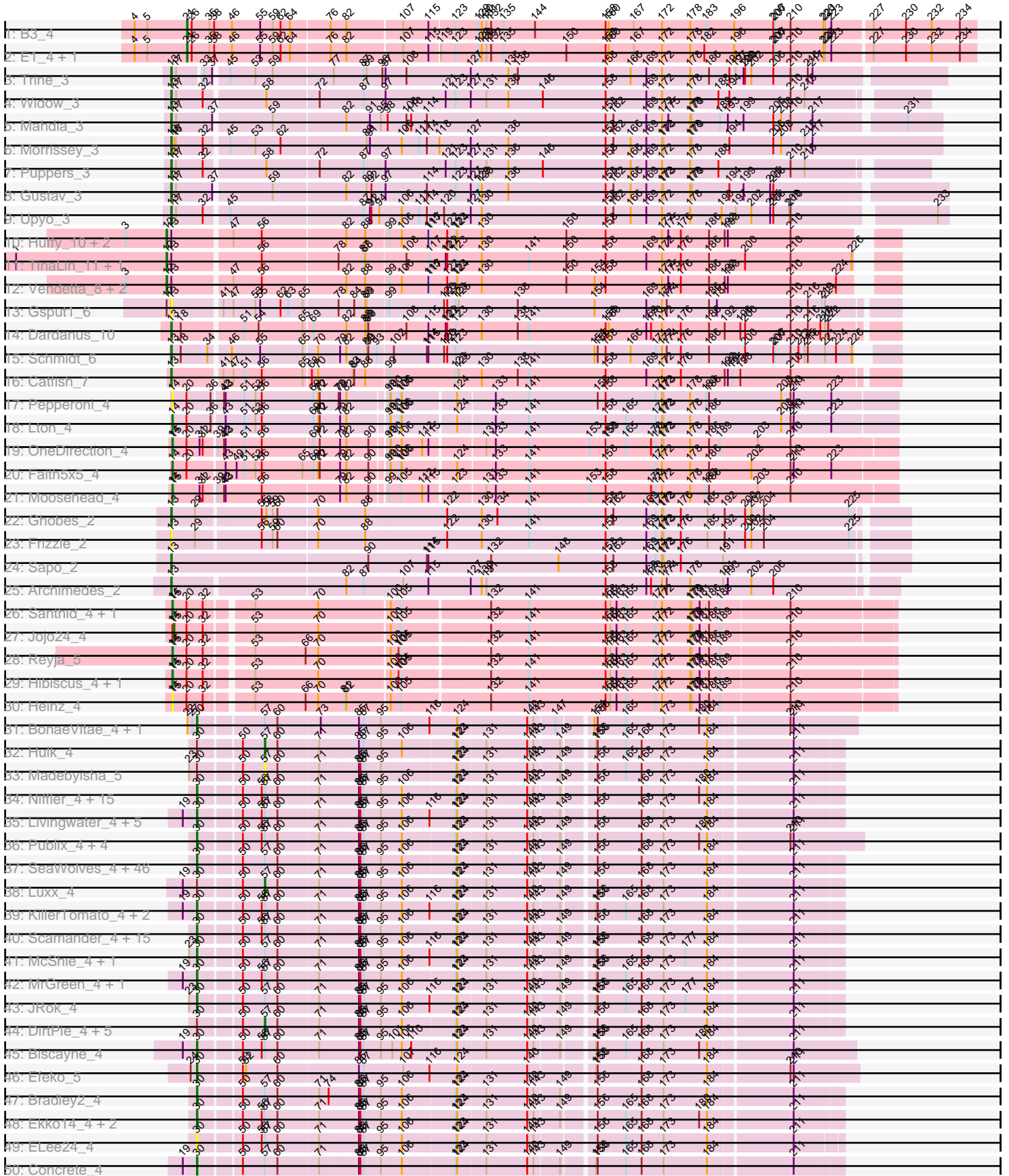
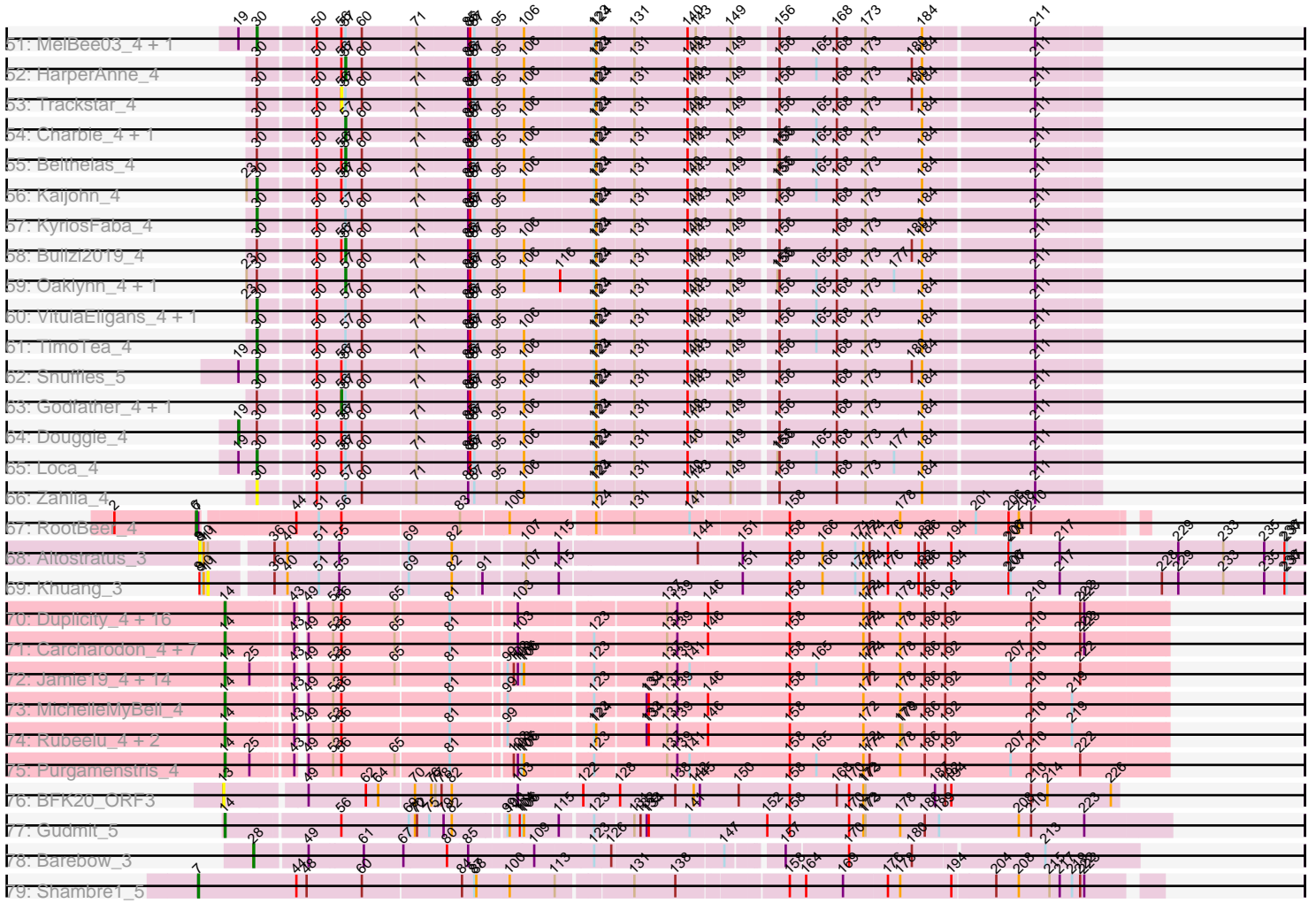


Pham 202659



Pham 202659



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 202659 Report

This analysis was run 01/18/25 on database version 583.

Pham number 202659 has 228 members, 23 are drafts.

Phages represented in each track:

- Track 1 : B3_4
- Track 2 : E1_4, Anatole_4
- Track 3 : Trine_3
- Track 4 : Widow_3
- Track 5 : Mahdia_3
- Track 6 : Morrissey_3
- Track 7 : Puppies_3
- Track 8 : Gustav_3
- Track 9 : Upyo_3
- Track 10 : Huffy_10, TZGordon_10, DinoDaryn_10
- Track 11 : TinaLin_11, Banquo_12
- Track 12 : Vendetta_8, Goib_9, Splinter_8
- Track 13 : Gspu1_6
- Track 14 : Dardanus_10
- Track 15 : Schmidt_6
- Track 16 : Catfish_7
- Track 17 : Pepperoni_4
- Track 18 : Lton_4
- Track 19 : OneDirection_4
- Track 20 : Faith5x5_4
- Track 21 : Moosehead_4
- Track 22 : Ghobes_2
- Track 23 : Frizzle_2
- Track 24 : Sapo_2
- Track 25 : Archimedes_2
- Track 26 : Santhid_4, Tarzan_4
- Track 27 : Jojo24_4
- Track 28 : Reyja_5
- Track 29 : Hibiscus_4, DonkeyMan_4
- Track 30 : Heinz_4
- Track 31 : BonaeVitae_4, Naby_4
- Track 32 : Hulk_4
- Track 33 : Madebyisha_5
- Track 34 : Niffler_4, Nobel_4, Slizam_4, Miaurora_4, JooneeDee_4, IzzyPants24_4, Lunatic_4, Trireme_4, TinyTruffula_4, TomBrady12_4, Cazares_4, PuffyCat_4, Stem_4, Bintii_4, Clownery_4, Yami_4

- Track 35 : Livingwater_4, Quaker_4, Sippinontea_4, Bodhi17_4, Wolfpack_4, KayPaulus_4
- Track 36 : Publix_4, Namsahir_4, PoRanda_4, MirimarMandM_4, Upsilon_4
- Track 37 : SeaWolves_4, Majesty_4, Alucard_4, Goobery_4, Picnic_4, Erin_4, Baine_4, Minima_4, BurtonThePup_4, Lola20_4, EdElric_4, ManAs_4, Jahseh_4, Eightball_4, Horacetta_4, Gabbspett_4, Gillker_4, Owens_4, Gardevoir_4, Dooby_4, Aztec_4, Cayde6_4, TeddyBoy_4, Jannah_4, Dongwon_4, JoBros_4, LionelHutz_4, Witch_4, Sara_4, NeumannU_4, Slentz_4, Yasuo_4, GoldenBlanche_4, Puddles3_4, PaoPu_4, BinkBonk_4, Anseraureola_4, Yubaba_4, BarBear_4, Pondwater_4, YertPhresh_4, Octopus_4, Chatham_4, Danimal_4, LemonPepper_4, Scrunchy_4, Ciel_4
- Track 38 : Luxx_4
- Track 39 : KillerTomato_4, Bri160_4, BoomRoasted_4
- Track 40 : Scamander_4, DaftyDuck_4, Avvas_4, SantasSleigh_4, Otwor_4, LaviMo_4, Burgy_4, MasterPitts_4, Danno_4, Cheesecake_4, Josuke_4, Sage7_4, Rhysand_4, RoscoWindex_4, Aries55_4, Vanisius_4
- Track 41 : McShie_4, BrokMonster_4
- Track 42 : MrGreen_4, Leafy_4
- Track 43 : JRok_4
- Track 44 : DirtPie_4, JaimeB_4, Myram_4, Rhogar_4, Hernandez44_4, Astro16_4
- Track 45 : Biscayne_4
- Track 46 : Efeko_5
- Track 47 : Bradley2_4
- Track 48 : Ekko14_4, Elspeth_4, Noelani_4
- Track 49 : ELee24_4
- Track 50 : Concrete_4
- Track 51 : MelBee03_4, Kevanna_4
- Track 52 : HarperAnne_4
- Track 53 : Trackstar_4
- Track 54 : Charbie_4, Maneater_4
- Track 55 : Belthelas_4
- Track 56 : Kaijohn_4
- Track 57 : KyriosFaba_4
- Track 58 : Bullzi2019_4
- Track 59 : Oaklynn_4, Azizam_4
- Track 60 : VitulaEligans_4, Jerky_4
- Track 61 : TimoTea_4
- Track 62 : Snuffles_5
- Track 63 : Godfather_4, Kojax4_4
- Track 64 : Duggie_4
- Track 65 : Loca_4
- Track 66 : Zahlia_4
- Track 67 : RootBeer_4
- Track 68 : Altostratus_3
- Track 69 : Khuang_3
- Track 70 : Duplicity_4, Bosection6_4, Parmesanjohn_4, Gex_4, Schnauzer_4, Journey_4, Tapioca_4, Magsby_4, Aggie_4, Philonius_4, Xerxes_4, Charlie_4, Silvy_4, Pipsqueaks_4, Smurph_4, Chewbacca_4, Melville_4
- Track 71 : Carcharodon_4, Phloss_4, Andies_4, Scitech_4, Fulbright_4, Xeno_4, Silvafighter_4, EGUnicorn_4
- Track 72 : Jamie19_4, PhancyPhin_4, Hanako_4, Phrann_4, Raymond7_4, Shweta_4, Redi_4, SpongeBob_4, SkinnyPete_4, Nenae_4, ShrimpFriedEgg_4, Snekmaggon_4, Panchino_4, Rebel_4, BabeRuth_4

- Track 73 : MichelleMyBell_4
- Track 74 : Rubeelu_4, Kevin1_4, Butters_4
- Track 75 : Purgamenstris_4
- Track 76 : BFK20_ORF3
- Track 77 : Gudmit_5
- Track 78 : Barebow_3
- Track 79 : Shambre1_5

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

The start number called the most often in the published annotations is 30, it was called in 110 of the 205 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Alucard_4, Anseraureola_4, Aries55_4, Avvas_4, Aztec_4, Baine_4, BarBear_4, BinkBonk_4, Bintii_4, Biscayne_4, Bodhi17_4, BonaeVitae_4, BoomRoasted_4, Bradley2_4, Bri160_4, BrokMonster_4, Burgy_4, BurtonThePup_4, Cayde6_4, Cazares_4, Chatham_4, Cheesecake_4, Ciel_4, Clownery_4, Concrete_4, DaftyDuck_4, Danimal_4, Danno_4, Dongwon_4, Dooby_4, ELee24_4, EdElric_4, Efeko_5, Eightball_4, Ekko14_4, Elspeth_4, Erin_4, Gabbspett_4, Gardevoir_4, Gillker_4, GoldenBlanche_4, Goobery_4, Horacetta_4, IzzyPants24_4, JRok_4, Jahseh_4, Jannah_4, Jerky_4, JoBros_4, JooneeDee_4, Josuke_4, Kaijohn_4, KayPaulus_4, Kevanna_4, KillerTomato_4, KyriosFaba_4, LaviMo_4, Leafy_4, LemonPepper_4, LionelHutz_4, Livingwater_4, Loca_4, Lola20_4, Lunatic_4, Majesty_4, ManAs_4, MasterPitts_4, McShie_4, MelBee03_4, Miaurora_4, Minima_4, MirimarMandM_4, MrGreen_4, Naby_4, Namsahir_4, NeumannU_4, Niffler_4, Nobel_4, Noelani_4, Octopus_4, Otwor_4, Owens_4, PaoPu_4, Picnic_4, PoRanda_4, Pondwater_4, Publix_4, Puddles3_4, PuffyCat_4, Quaker_4, Rhysand_4, RoscoWindex_4, Sage7_4, SantasSleigh_4, Sara_4, Scamander_4, Scrunchy_4, SeaWolves_4, Sippinontea_4, Slentz_4, Slizam_4, Snuffles_5, Stem_4, TeddyBoy_4, TimoTea_4, TinyTruffula_4, TomBrady12_4, Trireme_4, Upsilon_4, Vanisius_4, VitulaEligans_4, Witch_4, Wolfpack_4, Yami_4, Yasuo_4, YertPhresh_4, Yubaba_4, Zahlia_4,

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

- Astro16_4, Azizam_4, Belthelas_4, Bullzi2019_4, Charbie_4, DirtPie_4, Douggie_4, Godfather_4, HarperAnne_4, Hernandez44_4, Hulk_4, JaimeB_4, Kojax4_4, Luxx_4, Madebyisha_5, Maneater_4, Myram_4, Oaklynn_4, Rhogar_4, Trackstar_4,

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

- Aggie_4, Altostratus_3, Anatole_4, Andies_4, Archimedes_2, B3_4, BFK20_ORF3, BabeRuth_4, Banquo_12, Barebow_3, Bosection6_4, Butters_4, Carcharodon_4, Catfish_7, Charlie_4, Chewbacca_4, Dardanus_10, DinoDaryn_10, DonkeyMan_4, Duplicity_4, E1_4, EGUnicorn_4, Faith5x5_4, Frizzle_2, Fulbright_4, Gex_4, Ghobes_2, Goib_9, Gsput1_6, Gudmit_5, Gustav_3, Hanako_4, Heinz_4, Hibiscus_4, Huffy_10, Jamie19_4, Jojo24_4, Journey_4, Kevin1_4, Khuang_3, Lton_4, Magsby_4, Mahdia_3, Melville_4, MichelleMyBell_4, Moosehead_4, Morrissey_3, Nenae_4, OneDirection_4, Panchino_4, Parmesanjohn_4, Pepperoni_4, PhancyPhin_4, Philonius_4, Phloss_4, Phrann_4, Pipsqueaks_4, Puppies_3, Purgamenstris_4, Raymond7_4, Rebel_4, Redi_4, Reyja_5, RootBeer_4, Rubeelu_4,

Santhid_4, Sapo_2, Schmidt_6, Schnauzer_4, Scitech_4, Shambre1_5, ShrimpFriedEgg_4, Shweta_4, Silvafighter_4, Silvy_4, SkinnyPete_4, Smurph_4, Snekmaggedon_4, Splinter_8, SpongeBob_4, TZGordon_10, Tapioca_4, Tarzan_4, TinaLin_11, Trine_3, Upyo_3, Vendetta_8, Widow_3, Xeno_4, Xerxes_4,

Summary by start number:

Start 6:

- Found in 1 of 228 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 205
- Called 100.0% of time when present
- Phage (with cluster) where this start called: RootBeer_4 (FA),

Start 7:

- Found in 2 of 228 (0.9%) of genes in pham
- Manual Annotations of this start: 1 of 205
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Shambre1_5 (singleton),

Start 8:

- Found in 2 of 228 (0.9%) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Altostratus_3 (FS),

Start 11:

- Found in 2 of 228 (0.9%) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Khuang_3 (FS),

Start 12:

- Found in 9 of 228 (3.9%) of genes in pham
- Manual Annotations of this start: 8 of 205
- Called 88.9% of time when present
- Phage (with cluster) where this start called: Banquo_12 (CU1), DinoDaryn_10 (CU1), Goib_9 (CU1), Huffy_10 (CU1), Splinter_8 (CU1), TZGordon_10 (CU1), TinaLin_11 (CU1), Vendetta_8 (CU1),

Start 13:

- Found in 24 of 228 (10.5%) of genes in pham
- Manual Annotations of this start: 13 of 205
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Archimedes_2 (DA), BFK20_ORF3 (singleton), Catfish_7 (CU5), Dardanus_10 (CU3), Frizzle_2 (DA), Ghobes_2 (DA), Gsput1_6 (CU2), Gustav_3 (CD), Mahdia_3 (CD), Morrissey_3 (CD), Puppies_3 (CD), Sapo_2 (DA), Schmidt_6 (CU4), Trine_3 (CD), Upyo_3 (CD), Widow_3 (CD),

Start 14:

- Found in 58 of 228 (25.4%) of genes in pham
- Manual Annotations of this start: 51 of 205
- Called 98.3% of time when present

- Phage (with cluster) where this start called: Aggie_4 (N), Andies_4 (N), BabeRuth_4 (N), Bosection6_4 (N), Butters_4 (N), Carcharodon_4 (N), Charlie_4 (N), Chewbacca_4 (N), DonkeyMan_4 (DY), Duplicity_4 (N), EGUnicorn_4 (N), Faith5x5_4 (CZ6), Fulbright_4 (N), Gex_4 (N), Gudmit_5 (singleton), Hanako_4 (N), Heinz_4 (DY), Hibiscus_4 (DY), Jamie19_4 (N), Journey_4 (N), Kevin1_4 (N), Lton_4 (CZ), Magsby_4 (N), Melville_4 (N), MichelleMyBell_4 (N), Moosehead_4 (CZ6), Nенаe_4 (N), OneDirection_4 (CZ6), Panchino_4 (N), Parmesanjohn_4 (N), Pepperoni_4 (CZ), PhancyPhin_4 (N), Philonius_4 (N), Phloss_4 (N), Phrann_4 (N), Pipsqueaks_4 (N), Purgamenstris_4 (N), Raymond7_4 (N), Rebel_4 (N), Redi_4 (N), Reyja_5 (DY), Rubeelu_4 (N), Santhid_4 (DY), Schnauzer_4 (N), Scitech_4 (N), ShrimpFriedEgg_4 (N), Shweta_4 (N), Silvafighter_4 (N), Silvy_4 (N), SkinnyPete_4 (N), Smurph_4 (N), Snekmaggedon_4 (N), SpongeBob_4 (N), Tapioca_4 (N), Tarzan_4 (DY), Xeno_4 (N), Xerxes_4 (N),

Start 15:

- Found in 9 of 228 (3.9%) of genes in pham
- Manual Annotations of this start: 1 of 205
- Called 11.1% of time when present
- Phage (with cluster) where this start called: Jojo24_4 (DY),

Start 19:

- Found in 19 of 228 (8.3%) of genes in pham
- Manual Annotations of this start: 1 of 205
- Called 5.3% of time when present
- Phage (with cluster) where this start called: Douggie_4 (EE),

Start 21:

- Found in 3 of 228 (1.3%) of genes in pham
- Manual Annotations of this start: 3 of 205
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Anatole_4 (BV), B3_4 (BV), E1_4 (BV),

Start 28:

- Found in 1 of 228 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 205
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Barebow_3 (singleton),

Start 30:

- Found in 138 of 228 (60.5%) of genes in pham
- Manual Annotations of this start: 110 of 205
- Called 85.5% of time when present
- Phage (with cluster) where this start called: Alucard_4 (EE), Anseraureola_4 (EE), Aries55_4 (EE), Avvas_4 (EE), Aztec_4 (EE), Baine_4 (EE), BarBear_4 (EE), BinkBonk_4 (EE), Bintii_4 (EE), Biscayne_4 (EE), Bodhi17_4 (EE), BonaeVitae_4 (EE), BoomRoasted_4 (EE), Bradley2_4 (EE), Bri160_4 (EE), BrokMonster_4 (EE), Burgy_4 (EE), BurtonThePup_4 (EE), Cayde6_4 (EE), Cazares_4 (EE), Chatham_4 (EE), Cheesecake_4 (EE), Ciel_4 (EE), Clownery_4 (EE), Concrete_4 (EE), DaftyDuck_4 (EE), Danimal_4 (EE), Danno_4 (EE), Dongwon_4 (EE), Dooby_4 (EE), ELee24_4 (EE), EdElric_4 (EE), Efeko_5 (EE), Eightball_4 (EE), Ekko14_4 (EE), Elspeth_4 (EE), Erin_4 (EE), Gabbspett_4 (EE), Gardevoir_4 (EE), Gillker_4 (EE), GoldenBlanche_4 (EE), Goobery_4 (EE), Horacetta_4 (EE), IzzyPants24_4 (EE), JRok_4 (EE), Jahseh_4 (EE), Jannah_4 (EE), Jerky_4 (EE), JoBros_4 (EE),

JooneeDee_4 (EE), Josuke_4 (EE), Kaijohn_4 (EE), KayPaulus_4 (EE), Kevanna_4 (EE), KillerTomato_4 (EE), KyriosFaba_4 (EE), LaviMo_4 (EE), Leafy_4 (EE), LemonPepper_4 (EE), LionelHutz_4 (EE), Livingwater_4 (EE), Loca_4 (EE), Lola20_4 (EE), Lunatic_4 (EE), Majesty_4 (EE), ManAs_4 (EE), MasterPitts_4 (EE), McShie_4 (EE), MelBee03_4 (EE), Miaurora_4 (EE), Minima_4 (EE), MirimarMandM_4 (EE), MrGreen_4 (EE), Naby_4 (EE), Namsahir_4 (EE), NeumannU_4 (EE), Niffler_4 (EE), Nobel_4 (EE), Noelani_4 (EE), Octopus_4 (EE), Otwor_4 (EE), Owens_4 (EE), PaoPu_4 (EE), Picnic_4 (EE), PoRanda_4 (EE), Pondwater_4 (EE), Publix_4 (EE), Puddles3_4 (EE), PuffyCat_4 (EE), Quaker_4 (EE), Rhysand_4 (EE), RoscoWindex_4 (EE), Sage7_4 (EE), SantasSleigh_4 (EE), Sara_4 (EE), Scamander_4 (EE), Scrunchy_4 (EE), SeaWolves_4 (EE), Sippinontea_4 (EE), Slentz_4 (EE), Slizam_4 (EE), Snuffles_5 (EE), Stem_4 (EE), TeddyBoy_4 (EE), TimoTea_4 (EE), TinyTruffula_4 (EE), TomBrady12_4 (EE), Trireme_4 (EE), Upsilon_4 (EE), Vanisius_4 (EE), VitulaEligans_4 (EE), Witch_4 (EE), Wolfpack_4 (EE), Yami_4 (EE), Yasuo_4 (EE), YertPhresh_4 (EE), Yubaba_4 (EE), Zahlia_4 (EE),

Start 56:

- Found in 128 of 228 (56.1%) of genes in pham
- Manual Annotations of this start: 2 of 205
- Called 2.3% of time when present
- Phage (with cluster) where this start called: Godfather_4 (EE), Kojax4_4 (EE), Trackstar_4 (EE),

Start 57:

- Found in 137 of 228 (60.1%) of genes in pham
- Manual Annotations of this start: 13 of 205
- Called 11.7% of time when present
- Phage (with cluster) where this start called: Astro16_4 (EE), Azizam_4 (EE), Belthelas_4 (EE), Bullzi2019_4 (EE), Charbie_4 (EE), DirtPie_4 (EE), HarperAnne_4 (EE), Hernandez44_4 (EE), Hulk_4 (EE), JaimeB_4 (EE), Luxx_4 (EE), Madebyisha_5 (EE), Maneater_4 (EE), Myram_4 (EE), Oaklynn_4 (EE), Rhogar_4 (EE),

Summary by clusters:

There are 16 clusters represented in this pham: CU5, FS, DA, CU2, CU1, CZ, EE, CZ6, singleton, N, FA, BV, CU4, DY, CU3, CD,

Info for manual annotations of cluster BV:

- Start number 21 was manually annotated 3 times for cluster BV.

Info for manual annotations of cluster CD:

- Start number 13 was manually annotated 7 times for cluster CD.

Info for manual annotations of cluster CU1:

- Start number 12 was manually annotated 8 times for cluster CU1.

Info for manual annotations of cluster CU3:

- Start number 13 was manually annotated 1 time for cluster CU3.

Info for manual annotations of cluster CU4:

- Start number 13 was manually annotated 1 time for cluster CU4.

Info for manual annotations of cluster CU5:

- Start number 13 was manually annotated 1 time for cluster CU5.

Info for manual annotations of cluster CZ:

- Start number 14 was manually annotated 1 time for cluster CZ.

Info for manual annotations of cluster CZ6:

- Start number 14 was manually annotated 3 times for cluster CZ6.

Info for manual annotations of cluster DA:

- Start number 13 was manually annotated 3 times for cluster DA.

Info for manual annotations of cluster DY:

- Start number 14 was manually annotated 4 times for cluster DY.
- Start number 15 was manually annotated 1 time for cluster DY.

Info for manual annotations of cluster EE:

- Start number 19 was manually annotated 1 time for cluster EE.
- Start number 30 was manually annotated 110 times for cluster EE.
- Start number 56 was manually annotated 2 times for cluster EE.
- Start number 57 was manually annotated 13 times for cluster EE.

Info for manual annotations of cluster FA:

- Start number 6 was manually annotated 1 time for cluster FA.

Info for manual annotations of cluster N:

- Start number 14 was manually annotated 42 times for cluster N.

Gene Information:

Gene: Aggie_4 Start: 2249, Stop: 3538, Start Num: 14

Candidate Starts for Aggie_4:

(Start: 14 @2249 has 51 MA's), (43, 2336), (49, 2342), (53, 2378), (Start: 56 @2390 has 2 MA's), (65, 2468), (81, 2543), (103, 2630), (137, 2825), (139, 2840), (146, 2882), (158, 2996), (172, 3101), (174, 3110), (178, 3155), (186, 3191), (192, 3221), (210, 3344), (222, 3416), (223, 3422),

Gene: Altostratus_3 Start: 1979, Stop: 3505, Start Num: 8

Candidate Starts for Altostratus_3:

(8, 1979), (9, 1982), (10, 1985), (11, 1991), (36, 2072), (40, 2090), (51, 2132), (55, 2162), (69, 2255), (82, 2318), (107, 2411), (115, 2456), (144, 2648), (151, 2708), (158, 2774), (166, 2819), (171, 2867), (172, 2879), (174, 2888), (176, 2915), (182, 2960), (186, 2969), (194, 3005), (206, 3086), (207, 3089), (217, 3158), (229, 3323), (233, 3389), (235, 3446), (236, 3476), (237, 3479),

Gene: Alucard_4 Start: 2660, Stop: 3787, Start Num: 30

Candidate Starts for Alucard_4:

(Start: 30 @2660 has 110 MA's), (50, 2729), (Start: 57 @2771 has 13 MA's), (60, 2795), (71, 2870), (85, 2942), (86, 2945), (87, 2951), (95, 2984), (106, 3020), (123, 3113), (124, 3116), (131, 3167), (140, 3245), (143, 3257), (149, 3299), (156, 3350), (168, 3431), (173, 3473), (184, 3554), (211, 3704),

Gene: Anatole_4 Start: 2800, Stop: 4233, Start Num: 21

Candidate Starts for Anatole_4:

(4, 2701), (5, 2725), (Start: 21 @2800 has 3 MA's), (26, 2809), (35, 2842), (38, 2851), (46, 2884), (55, 2938), (59, 2962), (62, 2977), (64, 2995), (76, 3067), (82, 3097), (107, 3199), (115, 3244), (119, 3262), (123, 3289), (129, 3328), (130, 3334), (131, 3343), (132, 3352), (135, 3376), (150, 3490), (158, 3559), (160, 3565), (167, 3610), (172, 3664), (178, 3718), (182, 3745), (196, 3802), (206, 3871), (207, 3874), (210, 3901), (220, 3964), (221, 3967), (223, 3979), (227, 4045), (230, 4102), (232, 4150), (234, 4204),

Gene: Andies_4 Start: 2249, Stop: 3538, Start Num: 14

Candidate Starts for Andies_4:

(Start: 14 @2249 has 51 MA's), (43, 2336), (49, 2342), (53, 2378), (Start: 56 @2390 has 2 MA's), (65, 2468), (81, 2543), (103, 2630), (123, 2726), (137, 2825), (139, 2840), (146, 2882), (158, 2996), (172, 3101), (174, 3110), (178, 3155), (186, 3191), (192, 3221), (210, 3344), (222, 3416), (223, 3422),

Gene: Anseraureola_4 Start: 2683, Stop: 3810, Start Num: 30

Candidate Starts for Anseraureola_4:

(Start: 30 @2683 has 110 MA's), (50, 2752), (Start: 57 @2794 has 13 MA's), (60, 2818), (71, 2893), (85, 2965), (86, 2968), (87, 2974), (95, 3007), (106, 3043), (123, 3136), (124, 3139), (131, 3190), (140, 3268), (143, 3280), (149, 3322), (156, 3373), (168, 3454), (173, 3496), (184, 3577), (211, 3727),

Gene: Archimedes_2 Start: 1796, Stop: 3112, Start Num: 13

Candidate Starts for Archimedes_2:

(Start: 13 @1796 has 13 MA's), (82, 2105), (87, 2138), (107, 2213), (115, 2258), (127, 2333), (130, 2351), (131, 2360), (158, 2582), (169, 2657), (170, 2666), (172, 2687), (174, 2696), (178, 2741), (191, 2804), (193, 2813), (202, 2855), (206, 2897),

Gene: Aries55_4 Start: 2671, Stop: 3798, Start Num: 30

Candidate Starts for Aries55_4:

(Start: 30 @2671 has 110 MA's), (50, 2740), (Start: 56 @2776 has 2 MA's), (Start: 57 @2782 has 13 MA's), (60, 2806), (71, 2881), (85, 2953), (86, 2956), (87, 2962), (95, 2995), (106, 3031), (123, 3124), (124, 3127), (131, 3178), (140, 3256), (143, 3268), (149, 3310), (156, 3361), (168, 3442), (173, 3484), (184, 3565), (211, 3715),

Gene: Astro16_4 Start: 2782, Stop: 3798, Start Num: 57

Candidate Starts for Astro16_4:

(Start: 30 @2671 has 110 MA's), (50, 2740), (Start: 57 @2782 has 13 MA's), (60, 2806), (71, 2881), (85, 2953), (86, 2956), (87, 2962), (95, 2995), (106, 3031), (123, 3124), (124, 3127), (131, 3178), (140, 3256), (143, 3268), (149, 3310), (156, 3361), (168, 3442), (173, 3484), (184, 3565), (211, 3715),

Gene: Avvas_4 Start: 2671, Stop: 3798, Start Num: 30

Candidate Starts for Avvas_4:

(Start: 30 @2671 has 110 MA's), (50, 2740), (Start: 56 @2776 has 2 MA's), (Start: 57 @2782 has 13 MA's), (60, 2806), (71, 2881), (85, 2953), (86, 2956), (87, 2962), (95, 2995), (106, 3031), (123, 3124), (124, 3127), (131, 3178), (140, 3256), (143, 3268), (149, 3310), (156, 3361), (168, 3442), (173, 3484), (184, 3565), (211, 3715),

Gene: Azizam_4 Start: 2770, Stop: 3786, Start Num: 57

Candidate Starts for Azizam_4:

(23, 2644), (Start: 30 @2659 has 110 MA's), (50, 2728), (Start: 57 @2770 has 13 MA's), (60, 2794), (71, 2869), (85, 2941), (86, 2944), (87, 2950), (95, 2983), (106, 3019), (116, 3067), (123, 3112), (124, 3115), (131, 3166), (140, 3244), (143, 3256), (149, 3298), (155, 3346), (156, 3349), (165, 3400), (168, 3430), (173, 3472), (177, 3514), (184, 3553), (211, 3703),

Gene: Aztec_4 Start: 2659, Stop: 3786, Start Num: 30

Candidate Starts for Aztec_4:

(Start: 30 @2659 has 110 MA's), (50, 2728), (Start: 57 @2770 has 13 MA's), (60, 2794), (71, 2869), (85, 2941), (86, 2944), (87, 2950), (95, 2983), (106, 3019), (123, 3112), (124, 3115), (131, 3166), (140, 3244), (143, 3256), (149, 3298), (156, 3349), (168, 3430), (173, 3472), (184, 3553), (211, 3703),

Gene: B3_4 Start: 2800, Stop: 4233, Start Num: 21

Candidate Starts for B3_4:

(4, 2701), (5, 2725), (Start: 21 @2800 has 3 MA's), (26, 2809), (35, 2842), (38, 2851), (46, 2884), (55, 2938), (59, 2962), (62, 2977), (64, 2995), (76, 3067), (82, 3097), (107, 3199), (115, 3244), (123, 3289), (129, 3328), (130, 3334), (131, 3343), (132, 3352), (135, 3376), (144, 3436), (158, 3559), (160, 3565), (167, 3610), (172, 3664), (178, 3718), (183, 3748), (196, 3802), (206, 3871), (207, 3874), (210, 3901), (220, 3964), (221, 3967), (223, 3979), (227, 4045), (230, 4102), (232, 4150), (234, 4204),

Gene: BFK20_ORF3 Start: 2178, Stop: 3449, Start Num: 13

Candidate Starts for BFK20_ORF3:

(Start: 13 @2178 has 13 MA's), (49, 2286), (62, 2370), (64, 2388), (70, 2436), (76, 2460), (77, 2466), (78, 2475), (82, 2490), (103, 2583), (122, 2679), (128, 2727), (138, 2808), (142, 2835), (145, 2844), (150, 2901), (158, 2973), (168, 3039), (170, 3057), (172, 3078), (173, 3081), (187, 3183), (192, 3198), (194, 3207), (210, 3321), (214, 3345), (226, 3438),

Gene: BabeRuth_4 Start: 2263, Stop: 3552, Start Num: 14

Candidate Starts for BabeRuth_4:

(Start: 14 @2263 has 51 MA's), (25, 2299), (43, 2350), (49, 2356), (53, 2392), (Start: 56 @2404 has 2 MA's), (65, 2482), (81, 2557), (99, 2629), (102, 2638), (103, 2644), (105, 2650), (106, 2653), (123, 2740), (137, 2839), (139, 2854), (141, 2872), (158, 3010), (165, 3046), (172, 3115), (174, 3124), (178, 3169), (186, 3205), (192, 3235), (207, 3331), (210, 3358), (222, 3430),

Gene: Baine_4 Start: 2656, Stop: 3783, Start Num: 30

Candidate Starts for Baine_4:

(Start: 30 @2656 has 110 MA's), (50, 2725), (Start: 57 @2767 has 13 MA's), (60, 2791), (71, 2866), (85, 2938), (86, 2941), (87, 2947), (95, 2980), (106, 3016), (123, 3109), (124, 3112), (131, 3163), (140, 3241), (143, 3253), (149, 3295), (156, 3346), (168, 3427), (173, 3469), (184, 3550), (211, 3700),

Gene: Banquo_12 Start: 6215, Stop: 7504, Start Num: 12

Candidate Starts for Banquo_12:

(1, 5927), (Start: 12 @6215 has 8 MA's), (Start: 13 @6224 has 13 MA's), (Start: 56 @6374 has 2 MA's), (78, 6515), (87, 6563), (88, 6566), (108, 6638), (117, 6680), (121, 6707), (122, 6710), (123, 6725), (130, 6770), (141, 6860), (150, 6926), (158, 6998), (169, 7073), (172, 7103), (176, 7139), (186, 7193), (200, 7256), (210, 7340), (226, 7454),

Gene: BarBear_4 Start: 2671, Stop: 3798, Start Num: 30

Candidate Starts for BarBear_4:

(Start: 30 @2671 has 110 MA's), (50, 2740), (Start: 57 @2782 has 13 MA's), (60, 2806), (71, 2881), (85, 2953), (86, 2956), (87, 2962), (95, 2995), (106, 3031), (123, 3124), (124, 3127), (131, 3178), (140, 3256), (143, 3268), (149, 3310), (156, 3361), (168, 3442), (173, 3484), (184, 3565), (211, 3715),

Gene: Barebow_3 Start: 1899, Stop: 3107, Start Num: 28

Candidate Starts for Barebow_3:

(Start: 28 @1899 has 1 MA's), (49, 1971), (61, 2049), (67, 2103), (80, 2166), (85, 2196), (109, 2289), (123, 2373), (126, 2397), (147, 2550), (157, 2616), (170, 2700), (180, 2790), (213, 2970),

Gene: Belthelas_4 Start: 2821, Stop: 3837, Start Num: 57

Candidate Starts for Belthelas_4:

(Start: 30 @2710 has 110 MA's), (50, 2779), (Start: 56 @2815 has 2 MA's), (Start: 57 @2821 has 13 MA's), (60, 2845), (71, 2920), (85, 2992), (86, 2995), (87, 3001), (95, 3034), (106, 3070), (123, 3163), (124, 3166), (131, 3217), (140, 3295), (143, 3307), (149, 3349), (155, 3397), (156, 3400), (165, 3451), (168, 3481), (173, 3523), (184, 3604), (211, 3754),

Gene: BinkBonk_4 Start: 2671, Stop: 3798, Start Num: 30

Candidate Starts for BinkBonk_4:

(Start: 30 @2671 has 110 MA's), (50, 2740), (Start: 57 @2782 has 13 MA's), (60, 2806), (71, 2881), (85, 2953), (86, 2956), (87, 2962), (95, 2995), (106, 3031), (123, 3124), (124, 3127), (131, 3178), (140, 3256), (143, 3268), (149, 3310), (156, 3361), (168, 3442), (173, 3484), (184, 3565), (211, 3715),

Gene: Bintii_4 Start: 2689, Stop: 3816, Start Num: 30

Candidate Starts for Bintii_4:

(Start: 30 @2689 has 110 MA's), (50, 2758), (Start: 56 @2794 has 2 MA's), (Start: 57 @2800 has 13 MA's), (60, 2824), (71, 2899), (85, 2971), (86, 2974), (87, 2980), (95, 3013), (106, 3049), (123, 3142), (124, 3145), (131, 3196), (140, 3274), (143, 3286), (149, 3328), (156, 3379), (168, 3460), (173, 3502), (180, 3568), (184, 3583), (211, 3733),

Gene: Biscayne_4 Start: 2687, Stop: 3844, Start Num: 30

Candidate Starts for Biscayne_4:

(Start: 19 @2660 has 1 MA's), (Start: 30 @2687 has 110 MA's), (50, 2756), (Start: 56 @2792 has 2 MA's), (Start: 57 @2798 has 13 MA's), (60, 2822), (71, 2897), (85, 2969), (86, 2972), (87, 2978), (95, 3011), (101, 3032), (106, 3047), (110, 3065), (123, 3140), (124, 3143), (131, 3194), (140, 3272), (143, 3284), (149, 3326), (155, 3374), (156, 3377), (165, 3428), (168, 3458), (173, 3500), (180, 3566), (184, 3581), (211, 3731),

Gene: Bodhi17_4 Start: 2656, Stop: 3783, Start Num: 30

Candidate Starts for Bodhi17_4:

(Start: 19 @2629 has 1 MA's), (Start: 30 @2656 has 110 MA's), (50, 2725), (Start: 56 @2761 has 2 MA's), (Start: 57 @2767 has 13 MA's), (60, 2791), (71, 2866), (85, 2938), (86, 2941), (87, 2947), (95, 2980), (106, 3016), (116, 3064), (123, 3109), (124, 3112), (131, 3163), (140, 3241), (143, 3253), (149, 3295), (156, 3346), (168, 3427), (173, 3469), (184, 3550), (211, 3700),

Gene: BonaeVitae_4 Start: 2373, Stop: 3533, Start Num: 30

Candidate Starts for BonaeVitae_4:

(22, 2355), (27, 2364), (Start: 30 @2373 has 110 MA's), (Start: 57 @2484 has 13 MA's), (60, 2508), (73, 2586), (85, 2655), (87, 2664), (95, 2697), (116, 2781), (124, 2829), (140, 2958), (143, 2970), (147, 3003), (154, 3057), (156, 3063), (165, 3114), (173, 3186), (180, 3252), (184, 3267), (210, 3411), (211, 3417),

Gene: BoomRoasted_4 Start: 2710, Stop: 3837, Start Num: 30

Candidate Starts for BoomRoasted_4:

(Start: 19 @2683 has 1 MA's), (Start: 30 @2710 has 110 MA's), (50, 2779), (Start: 56 @2815 has 2 MA's), (Start: 57 @2821 has 13 MA's), (60, 2845), (71, 2920), (85, 2992), (86, 2995), (87, 3001), (95, 3034), (106, 3070), (116, 3118), (123, 3163), (124, 3166), (131, 3217), (140, 3295), (143, 3307), (149, 3349), (155, 3397), (156, 3400), (165, 3451), (168, 3481), (173, 3523), (184, 3604), (211, 3754),

Gene: Bosection6_4 Start: 2249, Stop: 3538, Start Num: 14

Candidate Starts for Bosection6_4:

(Start: 14 @2249 has 51 MA's), (43, 2336), (49, 2342), (53, 2378), (Start: 56 @2390 has 2 MA's), (65, 2468), (81, 2543), (103, 2630), (137, 2825), (139, 2840), (146, 2882), (158, 2996), (172, 3101), (174,

3110), (178, 3155), (186, 3191), (192, 3221), (210, 3344), (222, 3416), (223, 3422),

Gene: Bradley2_4 Start: 2659, Stop: 3786, Start Num: 30

Candidate Starts for Bradley2_4:

(Start: 30 @2659 has 110 MA's), (50, 2728), (Start: 57 @2770 has 13 MA's), (60, 2794), (71, 2869), (74, 2887), (85, 2941), (86, 2944), (87, 2950), (95, 2983), (106, 3019), (123, 3112), (124, 3115), (131, 3166), (140, 3244), (143, 3256), (149, 3298), (156, 3349), (168, 3430), (173, 3472), (184, 3553), (211, 3703),

Gene: Bri160_4 Start: 2710, Stop: 3837, Start Num: 30

Candidate Starts for Bri160_4:

(Start: 19 @2683 has 1 MA's), (Start: 30 @2710 has 110 MA's), (50, 2779), (Start: 56 @2815 has 2 MA's), (Start: 57 @2821 has 13 MA's), (60, 2845), (71, 2920), (85, 2992), (86, 2995), (87, 3001), (95, 3034), (106, 3070), (116, 3118), (123, 3163), (124, 3166), (131, 3217), (140, 3295), (143, 3307), (149, 3349), (155, 3397), (156, 3400), (165, 3451), (168, 3481), (173, 3523), (184, 3604), (211, 3754),

Gene: BrokMonster_4 Start: 2656, Stop: 3783, Start Num: 30

Candidate Starts for BrokMonster_4:

(23, 2641), (Start: 30 @2656 has 110 MA's), (50, 2725), (Start: 57 @2767 has 13 MA's), (60, 2791), (71, 2866), (85, 2938), (86, 2941), (87, 2947), (95, 2980), (106, 3016), (116, 3064), (123, 3109), (124, 3112), (131, 3163), (140, 3241), (143, 3253), (149, 3295), (155, 3343), (156, 3346), (168, 3427), (173, 3469), (177, 3511), (184, 3550), (211, 3700),

Gene: Bullzi2019_4 Start: 2791, Stop: 3807, Start Num: 57

Candidate Starts for Bullzi2019_4:

(Start: 30 @2680 has 110 MA's), (50, 2749), (Start: 56 @2785 has 2 MA's), (Start: 57 @2791 has 13 MA's), (60, 2815), (71, 2890), (85, 2962), (86, 2965), (87, 2971), (95, 3004), (106, 3040), (123, 3133), (124, 3136), (131, 3187), (140, 3265), (143, 3277), (149, 3319), (156, 3370), (168, 3451), (173, 3493), (180, 3559), (184, 3574), (211, 3724),

Gene: Burgy_4 Start: 2671, Stop: 3798, Start Num: 30

Candidate Starts for Burgy_4:

(Start: 30 @2671 has 110 MA's), (50, 2740), (Start: 56 @2776 has 2 MA's), (Start: 57 @2782 has 13 MA's), (60, 2806), (71, 2881), (85, 2953), (86, 2956), (87, 2962), (95, 2995), (106, 3031), (123, 3124), (124, 3127), (131, 3178), (140, 3256), (143, 3268), (149, 3310), (156, 3361), (168, 3442), (173, 3484), (184, 3565), (211, 3715),

Gene: BurtonThePup_4 Start: 2671, Stop: 3798, Start Num: 30

Candidate Starts for BurtonThePup_4:

(Start: 30 @2671 has 110 MA's), (50, 2740), (Start: 57 @2782 has 13 MA's), (60, 2806), (71, 2881), (85, 2953), (86, 2956), (87, 2962), (95, 2995), (106, 3031), (123, 3124), (124, 3127), (131, 3178), (140, 3256), (143, 3268), (149, 3310), (156, 3361), (168, 3442), (173, 3484), (184, 3565), (211, 3715),

Gene: Butters_4 Start: 2249, Stop: 3535, Start Num: 14

Candidate Starts for Butters_4:

(Start: 14 @2249 has 51 MA's), (43, 2336), (49, 2342), (53, 2378), (Start: 56 @2390 has 2 MA's), (81, 2543), (99, 2615), (123, 2726), (124, 2729), (133, 2795), (134, 2798), (137, 2825), (139, 2840), (146, 2882), (158, 2996), (172, 3101), (178, 3155), (179, 3158), (186, 3191), (192, 3221), (210, 3344), (219, 3404),

Gene: Carcharodon_4 Start: 2249, Stop: 3538, Start Num: 14

Candidate Starts for Carcharodon_4:

(Start: 14 @2249 has 51 MA's), (43, 2336), (49, 2342), (53, 2378), (Start: 56 @2390 has 2 MA's), (65, 2468), (81, 2543), (103, 2630), (123, 2726), (137, 2825), (139, 2840), (146, 2882), (158, 2996), (172, 3101), (174, 3110), (178, 3155), (186, 3191), (192, 3221), (210, 3344), (222, 3416), (223, 3422),

Gene: Catfish_7 Start: 4168, Stop: 5466, Start Num: 13

Candidate Starts for Catfish_7:

(Start: 13 @4168 has 13 MA's), (41, 4246), (47, 4264), (51, 4285), (Start: 56 @4318 has 2 MA's), (65, 4396), (68, 4408), (70, 4420), (83, 4486), (84, 4489), (88, 4510), (99, 4549), (123, 4669), (125, 4675), (130, 4714), (138, 4783), (141, 4804), (158, 4942), (169, 5017), (172, 5047), (176, 5083), (192, 5167), (193, 5173), (195, 5182), (198, 5194), (210, 5284),

Gene: Cayde6_4 Start: 2656, Stop: 3783, Start Num: 30

Candidate Starts for Cayde6_4:

(Start: 30 @2656 has 110 MA's), (50, 2725), (Start: 57 @2767 has 13 MA's), (60, 2791), (71, 2866), (85, 2938), (86, 2941), (87, 2947), (95, 2980), (106, 3016), (123, 3109), (124, 3112), (131, 3163), (140, 3241), (143, 3253), (149, 3295), (156, 3346), (168, 3427), (173, 3469), (184, 3550), (211, 3700),

Gene: Cazares_4 Start: 2647, Stop: 3774, Start Num: 30

Candidate Starts for Cazares_4:

(Start: 30 @2647 has 110 MA's), (50, 2716), (Start: 56 @2752 has 2 MA's), (Start: 57 @2758 has 13 MA's), (60, 2782), (71, 2857), (85, 2929), (86, 2932), (87, 2938), (95, 2971), (106, 3007), (123, 3100), (124, 3103), (131, 3154), (140, 3232), (143, 3244), (149, 3286), (156, 3337), (168, 3418), (173, 3460), (180, 3526), (184, 3541), (211, 3691),

Gene: Charbie_4 Start: 2758, Stop: 3774, Start Num: 57

Candidate Starts for Charbie_4:

(Start: 30 @2647 has 110 MA's), (50, 2716), (Start: 57 @2758 has 13 MA's), (60, 2782), (71, 2857), (85, 2929), (86, 2932), (87, 2938), (95, 2971), (106, 3007), (123, 3100), (124, 3103), (131, 3154), (140, 3232), (143, 3244), (149, 3286), (156, 3337), (165, 3388), (168, 3418), (173, 3460), (184, 3541), (211, 3691),

Gene: Charlie_4 Start: 2249, Stop: 3538, Start Num: 14

Candidate Starts for Charlie_4:

(Start: 14 @2249 has 51 MA's), (43, 2336), (49, 2342), (53, 2378), (Start: 56 @2390 has 2 MA's), (65, 2468), (81, 2543), (103, 2630), (137, 2825), (139, 2840), (146, 2882), (158, 2996), (172, 3101), (174, 3110), (178, 3155), (186, 3191), (192, 3221), (210, 3344), (222, 3416), (223, 3422),

Gene: Chatham_4 Start: 2659, Stop: 3786, Start Num: 30

Candidate Starts for Chatham_4:

(Start: 30 @2659 has 110 MA's), (50, 2728), (Start: 57 @2770 has 13 MA's), (60, 2794), (71, 2869), (85, 2941), (86, 2944), (87, 2950), (95, 2983), (106, 3019), (123, 3112), (124, 3115), (131, 3166), (140, 3244), (143, 3256), (149, 3298), (156, 3349), (168, 3430), (173, 3472), (184, 3553), (211, 3703),

Gene: Cheesecake_4 Start: 2671, Stop: 3798, Start Num: 30

Candidate Starts for Cheesecake_4:

(Start: 30 @2671 has 110 MA's), (50, 2740), (Start: 56 @2776 has 2 MA's), (Start: 57 @2782 has 13 MA's), (60, 2806), (71, 2881), (85, 2953), (86, 2956), (87, 2962), (95, 2995), (106, 3031), (123, 3124), (124, 3127), (131, 3178), (140, 3256), (143, 3268), (149, 3310), (156, 3361), (168, 3442), (173, 3484), (184, 3565), (211, 3715),

Gene: Chewbacca_4 Start: 2249, Stop: 3538, Start Num: 14

Candidate Starts for Chewbacca_4:

(Start: 14 @2249 has 51 MA's), (43, 2336), (49, 2342), (53, 2378), (Start: 56 @2390 has 2 MA's), (65, 2468), (81, 2543), (103, 2630), (137, 2825), (139, 2840), (146, 2882), (158, 2996), (172, 3101), (174, 3110), (178, 3155), (186, 3191), (192, 3221), (210, 3344), (222, 3416), (223, 3422),

Gene: Ciel_4 Start: 2671, Stop: 3798, Start Num: 30

Candidate Starts for Ciel_4:

(Start: 30 @2671 has 110 MA's), (50, 2740), (Start: 57 @2782 has 13 MA's), (60, 2806), (71, 2881), (85, 2953), (86, 2956), (87, 2962), (95, 2995), (106, 3031), (123, 3124), (124, 3127), (131, 3178), (140, 3256), (143, 3268), (149, 3310), (156, 3361), (168, 3442), (173, 3484), (184, 3565), (211, 3715),

Gene: Clownery_4 Start: 2764, Stop: 3891, Start Num: 30

Candidate Starts for Clownery_4:

(Start: 30 @2764 has 110 MA's), (50, 2833), (Start: 56 @2869 has 2 MA's), (Start: 57 @2875 has 13 MA's), (60, 2899), (71, 2974), (85, 3046), (86, 3049), (87, 3055), (95, 3088), (106, 3124), (123, 3217), (124, 3220), (131, 3271), (140, 3349), (143, 3361), (149, 3403), (156, 3454), (168, 3535), (173, 3577), (180, 3643), (184, 3658), (211, 3808),

Gene: Concrete_4 Start: 2710, Stop: 3837, Start Num: 30

Candidate Starts for Concrete_4:

(Start: 19 @2683 has 1 MA's), (Start: 30 @2710 has 110 MA's), (50, 2779), (Start: 57 @2821 has 13 MA's), (60, 2845), (71, 2920), (85, 2992), (86, 2995), (87, 3001), (95, 3034), (106, 3070), (123, 3163), (124, 3166), (131, 3217), (140, 3295), (143, 3307), (149, 3349), (155, 3397), (156, 3400), (165, 3451), (168, 3481), (173, 3523), (184, 3604), (211, 3754),

Gene: DaftyDuck_4 Start: 2671, Stop: 3798, Start Num: 30

Candidate Starts for DaftyDuck_4:

(Start: 30 @2671 has 110 MA's), (50, 2740), (Start: 56 @2776 has 2 MA's), (Start: 57 @2782 has 13 MA's), (60, 2806), (71, 2881), (85, 2953), (86, 2956), (87, 2962), (95, 2995), (106, 3031), (123, 3124), (124, 3127), (131, 3178), (140, 3256), (143, 3268), (149, 3310), (156, 3361), (168, 3442), (173, 3484), (184, 3565), (211, 3715),

Gene: Danimal_4 Start: 2659, Stop: 3786, Start Num: 30

Candidate Starts for Danimal_4:

(Start: 30 @2659 has 110 MA's), (50, 2728), (Start: 57 @2770 has 13 MA's), (60, 2794), (71, 2869), (85, 2941), (86, 2944), (87, 2950), (95, 2983), (106, 3019), (123, 3112), (124, 3115), (131, 3166), (140, 3244), (143, 3256), (149, 3298), (156, 3349), (168, 3430), (173, 3472), (184, 3553), (211, 3703),

Gene: Danno_4 Start: 2671, Stop: 3798, Start Num: 30

Candidate Starts for Danno_4:

(Start: 30 @2671 has 110 MA's), (50, 2740), (Start: 56 @2776 has 2 MA's), (Start: 57 @2782 has 13 MA's), (60, 2806), (71, 2881), (85, 2953), (86, 2956), (87, 2962), (95, 2995), (106, 3031), (123, 3124), (124, 3127), (131, 3178), (140, 3256), (143, 3268), (149, 3310), (156, 3361), (168, 3442), (173, 3484), (184, 3565), (211, 3715),

Gene: Dardanus_10 Start: 5244, Stop: 6548, Start Num: 13

Candidate Starts for Dardanus_10:

(Start: 13 @5244 has 13 MA's), (18, 5262), (51, 5361), (54, 5388), (65, 5472), (69, 5487), (82, 5550), (88, 5586), (89, 5589), (90, 5592), (108, 5658), (115, 5697), (121, 5727), (122, 5730), (123, 5745), (130, 5790), (138, 5859), (141, 5880), (158, 6018), (160, 6024), (169, 6093), (170, 6102), (172, 6123), (176, 6159), (186, 6213), (192, 6243), (198, 6270), (200, 6276), (210, 6360), (216, 6393), (218, 6417), (221, 6426), (222, 6432),

Gene: DinoDaryn_10 Start: 5301, Stop: 6593, Start Num: 12

Candidate Starts for DinoDaryn_10:

(3, 5223), (Start: 12 @5301 has 8 MA's), (Start: 13 @5310 has 13 MA's), (47, 5406), (Start: 56 @5460 has 2 MA's), (82, 5616), (88, 5652), (99, 5691), (106, 5715), (115, 5763), (117, 5766), (122, 5796), (123, 5811), (124, 5814), (130, 5856), (150, 6012), (158, 6084), (172, 6189), (175, 6201), (176, 6225), (186, 6279), (192, 6309), (193, 6315), (210, 6426),

Gene: DirtPie_4 Start: 2875, Stop: 3891, Start Num: 57

Candidate Starts for DirtPie_4:

(Start: 30 @2764 has 110 MA's), (50, 2833), (Start: 57 @2875 has 13 MA's), (60, 2899), (71, 2974), (85, 3046), (86, 3049), (87, 3055), (95, 3088), (106, 3124), (123, 3217), (124, 3220), (131, 3271), (140, 3349), (143, 3361), (149, 3403), (156, 3454), (168, 3535), (173, 3577), (184, 3658), (211, 3808),

Gene: Dongwon_4 Start: 2659, Stop: 3786, Start Num: 30

Candidate Starts for Dongwon_4:

(Start: 30 @2659 has 110 MA's), (50, 2728), (Start: 57 @2770 has 13 MA's), (60, 2794), (71, 2869), (85, 2941), (86, 2944), (87, 2950), (95, 2983), (106, 3019), (123, 3112), (124, 3115), (131, 3166), (140, 3244), (143, 3256), (149, 3298), (156, 3349), (168, 3430), (173, 3472), (184, 3553), (211, 3703),

Gene: DonkeyMan_4 Start: 2354, Stop: 3652, Start Num: 14

Candidate Starts for DonkeyMan_4:

(Start: 14 @2354 has 51 MA's), (Start: 15 @2357 has 1 MA's), (20, 2381), (32, 2411), (53, 2483), (70, 2600), (100, 2732), (104, 2747), (105, 2750), (132, 2906), (141, 2978), (158, 3119), (161, 3128), (163, 3140), (165, 3155), (171, 3212), (172, 3224), (178, 3278), (179, 3281), (181, 3296), (186, 3314), (189, 3335), (210, 3461),

Gene: Dooby_4 Start: 2659, Stop: 3786, Start Num: 30

Candidate Starts for Dooby_4:

(Start: 30 @2659 has 110 MA's), (50, 2728), (Start: 57 @2770 has 13 MA's), (60, 2794), (71, 2869), (85, 2941), (86, 2944), (87, 2950), (95, 2983), (106, 3019), (123, 3112), (124, 3115), (131, 3166), (140, 3244), (143, 3256), (149, 3298), (156, 3349), (168, 3430), (173, 3472), (184, 3553), (211, 3703),

Gene: Douggie_4 Start: 2629, Stop: 3783, Start Num: 19

Candidate Starts for Douggie_4:

(Start: 19 @2629 has 1 MA's), (Start: 30 @2656 has 110 MA's), (50, 2725), (Start: 56 @2761 has 2 MA's), (Start: 57 @2767 has 13 MA's), (60, 2791), (71, 2866), (85, 2938), (86, 2941), (87, 2947), (95, 2980), (106, 3016), (123, 3109), (124, 3112), (131, 3163), (140, 3241), (143, 3253), (149, 3295), (156, 3346), (168, 3427), (173, 3469), (184, 3550), (211, 3700),

Gene: Duplicity_4 Start: 2249, Stop: 3538, Start Num: 14

Candidate Starts for Duplicity_4:

(Start: 14 @2249 has 51 MA's), (43, 2336), (49, 2342), (53, 2378), (Start: 56 @2390 has 2 MA's), (65, 2468), (81, 2543), (103, 2630), (137, 2825), (139, 2840), (146, 2882), (158, 2996), (172, 3101), (174, 3110), (178, 3155), (186, 3191), (192, 3221), (210, 3344), (222, 3416), (223, 3422),

Gene: E1_4 Start: 2800, Stop: 4233, Start Num: 21

Candidate Starts for E1_4:

(4, 2701), (5, 2725), (Start: 21 @2800 has 3 MA's), (26, 2809), (35, 2842), (38, 2851), (46, 2884), (55, 2938), (59, 2962), (62, 2977), (64, 2995), (76, 3067), (82, 3097), (107, 3199), (115, 3244), (119, 3262), (123, 3289), (129, 3328), (130, 3334), (131, 3343), (132, 3352), (135, 3376), (150, 3490), (158, 3559), (160, 3565), (167, 3610), (172, 3664), (178, 3718), (182, 3745), (196, 3802), (206, 3871), (207, 3874), (210, 3901), (220, 3964), (221, 3967), (223, 3979), (227, 4045), (230, 4102), (232, 4150), (234, 4204),

Gene: EGUnicorn_4 Start: 2249, Stop: 3538, Start Num: 14

Candidate Starts for EGUunicorn_4:

(Start: 14 @2249 has 51 MA's), (43, 2336), (49, 2342), (53, 2378), (Start: 56 @2390 has 2 MA's), (65, 2468), (81, 2543), (103, 2630), (123, 2726), (137, 2825), (139, 2840), (146, 2882), (158, 2996), (172, 3101), (174, 3110), (178, 3155), (186, 3191), (192, 3221), (210, 3344), (222, 3416), (223, 3422),

Gene: ELee24_4 Start: 2719, Stop: 3840, Start Num: 30

Candidate Starts for ELee24_4:

(Start: 30 @2719 has 110 MA's), (50, 2788), (Start: 56 @2824 has 2 MA's), (Start: 57 @2830 has 13 MA's), (60, 2854), (71, 2929), (85, 3001), (86, 3004), (87, 3010), (95, 3043), (106, 3079), (123, 3172), (124, 3175), (131, 3226), (140, 3304), (143, 3316), (156, 3409), (165, 3460), (168, 3490), (173, 3532), (184, 3613), (211, 3763),

Gene: EdElric_4 Start: 2659, Stop: 3786, Start Num: 30

Candidate Starts for EdElric_4:

(Start: 30 @2659 has 110 MA's), (50, 2728), (Start: 57 @2770 has 13 MA's), (60, 2794), (71, 2869), (85, 2941), (86, 2944), (87, 2950), (95, 2983), (106, 3019), (123, 3112), (124, 3115), (131, 3166), (140, 3244), (143, 3256), (149, 3298), (156, 3349), (168, 3430), (173, 3472), (184, 3553), (211, 3703),

Gene: Efeke_5 Start: 2520, Stop: 3692, Start Num: 30

Candidate Starts for Efeke_5:

(24, 2508), (Start: 30 @2520 has 110 MA's), (50, 2592), (52, 2598), (60, 2658), (85, 2805), (87, 2814), (107, 2886), (116, 2931), (124, 2979), (140, 3108), (155, 3210), (156, 3213), (168, 3294), (173, 3336), (184, 3417), (210, 3561), (211, 3567),

Gene: Eightball_4 Start: 2671, Stop: 3798, Start Num: 30

Candidate Starts for Eightball_4:

(Start: 30 @2671 has 110 MA's), (50, 2740), (Start: 57 @2782 has 13 MA's), (60, 2806), (71, 2881), (85, 2953), (86, 2956), (87, 2962), (95, 2995), (106, 3031), (123, 3124), (124, 3127), (131, 3178), (140, 3256), (143, 3268), (149, 3310), (156, 3361), (168, 3442), (173, 3484), (184, 3565), (211, 3715),

Gene: Ekko14_4 Start: 2647, Stop: 3774, Start Num: 30

Candidate Starts for Ekko14_4:

(Start: 30 @2647 has 110 MA's), (50, 2716), (Start: 56 @2752 has 2 MA's), (Start: 57 @2758 has 13 MA's), (60, 2782), (71, 2857), (85, 2929), (86, 2932), (87, 2938), (95, 2971), (106, 3007), (123, 3100), (124, 3103), (131, 3154), (140, 3232), (143, 3244), (149, 3286), (156, 3337), (165, 3388), (168, 3418), (173, 3460), (180, 3526), (184, 3541), (211, 3691),

Gene: Elspeth_4 Start: 2647, Stop: 3774, Start Num: 30

Candidate Starts for Elspeth_4:

(Start: 30 @2647 has 110 MA's), (50, 2716), (Start: 56 @2752 has 2 MA's), (Start: 57 @2758 has 13 MA's), (60, 2782), (71, 2857), (85, 2929), (86, 2932), (87, 2938), (95, 2971), (106, 3007), (123, 3100), (124, 3103), (131, 3154), (140, 3232), (143, 3244), (149, 3286), (156, 3337), (165, 3388), (168, 3418), (173, 3460), (180, 3526), (184, 3541), (211, 3691),

Gene: Erin_4 Start: 2659, Stop: 3786, Start Num: 30

Candidate Starts for Erin_4:

(Start: 30 @2659 has 110 MA's), (50, 2728), (Start: 57 @2770 has 13 MA's), (60, 2794), (71, 2869), (85, 2941), (86, 2944), (87, 2950), (95, 2983), (106, 3019), (123, 3112), (124, 3115), (131, 3166), (140, 3244), (143, 3256), (149, 3298), (156, 3349), (168, 3430), (173, 3472), (184, 3553), (211, 3703),

Gene: Faith5x5_4 Start: 2170, Stop: 3483, Start Num: 14

Candidate Starts for Faith5x5_4:

(Start: 14 @2170 has 51 MA's), (20, 2197), (43, 2260), (49, 2281), (51, 2296), (53, 2317), (Start: 56 @2329 has 2 MA's), (65, 2407), (69, 2428), (70, 2437), (72, 2440), (79, 2479), (82, 2491), (90, 2533), (99, 2557), (100, 2560), (105, 2578), (106, 2581), (124, 2671), (133, 2737), (141, 2800), (158, 2938), (171, 3031), (172, 3043), (178, 3097), (186, 3133), (202, 3214), (210, 3286), (211, 3292), (223, 3364),

Gene: Frizzle_2 Start: 1804, Stop: 3138, Start Num: 13

Candidate Starts for Frizzle_2:

(Start: 13 @1804 has 13 MA's), (29, 1846), (Start: 56 @1960 has 2 MA's), (59, 1981), (60, 1990), (70, 2062), (88, 2152), (122, 2299), (130, 2359), (141, 2449), (158, 2590), (169, 2665), (171, 2683), (172, 2695), (173, 2698), (176, 2731), (185, 2782), (192, 2815), (200, 2851), (202, 2863), (204, 2887), (225, 3043),

Gene: Fulbright_4 Start: 2249, Stop: 3538, Start Num: 14

Candidate Starts for Fulbright_4:

(Start: 14 @2249 has 51 MA's), (43, 2336), (49, 2342), (53, 2378), (Start: 56 @2390 has 2 MA's), (65, 2468), (81, 2543), (103, 2630), (123, 2726), (137, 2825), (139, 2840), (146, 2882), (158, 2996), (172, 3101), (174, 3110), (178, 3155), (186, 3191), (192, 3221), (210, 3344), (222, 3416), (223, 3422),

Gene: Gabbspett_4 Start: 2761, Stop: 3888, Start Num: 30

Candidate Starts for Gabbspett_4:

(Start: 30 @2761 has 110 MA's), (50, 2830), (Start: 57 @2872 has 13 MA's), (60, 2896), (71, 2971), (85, 3043), (86, 3046), (87, 3052), (95, 3085), (106, 3121), (123, 3214), (124, 3217), (131, 3268), (140, 3346), (143, 3358), (149, 3400), (156, 3451), (168, 3532), (173, 3574), (184, 3655), (211, 3805),

Gene: Gardevoir_4 Start: 2660, Stop: 3787, Start Num: 30

Candidate Starts for Gardevoir_4:

(Start: 30 @2660 has 110 MA's), (50, 2729), (Start: 57 @2771 has 13 MA's), (60, 2795), (71, 2870), (85, 2942), (86, 2945), (87, 2951), (95, 2984), (106, 3020), (123, 3113), (124, 3116), (131, 3167), (140, 3245), (143, 3257), (149, 3299), (156, 3350), (168, 3431), (173, 3473), (184, 3554), (211, 3704),

Gene: Gex_4 Start: 2249, Stop: 3538, Start Num: 14

Candidate Starts for Gex_4:

(Start: 14 @2249 has 51 MA's), (43, 2336), (49, 2342), (53, 2378), (Start: 56 @2390 has 2 MA's), (65, 2468), (81, 2543), (103, 2630), (137, 2825), (139, 2840), (146, 2882), (158, 2996), (172, 3101), (174, 3110), (178, 3155), (186, 3191), (192, 3221), (210, 3344), (222, 3416), (223, 3422),

Gene: Ghobes_2 Start: 1804, Stop: 3138, Start Num: 13

Candidate Starts for Ghobes_2:

(Start: 13 @1804 has 13 MA's), (29, 1846), (Start: 56 @1960 has 2 MA's), (58, 1969), (59, 1981), (60, 1990), (70, 2062), (88, 2152), (122, 2299), (130, 2359), (134, 2389), (141, 2449), (158, 2590), (162, 2605), (169, 2665), (171, 2683), (172, 2695), (173, 2698), (176, 2731), (185, 2782), (192, 2815), (200, 2851), (202, 2863), (204, 2887), (225, 3043),

Gene: Gillker_4 Start: 2659, Stop: 3786, Start Num: 30

Candidate Starts for Gillker_4:

(Start: 30 @2659 has 110 MA's), (50, 2728), (Start: 57 @2770 has 13 MA's), (60, 2794), (71, 2869), (85, 2941), (86, 2944), (87, 2950), (95, 2983), (106, 3019), (123, 3112), (124, 3115), (131, 3166), (140, 3244), (143, 3256), (149, 3298), (156, 3349), (168, 3430), (173, 3472), (184, 3553), (211, 3703),

Gene: Godfather_4 Start: 2776, Stop: 3798, Start Num: 56

Candidate Starts for Godfather_4:

(Start: 30 @2671 has 110 MA's), (50, 2740), (Start: 56 @2776 has 2 MA's), (Start: 57 @2782 has 13 MA's), (60, 2806), (71, 2881), (85, 2953), (86, 2956), (87, 2962), (95, 2995), (106, 3031), (123, 3124),

(124, 3127), (131, 3178), (140, 3256), (143, 3268), (149, 3310), (156, 3361), (168, 3442), (173, 3484), (184, 3565), (211, 3715),

Gene: Goib_9 Start: 5071, Stop: 6363, Start Num: 12

Candidate Starts for Goib_9:

(3, 4993), (Start: 12 @5071 has 8 MA's), (Start: 13 @5080 has 13 MA's), (47, 5176), (Start: 56 @5230 has 2 MA's), (82, 5386), (88, 5422), (99, 5461), (106, 5485), (115, 5533), (117, 5536), (122, 5566), (123, 5581), (124, 5584), (130, 5626), (150, 5782), (154, 5833), (158, 5854), (172, 5959), (175, 5971), (176, 5995), (186, 6049), (192, 6079), (193, 6085), (210, 6196), (224, 6280),

Gene: GoldenBlanche_4 Start: 2659, Stop: 3786, Start Num: 30

Candidate Starts for GoldenBlanche_4:

(Start: 30 @2659 has 110 MA's), (50, 2728), (Start: 57 @2770 has 13 MA's), (60, 2794), (71, 2869), (85, 2941), (86, 2944), (87, 2950), (95, 2983), (106, 3019), (123, 3112), (124, 3115), (131, 3166), (140, 3244), (143, 3256), (149, 3298), (156, 3349), (168, 3430), (173, 3472), (184, 3553), (211, 3703),

Gene: Goobery_4 Start: 2671, Stop: 3798, Start Num: 30

Candidate Starts for Goobery_4:

(Start: 30 @2671 has 110 MA's), (50, 2740), (Start: 57 @2782 has 13 MA's), (60, 2806), (71, 2881), (85, 2953), (86, 2956), (87, 2962), (95, 2995), (106, 3031), (123, 3124), (124, 3127), (131, 3178), (140, 3256), (143, 3268), (149, 3310), (156, 3361), (168, 3442), (173, 3484), (184, 3565), (211, 3715),

Gene: Gspu1_6 Start: 3629, Stop: 4933, Start Num: 13

Candidate Starts for Gspu1_6:

(Start: 12 @3623 has 8 MA's), (Start: 13 @3629 has 13 MA's), (41, 3707), (47, 3725), (53, 3767), (55, 3776), (62, 3815), (63, 3830), (65, 3857), (78, 3920), (84, 3950), (88, 3971), (89, 3974), (99, 4010), (120, 4109), (122, 4115), (123, 4130), (125, 4136), (138, 4244), (154, 4382), (169, 4478), (172, 4508), (174, 4517), (186, 4598), (187, 4613), (210, 4745), (216, 4778), (219, 4805), (221, 4811),

Gene: Gudmit_5 Start: 2938, Stop: 4251, Start Num: 14

Candidate Starts for Gudmit_5:

(Start: 14 @2938 has 51 MA's), (Start: 56 @3097 has 2 MA's), (69, 3196), (70, 3205), (72, 3208), (75, 3226), (79, 3247), (82, 3259), (99, 3325), (100, 3328), (104, 3343), (105, 3346), (106, 3349), (115, 3394), (123, 3436), (131, 3487), (132, 3496), (133, 3505), (134, 3508), (141, 3568), (152, 3673), (158, 3706), (170, 3790), (172, 3811), (173, 3814), (178, 3865), (186, 3901), (189, 3922), (208, 4039), (210, 4054), (223, 4132),

Gene: Gustav_3 Start: 2120, Stop: 3523, Start Num: 13

Candidate Starts for Gustav_3:

(Start: 13 @2120 has 13 MA's), (17, 2129), (37, 2192), (59, 2294), (82, 2429), (89, 2468), (92, 2477), (97, 2501), (114, 2576), (123, 2627), (127, 2654), (129, 2666), (130, 2672), (136, 2723), (158, 2903), (162, 2918), (166, 2948), (169, 2978), (172, 3008), (173, 3011), (178, 3062), (179, 3065), (194, 3137), (199, 3164), (205, 3215), (206, 3221),

Gene: Hanako_4 Start: 2263, Stop: 3552, Start Num: 14

Candidate Starts for Hanako_4:

(Start: 14 @2263 has 51 MA's), (25, 2299), (43, 2350), (49, 2356), (53, 2392), (Start: 56 @2404 has 2 MA's), (65, 2482), (81, 2557), (99, 2629), (102, 2638), (103, 2644), (105, 2650), (106, 2653), (123, 2740), (137, 2839), (139, 2854), (141, 2872), (158, 3010), (165, 3046), (172, 3115), (174, 3124), (178, 3169), (186, 3205), (192, 3235), (207, 3331), (210, 3358), (222, 3430),

Gene: HarperAnne_4 Start: 2758, Stop: 3774, Start Num: 57

Candidate Starts for HarperAnne_4:

(Start: 30 @2647 has 110 MA's), (50, 2716), (Start: 56 @2752 has 2 MA's), (Start: 57 @2758 has 13 MA's), (60, 2782), (71, 2857), (85, 2929), (86, 2932), (87, 2938), (95, 2971), (106, 3007), (123, 3100), (124, 3103), (131, 3154), (140, 3232), (143, 3244), (149, 3286), (156, 3337), (165, 3388), (168, 3418), (173, 3460), (180, 3526), (184, 3541), (211, 3691),

Gene: Heinz_4 Start: 2356, Stop: 3654, Start Num: 14

Candidate Starts for Heinz_4:

(Start: 14 @2356 has 51 MA's), (Start: 15 @2359 has 1 MA's), (20, 2383), (32, 2413), (53, 2485), (66, 2578), (70, 2602), (81, 2653), (82, 2656), (100, 2734), (105, 2752), (132, 2908), (141, 2980), (158, 3121), (161, 3130), (163, 3142), (165, 3157), (171, 3214), (172, 3226), (178, 3280), (179, 3283), (181, 3298), (186, 3316), (189, 3337), (210, 3463),

Gene: Hernandez44_4 Start: 2872, Stop: 3888, Start Num: 57

Candidate Starts for Hernandez44_4:

(Start: 30 @2761 has 110 MA's), (50, 2830), (Start: 57 @2872 has 13 MA's), (60, 2896), (71, 2971), (85, 3043), (86, 3046), (87, 3052), (95, 3085), (106, 3121), (123, 3214), (124, 3217), (131, 3268), (140, 3346), (143, 3358), (149, 3400), (156, 3451), (168, 3532), (173, 3574), (184, 3655), (211, 3805),

Gene: Hibiscus_4 Start: 2356, Stop: 3654, Start Num: 14

Candidate Starts for Hibiscus_4:

(Start: 14 @2356 has 51 MA's), (Start: 15 @2359 has 1 MA's), (20, 2383), (32, 2413), (53, 2485), (70, 2602), (100, 2734), (104, 2749), (105, 2752), (132, 2908), (141, 2980), (158, 3121), (161, 3130), (163, 3142), (165, 3157), (171, 3214), (172, 3226), (178, 3280), (179, 3283), (181, 3298), (186, 3316), (189, 3337), (210, 3463),

Gene: Horacetta_4 Start: 2659, Stop: 3786, Start Num: 30

Candidate Starts for Horacetta_4:

(Start: 30 @2659 has 110 MA's), (50, 2728), (Start: 57 @2770 has 13 MA's), (60, 2794), (71, 2869), (85, 2941), (86, 2944), (87, 2950), (95, 2983), (106, 3019), (123, 3112), (124, 3115), (131, 3166), (140, 3244), (143, 3256), (149, 3298), (156, 3349), (168, 3430), (173, 3472), (184, 3553), (211, 3703),

Gene: Huff_10 Start: 5301, Stop: 6593, Start Num: 12

Candidate Starts for Huff_10:

(3, 5223), (Start: 12 @5301 has 8 MA's), (Start: 13 @5310 has 13 MA's), (47, 5406), (Start: 56 @5460 has 2 MA's), (82, 5616), (88, 5652), (99, 5691), (106, 5715), (115, 5763), (117, 5766), (122, 5796), (123, 5811), (124, 5814), (130, 5856), (150, 6012), (158, 6084), (172, 6189), (175, 6201), (176, 6225), (186, 6279), (192, 6309), (193, 6315), (210, 6426),

Gene: Hulk_4 Start: 2782, Stop: 3798, Start Num: 57

Candidate Starts for Hulk_4:

(Start: 30 @2671 has 110 MA's), (50, 2740), (Start: 57 @2782 has 13 MA's), (60, 2806), (71, 2881), (85, 2953), (87, 2962), (95, 2995), (106, 3031), (123, 3124), (124, 3127), (131, 3178), (140, 3256), (143, 3268), (149, 3310), (155, 3358), (156, 3361), (165, 3412), (168, 3442), (173, 3484), (184, 3565), (211, 3715),

Gene: IzzyPants24_4 Start: 2698, Stop: 3825, Start Num: 30

Candidate Starts for IzzyPants24_4:

(Start: 30 @2698 has 110 MA's), (50, 2767), (Start: 56 @2803 has 2 MA's), (Start: 57 @2809 has 13 MA's), (60, 2833), (71, 2908), (85, 2980), (86, 2983), (87, 2989), (95, 3022), (106, 3058), (123, 3151), (124, 3154), (131, 3205), (140, 3283), (143, 3295), (149, 3337), (156, 3388), (168, 3469), (173, 3511), (180, 3577), (184, 3592), (211, 3742),

Gene: JRok_4 Start: 2656, Stop: 3783, Start Num: 30

Candidate Starts for JRok_4:

(23, 2641), (Start: 30 @2656 has 110 MA's), (50, 2725), (Start: 57 @2767 has 13 MA's), (60, 2791), (71, 2866), (85, 2938), (86, 2941), (87, 2947), (95, 2980), (106, 3016), (116, 3064), (123, 3109), (124, 3112), (131, 3163), (140, 3241), (143, 3253), (149, 3295), (155, 3343), (156, 3346), (165, 3397), (168, 3427), (173, 3469), (177, 3511), (184, 3550), (211, 3700),

Gene: Jahseh_4 Start: 2659, Stop: 3786, Start Num: 30

Candidate Starts for Jahseh_4:

(Start: 30 @2659 has 110 MA's), (50, 2728), (Start: 57 @2770 has 13 MA's), (60, 2794), (71, 2869), (85, 2941), (86, 2944), (87, 2950), (95, 2983), (106, 3019), (123, 3112), (124, 3115), (131, 3166), (140, 3244), (143, 3256), (149, 3298), (156, 3349), (168, 3430), (173, 3472), (184, 3553), (211, 3703),

Gene: JaimeB_4 Start: 2782, Stop: 3798, Start Num: 57

Candidate Starts for JaimeB_4:

(Start: 30 @2671 has 110 MA's), (50, 2740), (Start: 57 @2782 has 13 MA's), (60, 2806), (71, 2881), (85, 2953), (86, 2956), (87, 2962), (95, 2995), (106, 3031), (123, 3124), (124, 3127), (131, 3178), (140, 3256), (143, 3268), (149, 3310), (156, 3361), (168, 3442), (173, 3484), (184, 3565), (211, 3715),

Gene: Jamie19_4 Start: 2263, Stop: 3552, Start Num: 14

Candidate Starts for Jamie19_4:

(Start: 14 @2263 has 51 MA's), (25, 2299), (43, 2350), (49, 2356), (53, 2392), (Start: 56 @2404 has 2 MA's), (65, 2482), (81, 2557), (99, 2629), (102, 2638), (103, 2644), (105, 2650), (106, 2653), (123, 2740), (137, 2839), (139, 2854), (141, 2872), (158, 3010), (165, 3046), (172, 3115), (174, 3124), (178, 3169), (186, 3205), (192, 3235), (207, 3331), (210, 3358), (222, 3430),

Gene: Jannah_4 Start: 2659, Stop: 3786, Start Num: 30

Candidate Starts for Jannah_4:

(Start: 30 @2659 has 110 MA's), (50, 2728), (Start: 57 @2770 has 13 MA's), (60, 2794), (71, 2869), (85, 2941), (86, 2944), (87, 2950), (95, 2983), (106, 3019), (123, 3112), (124, 3115), (131, 3166), (140, 3244), (143, 3256), (149, 3298), (156, 3349), (168, 3430), (173, 3472), (184, 3553), (211, 3703),

Gene: Jerky_4 Start: 2740, Stop: 3867, Start Num: 30

Candidate Starts for Jerky_4:

(23, 2725), (Start: 30 @2740 has 110 MA's), (50, 2809), (Start: 57 @2851 has 13 MA's), (60, 2875), (71, 2950), (85, 3022), (86, 3025), (87, 3031), (95, 3064), (123, 3193), (124, 3196), (131, 3247), (140, 3325), (143, 3337), (149, 3379), (156, 3430), (165, 3481), (168, 3511), (173, 3553), (184, 3634), (211, 3784),

Gene: JoBros_4 Start: 2660, Stop: 3787, Start Num: 30

Candidate Starts for JoBros_4:

(Start: 30 @2660 has 110 MA's), (50, 2729), (Start: 57 @2771 has 13 MA's), (60, 2795), (71, 2870), (85, 2942), (86, 2945), (87, 2951), (95, 2984), (106, 3020), (123, 3113), (124, 3116), (131, 3167), (140, 3245), (143, 3257), (149, 3299), (156, 3350), (168, 3431), (173, 3473), (184, 3554), (211, 3704),

Gene: Jojo24_4 Start: 2354, Stop: 3649, Start Num: 15

Candidate Starts for Jojo24_4:

(Start: 14 @2351 has 51 MA's), (Start: 15 @2354 has 1 MA's), (20, 2378), (32, 2408), (53, 2480), (70, 2597), (100, 2729), (105, 2747), (132, 2903), (141, 2975), (158, 3116), (161, 3125), (163, 3137), (165, 3152), (171, 3209), (172, 3221), (178, 3275), (179, 3278), (181, 3293), (186, 3311), (189, 3332), (210, 3458),

Gene: JooneeDee_4 Start: 2689, Stop: 3816, Start Num: 30

Candidate Starts for JooneeDee_4:

(Start: 30 @2689 has 110 MA's), (50, 2758), (Start: 56 @2794 has 2 MA's), (Start: 57 @2800 has 13 MA's), (60, 2824), (71, 2899), (85, 2971), (86, 2974), (87, 2980), (95, 3013), (106, 3049), (123, 3142), (124, 3145), (131, 3196), (140, 3274), (143, 3286), (149, 3328), (156, 3379), (168, 3460), (173, 3502), (180, 3568), (184, 3583), (211, 3733),

Gene: Josuke_4 Start: 2671, Stop: 3798, Start Num: 30

Candidate Starts for Josuke_4:

(Start: 30 @2671 has 110 MA's), (50, 2740), (Start: 56 @2776 has 2 MA's), (Start: 57 @2782 has 13 MA's), (60, 2806), (71, 2881), (85, 2953), (86, 2956), (87, 2962), (95, 2995), (106, 3031), (123, 3124), (124, 3127), (131, 3178), (140, 3256), (143, 3268), (149, 3310), (156, 3361), (168, 3442), (173, 3484), (184, 3565), (211, 3715),

Gene: Journey_4 Start: 2249, Stop: 3538, Start Num: 14

Candidate Starts for Journey_4:

(Start: 14 @2249 has 51 MA's), (43, 2336), (49, 2342), (53, 2378), (Start: 56 @2390 has 2 MA's), (65, 2468), (81, 2543), (103, 2630), (137, 2825), (139, 2840), (146, 2882), (158, 2996), (172, 3101), (174, 3110), (178, 3155), (186, 3191), (192, 3221), (210, 3344), (222, 3416), (223, 3422),

Gene: Kaijohn_4 Start: 2665, Stop: 3792, Start Num: 30

Candidate Starts for Kaijohn_4:

(23, 2650), (Start: 30 @2665 has 110 MA's), (50, 2734), (Start: 56 @2770 has 2 MA's), (Start: 57 @2776 has 13 MA's), (60, 2800), (71, 2875), (85, 2947), (86, 2950), (87, 2956), (95, 2989), (106, 3025), (123, 3118), (124, 3121), (131, 3172), (140, 3250), (143, 3262), (149, 3304), (155, 3352), (156, 3355), (165, 3406), (168, 3436), (173, 3478), (184, 3559), (211, 3709),

Gene: KayPaulus_4 Start: 2656, Stop: 3783, Start Num: 30

Candidate Starts for KayPaulus_4:

(Start: 19 @2629 has 1 MA's), (Start: 30 @2656 has 110 MA's), (50, 2725), (Start: 56 @2761 has 2 MA's), (Start: 57 @2767 has 13 MA's), (60, 2791), (71, 2866), (85, 2938), (86, 2941), (87, 2947), (95, 2980), (106, 3016), (116, 3064), (123, 3109), (124, 3112), (131, 3163), (140, 3241), (143, 3253), (149, 3295), (156, 3346), (168, 3427), (173, 3469), (184, 3550), (211, 3700),

Gene: Kevanna_4 Start: 2656, Stop: 3783, Start Num: 30

Candidate Starts for Kevanna_4:

(Start: 19 @2629 has 1 MA's), (Start: 30 @2656 has 110 MA's), (50, 2725), (Start: 56 @2761 has 2 MA's), (Start: 57 @2767 has 13 MA's), (60, 2791), (71, 2866), (85, 2938), (86, 2941), (87, 2947), (95, 2980), (106, 3016), (123, 3109), (124, 3112), (131, 3163), (140, 3241), (143, 3253), (149, 3295), (156, 3346), (168, 3427), (173, 3469), (184, 3550), (211, 3700),

Gene: Kevin1_4 Start: 2249, Stop: 3535, Start Num: 14

Candidate Starts for Kevin1_4:

(Start: 14 @2249 has 51 MA's), (43, 2336), (49, 2342), (53, 2378), (Start: 56 @2390 has 2 MA's), (81, 2543), (99, 2615), (123, 2726), (124, 2729), (133, 2795), (134, 2798), (137, 2825), (139, 2840), (146, 2882), (158, 2996), (172, 3101), (178, 3155), (179, 3158), (186, 3191), (192, 3221), (210, 3344), (219, 3404),

Gene: Khuang_3 Start: 1991, Stop: 3505, Start Num: 11

Candidate Starts for Khuang_3:

(8, 1979), (9, 1982), (10, 1985), (11, 1991), (36, 2072), (40, 2090), (51, 2132), (55, 2162), (69, 2255), (82, 2318), (91, 2357), (107, 2411), (115, 2456), (151, 2708), (158, 2774), (166, 2819), (171, 2867), (172, 2879), (174, 2888), (176, 2915), (182, 2960), (186, 2969), (194, 3005), (206, 3086), (207, 3089), (217, 3158), (228, 3299), (229, 3323), (233, 3389), (235, 3446), (236, 3476), (237, 3479),

Gene: KillerTomato_4 Start: 2710, Stop: 3837, Start Num: 30

Candidate Starts for KillerTomato_4:

(Start: 19 @2683 has 1 MA's), (Start: 30 @2710 has 110 MA's), (50, 2779), (Start: 56 @2815 has 2 MA's), (Start: 57 @2821 has 13 MA's), (60, 2845), (71, 2920), (85, 2992), (86, 2995), (87, 3001), (95, 3034), (106, 3070), (116, 3118), (123, 3163), (124, 3166), (131, 3217), (140, 3295), (143, 3307), (149, 3349), (155, 3397), (156, 3400), (165, 3451), (168, 3481), (173, 3523), (184, 3604), (211, 3754),

Gene: Kojax4_4 Start: 2776, Stop: 3798, Start Num: 56

Candidate Starts for Kojax4_4:

(Start: 30 @2671 has 110 MA's), (50, 2740), (Start: 56 @2776 has 2 MA's), (Start: 57 @2782 has 13 MA's), (60, 2806), (71, 2881), (85, 2953), (86, 2956), (87, 2962), (95, 2995), (106, 3031), (123, 3124), (124, 3127), (131, 3178), (140, 3256), (143, 3268), (149, 3310), (156, 3361), (168, 3442), (173, 3484), (184, 3565), (211, 3715),

Gene: KyriosFaba_4 Start: 2659, Stop: 3786, Start Num: 30

Candidate Starts for KyriosFaba_4:

(Start: 30 @2659 has 110 MA's), (50, 2728), (Start: 57 @2770 has 13 MA's), (60, 2794), (71, 2869), (85, 2941), (86, 2944), (87, 2950), (95, 2983), (123, 3112), (124, 3115), (131, 3166), (140, 3244), (143, 3256), (149, 3298), (156, 3349), (168, 3430), (173, 3472), (184, 3553), (211, 3703),

Gene: LaviMo_4 Start: 2671, Stop: 3798, Start Num: 30

Candidate Starts for LaviMo_4:

(Start: 30 @2671 has 110 MA's), (50, 2740), (Start: 56 @2776 has 2 MA's), (Start: 57 @2782 has 13 MA's), (60, 2806), (71, 2881), (85, 2953), (86, 2956), (87, 2962), (95, 2995), (106, 3031), (123, 3124), (124, 3127), (131, 3178), (140, 3256), (143, 3268), (149, 3310), (156, 3361), (168, 3442), (173, 3484), (184, 3565), (211, 3715),

Gene: Leafy_4 Start: 2677, Stop: 3804, Start Num: 30

Candidate Starts for Leafy_4:

(Start: 19 @2650 has 1 MA's), (Start: 30 @2677 has 110 MA's), (50, 2746), (Start: 56 @2782 has 2 MA's), (Start: 57 @2788 has 13 MA's), (60, 2812), (71, 2887), (85, 2959), (86, 2962), (87, 2968), (95, 3001), (106, 3037), (123, 3130), (124, 3133), (131, 3184), (140, 3262), (143, 3274), (149, 3316), (155, 3364), (156, 3367), (165, 3418), (168, 3448), (173, 3490), (184, 3571), (211, 3721),

Gene: LemonPepper_4 Start: 2659, Stop: 3786, Start Num: 30

Candidate Starts for LemonPepper_4:

(Start: 30 @2659 has 110 MA's), (50, 2728), (Start: 57 @2770 has 13 MA's), (60, 2794), (71, 2869), (85, 2941), (86, 2944), (87, 2950), (95, 2983), (106, 3019), (123, 3112), (124, 3115), (131, 3166), (140, 3244), (143, 3256), (149, 3298), (156, 3349), (168, 3430), (173, 3472), (184, 3553), (211, 3703),

Gene: LionelHutz_4 Start: 2671, Stop: 3798, Start Num: 30

Candidate Starts for LionelHutz_4:

(Start: 30 @2671 has 110 MA's), (50, 2740), (Start: 57 @2782 has 13 MA's), (60, 2806), (71, 2881), (85, 2953), (86, 2956), (87, 2962), (95, 2995), (106, 3031), (123, 3124), (124, 3127), (131, 3178), (140, 3256), (143, 3268), (149, 3310), (156, 3361), (168, 3442), (173, 3484), (184, 3565), (211, 3715),

Gene: Livingwater_4 Start: 2656, Stop: 3783, Start Num: 30

Candidate Starts for Livingwater_4:

(Start: 19 @2629 has 1 MA's), (Start: 30 @2656 has 110 MA's), (50, 2725), (Start: 56 @2761 has 2 MA's), (Start: 57 @2767 has 13 MA's), (60, 2791), (71, 2866), (85, 2938), (86, 2941), (87, 2947), (95, 2980), (106, 3016), (116, 3064), (123, 3109), (124, 3112), (131, 3163), (140, 3241), (143, 3253), (149, 3295), (156, 3346), (168, 3427), (173, 3469), (184, 3550), (211, 3700),

Gene: Loca_4 Start: 2677, Stop: 3804, Start Num: 30

Candidate Starts for Loca_4:

(Start: 19 @2650 has 1 MA's), (Start: 30 @2677 has 110 MA's), (50, 2746), (Start: 56 @2782 has 2 MA's), (Start: 57 @2788 has 13 MA's), (60, 2812), (71, 2887), (85, 2959), (86, 2962), (87, 2968), (95, 3001), (106, 3037), (123, 3130), (124, 3133), (131, 3184), (140, 3262), (149, 3316), (155, 3364), (156, 3367), (165, 3418), (168, 3448), (173, 3490), (177, 3532), (184, 3571), (211, 3721),

Gene: Lola20_4 Start: 2656, Stop: 3783, Start Num: 30

Candidate Starts for Lola20_4:

(Start: 30 @2656 has 110 MA's), (50, 2725), (Start: 57 @2767 has 13 MA's), (60, 2791), (71, 2866), (85, 2938), (86, 2941), (87, 2947), (95, 2980), (106, 3016), (123, 3109), (124, 3112), (131, 3163), (140, 3241), (143, 3253), (149, 3295), (156, 3346), (168, 3427), (173, 3469), (184, 3550), (211, 3700),

Gene: Lton_4 Start: 2174, Stop: 3487, Start Num: 14

Candidate Starts for Lton_4:

(Start: 14 @2174 has 51 MA's), (20, 2201), (36, 2243), (43, 2264), (51, 2300), (53, 2321), (Start: 56 @2333 has 2 MA's), (69, 2432), (70, 2441), (72, 2444), (79, 2483), (82, 2495), (99, 2561), (100, 2564), (105, 2582), (106, 2585), (124, 2675), (133, 2741), (141, 2804), (158, 2942), (165, 2978), (171, 3035), (172, 3047), (173, 3050), (178, 3101), (186, 3137), (208, 3275), (210, 3290), (211, 3296), (223, 3368),

Gene: Lunatic_4 Start: 2647, Stop: 3774, Start Num: 30

Candidate Starts for Lunatic_4:

(Start: 30 @2647 has 110 MA's), (50, 2716), (Start: 56 @2752 has 2 MA's), (Start: 57 @2758 has 13 MA's), (60, 2782), (71, 2857), (85, 2929), (86, 2932), (87, 2938), (95, 2971), (106, 3007), (123, 3100), (124, 3103), (131, 3154), (140, 3232), (143, 3244), (149, 3286), (156, 3337), (168, 3418), (173, 3460), (180, 3526), (184, 3541), (211, 3691),

Gene: Luxx_4 Start: 2794, Stop: 3810, Start Num: 57

Candidate Starts for Luxx_4:

(Start: 19 @2656 has 1 MA's), (Start: 30 @2683 has 110 MA's), (50, 2752), (Start: 57 @2794 has 13 MA's), (60, 2818), (71, 2893), (85, 2965), (86, 2968), (87, 2974), (95, 3007), (106, 3043), (123, 3136), (124, 3139), (131, 3190), (140, 3268), (143, 3280), (149, 3322), (156, 3373), (168, 3454), (173, 3496), (184, 3577), (211, 3727),

Gene: Madebyisha_5 Start: 2851, Stop: 3867, Start Num: 57

Candidate Starts for Madebyisha_5:

(23, 2725), (Start: 30 @2740 has 110 MA's), (50, 2809), (Start: 57 @2851 has 13 MA's), (60, 2875), (71, 2950), (85, 3022), (86, 3025), (87, 3031), (95, 3064), (123, 3193), (124, 3196), (131, 3247), (140, 3325), (143, 3337), (149, 3379), (156, 3430), (165, 3481), (168, 3511), (173, 3553), (184, 3634), (211, 3784),

Gene: Magsby_4 Start: 2249, Stop: 3538, Start Num: 14

Candidate Starts for Magsby_4:

(Start: 14 @2249 has 51 MA's), (43, 2336), (49, 2342), (53, 2378), (Start: 56 @2390 has 2 MA's), (65, 2468), (81, 2543), (103, 2630), (137, 2825), (139, 2840), (146, 2882), (158, 2996), (172, 3101), (174, 3110), (178, 3155), (186, 3191), (192, 3221), (210, 3344), (222, 3416), (223, 3422),

Gene: Mahdia_3 Start: 2134, Stop: 3525, Start Num: 13

Candidate Starts for Mahdia_3:

(Start: 13 @2134 has 13 MA's), (17, 2143), (37, 2206), (59, 2308), (82, 2443), (91, 2488), (95, 2509), (98, 2518), (108, 2554), (110, 2563), (114, 2590), (158, 2917), (162, 2932), (169, 2992), (172, 3022), (175, 3034), (178, 3076), (179, 3079), (189, 3133), (193, 3148), (199, 3178), (206, 3235), (208, 3250), (210, 3265), (217, 3307), (231, 3463),

Gene: Majesty_4 Start: 2671, Stop: 3798, Start Num: 30

Candidate Starts for Majesty_4:

(Start: 30 @2671 has 110 MA's), (50, 2740), (Start: 57 @2782 has 13 MA's), (60, 2806), (71, 2881), (85, 2953), (86, 2956), (87, 2962), (95, 2995), (106, 3031), (123, 3124), (124, 3127), (131, 3178), (140, 3256), (143, 3268), (149, 3310), (156, 3361), (168, 3442), (173, 3484), (184, 3565), (211, 3715),

Gene: ManAs_4 Start: 2659, Stop: 3786, Start Num: 30

Candidate Starts for ManAs_4:

(Start: 30 @2659 has 110 MA's), (50, 2728), (Start: 57 @2770 has 13 MA's), (60, 2794), (71, 2869), (85, 2941), (86, 2944), (87, 2950), (95, 2983), (106, 3019), (123, 3112), (124, 3115), (131, 3166), (140, 3244), (143, 3256), (149, 3298), (156, 3349), (168, 3430), (173, 3472), (184, 3553), (211, 3703),

Gene: Maneater_4 Start: 2758, Stop: 3774, Start Num: 57

Candidate Starts for Maneater_4:

(Start: 30 @2647 has 110 MA's), (50, 2716), (Start: 57 @2758 has 13 MA's), (60, 2782), (71, 2857), (85, 2929), (86, 2932), (87, 2938), (95, 2971), (106, 3007), (123, 3100), (124, 3103), (131, 3154), (140, 3232), (143, 3244), (149, 3286), (156, 3337), (165, 3388), (168, 3418), (173, 3460), (184, 3541), (211, 3691),

Gene: MasterPitts_4 Start: 2671, Stop: 3798, Start Num: 30

Candidate Starts for MasterPitts_4:

(Start: 30 @2671 has 110 MA's), (50, 2740), (Start: 56 @2776 has 2 MA's), (Start: 57 @2782 has 13 MA's), (60, 2806), (71, 2881), (85, 2953), (86, 2956), (87, 2962), (95, 2995), (106, 3031), (123, 3124), (124, 3127), (131, 3178), (140, 3256), (143, 3268), (149, 3310), (156, 3361), (168, 3442), (173, 3484), (184, 3565), (211, 3715),

Gene: McShie_4 Start: 2656, Stop: 3783, Start Num: 30

Candidate Starts for McShie_4:

(23, 2641), (Start: 30 @2656 has 110 MA's), (50, 2725), (Start: 57 @2767 has 13 MA's), (60, 2791), (71, 2866), (85, 2938), (86, 2941), (87, 2947), (95, 2980), (106, 3016), (116, 3064), (123, 3109), (124, 3112), (131, 3163), (140, 3241), (143, 3253), (149, 3295), (155, 3343), (156, 3346), (168, 3427), (173, 3469), (177, 3511), (184, 3550), (211, 3700),

Gene: MelBee03_4 Start: 2656, Stop: 3783, Start Num: 30

Candidate Starts for MelBee03_4:

(Start: 19 @2629 has 1 MA's), (Start: 30 @2656 has 110 MA's), (50, 2725), (Start: 56 @2761 has 2 MA's), (Start: 57 @2767 has 13 MA's), (60, 2791), (71, 2866), (85, 2938), (86, 2941), (87, 2947), (95, 2980), (106, 3016), (123, 3109), (124, 3112), (131, 3163), (140, 3241), (143, 3253), (149, 3295), (156, 3346), (168, 3427), (173, 3469), (184, 3550), (211, 3700),

Gene: Melville_4 Start: 2249, Stop: 3538, Start Num: 14

Candidate Starts for Melville_4:

(Start: 14 @2249 has 51 MA's), (43, 2336), (49, 2342), (53, 2378), (Start: 56 @2390 has 2 MA's), (65, 2468), (81, 2543), (103, 2630), (137, 2825), (139, 2840), (146, 2882), (158, 2996), (172, 3101), (174, 3110), (178, 3155), (186, 3191), (192, 3221), (210, 3344), (222, 3416), (223, 3422),

Gene: Miaurora_4 Start: 2764, Stop: 3891, Start Num: 30

Candidate Starts for Miaurora_4:

(Start: 30 @2764 has 110 MA's), (50, 2833), (Start: 56 @2869 has 2 MA's), (Start: 57 @2875 has 13 MA's), (60, 2899), (71, 2974), (85, 3046), (86, 3049), (87, 3055), (95, 3088), (106, 3124), (123, 3217), (124, 3220), (131, 3271), (140, 3349), (143, 3361), (149, 3403), (156, 3454), (168, 3535), (173, 3577), (180, 3643), (184, 3658), (211, 3808),

Gene: MichelleMyBell_4 Start: 2263, Stop: 3549, Start Num: 14

Candidate Starts for MichelleMyBell_4:

(Start: 14 @2263 has 51 MA's), (43, 2350), (49, 2356), (53, 2392), (Start: 56 @2404 has 2 MA's), (81, 2557), (99, 2629), (123, 2740), (133, 2809), (134, 2812), (137, 2839), (139, 2854), (146, 2896), (158, 3010), (172, 3115), (178, 3169), (186, 3205), (192, 3235), (210, 3358), (219, 3418),

Gene: Minima_4 Start: 2659, Stop: 3786, Start Num: 30

Candidate Starts for Minima_4:

(Start: 30 @2659 has 110 MA's), (50, 2728), (Start: 57 @2770 has 13 MA's), (60, 2794), (71, 2869), (85, 2941), (86, 2944), (87, 2950), (95, 2983), (106, 3019), (123, 3112), (124, 3115), (131, 3166), (140, 3244), (143, 3256), (149, 3298), (156, 3349), (168, 3430), (173, 3472), (184, 3553), (211, 3703),

Gene: MirimarMandM_4 Start: 2689, Stop: 3858, Start Num: 30

Candidate Starts for MirimarMandM_4:

(Start: 30 @2689 has 110 MA's), (50, 2758), (Start: 56 @2794 has 2 MA's), (Start: 57 @2800 has 13 MA's), (60, 2824), (71, 2899), (85, 2971), (86, 2974), (87, 2980), (95, 3013), (106, 3049), (123, 3142), (124, 3145), (131, 3196), (140, 3274), (143, 3286), (149, 3328), (156, 3379), (168, 3460), (173, 3502), (180, 3568), (184, 3583), (210, 3727), (211, 3733),

Gene: Moosehead_4 Start: 2170, Stop: 3477, Start Num: 14

Candidate Starts for Moosehead_4:

(Start: 14 @2170 has 51 MA's), (Start: 15 @2173 has 1 MA's), (31, 2221), (32, 2227), (39, 2248), (42, 2260), (43, 2263), (Start: 56 @2332 has 2 MA's), (79, 2476), (82, 2488), (90, 2530), (99, 2554), (105, 2575), (112, 2614), (115, 2623), (123, 2665), (131, 2716), (133, 2734), (141, 2797), (153, 2905), (158, 2935), (170, 3019), (171, 3028), (172, 3040), (178, 3094), (183, 3124), (186, 3130), (203, 3223), (210, 3283),

Gene: Morrissey_3 Start: 2106, Stop: 3524, Start Num: 13

Candidate Starts for Morrissey_3:

(Start: 13 @2106 has 13 MA's), (16, 2112), (17, 2115), (32, 2163), (45, 2202), (53, 2250), (62, 2298), (89, 2457), (91, 2463), (106, 2520), (111, 2553), (114, 2565), (118, 2586), (127, 2643), (136, 2712), (158, 2892), (162, 2907), (166, 2937), (169, 2967), (172, 2997), (173, 3000), (178, 3051), (179, 3054), (194, 3126), (206, 3210), (208, 3225), (215, 3267), (217, 3282),

Gene: MrGreen_4 Start: 2677, Stop: 3804, Start Num: 30

Candidate Starts for MrGreen_4:

(Start: 19 @2650 has 1 MA's), (Start: 30 @2677 has 110 MA's), (50, 2746), (Start: 56 @2782 has 2 MA's), (Start: 57 @2788 has 13 MA's), (60, 2812), (71, 2887), (85, 2959), (86, 2962), (87, 2968), (95, 3001), (106, 3037), (123, 3130), (124, 3133), (131, 3184), (140, 3262), (143, 3274), (149, 3316), (155, 3364), (156, 3367), (165, 3418), (168, 3448), (173, 3490), (184, 3571), (211, 3721),

Gene: Myram_4 Start: 2770, Stop: 3786, Start Num: 57

Candidate Starts for Myram_4:

(Start: 30 @2659 has 110 MA's), (50, 2728), (Start: 57 @2770 has 13 MA's), (60, 2794), (71, 2869), (85, 2941), (86, 2944), (87, 2950), (95, 2983), (106, 3019), (123, 3112), (124, 3115), (131, 3166), (140, 3244), (143, 3256), (149, 3298), (156, 3349), (168, 3430), (173, 3472), (184, 3553), (211, 3703),

Gene: Naby_4 Start: 2373, Stop: 3533, Start Num: 30

Candidate Starts for Naby_4:

(22, 2355), (27, 2364), (Start: 30 @2373 has 110 MA's), (Start: 57 @2484 has 13 MA's), (60, 2508), (73, 2586), (85, 2655), (87, 2664), (95, 2697), (116, 2781), (124, 2829), (140, 2958), (143, 2970), (147, 3003), (154, 3057), (156, 3063), (165, 3114), (173, 3186), (180, 3252), (184, 3267), (210, 3411), (211,

3417),

Gene: Namsahir_4 Start: 2680, Stop: 3846, Start Num: 30

Candidate Starts for Namsahir_4:

(Start: 30 @2680 has 110 MA's), (50, 2749), (Start: 56 @2785 has 2 MA's), (Start: 57 @2791 has 13 MA's), (60, 2815), (71, 2890), (85, 2962), (86, 2965), (87, 2971), (95, 3004), (106, 3040), (123, 3133), (124, 3136), (131, 3187), (140, 3265), (143, 3277), (149, 3319), (156, 3370), (168, 3451), (173, 3493), (180, 3559), (184, 3574), (210, 3718), (211, 3724),

Gene: Nенаe_4 Start: 2263, Stop: 3552, Start Num: 14

Candidate Starts for Nенаe_4:

(Start: 14 @2263 has 51 MA's), (25, 2299), (43, 2350), (49, 2356), (53, 2392), (Start: 56 @2404 has 2 MA's), (65, 2482), (81, 2557), (99, 2629), (102, 2638), (103, 2644), (105, 2650), (106, 2653), (123, 2740), (137, 2839), (139, 2854), (141, 2872), (158, 3010), (165, 3046), (172, 3115), (174, 3124), (178, 3169), (186, 3205), (192, 3235), (207, 3331), (210, 3358), (222, 3430),

Gene: NeumannU_4 Start: 2671, Stop: 3798, Start Num: 30

Candidate Starts for NeumannU_4:

(Start: 30 @2671 has 110 MA's), (50, 2740), (Start: 57 @2782 has 13 MA's), (60, 2806), (71, 2881), (85, 2953), (86, 2956), (87, 2962), (95, 2995), (106, 3031), (123, 3124), (124, 3127), (131, 3178), (140, 3256), (143, 3268), (149, 3310), (156, 3361), (168, 3442), (173, 3484), (184, 3565), (211, 3715),

Gene: Niffler_4 Start: 2737, Stop: 3864, Start Num: 30

Candidate Starts for Niffler_4:

(Start: 30 @2737 has 110 MA's), (50, 2806), (Start: 56 @2842 has 2 MA's), (Start: 57 @2848 has 13 MA's), (60, 2872), (71, 2947), (85, 3019), (86, 3022), (87, 3028), (95, 3061), (106, 3097), (123, 3190), (124, 3193), (131, 3244), (140, 3322), (143, 3334), (149, 3376), (156, 3427), (168, 3508), (173, 3550), (180, 3616), (184, 3631), (211, 3781),

Gene: Nobel_4 Start: 2764, Stop: 3891, Start Num: 30

Candidate Starts for Nobel_4:

(Start: 30 @2764 has 110 MA's), (50, 2833), (Start: 56 @2869 has 2 MA's), (Start: 57 @2875 has 13 MA's), (60, 2899), (71, 2974), (85, 3046), (86, 3049), (87, 3055), (95, 3088), (106, 3124), (123, 3217), (124, 3220), (131, 3271), (140, 3349), (143, 3361), (149, 3403), (156, 3454), (168, 3535), (173, 3577), (180, 3643), (184, 3658), (211, 3808),

Gene: Noelani_4 Start: 2647, Stop: 3774, Start Num: 30

Candidate Starts for Noelani_4:

(Start: 30 @2647 has 110 MA's), (50, 2716), (Start: 56 @2752 has 2 MA's), (Start: 57 @2758 has 13 MA's), (60, 2782), (71, 2857), (85, 2929), (86, 2932), (87, 2938), (95, 2971), (106, 3007), (123, 3100), (124, 3103), (131, 3154), (140, 3232), (143, 3244), (149, 3286), (156, 3337), (165, 3388), (168, 3418), (173, 3460), (180, 3526), (184, 3541), (211, 3691),

Gene: Oaklynn_4 Start: 2770, Stop: 3786, Start Num: 57

Candidate Starts for Oaklynn_4:

(23, 2644), (Start: 30 @2659 has 110 MA's), (50, 2728), (Start: 57 @2770 has 13 MA's), (60, 2794), (71, 2869), (85, 2941), (86, 2944), (87, 2950), (95, 2983), (106, 3019), (116, 3067), (123, 3112), (124, 3115), (131, 3166), (140, 3244), (143, 3256), (149, 3298), (155, 3346), (156, 3349), (165, 3400), (168, 3430), (173, 3472), (177, 3514), (184, 3553), (211, 3703),

Gene: Octopus_4 Start: 2659, Stop: 3786, Start Num: 30

Candidate Starts for Octopus_4:

(Start: 30 @2659 has 110 MA's), (50, 2728), (Start: 57 @2770 has 13 MA's), (60, 2794), (71, 2869), (85, 2941), (86, 2944), (87, 2950), (95, 2983), (106, 3019), (123, 3112), (124, 3115), (131, 3166), (140, 3244), (143, 3256), (149, 3298), (156, 3349), (168, 3430), (173, 3472), (184, 3553), (211, 3703),

Gene: OneDirection_4 Start: 2171, Stop: 3472, Start Num: 14

Candidate Starts for OneDirection_4:

(Start: 14 @2171 has 51 MA's), (Start: 15 @2174 has 1 MA's), (20, 2198), (31, 2222), (32, 2228), (39, 2249), (42, 2261), (43, 2264), (51, 2300), (Start: 56 @2333 has 2 MA's), (69, 2426), (72, 2438), (79, 2477), (82, 2489), (90, 2531), (99, 2555), (100, 2558), (106, 2579), (112, 2615), (115, 2624), (131, 2717), (133, 2735), (141, 2798), (153, 2906), (158, 2936), (159, 2939), (165, 2972), (170, 3020), (171, 3029), (172, 3041), (173, 3044), (178, 3095), (186, 3131), (189, 3152), (203, 3224), (210, 3284),

Gene: Otwor_4 Start: 2671, Stop: 3798, Start Num: 30

Candidate Starts for Otwor_4:

(Start: 30 @2671 has 110 MA's), (50, 2740), (Start: 56 @2776 has 2 MA's), (Start: 57 @2782 has 13 MA's), (60, 2806), (71, 2881), (85, 2953), (86, 2956), (87, 2962), (95, 2995), (106, 3031), (123, 3124), (124, 3127), (131, 3178), (140, 3256), (143, 3268), (149, 3310), (156, 3361), (168, 3442), (173, 3484), (184, 3565), (211, 3715),

Gene: Owens_4 Start: 2671, Stop: 3798, Start Num: 30

Candidate Starts for Owens_4:

(Start: 30 @2671 has 110 MA's), (50, 2740), (Start: 57 @2782 has 13 MA's), (60, 2806), (71, 2881), (85, 2953), (86, 2956), (87, 2962), (95, 2995), (106, 3031), (123, 3124), (124, 3127), (131, 3178), (140, 3256), (143, 3268), (149, 3310), (156, 3361), (168, 3442), (173, 3484), (184, 3565), (211, 3715),

Gene: Panchino_4 Start: 2263, Stop: 3552, Start Num: 14

Candidate Starts for Panchino_4:

(Start: 14 @2263 has 51 MA's), (25, 2299), (43, 2350), (49, 2356), (53, 2392), (Start: 56 @2404 has 2 MA's), (65, 2482), (81, 2557), (99, 2629), (102, 2638), (103, 2644), (105, 2650), (106, 2653), (123, 2740), (137, 2839), (139, 2854), (141, 2872), (158, 3010), (165, 3046), (172, 3115), (174, 3124), (178, 3169), (186, 3205), (192, 3235), (207, 3331), (210, 3358), (222, 3430),

Gene: PaoPu_4 Start: 2659, Stop: 3786, Start Num: 30

Candidate Starts for PaoPu_4:

(Start: 30 @2659 has 110 MA's), (50, 2728), (Start: 57 @2770 has 13 MA's), (60, 2794), (71, 2869), (85, 2941), (86, 2944), (87, 2950), (95, 2983), (106, 3019), (123, 3112), (124, 3115), (131, 3166), (140, 3244), (143, 3256), (149, 3298), (156, 3349), (168, 3430), (173, 3472), (184, 3553), (211, 3703),

Gene: Parmesanjohn_4 Start: 2249, Stop: 3538, Start Num: 14

Candidate Starts for Parmesanjohn_4:

(Start: 14 @2249 has 51 MA's), (43, 2336), (49, 2342), (53, 2378), (Start: 56 @2390 has 2 MA's), (65, 2468), (81, 2543), (103, 2630), (137, 2825), (139, 2840), (146, 2882), (158, 2996), (172, 3101), (174, 3110), (178, 3155), (186, 3191), (192, 3221), (210, 3344), (222, 3416), (223, 3422),

Gene: Pepperoni_4 Start: 2468, Stop: 3781, Start Num: 14

Candidate Starts for Pepperoni_4:

(Start: 14 @2468 has 51 MA's), (20, 2495), (36, 2537), (42, 2555), (43, 2558), (51, 2594), (53, 2615), (Start: 56 @2627 has 2 MA's), (69, 2726), (70, 2735), (72, 2738), (78, 2774), (79, 2777), (82, 2789), (99, 2855), (100, 2858), (105, 2876), (106, 2879), (124, 2969), (133, 3035), (141, 3098), (156, 3221), (158, 3236), (171, 3329), (172, 3341), (173, 3344), (178, 3395), (183, 3425), (186, 3431), (208, 3569), (210, 3584), (211, 3590), (223, 3662),

Gene: PhancyPhin_4 Start: 2263, Stop: 3552, Start Num: 14

Candidate Starts for PhancyPhin_4:

(Start: 14 @2263 has 51 MA's), (25, 2299), (43, 2350), (49, 2356), (53, 2392), (Start: 56 @2404 has 2 MA's), (65, 2482), (81, 2557), (99, 2629), (102, 2638), (103, 2644), (105, 2650), (106, 2653), (123, 2740), (137, 2839), (139, 2854), (141, 2872), (158, 3010), (165, 3046), (172, 3115), (174, 3124), (178, 3169), (186, 3205), (192, 3235), (207, 3331), (210, 3358), (222, 3430),

Gene: Philonius_4 Start: 2249, Stop: 3538, Start Num: 14

Candidate Starts for Philonius_4:

(Start: 14 @2249 has 51 MA's), (43, 2336), (49, 2342), (53, 2378), (Start: 56 @2390 has 2 MA's), (65, 2468), (81, 2543), (103, 2630), (137, 2825), (139, 2840), (146, 2882), (158, 2996), (172, 3101), (174, 3110), (178, 3155), (186, 3191), (192, 3221), (210, 3344), (222, 3416), (223, 3422),

Gene: Phloss_4 Start: 2249, Stop: 3538, Start Num: 14

Candidate Starts for Phloss_4:

(Start: 14 @2249 has 51 MA's), (43, 2336), (49, 2342), (53, 2378), (Start: 56 @2390 has 2 MA's), (65, 2468), (81, 2543), (103, 2630), (123, 2726), (137, 2825), (139, 2840), (146, 2882), (158, 2996), (172, 3101), (174, 3110), (178, 3155), (186, 3191), (192, 3221), (210, 3344), (222, 3416), (223, 3422),

Gene: Phrann_4 Start: 2263, Stop: 3552, Start Num: 14

Candidate Starts for Phrann_4:

(Start: 14 @2263 has 51 MA's), (25, 2299), (43, 2350), (49, 2356), (53, 2392), (Start: 56 @2404 has 2 MA's), (65, 2482), (81, 2557), (99, 2629), (102, 2638), (103, 2644), (105, 2650), (106, 2653), (123, 2740), (137, 2839), (139, 2854), (141, 2872), (158, 3010), (165, 3046), (172, 3115), (174, 3124), (178, 3169), (186, 3205), (192, 3235), (207, 3331), (210, 3358), (222, 3430),

Gene: Picnic_4 Start: 2659, Stop: 3786, Start Num: 30

Candidate Starts for Picnic_4:

(Start: 30 @2659 has 110 MA's), (50, 2728), (Start: 57 @2770 has 13 MA's), (60, 2794), (71, 2869), (85, 2941), (86, 2944), (87, 2950), (95, 2983), (106, 3019), (123, 3112), (124, 3115), (131, 3166), (140, 3244), (143, 3256), (149, 3298), (156, 3349), (168, 3430), (173, 3472), (184, 3553), (211, 3703),

Gene: Pipsqueaks_4 Start: 2249, Stop: 3538, Start Num: 14

Candidate Starts for Pipsqueaks_4:

(Start: 14 @2249 has 51 MA's), (43, 2336), (49, 2342), (53, 2378), (Start: 56 @2390 has 2 MA's), (65, 2468), (81, 2543), (103, 2630), (137, 2825), (139, 2840), (146, 2882), (158, 2996), (172, 3101), (174, 3110), (178, 3155), (186, 3191), (192, 3221), (210, 3344), (222, 3416), (223, 3422),

Gene: PoRanda_4 Start: 2689, Stop: 3858, Start Num: 30

Candidate Starts for PoRanda_4:

(Start: 30 @2689 has 110 MA's), (50, 2758), (Start: 56 @2794 has 2 MA's), (Start: 57 @2800 has 13 MA's), (60, 2824), (71, 2899), (85, 2971), (86, 2974), (87, 2980), (95, 3013), (106, 3049), (123, 3142), (124, 3145), (131, 3196), (140, 3274), (143, 3286), (149, 3328), (156, 3379), (168, 3460), (173, 3502), (180, 3568), (184, 3583), (210, 3727), (211, 3733),

Gene: Pondwater_4 Start: 2659, Stop: 3786, Start Num: 30

Candidate Starts for Pondwater_4:

(Start: 30 @2659 has 110 MA's), (50, 2728), (Start: 57 @2770 has 13 MA's), (60, 2794), (71, 2869), (85, 2941), (86, 2944), (87, 2950), (95, 2983), (106, 3019), (123, 3112), (124, 3115), (131, 3166), (140, 3244), (143, 3256), (149, 3298), (156, 3349), (168, 3430), (173, 3472), (184, 3553), (211, 3703),

Gene: Publix_4 Start: 2680, Stop: 3846, Start Num: 30

Candidate Starts for Publix_4:

(Start: 30 @2680 has 110 MA's), (50, 2749), (Start: 56 @2785 has 2 MA's), (Start: 57 @2791 has 13 MA's), (60, 2815), (71, 2890), (85, 2962), (86, 2965), (87, 2971), (95, 3004), (106, 3040), (123, 3133), (124, 3136), (131, 3187), (140, 3265), (143, 3277), (149, 3319), (156, 3370), (168, 3451), (173, 3493), (180, 3559), (184, 3574), (210, 3718), (211, 3724),

Gene: Puddles3_4 Start: 2659, Stop: 3786, Start Num: 30

Candidate Starts for Puddles3_4:

(Start: 30 @2659 has 110 MA's), (50, 2728), (Start: 57 @2770 has 13 MA's), (60, 2794), (71, 2869), (85, 2941), (86, 2944), (87, 2950), (95, 2983), (106, 3019), (123, 3112), (124, 3115), (131, 3166), (140, 3244), (143, 3256), (149, 3298), (156, 3349), (168, 3430), (173, 3472), (184, 3553), (211, 3703),

Gene: PuffyCat_4 Start: 2689, Stop: 3816, Start Num: 30

Candidate Starts for PuffyCat_4:

(Start: 30 @2689 has 110 MA's), (50, 2758), (Start: 56 @2794 has 2 MA's), (Start: 57 @2800 has 13 MA's), (60, 2824), (71, 2899), (85, 2971), (86, 2974), (87, 2980), (95, 3013), (106, 3049), (123, 3142), (124, 3145), (131, 3196), (140, 3274), (143, 3286), (149, 3328), (156, 3379), (168, 3460), (173, 3502), (180, 3568), (184, 3583), (211, 3733),

Gene: Puppies_3 Start: 2078, Stop: 3436, Start Num: 13

Candidate Starts for Puppies_3:

(Start: 13 @2078 has 13 MA's), (17, 2087), (32, 2135), (58, 2243), (72, 2339), (87, 2423), (97, 2462), (121, 2570), (123, 2588), (127, 2615), (131, 2642), (136, 2684), (146, 2747), (158, 2864), (166, 2909), (169, 2939), (172, 2969), (178, 3023), (188, 3077), (210, 3212), (215, 3239),

Gene: Purgamenstris_4 Start: 2263, Stop: 3552, Start Num: 14

Candidate Starts for Purgamenstris_4:

(Start: 14 @2263 has 51 MA's), (25, 2299), (43, 2350), (49, 2356), (53, 2392), (Start: 56 @2404 has 2 MA's), (65, 2482), (81, 2557), (102, 2638), (103, 2644), (105, 2650), (106, 2653), (123, 2740), (137, 2839), (139, 2854), (141, 2872), (158, 3010), (165, 3046), (172, 3115), (174, 3124), (178, 3169), (186, 3205), (192, 3235), (207, 3331), (210, 3358), (222, 3430),

Gene: Quaker_4 Start: 2656, Stop: 3783, Start Num: 30

Candidate Starts for Quaker_4:

(Start: 19 @2629 has 1 MA's), (Start: 30 @2656 has 110 MA's), (50, 2725), (Start: 56 @2761 has 2 MA's), (Start: 57 @2767 has 13 MA's), (60, 2791), (71, 2866), (85, 2938), (86, 2941), (87, 2947), (95, 2980), (106, 3016), (116, 3064), (123, 3109), (124, 3112), (131, 3163), (140, 3241), (143, 3253), (149, 3295), (156, 3346), (168, 3427), (173, 3469), (184, 3550), (211, 3700),

Gene: Raymond7_4 Start: 2263, Stop: 3552, Start Num: 14

Candidate Starts for Raymond7_4:

(Start: 14 @2263 has 51 MA's), (25, 2299), (43, 2350), (49, 2356), (53, 2392), (Start: 56 @2404 has 2 MA's), (65, 2482), (81, 2557), (99, 2629), (102, 2638), (103, 2644), (105, 2650), (106, 2653), (123, 2740), (137, 2839), (139, 2854), (141, 2872), (158, 3010), (165, 3046), (172, 3115), (174, 3124), (178, 3169), (186, 3205), (192, 3235), (207, 3331), (210, 3358), (222, 3430),

Gene: Rebel_4 Start: 2263, Stop: 3552, Start Num: 14

Candidate Starts for Rebel_4:

(Start: 14 @2263 has 51 MA's), (25, 2299), (43, 2350), (49, 2356), (53, 2392), (Start: 56 @2404 has 2 MA's), (65, 2482), (81, 2557), (99, 2629), (102, 2638), (103, 2644), (105, 2650), (106, 2653), (123, 2740), (137, 2839), (139, 2854), (141, 2872), (158, 3010), (165, 3046), (172, 3115), (174, 3124), (178, 3169), (186, 3205), (192, 3235), (207, 3331), (210, 3358), (222, 3430),

Gene: Redi_4 Start: 2263, Stop: 3552, Start Num: 14

Candidate Starts for Redi_4:

(Start: 14 @2263 has 51 MA's), (25, 2299), (43, 2350), (49, 2356), (53, 2392), (Start: 56 @2404 has 2 MA's), (65, 2482), (81, 2557), (99, 2629), (102, 2638), (103, 2644), (105, 2650), (106, 2653), (123, 2740), (137, 2839), (139, 2854), (141, 2872), (158, 3010), (165, 3046), (172, 3115), (174, 3124), (178, 3169), (186, 3205), (192, 3235), (207, 3331), (210, 3358), (222, 3430),

Gene: Reyja_5 Start: 2467, Stop: 3768, Start Num: 14

Candidate Starts for Reyja_5:

(Start: 14 @2467 has 51 MA's), (Start: 15 @2470 has 1 MA's), (20, 2494), (32, 2524), (53, 2596), (66, 2689), (70, 2713), (100, 2845), (104, 2860), (105, 2863), (132, 3019), (141, 3091), (158, 3232), (161, 3241), (163, 3253), (165, 3268), (171, 3325), (172, 3337), (178, 3391), (179, 3394), (181, 3409), (186, 3427), (189, 3448), (210, 3574),

Gene: Rhogar_4 Start: 2782, Stop: 3798, Start Num: 57

Candidate Starts for Rhogar_4:

(Start: 30 @2671 has 110 MA's), (50, 2740), (Start: 57 @2782 has 13 MA's), (60, 2806), (71, 2881), (85, 2953), (86, 2956), (87, 2962), (95, 2995), (106, 3031), (123, 3124), (124, 3127), (131, 3178), (140, 3256), (143, 3268), (149, 3310), (156, 3361), (168, 3442), (173, 3484), (184, 3565), (211, 3715),

Gene: Rhysand_4 Start: 2671, Stop: 3798, Start Num: 30

Candidate Starts for Rhysand_4:

(Start: 30 @2671 has 110 MA's), (50, 2740), (Start: 56 @2776 has 2 MA's), (Start: 57 @2782 has 13 MA's), (60, 2806), (71, 2881), (85, 2953), (86, 2956), (87, 2962), (95, 2995), (106, 3031), (123, 3124), (124, 3127), (131, 3178), (140, 3256), (143, 3268), (149, 3310), (156, 3361), (168, 3442), (173, 3484), (184, 3565), (211, 3715),

Gene: RootBeer_4 Start: 2459, Stop: 3739, Start Num: 6

Candidate Starts for RootBeer_4:

(2, 2339), (Start: 6 @2459 has 1 MA's), (Start: 7 @2462 has 1 MA's), (44, 2582), (51, 2615), (Start: 56 @2648 has 2 MA's), (83, 2816), (100, 2879), (124, 2993), (131, 3044), (141, 3125), (158, 3251), (178, 3410), (201, 3515), (206, 3563), (208, 3578), (210, 3593),

Gene: RoscoWindex_4 Start: 2671, Stop: 3798, Start Num: 30

Candidate Starts for RoscoWindex_4:

(Start: 30 @2671 has 110 MA's), (50, 2740), (Start: 56 @2776 has 2 MA's), (Start: 57 @2782 has 13 MA's), (60, 2806), (71, 2881), (85, 2953), (86, 2956), (87, 2962), (95, 2995), (106, 3031), (123, 3124), (124, 3127), (131, 3178), (140, 3256), (143, 3268), (149, 3310), (156, 3361), (168, 3442), (173, 3484), (184, 3565), (211, 3715),

Gene: Rubeelu_4 Start: 2249, Stop: 3535, Start Num: 14

Candidate Starts for Rubeelu_4:

(Start: 14 @2249 has 51 MA's), (43, 2336), (49, 2342), (53, 2378), (Start: 56 @2390 has 2 MA's), (81, 2543), (99, 2615), (123, 2726), (124, 2729), (133, 2795), (134, 2798), (137, 2825), (139, 2840), (146, 2882), (158, 2996), (172, 3101), (178, 3155), (179, 3158), (186, 3191), (192, 3221), (210, 3344), (219, 3404),

Gene: Sage7_4 Start: 2671, Stop: 3798, Start Num: 30

Candidate Starts for Sage7_4:

(Start: 30 @2671 has 110 MA's), (50, 2740), (Start: 56 @2776 has 2 MA's), (Start: 57 @2782 has 13 MA's), (60, 2806), (71, 2881), (85, 2953), (86, 2956), (87, 2962), (95, 2995), (106, 3031), (123, 3124), (124, 3127), (131, 3178), (140, 3256), (143, 3268), (149, 3310), (156, 3361), (168, 3442), (173, 3484), (184, 3565), (211, 3715),

Gene: SantasSleigh_4 Start: 2695, Stop: 3822, Start Num: 30

Candidate Starts for SantasSleigh_4:

(Start: 30 @2695 has 110 MA's), (50, 2764), (Start: 56 @2800 has 2 MA's), (Start: 57 @2806 has 13 MA's), (60, 2830), (71, 2905), (85, 2977), (86, 2980), (87, 2986), (95, 3019), (106, 3055), (123, 3148), (124, 3151), (131, 3202), (140, 3280), (143, 3292), (149, 3334), (156, 3385), (168, 3466), (173, 3508), (184, 3589), (211, 3739),

Gene: Santhid_4 Start: 2353, Stop: 3651, Start Num: 14

Candidate Starts for Santhid_4:

(Start: 14 @2353 has 51 MA's), (Start: 15 @2356 has 1 MA's), (20, 2380), (32, 2410), (53, 2482), (70, 2599), (100, 2731), (105, 2749), (132, 2905), (141, 2977), (158, 3118), (161, 3127), (163, 3139), (165, 3154), (171, 3211), (172, 3223), (178, 3277), (179, 3280), (181, 3295), (186, 3313), (189, 3334), (210, 3460),

Gene: Sapo_2 Start: 1792, Stop: 3132, Start Num: 13

Candidate Starts for Sapo_2:

(Start: 13 @1792 has 13 MA's), (90, 2155), (114, 2260), (115, 2263), (132, 2374), (148, 2497), (158, 2587), (162, 2602), (169, 2662), (171, 2680), (172, 2692), (173, 2695), (176, 2728), (191, 2809),

Gene: Sara_4 Start: 2659, Stop: 3786, Start Num: 30

Candidate Starts for Sara_4:

(Start: 30 @2659 has 110 MA's), (50, 2728), (Start: 57 @2770 has 13 MA's), (60, 2794), (71, 2869), (85, 2941), (86, 2944), (87, 2950), (95, 2983), (106, 3019), (123, 3112), (124, 3115), (131, 3166), (140, 3244), (143, 3256), (149, 3298), (156, 3349), (168, 3430), (173, 3472), (184, 3553), (211, 3703),

Gene: Scamander_4 Start: 2671, Stop: 3798, Start Num: 30

Candidate Starts for Scamander_4:

(Start: 30 @2671 has 110 MA's), (50, 2740), (Start: 56 @2776 has 2 MA's), (Start: 57 @2782 has 13 MA's), (60, 2806), (71, 2881), (85, 2953), (86, 2956), (87, 2962), (95, 2995), (106, 3031), (123, 3124), (124, 3127), (131, 3178), (140, 3256), (143, 3268), (149, 3310), (156, 3361), (168, 3442), (173, 3484), (184, 3565), (211, 3715),

Gene: Schmidt_6 Start: 3556, Stop: 4848, Start Num: 13

Candidate Starts for Schmidt_6:

(Start: 13 @3556 has 13 MA's), (18, 3574), (34, 3619), (46, 3652), (55, 3706), (65, 3787), (70, 3811), (79, 3853), (82, 3865), (89, 3904), (90, 3907), (93, 3922), (102, 3949), (114, 4009), (115, 4012), (120, 4042), (122, 4048), (123, 4063), (154, 4315), (156, 4321), (158, 4336), (166, 4381), (171, 4429), (172, 4441), (174, 4450), (176, 4477), (186, 4531), (200, 4594), (206, 4648), (207, 4651), (210, 4678), (212, 4693), (215, 4705), (216, 4711), (221, 4744), (224, 4762), (226, 4792),

Gene: Schnauzer_4 Start: 2249, Stop: 3538, Start Num: 14

Candidate Starts for Schnauzer_4:

(Start: 14 @2249 has 51 MA's), (43, 2336), (49, 2342), (53, 2378), (Start: 56 @2390 has 2 MA's), (65, 2468), (81, 2543), (103, 2630), (137, 2825), (139, 2840), (146, 2882), (158, 2996), (172, 3101), (174, 3110), (178, 3155), (186, 3191), (192, 3221), (210, 3344), (222, 3416), (223, 3422),

Gene: Scitech_4 Start: 2249, Stop: 3538, Start Num: 14

Candidate Starts for Scitech_4:

(Start: 14 @2249 has 51 MA's), (43, 2336), (49, 2342), (53, 2378), (Start: 56 @2390 has 2 MA's), (65, 2468), (81, 2543), (103, 2630), (123, 2726), (137, 2825), (139, 2840), (146, 2882), (158, 2996), (172, 3101), (174, 3110), (178, 3155), (186, 3191), (192, 3221), (210, 3344), (222, 3416), (223, 3422),

Gene: Scrunchy_4 Start: 2671, Stop: 3798, Start Num: 30

Candidate Starts for Scrunchy_4:

(Start: 30 @2671 has 110 MA's), (50, 2740), (Start: 57 @2782 has 13 MA's), (60, 2806), (71, 2881), (85, 2953), (86, 2956), (87, 2962), (95, 2995), (106, 3031), (123, 3124), (124, 3127), (131, 3178), (140, 3256), (143, 3268), (149, 3310), (156, 3361), (168, 3442), (173, 3484), (184, 3565), (211, 3715),

Gene: SeaWolves_4 Start: 2659, Stop: 3786, Start Num: 30

Candidate Starts for SeaWolves_4:

(Start: 30 @2659 has 110 MA's), (50, 2728), (Start: 57 @2770 has 13 MA's), (60, 2794), (71, 2869), (85, 2941), (86, 2944), (87, 2950), (95, 2983), (106, 3019), (123, 3112), (124, 3115), (131, 3166), (140, 3244), (143, 3256), (149, 3298), (156, 3349), (168, 3430), (173, 3472), (184, 3553), (211, 3703),

Gene: Shambre1_5 Start: 3925, Stop: 5259, Start Num: 7

Candidate Starts for Shambre1_5:

(Start: 7 @3925 has 1 MA's), (44, 4069), (48, 4084), (60, 4165), (84, 4306), (87, 4324), (88, 4327), (100, 4372), (113, 4438), (131, 4540), (138, 4600), (158, 4747), (164, 4771), (169, 4825), (176, 4888), (178, 4906), (194, 4981), (204, 5041), (208, 5074), (215, 5116), (217, 5131), (219, 5149), (222, 5161), (223, 5167),

Gene: ShrimpFriedEgg_4 Start: 2263, Stop: 3552, Start Num: 14

Candidate Starts for ShrimpFriedEgg_4:

(Start: 14 @2263 has 51 MA's), (25, 2299), (43, 2350), (49, 2356), (53, 2392), (Start: 56 @2404 has 2 MA's), (65, 2482), (81, 2557), (99, 2629), (102, 2638), (103, 2644), (105, 2650), (106, 2653), (123, 2740), (137, 2839), (139, 2854), (141, 2872), (158, 3010), (165, 3046), (172, 3115), (174, 3124), (178, 3169), (186, 3205), (192, 3235), (207, 3331), (210, 3358), (222, 3430),

Gene: Shweta_4 Start: 2263, Stop: 3552, Start Num: 14

Candidate Starts for Shweta_4:

(Start: 14 @2263 has 51 MA's), (25, 2299), (43, 2350), (49, 2356), (53, 2392), (Start: 56 @2404 has 2 MA's), (65, 2482), (81, 2557), (99, 2629), (102, 2638), (103, 2644), (105, 2650), (106, 2653), (123, 2740), (137, 2839), (139, 2854), (141, 2872), (158, 3010), (165, 3046), (172, 3115), (174, 3124), (178, 3169), (186, 3205), (192, 3235), (207, 3331), (210, 3358), (222, 3430),

Gene: Silvafighter_4 Start: 2249, Stop: 3538, Start Num: 14

Candidate Starts for Silvafighter_4:

(Start: 14 @2249 has 51 MA's), (43, 2336), (49, 2342), (53, 2378), (Start: 56 @2390 has 2 MA's), (65, 2468), (81, 2543), (103, 2630), (123, 2726), (137, 2825), (139, 2840), (146, 2882), (158, 2996), (172, 3101), (174, 3110), (178, 3155), (186, 3191), (192, 3221), (210, 3344), (222, 3416), (223, 3422),

Gene: Silvy_4 Start: 2249, Stop: 3538, Start Num: 14

Candidate Starts for Silvy_4:

(Start: 14 @2249 has 51 MA's), (43, 2336), (49, 2342), (53, 2378), (Start: 56 @2390 has 2 MA's), (65, 2468), (81, 2543), (103, 2630), (137, 2825), (139, 2840), (146, 2882), (158, 2996), (172, 3101), (174, 3110), (178, 3155), (186, 3191), (192, 3221), (210, 3344), (222, 3416), (223, 3422),

Gene: Sippinontea_4 Start: 2656, Stop: 3783, Start Num: 30

Candidate Starts for Sippinontea_4:

(Start: 19 @2629 has 1 MA's), (Start: 30 @2656 has 110 MA's), (50, 2725), (Start: 56 @2761 has 2 MA's), (Start: 57 @2767 has 13 MA's), (60, 2791), (71, 2866), (85, 2938), (86, 2941), (87, 2947), (95, 2980), (106, 3016), (116, 3064), (123, 3109), (124, 3112), (131, 3163), (140, 3241), (143, 3253), (149, 3295), (156, 3346), (168, 3427), (173, 3469), (184, 3550), (211, 3700),

Gene: SkinnyPete_4 Start: 2263, Stop: 3552, Start Num: 14

Candidate Starts for SkinnyPete_4:

(Start: 14 @2263 has 51 MA's), (25, 2299), (43, 2350), (49, 2356), (53, 2392), (Start: 56 @2404 has 2 MA's), (65, 2482), (81, 2557), (99, 2629), (102, 2638), (103, 2644), (105, 2650), (106, 2653), (123, 2740), (137, 2839), (139, 2854), (141, 2872), (158, 3010), (165, 3046), (172, 3115), (174, 3124), (178, 3169), (186, 3205), (192, 3235), (207, 3331), (210, 3358), (222, 3430),

Gene: Slentz_4 Start: 2671, Stop: 3798, Start Num: 30

Candidate Starts for Slentz_4:

(Start: 30 @2671 has 110 MA's), (50, 2740), (Start: 57 @2782 has 13 MA's), (60, 2806), (71, 2881), (85, 2953), (86, 2956), (87, 2962), (95, 2995), (106, 3031), (123, 3124), (124, 3127), (131, 3178), (140, 3256), (143, 3268), (149, 3310), (156, 3361), (168, 3442), (173, 3484), (184, 3565), (211, 3715),

Gene: Slizam_4 Start: 2698, Stop: 3825, Start Num: 30

Candidate Starts for Slizam_4:

(Start: 30 @2698 has 110 MA's), (50, 2767), (Start: 56 @2803 has 2 MA's), (Start: 57 @2809 has 13 MA's), (60, 2833), (71, 2908), (85, 2980), (86, 2983), (87, 2989), (95, 3022), (106, 3058), (123, 3151), (124, 3154), (131, 3205), (140, 3283), (143, 3295), (149, 3337), (156, 3388), (168, 3469), (173, 3511), (180, 3577), (184, 3592), (211, 3742),

Gene: Smurph_4 Start: 2249, Stop: 3538, Start Num: 14

Candidate Starts for Smurph_4:

(Start: 14 @2249 has 51 MA's), (43, 2336), (49, 2342), (53, 2378), (Start: 56 @2390 has 2 MA's), (65, 2468), (81, 2543), (103, 2630), (137, 2825), (139, 2840), (146, 2882), (158, 2996), (172, 3101), (174, 3110), (178, 3155), (186, 3191), (192, 3221), (210, 3344), (222, 3416), (223, 3422),

Gene: Snekmaggedon_4 Start: 2263, Stop: 3552, Start Num: 14

Candidate Starts for Snekmaggedon_4:

(Start: 14 @2263 has 51 MA's), (25, 2299), (43, 2350), (49, 2356), (53, 2392), (Start: 56 @2404 has 2 MA's), (65, 2482), (81, 2557), (99, 2629), (102, 2638), (103, 2644), (105, 2650), (106, 2653), (123, 2740), (137, 2839), (139, 2854), (141, 2872), (158, 3010), (165, 3046), (172, 3115), (174, 3124), (178, 3169), (186, 3205), (192, 3235), (207, 3331), (210, 3358), (222, 3430),

Gene: Snuffles_5 Start: 2868, Stop: 3995, Start Num: 30

Candidate Starts for Snuffles_5:

(Start: 19 @2841 has 1 MA's), (Start: 30 @2868 has 110 MA's), (50, 2937), (Start: 56 @2973 has 2 MA's), (Start: 57 @2979 has 13 MA's), (60, 3003), (71, 3078), (85, 3150), (86, 3153), (87, 3159), (95, 3192), (106, 3228), (123, 3321), (124, 3324), (131, 3375), (140, 3453), (143, 3465), (149, 3507), (156, 3558), (168, 3639), (173, 3681), (180, 3747), (184, 3762), (211, 3912),

Gene: Splinter_8 Start: 5071, Stop: 6363, Start Num: 12

Candidate Starts for Splinter_8:

(3, 4993), (Start: 12 @5071 has 8 MA's), (Start: 13 @5080 has 13 MA's), (47, 5176), (Start: 56 @5230 has 2 MA's), (82, 5386), (88, 5422), (99, 5461), (106, 5485), (115, 5533), (117, 5536), (122, 5566), (123, 5581), (124, 5584), (130, 5626), (150, 5782), (154, 5833), (158, 5854), (172, 5959), (175, 5971), (176, 5995), (186, 6049), (192, 6079), (193, 6085), (210, 6196), (224, 6280),

Gene: SpongeBob_4 Start: 2263, Stop: 3552, Start Num: 14

Candidate Starts for SpongeBob_4:

(Start: 14 @2263 has 51 MA's), (25, 2299), (43, 2350), (49, 2356), (53, 2392), (Start: 56 @2404 has 2 MA's), (65, 2482), (81, 2557), (99, 2629), (102, 2638), (103, 2644), (105, 2650), (106, 2653), (123, 2740), (137, 2839), (139, 2854), (141, 2872), (158, 3010), (165, 3046), (172, 3115), (174, 3124), (178, 3169), (186, 3205), (192, 3235), (207, 3331), (210, 3358), (222, 3430),

Gene: Stem_4 Start: 2698, Stop: 3825, Start Num: 30

Candidate Starts for Stem_4:

(Start: 30 @2698 has 110 MA's), (50, 2767), (Start: 56 @2803 has 2 MA's), (Start: 57 @2809 has 13 MA's), (60, 2833), (71, 2908), (85, 2980), (86, 2983), (87, 2989), (95, 3022), (106, 3058), (123, 3151), (124, 3154), (131, 3205), (140, 3283), (143, 3295), (149, 3337), (156, 3388), (168, 3469), (173, 3511), (180, 3577), (184, 3592), (211, 3742),

Gene: TZGordon_10 Start: 5216, Stop: 6508, Start Num: 12

Candidate Starts for TZGordon_10:

(3, 5138), (Start: 12 @5216 has 8 MA's), (Start: 13 @5225 has 13 MA's), (47, 5321), (Start: 56 @5375 has 2 MA's), (82, 5531), (88, 5567), (99, 5606), (106, 5630), (115, 5678), (117, 5681), (122, 5711), (123, 5726), (124, 5729), (130, 5771), (150, 5927), (158, 5999), (172, 6104), (175, 6116), (176, 6140), (186, 6194), (192, 6224), (193, 6230), (210, 6341),

Gene: Tapioca_4 Start: 2249, Stop: 3538, Start Num: 14

Candidate Starts for Tapioca_4:

(Start: 14 @2249 has 51 MA's), (43, 2336), (49, 2342), (53, 2378), (Start: 56 @2390 has 2 MA's), (65, 2468), (81, 2543), (103, 2630), (137, 2825), (139, 2840), (146, 2882), (158, 2996), (172, 3101), (174, 3110), (178, 3155), (186, 3191), (192, 3221), (210, 3344), (222, 3416), (223, 3422),

Gene: Tarzan_4 Start: 2353, Stop: 3654, Start Num: 14

Candidate Starts for Tarzan_4:

(Start: 14 @2353 has 51 MA's), (Start: 15 @2356 has 1 MA's), (20, 2380), (32, 2410), (53, 2482), (70, 2599), (100, 2731), (105, 2749), (132, 2905), (141, 2977), (158, 3118), (161, 3127), (163, 3139), (165, 3154), (171, 3211), (172, 3223), (178, 3277), (179, 3280), (181, 3295), (186, 3313), (189, 3334), (210, 3460),

Gene: TeddyBoy_4 Start: 2671, Stop: 3798, Start Num: 30

Candidate Starts for TeddyBoy_4:

(Start: 30 @2671 has 110 MA's), (50, 2740), (Start: 57 @2782 has 13 MA's), (60, 2806), (71, 2881), (85, 2953), (86, 2956), (87, 2962), (95, 2995), (106, 3031), (123, 3124), (124, 3127), (131, 3178), (140, 3256), (143, 3268), (149, 3310), (156, 3361), (168, 3442), (173, 3484), (184, 3565), (211, 3715),

Gene: TimoTea_4 Start: 2647, Stop: 3774, Start Num: 30

Candidate Starts for TimoTea_4:

(Start: 30 @2647 has 110 MA's), (50, 2716), (Start: 57 @2758 has 13 MA's), (60, 2782), (71, 2857), (85, 2929), (86, 2932), (87, 2938), (95, 2971), (106, 3007), (123, 3100), (124, 3103), (131, 3154), (140, 3232), (143, 3244), (149, 3286), (156, 3337), (165, 3388), (168, 3418), (173, 3460), (184, 3541), (211, 3691),

Gene: TinaLin_11 Start: 5838, Stop: 7127, Start Num: 12

Candidate Starts for TinaLin_11:

(1, 5550), (Start: 12 @5838 has 8 MA's), (Start: 13 @5847 has 13 MA's), (Start: 56 @5997 has 2 MA's), (78, 6138), (87, 6186), (88, 6189), (108, 6261), (117, 6303), (121, 6330), (122, 6333), (123, 6348), (130, 6393), (141, 6483), (150, 6549), (158, 6621), (169, 6696), (172, 6726), (176, 6762), (186, 6816), (200, 6879), (210, 6963), (226, 7077),

Gene: TinyTruffula_4 Start: 2764, Stop: 3891, Start Num: 30

Candidate Starts for TinyTruffula_4:

(Start: 30 @2764 has 110 MA's), (50, 2833), (Start: 56 @2869 has 2 MA's), (Start: 57 @2875 has 13 MA's), (60, 2899), (71, 2974), (85, 3046), (86, 3049), (87, 3055), (95, 3088), (106, 3124), (123, 3217), (124, 3220), (131, 3271), (140, 3349), (143, 3361), (149, 3403), (156, 3454), (168, 3535), (173, 3577), (180, 3643), (184, 3658), (211, 3808),

Gene: TomBrady12_4 Start: 2698, Stop: 3825, Start Num: 30

Candidate Starts for TomBrady12_4:

(Start: 30 @2698 has 110 MA's), (50, 2767), (Start: 56 @2803 has 2 MA's), (Start: 57 @2809 has 13 MA's), (60, 2833), (71, 2908), (85, 2980), (86, 2983), (87, 2989), (95, 3022), (106, 3058), (123, 3151), (124, 3154), (131, 3205), (140, 3283), (143, 3295), (149, 3337), (156, 3388), (168, 3469), (173, 3511), (180, 3577), (184, 3592), (211, 3742),

Gene: Trackstar_4 Start: 2869, Stop: 3891, Start Num: 56

Candidate Starts for Trackstar_4:

(Start: 30 @2764 has 110 MA's), (50, 2833), (Start: 56 @2869 has 2 MA's), (Start: 57 @2875 has 13 MA's), (60, 2899), (71, 2974), (85, 3046), (86, 3049), (87, 3055), (95, 3088), (106, 3124), (123, 3217), (124, 3220), (131, 3271), (140, 3349), (143, 3361), (149, 3403), (156, 3454), (168, 3535), (173, 3577), (180, 3643), (184, 3658), (211, 3808),

Gene: Trine_3 Start: 2126, Stop: 3523, Start Num: 13

Candidate Starts for Trine_3:

(Start: 13 @2126 has 13 MA's), (17, 2135), (33, 2177), (37, 2192), (45, 2213), (53, 2261), (59, 2294), (77, 2405), (87, 2462), (89, 2468), (96, 2498), (97, 2501), (108, 2540), (127, 2654), (136, 2723), (138, 2741), (158, 2903), (166, 2948), (169, 2978), (172, 3008), (178, 3062), (186, 3098), (194, 3137), (197, 3149), (199, 3164), (200, 3167), (202, 3179), (206, 3221), (210, 3251), (216, 3284), (217, 3293),

Gene: Trireme_4 Start: 2764, Stop: 3891, Start Num: 30

Candidate Starts for Trireme_4:

(Start: 30 @2764 has 110 MA's), (50, 2833), (Start: 56 @2869 has 2 MA's), (Start: 57 @2875 has 13 MA's), (60, 2899), (71, 2974), (85, 3046), (86, 3049), (87, 3055), (95, 3088), (106, 3124), (123, 3217), (124, 3220), (131, 3271), (140, 3349), (143, 3361), (149, 3403), (156, 3454), (168, 3535), (173, 3577), (180, 3643), (184, 3658), (211, 3808),

Gene: Upsilon_4 Start: 2689, Stop: 3858, Start Num: 30

Candidate Starts for Upsilon_4:

(Start: 30 @2689 has 110 MA's), (50, 2758), (Start: 56 @2794 has 2 MA's), (Start: 57 @2800 has 13 MA's), (60, 2824), (71, 2899), (85, 2971), (86, 2974), (87, 2980), (95, 3013), (106, 3049), (123, 3142), (124, 3145), (131, 3196), (140, 3274), (143, 3286), (149, 3328), (156, 3379), (168, 3460), (173, 3502), (180, 3568), (184, 3583), (210, 3727), (211, 3733),

Gene: Upyo_3 Start: 2133, Stop: 3530, Start Num: 13

Candidate Starts for Upyo_3:

(Start: 13 @2133 has 13 MA's), (17, 2142), (32, 2187), (45, 2226), (87, 2475), (91, 2487), (92, 2490), (94, 2505), (106, 2544), (111, 2577), (114, 2589), (120, 2619), (127, 2667), (130, 2685), (158, 2916), (162, 2931), (166, 2961), (169, 2991), (172, 3021), (178, 3075), (190, 3135), (197, 3162), (202, 3192), (205, 3228), (206, 3234), (209, 3261), (210, 3264), (233, 3510),

Gene: Vanisius_4 Start: 2671, Stop: 3798, Start Num: 30

Candidate Starts for Vanisius_4:

(Start: 30 @2671 has 110 MA's), (50, 2740), (Start: 56 @2776 has 2 MA's), (Start: 57 @2782 has 13 MA's), (60, 2806), (71, 2881), (85, 2953), (86, 2956), (87, 2962), (95, 2995), (106, 3031), (123, 3124), (124, 3127), (131, 3178), (140, 3256), (143, 3268), (149, 3310), (156, 3361), (168, 3442), (173, 3484), (184, 3565), (211, 3715),

Gene: Vendetta_8 Start: 5071, Stop: 6363, Start Num: 12

Candidate Starts for Vendetta_8:

(3, 4993), (Start: 12 @5071 has 8 MA's), (Start: 13 @5080 has 13 MA's), (47, 5176), (Start: 56 @5230 has 2 MA's), (82, 5386), (88, 5422), (99, 5461), (106, 5485), (115, 5533), (117, 5536), (122, 5566),

(123, 5581), (124, 5584), (130, 5626), (150, 5782), (154, 5833), (158, 5854), (172, 5959), (175, 5971), (176, 5995), (186, 6049), (192, 6079), (193, 6085), (210, 6196), (224, 6280),

Gene: VitulaEligans_4 Start: 2740, Stop: 3867, Start Num: 30

Candidate Starts for VitulaEligans_4:

(23, 2725), (Start: 30 @2740 has 110 MA's), (50, 2809), (Start: 57 @2851 has 13 MA's), (60, 2875), (71, 2950), (85, 3022), (86, 3025), (87, 3031), (95, 3064), (123, 3193), (124, 3196), (131, 3247), (140, 3325), (143, 3337), (149, 3379), (156, 3430), (165, 3481), (168, 3511), (173, 3553), (184, 3634), (211, 3784),

Gene: Widow_3 Start: 2078, Stop: 3436, Start Num: 13

Candidate Starts for Widow_3:

(Start: 13 @2078 has 13 MA's), (17, 2087), (32, 2135), (58, 2243), (72, 2339), (87, 2423), (97, 2462), (121, 2570), (123, 2588), (127, 2615), (131, 2642), (136, 2684), (146, 2747), (158, 2864), (169, 2939), (172, 2969), (178, 3023), (188, 3077), (194, 3098), (210, 3212), (215, 3239),

Gene: Witch_4 Start: 2660, Stop: 3787, Start Num: 30

Candidate Starts for Witch_4:

(Start: 30 @2660 has 110 MA's), (50, 2729), (Start: 57 @2771 has 13 MA's), (60, 2795), (71, 2870), (85, 2942), (86, 2945), (87, 2951), (95, 2984), (106, 3020), (123, 3113), (124, 3116), (131, 3167), (140, 3245), (143, 3257), (149, 3299), (156, 3350), (168, 3431), (173, 3473), (184, 3554), (211, 3704),

Gene: Wolfpack_4 Start: 2656, Stop: 3783, Start Num: 30

Candidate Starts for Wolfpack_4:

(Start: 19 @2629 has 1 MA's), (Start: 30 @2656 has 110 MA's), (50, 2725), (Start: 56 @2761 has 2 MA's), (Start: 57 @2767 has 13 MA's), (60, 2791), (71, 2866), (85, 2938), (86, 2941), (87, 2947), (95, 2980), (106, 3016), (116, 3064), (123, 3109), (124, 3112), (131, 3163), (140, 3241), (143, 3253), (149, 3295), (156, 3346), (168, 3427), (173, 3469), (184, 3550), (211, 3700),

Gene: Xeno_4 Start: 2249, Stop: 3538, Start Num: 14

Candidate Starts for Xeno_4:

(Start: 14 @2249 has 51 MA's), (43, 2336), (49, 2342), (53, 2378), (Start: 56 @2390 has 2 MA's), (65, 2468), (81, 2543), (103, 2630), (123, 2726), (137, 2825), (139, 2840), (146, 2882), (158, 2996), (172, 3101), (174, 3110), (178, 3155), (186, 3191), (192, 3221), (210, 3344), (222, 3416), (223, 3422),

Gene: Xerxes_4 Start: 2249, Stop: 3538, Start Num: 14

Candidate Starts for Xerxes_4:

(Start: 14 @2249 has 51 MA's), (43, 2336), (49, 2342), (53, 2378), (Start: 56 @2390 has 2 MA's), (65, 2468), (81, 2543), (103, 2630), (137, 2825), (139, 2840), (146, 2882), (158, 2996), (172, 3101), (174, 3110), (178, 3155), (186, 3191), (192, 3221), (210, 3344), (222, 3416), (223, 3422),

Gene: Yami_4 Start: 2647, Stop: 3774, Start Num: 30

Candidate Starts for Yami_4:

(Start: 30 @2647 has 110 MA's), (50, 2716), (Start: 56 @2752 has 2 MA's), (Start: 57 @2758 has 13 MA's), (60, 2782), (71, 2857), (85, 2929), (86, 2932), (87, 2938), (95, 2971), (106, 3007), (123, 3100), (124, 3103), (131, 3154), (140, 3232), (143, 3244), (149, 3286), (156, 3337), (168, 3418), (173, 3460), (180, 3526), (184, 3541), (211, 3691),

Gene: Yasuo_4 Start: 2656, Stop: 3783, Start Num: 30

Candidate Starts for Yasuo_4:

(Start: 30 @2656 has 110 MA's), (50, 2725), (Start: 57 @2767 has 13 MA's), (60, 2791), (71, 2866), (85, 2938), (86, 2941), (87, 2947), (95, 2980), (106, 3016), (123, 3109), (124, 3112), (131, 3163), (140, 3241), (143, 3253), (149, 3295), (156, 3346), (168, 3427), (173, 3469), (184, 3550), (211, 3700),

Gene: YertPhresh_4 Start: 2659, Stop: 3786, Start Num: 30

Candidate Starts for YertPhresh_4:

(Start: 30 @2659 has 110 MA's), (50, 2728), (Start: 57 @2770 has 13 MA's), (60, 2794), (71, 2869), (85, 2941), (86, 2944), (87, 2950), (95, 2983), (106, 3019), (123, 3112), (124, 3115), (131, 3166), (140, 3244), (143, 3256), (149, 3298), (156, 3349), (168, 3430), (173, 3472), (184, 3553), (211, 3703),

Gene: Yubaba_4 Start: 2660, Stop: 3787, Start Num: 30

Candidate Starts for Yubaba_4:

(Start: 30 @2660 has 110 MA's), (50, 2729), (Start: 57 @2771 has 13 MA's), (60, 2795), (71, 2870), (85, 2942), (86, 2945), (87, 2951), (95, 2984), (106, 3020), (123, 3113), (124, 3116), (131, 3167), (140, 3245), (143, 3257), (149, 3299), (156, 3350), (168, 3431), (173, 3473), (184, 3554), (211, 3704),

Gene: Zahlia_4 Start: 2761, Stop: 3888, Start Num: 30

Candidate Starts for Zahlia_4:

(Start: 30 @2761 has 110 MA's), (50, 2830), (Start: 57 @2872 has 13 MA's), (60, 2896), (71, 2971), (85, 3043), (87, 3052), (95, 3085), (106, 3121), (123, 3214), (124, 3217), (131, 3268), (140, 3346), (143, 3358), (149, 3400), (156, 3451), (168, 3532), (173, 3574), (184, 3655), (211, 3805),