23373), (85, 23478), (87, 23490), (99, 23568), (107, 23637), (131, 23865), (134, 23889), (135, 23892), (138, 23919), (139, 23922), (153, 24027), (156, 24057), (158, 24072), (168, 24162), (175, 24201), (182, 24246), (204, 24414), (226, 24531), (228, 24537), (237, 24582), (250, 24633), (252, 24636), (267, 24699), (270, 24708), (289, 24795),

Gene: WorldCup_29 Start: 22236, Stop: 23978, Start Num: 7

Candidate Starts for WorldCup_29:

(Start: 7 @22236 has 8 MA's), (9, 22242), (21, 22359), (28, 22392), (45, 22509), (48, 22539), (57, 22587), (60, 22596), (61, 22599), (83, 22686), (93, 22731), (100, 22758), (115, 22833), (125, 22911), (132, 22977), (148, 23103), (202, 23535), (212, 23580), (238, 23712), (273, 23853), (274, 23865), (282, 23904), (294, 23967),

Gene: Xena_31 Start: 22969, Stop: 24828, Start Num: 4

Candidate Starts for Xena_31:

(2, 22909), (Start: 4 @22969 has 142 MA's), (15, 23035), (16, 23080), (18, 23086), (24, 23119), (28, 23137), (34, 23182), (35, 23188), (36, 23194), (49, 23287), (51, 23302), (67, 23374), (77, 23434), (85, 23485), (87, 23497), (99, 23575), (107, 23644), (119, 23767), (123, 23791), (131, 23872), (136, 23917), (138, 23926), (139, 23929), (154, 24058), (156, 24067), (162, 24109), (165, 24136), (168, 24172), (174, 24199), (175, 24211), (195, 24367), (226, 24541), (228, 24547), (237, 24592), (250, 24643), (252, 24646), (259, 24682), (270, 24718),

Gene: XianYue_31 Start: 22723, Stop: 24396, Start Num: 5

Candidate Starts for XianYue_31:

(Start: 5 @22723 has 3 MA's), (19, 22840), (21, 22849), (22, 22855), (27, 22876), (32, 22906), (43, 22987), (71, 23155), (79, 23179), (98, 23287), (110, 23353), (145, 23620), (177, 23833), (200, 24019), (209, 24064), (211, 24073), (221, 24124), (223, 24142), (281, 24361), (288, 24388),

Gene: Yecey3_32 Start: 22435, Stop: 24132, Start Num: 5

Candidate Starts for Yecey3_32:

(Start: 5 @22435 has 3 MA's), (17, 22540), (28, 22594), (33, 22624), (42, 22687), (45, 22711), (72, 22789), (78, 22810), (80, 22813), (88, 22864), (91, 22885), (105, 22963), (106, 22966), (142, 23278), (144, 23281), (150, 23314), (151, 23320), (162, 23404), (163, 23410), (164, 23425), (171, 23485), (192, 23617), (199, 23704), (225, 23839), (232, 23866), (257, 23941), (259, 23956), (271, 23992), (274, 24016), (280, 24049), (284, 24061),

Gene: YoSam321_31 Start: 22957, Stop: 24813, Start Num: 4

Candidate Starts for YoSam321_31:

(Start: 4 @22957 has 142 MA's), (19, 23083), (24, 23107), (41, 23212), (42, 23218), (46, 23266), (49, 23275), (55, 23317), (67, 23362), (68, 23368), (85, 23473), (87, 23485), (99, 23563), (107, 23632), (131, 23860), (134, 23884), (135, 23887), (138, 23914), (139, 23917), (153, 24022), (156, 24052), (158, 24067), (168, 24157), (175, 24196), (182, 24241), (204, 24409), (226, 24526), (228, 24532), (237, 24577), (250, 24628), (252, 24631), (267, 24694), (270, 24703), (289, 24790),