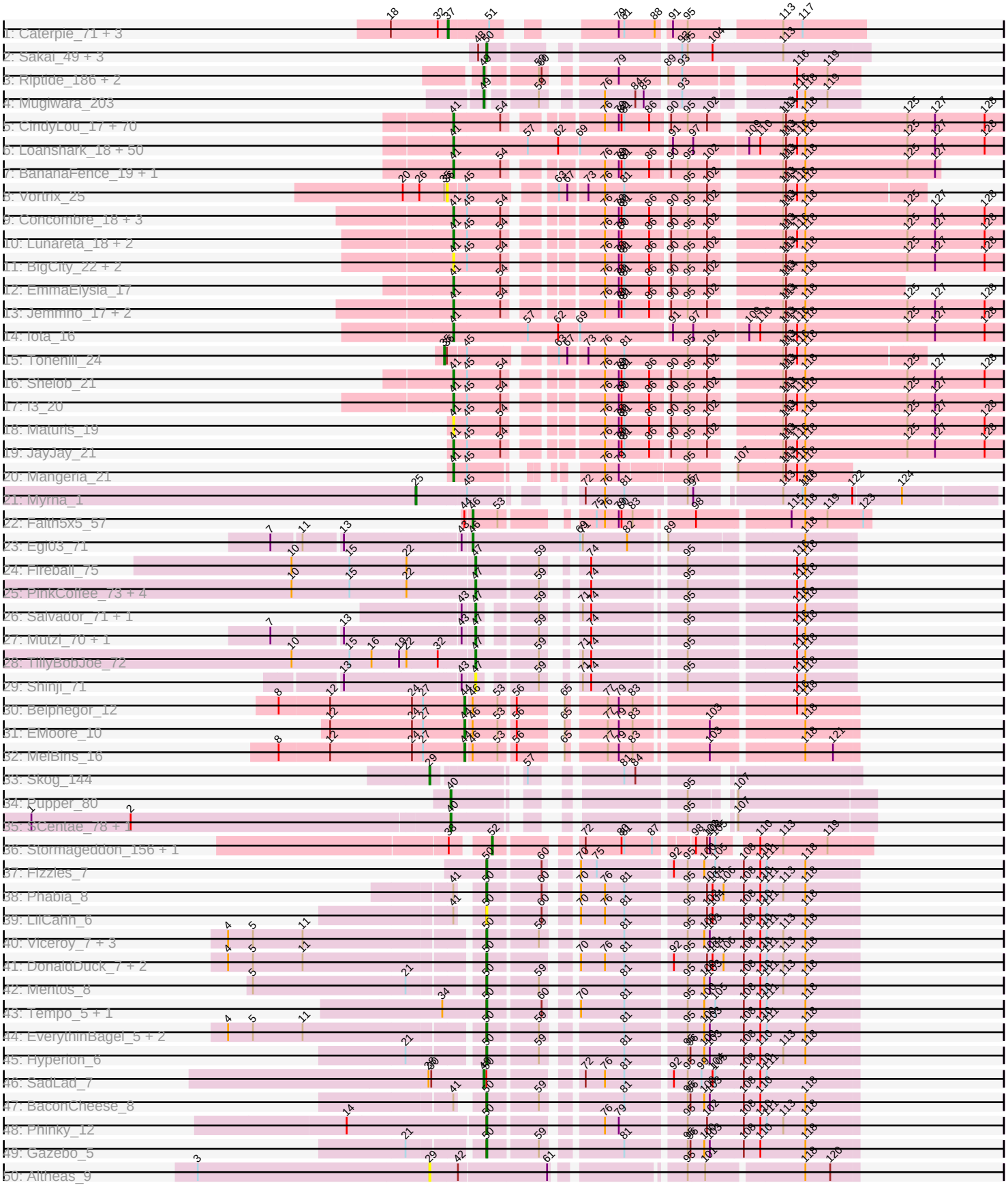
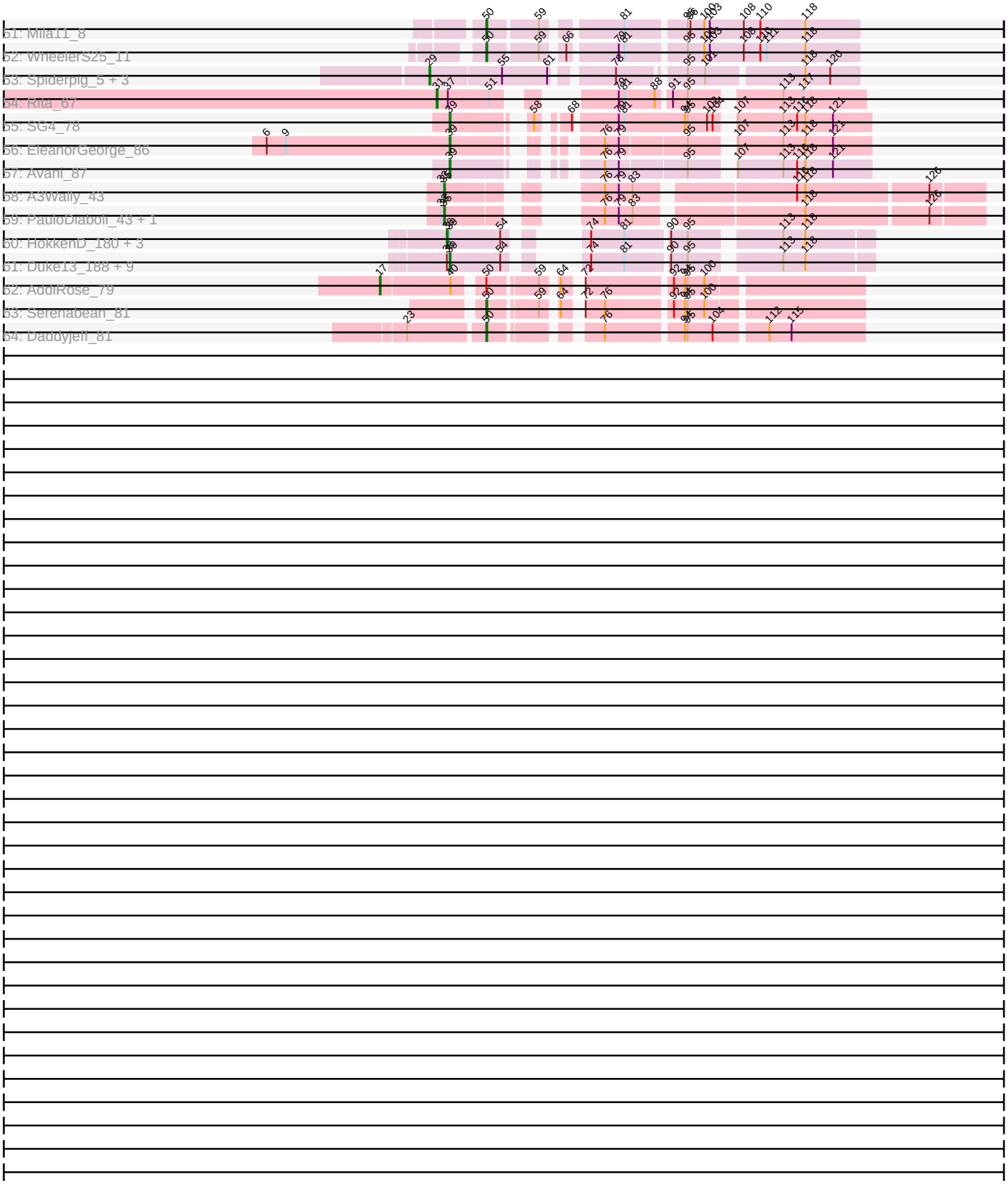
Pham 341748


1: Caterpie_71 + 3
2: Sakai_49 + 3
3: Riptide_186 + 2
4: Mugiwara_203
5: CindyLou_17 + 70
6: Loanshark_18 + 50
7: BananaFence_19 + 1
8: Vortrix_25
9: Concombre_18 + 3
10: Lunareta_18 + 2
11: BigCity_22 + 2
12: EmmaElysia_17
13: Jemmmo_17 + 2
14: Iota_16
15: Tohenili_24
16: Shelob_21
17: I3_20
18: Maturis_19
19: JayJay_21
20: Mangeria_21
21: Myrna_1
22: Faith5x5_57
23: Egl03_71
24: Fireball_75
25: PinkCoffee_73 + 4
26: Salvador_71 + 1
27: Mutzi_70 + 1
28: TillyBobJoe_72
29: Shinji_71
30: Belphegor_12
31: EMoore_10
32: MelBins_16
33: Skog_144
34: Pupper_80
35: SCentae_78 + 1
36: Stormageddon_156 + 1
37: Fizzies_7
38: Phabia_8
39: LilCahn_6
40: Viceroy_7 + 3
41: DonaldDuck_7 + 2
42: Mentos_8
43: Tempo_5 + 1
44: EverythinBagel_5 + 2
45: Hyperion_6
46: SadLad_7
47: BaconCheese_8
48: Phinky_12
49: Gazebo_5
50: Atheas_9

Pham 341748


51: Mila11_8
52: WheelerS25_11
53: Spiderpig_5 + 3
54: Rita_67
55: SG4_78
56: EleanorGeorge_86
57: Avani_87
58: A3Wally_43
59: PauloDiaboli_43 + 1
60: HokkenD_180 + 3
61: Duke13_188 + 9
62: AddiRose_79
63: Serenabean_81
64: Daddyjeff_81

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 341748 Report

This analysis was run 11/14/26 on database version 672.

Pham number 341748 has 234 members, 21 are drafts.

Phages represented in each track:
• Track 1 : Caterpie_71, JohnLord_70, Sejanus_68, Mask_69
• Track 2 : Sakai_49, Richie_52, BlueShadow_49, Gorpy_50
• Track 3 : Riptide_186, Anedea_194, LilSaint_186
• Track 4 : Mugiwara_203
• Track 5 : CindyLou_17, Shnickers_17, Labradorite_18, Cactojaque_16, Rizal_17, Fixie_16, Patter_17, JPickles_17, BackyardAgain_16, Naija_17, Ngannou_17, Matsumoto_17, SilverDipper_18, Babyland_17, Atlantean_17, StubbySaigey_18, Audrick_19, SoilZilla_17, Chargie21_17, InigoMontoya_19, GlutenPhree_18, Ghost_18, Derek_18, Rahel_17, Essence_17, ShiaLabeouf_17, LifeSavor_18, ArcherS7_17, ValleyTerrace_17, Belieber_16, Kboogie_18, Jedediah_18, JustHall_17, Amataga_17, Dietrick_15, Momo_17, Melpomini_17, Guwapp_17, Ablatia_17, Spec_17, Fludd_17, Napoleon13_17, Willis_19, Trinitium_17, Wally_17, ErnieJ_21, Quasimodo_17, BobaPhatt_18, Phusco_17, McGee_18, Janiyra_17, Ading_17, Turret_17, Latch_17, Tortoise16_16, Morizzled23_17, Chomp_17, Gamgam_17, Pivoine_17, Phlegm_19, Breeniome_18, Bangla1971_17, Gabriel_18, Substance289_16, EasyJones_18, Catera_17, Teardrop_17, Dessert_18, Basquiat_17, Adlitam_17, Littleton_18
• Track 6 : Loanshark_18, OrediggerDelux_20, Asterius_20, Pleione_20, EmToTheThree_21, Delylah_21, FoxtrotP1_19, Megamind_18, TinyTim_18, Zeenon_21, Zalkecks_20, ParkTD_18, Bowman_19, Lee7_20, Izajani_19, ChaylaJr_17, Ewok_18, MikeLiesIn_19, Bipolarisk_18, Roots515_18, Blackbrain_17, Erdmann_19, Daffodil_20, DrPhinkDaddy_18, Salacia_20, NedWong_19, Jessibeth14_18, SVoro_18, Bread_19, SrishMeg2525_18, Delilah_18, ZygoTaiga_19, Norm_18, Khaleesi_18, Ava3_19, Yucca_18, Burrough_19, Issimir_18, Fongie_18, Bonray_18, YemiJoy2021_19, PurduePete_18, Capablanca_19, Maby2021_19, McWolfish_18, FudgeTart_19, YoungMoneyMata_18, Gizmo_20, ChickenPhender_17, ScottMcG_20, Shrimp_18
• Track 7 : BananaFence_19, Darko_17
• Track 8 : Vortrix_25
• Track 9 : Concombre_18, Demodog_17, Nappy_20, JigglyPuff_19
• Track 10 : Lunareta_18, DirtMonster_16, Montpel_18
• Track 11 : BigCity_22, EggyFarm_22, Grasshills_22
• Track 12 : EmmaElysia_17
• Track 13 : Jemmno_17, SmallFry_17, Jaygup_17
• Track 14 : Iota_16
• Track 15 : Tonenili_24
• Track 16 : Shelob_21

• Track 17 : I3_20
• Track 18 : Maturis_19
• Track 19 : JayJay_21
• Track 20 : Mangeria_21
• Track 21 : Myrna_1
• Track 22 : Faith5x5_57
• Track 23 : Egi03_71
• Track 24 : Fireball_75
• Track 25 : PinkCoffee_73, Danyall_72, ClamChowder_73, Barb_73, Fugax_74
• Track 26 : Salvador_71, Evamon_71
• Track 27 : Mutzi_70, YungMoney_71
• Track 28 : TillyBobJoe_72
• Track 29 : Shinji_71
• Track 30 : Belphegor_12
• Track 31 : EMoore_10
• Track 32 : MelBins_16
• Track 33 : Skog_144
• Track 34 : Pupper_80
• Track 35 : SCentae_78, CherryTomatoes_80
• Track 36 : Stormageddon_156, RedWattleHog_155
• Track 37 : Fizzles_7
• Track 38 : Phabia_8
• Track 39 : LilCahh_6
• Track 40 : Viceroy_7, Quammi_6, Sillytadpoles_7, Rudy_6
• Track 41 : DonaldDuck_7, Llemily_7, Wheelie_7
• Track 42 : Mentos_8
• Track 43 : Tempo_5, Kelcole_4
• Track 44 : EverythinBagel_5, Casend_7, Wayne3_7
• Track 45 : Hyperion_6
• Track 46 : SadLad_7
• Track 47 : BaconCheese_8
• Track 48 : Phinky_12
• Track 49 : Gazebo_5
• Track 50 : Altheas_9
• Track 51 : Mila11_8
• Track 52 : WheelerS25_11
• Track 53 : Spiderpig_5, BirdInFrench_5, Wilca_5, Pepe25_4
• Track 54 : Rita_67
• Track 55 : SG4_78
• Track 56 : EleanorGeorge_86
• Track 57 : Avani_87
• Track 58 : A3Wally_43
• Track 59 : PauloDiaboli_43, Dodo_44
• Track 60 : HokkenD_180, Ejimix_176, Zelink_179, Klein_191
• Track 61 : Duke13_188, Phoebus_187, Minerva_187, EricMillard_183, Redno2_179, Schatzie_181, Bagrid_194, Optimus_185, BAKA_193, Wanda_184
• Track 62 : AddiRose_79
• Track 63 : Serenabean_81
• Track 64 : Daddyjeff_81

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

The start number called the most often in the published annotations is 41, it was called in 131 of the 213 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Ablatia_17, Ading_17, Adlitam_17, Amataga_17, ArcherS7_17, Asterius_20, Atlantean_17, Audrick_19, Ava3_19, Babyland_17, BackyardAgain_16, BananaFence_19, Bangla1971_17, Basquiat_17, Belieber_16, BigCity_22, Bipolarisk_18, Blackbrain_17, BobaPhatt_18, Bonray_18, Bowman_19, Bread_19, Breeniome_18, Burrough_19, Cactojaque_16, Capablanca_19, Catera_17, Chargie21_17, ChaylaJr_17, ChickenPhender_17, Chomp_17, CindyLou_17, Concombre_18, Daffodil_20, Darko_17, Delilah_18, Delylah_21, Demodog_17, Derek_18, Dessert_18, Dietrick_15, DirtMonster_16, DrPhinkDaddy_18, EasyJones_18, EggyFarm_22, EmToTheThree_21, EmmaElysia_17, Erdmann_19, ErnieJ_21, Essence_17, Ewok_18, Fixie_16, Fludd_17, Fongie_18, FoxtrotP1_19, FudgeTart_19, Gabriel_18, Gamgam_17, Ghost_18, Gizmo_20, GlutenPhree_18, Grasshills_22, Guwapp_17, I3_20, InigoMontoya_19, Iota_16, Issimir_18, Izajani_19, JPickles_17, Janiyra_17, JayJay_21, Jaygup_17, Jedediah_18, Jemmno_17, Jessibeth14_18, JigglyPuff_19, JustHall_17, Kboogie_18, Khaleesi_18, Labradorite_18, Latch_17, Lee7_20, LifeSavor_18, Littleton_18, Loanshark_18, Lunareta_18, Maby2021_19, Mangeria_21, Matsumoto_17, Maturis_19, McGee_18, McWolfish_18, Megamind_18, Melpomini_17, MikeLiesIn_19, Momo_17, Montpel_18, Morizzled23_17, Naija_17, Napoleon13_17, Nappy_20, NedWong_19, Ngannou_17, Norm_18, OrediggerDelux_20, ParkTD_18, Patter_17, Phlegm_19, Phusco_17, Pivoine_17, Pleione_20, PurduePete_18, Quasimodo_17, Rahel_17, Rizal_17, Roots515_18, SVoro_18, Salacia_20, ScottMcG_20, Shelob_21, ShiaLabeouf_17, Shnickers_17, Shrimp_18, SilverDipper_18, SmallFry_17, SoilZilla_17, Spec_17, SrishMeg2525_18, StubbySaigey_18, Substance289_16, Teardrop_17, TinyTim_18, Tortoise16_16, Trinitium_17, Turret_17, ValleyTerrace_17, Wally_17, Willis_19, YemiJoy2021_19, YoungMoneyMata_18, Yucca_18, Zalkecks_20, Zeenon_21, ZygoTaiga_19,

Genes that have the "Most Annotated" start but do not call it:
• BaconCheese_8, LilCahh_6, Phabia_8,

Genes that do not have the "Most Annotated" start:
• A3Wally_43, AddiRose_79, Altheas_9, Anedea_194, Avani_87, BAKA_193, Bagrid_194, Barb_73, Belphegor_12, BirdInFrench_5, BlueShadow_49, Casend_7, Caterpie_71, CherryTomatoes_80, ClamChowder_73, Daddyjeff_81, Danyall_72, Dodo_44, DonaldDuck_7, Duke13_188, EMoore_10, Egi03_71, Ejimix_176, EleanorGeorge_86, EricMillard_183, Evamon_71, EverythinBagel_5, Faith5x5_57, Fireball_75, Fizzles_7, Fugax_74, Gazebo_5, Gorpy_50, HokkenD_180, Hyperion_6, JohnLord_70, Kelcole_4, Klein_191, LilSaint_186, Llemily_7, Mask_69, MelBins_16, Mentos_8, Mila11_8, Minerva_187, Mugiwara_203, Mutzi_70, Myrna_1, Optimus_185, PauloDiaboli_43, Pepe25_4, Phinky_12, Phoebus_187, PinkCoffee_73, Pupper_80, Quammi_6, RedWattleHog_155, Redno2_179, Richie_52, Riptide_186, Rita_67, Rudy_6, SCentae_78, SG4_78, SadLad_7, Sakai_49, Salvador_71, Schatzie_181, Sejanus_68, Serenabean_81, Shinji_71, Sillytadpoles_7, Skog_144, Spiderpig_5, Stormageddon_156, Tempo_5, TillyBobJoe_72, Tonenili_24, Viceroy_7, Vortrix_25, Wanda_184, Wayne3_7, WheelerS25_11, Wheelie_7, Wilca_5, YungMoney_71, Zelink_179,

Summary by start number:

Start 17:
• Found in 1 of 234 (0.4%) of genes in pham
• Manual Annotations of this start: 1 of 213
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AddiRose_79 (JA),

Start 25:
• Found in 1 of 234 (0.4%) of genes in pham
• Manual Annotations of this start: 1 of 213
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Myrna_1 (C2),

Start 29:
• Found in 6 of 234 (2.6%) of genes in pham
• Manual Annotations of this start: 4 of 213
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Altheas_9 (EG), BirdInFrench_5 (EG), Pepe25_4 (EG), Skog_144 (DO), Spiderpig_5 (EG), Wilca_5 (EG),

Start 31:
• Found in 1 of 234 (0.4%) of genes in pham
• Manual Annotations of this start: 1 of 213
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Rita_67 (F1),

Start 35:
• Found in 5 of 234 (2.1%) of genes in pham
• Manual Annotations of this start: 4 of 213
• Called 80.0% of time when present
• Phage (with cluster) where this start called: A3Wally_43 (GD1), Dodo_44 (GD1), PauloDiaboli_43 (GD1), Tonenili_24 (C1),

Start 36:
• Found in 16 of 234 (6.8%) of genes in pham
• Manual Annotations of this start: 4 of 213
• Called 31.2% of time when present
• Phage (with cluster) where this start called: Ejimix_176 (J), HokkenD_180 (J), Klein_191 (J), Vortrix_25 (C1), Zelink_179 (J),

Start 37:
• Found in 5 of 234 (2.1%) of genes in pham
• Manual Annotations of this start: 2 of 213
• Called 80.0% of time when present
• Phage (with cluster) where this start called: Caterpie_71 (AD), JohnLord_70 (AD), Mask_69 (AD), Sejanus_68 (AD),

Start 39:
• Found in 17 of 234 (7.3%) of genes in pham
• Manual Annotations of this start: 12 of 213
• Called 76.5% of time when present
• Phage (with cluster) where this start called: Avani_87 (F2), BAKA_193 (J), Bagrid_194 (J), Duke13_188 (J), EleanorGeorge_86 (F1), EricMillard_183 (J),

Minerva_187 (J), Optimus_185 (J), Phoebus_187 (J), Redno2_179 (J), SG4_78 (F1), Schatzie_181 (J), Wanda_184 (J),

Start 40:
• Found in 4 of 234 (1.7%) of genes in pham
• Manual Annotations of this start: 3 of 213
• Called 75.0% of time when present
• Phage (with cluster) where this start called: CherryTomatoes_80 (DO), Pupper_80 (DO), SCentae_78 (DO),

Start 41:
• Found in 147 of 234 (62.8%) of genes in pham
• Manual Annotations of this start: 131 of 213
• Called 98.0% of time when present
• Phage (with cluster) where this start called: Ablatia_17 (C1), Ading_17 (C1), Adlitam_17 (C1), Amataga_17 (C1), ArcherS7_17 (C1), Asterius_20 (C1), Atlantean_17 (C1), Audrick_19 (C1), Ava3_19 (C1), Babyland_17 (C1), BackyardAgain_16 (C1), BananaFence_19 (C1), Bangla1971_17 (C1), Basquiat_17 (C1), Belieber_16 (C1), BigCity_22 (C1), Bipolarisk_18 (C1), Blackbrain_17 (C1), BobaPhatt_18 (C1), Bonray_18 (C1), Bowman_19 (C1), Bread_19 (C1), Breeniome_18 (C1), Burrough_19 (C1), Cactojaque_16 (C1), Capablanca_19 (C1), Catera_17 (C1), Chargie21_17 (C1), ChaylaJr_17 (C1), ChickenPhender_17 (C1), Chomp_17 (C1), CindyLou_17 (C1), Concombre_18 (C1), Daffodil_20 (C1), Darko_17 (C1), Delilah_18 (C1), Delylah_21 (C1), Demodog_17 (C1), Derek_18 (C1), Dessert_18 (C1), Dietrick_15 (C1), DirtMonster_16 (C1), DrPhinkDaddy_18 (C1), EasyJones_18 (C1), EggyFarm_22 (C1), EmToTheThree_21 (C1), EmmaElysia_17 (C1), Erdmann_19 (C1), ErnieJ_21 (C1), Essence_17 (C1), Ewok_18 (C1), Fixie_16 (C1), Fludd_17 (C1), Fongie_18 (C1), FoxtrotP1_19 (C1), FudgeTart_19 (C1), Gabriel_18 (C1), Gamgam_17 (C1), Ghost_18 (C1), Gizmo_20 (C1), GlutenPhree_18 (C1), Grasshills_22 (C1), Guwapp_17 (C1), I3_20 (C1), InigoMontoya_19 (C1), Iota_16 (C1), Issimir_18 (C1), Izajani_19 (C1), JPickles_17 (C1), Janiyra_17 (C1), JayJay_21 (C1), Jaygup_17 (C1), Jedediah_18 (C1), Jemmno_17 (C1), Jessibeth14_18 (C1), JigglyPuff_19 (C1), JustHall_17 (C1), Kboogie_18 (C1), Khaleesi_18 (C1), Labradorite_18 (C1), Latch_17 (C1), Lee7_20 (C1), LifeSavor_18 (C1), Littleton_18 (C1), Loanshark_18 (C1), Lunareta_18 (C1), Maby2021_19 (C1), Mangeria_21 (C1), Matsumoto_17 (C1), Maturis_19 (C1), McGee_18 (C1), McWolfish_18 (C1), Megamind_18 (C1), Melpomini_17 (C1), MikeLiesIn_19 (C1), Momo_17 (C1), Montpel_18 (C1), Morizzled23_17 (C1), Naija_17 (C1), Napoleon13_17 (C1), Nappy_20 (C1), NedWong_19 (C1), Ngannou_17 (C1), Norm_18 (C1), OrediggerDelux_20 (C1), ParkTD_18 (C1), Patter_17 (C1), Phlegm_19 (C1), Phusco_17 (C1), Pivoine_17 (C1), Pleione_20 (C1), PurduePete_18 (C1), Quasimodo_17 (C1), Rahel_17 (C1), Rizal_17 (C1), Roots515_18 (C1), SVoro_18 (C1), Salacia_20 (C1), ScottMcG_20 (C1), Shelob_21 (C1), ShiaLabeouf_17 (C1), Shnickers_17 (C1), Shrimp_18 (C1), SilverDipper_18 (C1), SmallFry_17 (C1), SoilZilla_17 (C1), Spec_17 (C1), SrishMeg2525_18 (C1), StubbySaigey_18 (C1), Substance289_16 (C1), Teardrop_17 (C1), TinyTim_18 (C1), Tortoise16_16 (C1), Trinitium_17 (C1), Turret_17 (C1), ValleyTerrace_17 (C1), Wally_17 (C1), Willis_19 (C1), YemiJoy2021_19 (C1), YoungMoneyMata_18 (C1), Yucca_18 (C1), Zalkecks_20 (C1), Zeenon_21 (C1), ZygoTaiga_19 (C1),

Start 44:
• Found in 4 of 234 (1.7%) of genes in pham
• Manual Annotations of this start: 3 of 213

• Called 75.0% of time when present
• Phage (with cluster) where this start called: Belphegor_12 (DE2), EMoore_10 (DE2), MelBins_16 (DE2),

Start 46:
• Found in 5 of 234 (2.1%) of genes in pham
• Manual Annotations of this start: 2 of 213
• Called 40.0% of time when present
• Phage (with cluster) where this start called: Egi03_71 (DC1), Faith5x5_57 (CZ6),

Start 47:
• Found in 12 of 234 (5.1%) of genes in pham
• Manual Annotations of this start: 11 of 213
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Barb_73 (DC1), ClamChowder_73 (DC1), Danyall_72 (DC1), Evamon_71 (DC1), Fireball_75 (DC1), Fugax_74 (DC1), Mutzi_70 (DC1), PinkCoffee_73 (DC1), Salvador_71 (DC1), Shinji_71 (DC1), TillyBobJoe_72 (DC1), YungMoney_71 (DC1),

Start 49:
• Found in 5 of 234 (2.1%) of genes in pham
• Manual Annotations of this start: 5 of 213
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Anedea_194 (BE1), LilSaint_186 (BE1), Mugiwara_203 (BE2), Riptide_186 (BE1), SadLad_7 (EG),

Start 50:
• Found in 30 of 234 (12.8%) of genes in pham
• Manual Annotations of this start: 27 of 213
• Called 93.3% of time when present
• Phage (with cluster) where this start called: BaconCheese_8 (EG), BlueShadow_49 (AY), Casend_7 (EG), Daddyjeff_81 (JA), DonaldDuck_7 (EG), EverythinBagel_5 (EG), Fizzles_7 (EG), Gazebo_5 (EG), Gorpy_50 (AY), Hyperion_6 (EG), Kelcole_4 (EG), LilCahh_6 (EG), Llemily_7 (EG), Mentos_8 (EG), Mila11_8 (EG), Phabia_8 (EG), Phinky_12 (EG), Quammi_6 (EG), Richie_52 (AY), Rudy_6 (EG), Sakai_49 (AY), Serenabean_81 (JA), Sillytadpoles_7 (EG), Tempo_5 (EG), Viceroy_7 (EG), Wayne3_7 (EG), WheelerS25_11 (EG), Wheelie_7 (EG),

Start 52:
• Found in 2 of 234 (0.9%) of genes in pham
• Manual Annotations of this start: 2 of 213
• Called 100.0% of time when present
• Phage (with cluster) where this start called: RedWattleHog_155 (DX), Stormageddon_156 (DX),

Summary by clusters:

There are 17 clusters represented in this pham: DO, F1, F2, AD, GD1, DE2, EG, J, CZ6, AY, DX, BE2, C2, C1, BE1, JA, DC1,

Info for manual annotations of cluster AD:
•Start number 37 was manually annotated 2 times for cluster AD.

Info for manual annotations of cluster AY:
•Start number 50 was manually annotated 4 times for cluster AY.

Info for manual annotations of cluster BE1:
•Start number 49 was manually annotated 3 times for cluster BE1.

Info for manual annotations of cluster BE2:
•Start number 49 was manually annotated 1 time for cluster BE2.

Info for manual annotations of cluster C1:
•Start number 35 was manually annotated 1 time for cluster C1.
•Start number 41 was manually annotated 131 times for cluster C1.

Info for manual annotations of cluster C2:
•Start number 25 was manually annotated 1 time for cluster C2.

Info for manual annotations of cluster CZ6:
•Start number 46 was manually annotated 1 time for cluster CZ6.

Info for manual annotations of cluster DC1:
•Start number 46 was manually annotated 1 time for cluster DC1.
•Start number 47 was manually annotated 11 times for cluster DC1.

Info for manual annotations of cluster DE2:
•Start number 44 was manually annotated 3 times for cluster DE2.

Info for manual annotations of cluster DO:
•Start number 29 was manually annotated 1 time for cluster DO.
•Start number 40 was manually annotated 3 times for cluster DO.

Info for manual annotations of cluster DX:
•Start number 52 was manually annotated 2 times for cluster DX.

Info for manual annotations of cluster EG:
•Start number 29 was manually annotated 3 times for cluster EG.
•Start number 49 was manually annotated 1 time for cluster EG.
•Start number 50 was manually annotated 21 times for cluster EG.

Info for manual annotations of cluster F1:
•Start number 31 was manually annotated 1 time for cluster F1.
•Start number 39 was manually annotated 2 times for cluster F1.

Info for manual annotations of cluster F2:
•Start number 39 was manually annotated 1 time for cluster F2.

Info for manual annotations of cluster GD1:
•Start number 35 was manually annotated 3 times for cluster GD1.

Info for manual annotations of cluster J:
•Start number 36 was manually annotated 4 times for cluster J.
•Start number 39 was manually annotated 9 times for cluster J.

Info for manual annotations of cluster JA:

•Start number 17 was manually annotated 1 time for cluster JA.
•Start number 50 was manually annotated 2 times for cluster JA.

Gene Information:

Gene: A3Wally_43 Start: 16207, Stop: 15722, Start Num: 35
Candidate Starts for A3Wally_43:
(33, 16210), (Start: 35 @16207 has 4 MA's), (76, 16102), (79, 16087), (83, 16072), (116, 15916), (118, 15907), (126, 15778),

Gene: Ablatia_17 Start: 5217, Stop: 5750, Start Num: 41
Candidate Starts for Ablatia_17:
(Start: 41 @5217 has 131 MA's), (54, 5265), (76, 5346), (79, 5361), (80, 5364), (81, 5367), (86, 5394), (90, 5409), (95, 5427), (102, 5448), (113, 5511), (114, 5514), (118, 5535), (125, 5646), (127, 5676), (128, 5730),

Gene: AddiRose_79 Start: 48807, Stop: 49250, Start Num: 17
Candidate Starts for AddiRose_79:
(Start: 17 @48807 has 1 MA's), (Start: 40 @48879 has 3 MA's), (Start: 50 @48900 has 27 MA's), (59, 48948), (64, 48960), (72, 48972), (92, 49059), (94, 49071), (95, 49074), (100, 49092),

Gene: Ading_17 Start: 5194, Stop: 5727, Start Num: 41
Candidate Starts for Ading_17:
(Start: 41 @5194 has 131 MA's), (54, 5242), (76, 5323), (79, 5338), (80, 5341), (81, 5344), (86, 5371), (90, 5386), (95, 5404), (102, 5425), (113, 5488), (114, 5491), (118, 5512), (125, 5623), (127, 5653), (128, 5707),

Gene: Adlitam_17 Start: 5211, Stop: 5744, Start Num: 41
Candidate Starts for Adlitam_17:
(Start: 41 @5211 has 131 MA's), (54, 5259), (76, 5340), (79, 5355), (80, 5358), (81, 5361), (86, 5388), (90, 5403), (95, 5421), (102, 5442), (113, 5505), (114, 5508), (118, 5529), (125, 5640), (127, 5670), (128, 5724),

Gene: Altheas_9 Start: 2820, Stop: 2407, Start Num: 29
Candidate Starts for Altheas_9:
(3, 3069), (Start: 29 @2820 has 4 MA's), (42, 2790), (61, 2697), (95, 2580), (101, 2562), (118, 2463), (120, 2436),

Gene: Amataga_17 Start: 5215, Stop: 5748, Start Num: 41
Candidate Starts for Amataga_17:
(Start: 41 @5215 has 131 MA's), (54, 5263), (76, 5344), (79, 5359), (80, 5362), (81, 5365), (86, 5392), (90, 5407), (95, 5425), (102, 5446), (113, 5509), (114, 5512), (118, 5533), (125, 5644), (127, 5674), (128, 5728),

Gene: Anedea_194 Start: 99583, Stop: 99927, Start Num: 49
Candidate Starts for Anedea_194:
(Start: 49 @99583 has 5 MA's), (59, 99631), (60, 99634), (79, 99694), (89, 99739), (93, 99754), (116, 99859), (119, 99892),

Gene: ArcherS7_17 Start: 5211, Stop: 5744, Start Num: 41
Candidate Starts for ArcherS7_17:

(Start: 41 @5211 has 131 MA's), (54, 5259), (76, 5340), (79, 5355), (80, 5358), (81, 5361), (86, 5388), (90, 5403), (95, 5421), (102, 5442), (113, 5505), (114, 5508), (118, 5529), (125, 5640), (127, 5670), (128, 5724),

Gene: Asterius_20 Start: 6280, Stop: 6858, Start Num: 41
Candidate Starts for Asterius_20:
(Start: 41 @6280 has 131 MA's), (57, 6358), (62, 6391), (69, 6412), (91, 6505), (97, 6526), (109, 6583), (110, 6595), (113, 6619), (114, 6622), (116, 6634), (118, 6643), (125, 6754), (127, 6784), (128, 6838),

Gene: Atlantean_17 Start: 5215, Stop: 5748, Start Num: 41
Candidate Starts for Atlantean_17:
(Start: 41 @5215 has 131 MA's), (54, 5263), (76, 5344), (79, 5359), (80, 5362), (81, 5365), (86, 5392), (90, 5407), (95, 5425), (102, 5446), (113, 5509), (114, 5512), (118, 5533), (125, 5644), (127, 5674), (128, 5728),

Gene: Audrick_19 Start: 5194, Stop: 5727, Start Num: 41
Candidate Starts for Audrick_19:
(Start: 41 @5194 has 131 MA's), (54, 5242), (76, 5323), (79, 5338), (80, 5341), (81, 5344), (86, 5371), (90, 5386), (95, 5404), (102, 5425), (113, 5488), (114, 5491), (118, 5512), (125, 5623), (127, 5653), (128, 5707),

Gene: Ava3_19 Start: 6280, Stop: 6858, Start Num: 41
Candidate Starts for Ava3_19:
(Start: 41 @6280 has 131 MA's), (57, 6358), (62, 6391), (69, 6412), (91, 6505), (97, 6526), (109, 6583), (110, 6595), (113, 6619), (114, 6622), (116, 6634), (118, 6643), (125, 6754), (127, 6784), (128, 6838),

Gene: Avani_87 Start: 46430, Stop: 46795, Start Num: 39
Candidate Starts for Avani_87:
(Start: 39 @46430 has 12 MA's), (76, 46535), (79, 46550), (95, 46616), (107, 46652), (113, 46700), (116, 46715), (118, 46724), (121, 46754),

Gene: BAKA_193 Start: 96785, Stop: 97141, Start Num: 39
Candidate Starts for BAKA_193:
(Start: 36 @96782 has 4 MA's), (Start: 39 @96785 has 12 MA's), (54, 96836), (74, 96866), (81, 96902), (90, 96944), (95, 96962), (113, 97046), (118, 97070),

Gene: Babyland_17 Start: 5215, Stop: 5748, Start Num: 41
Candidate Starts for Babyland_17:
(Start: 41 @5215 has 131 MA's), (54, 5263), (76, 5344), (79, 5359), (80, 5362), (81, 5365), (86, 5392), (90, 5407), (95, 5425), (102, 5446), (113, 5509), (114, 5512), (118, 5533), (125, 5644), (127, 5674), (128, 5728),

Gene: BackyardAgain_16 Start: 5211, Stop: 5744, Start Num: 41
Candidate Starts for BackyardAgain_16:
(Start: 41 @5211 has 131 MA's), (54, 5259), (76, 5340), (79, 5355), (80, 5358), (81, 5361), (86, 5388), (90, 5403), (95, 5421), (102, 5442), (113, 5505), (114, 5508), (118, 5529), (125, 5640), (127, 5670), (128, 5724),

Gene: BaconCheese_8 Start: 2704, Stop: 2339, Start Num: 50
Candidate Starts for BaconCheese_8:
(Start: 41 @2722 has 131 MA's), (Start: 50 @2704 has 27 MA's), (59, 2653), (81, 2581), (95, 2521), (96, 2518), (100, 2503), (103, 2497), (108, 2461), (110, 2443), (118, 2395),

Gene: Bagrid_194 Start: 97090, Stop: 97446, Start Num: 39
Candidate Starts for Bagrid_194:
(Start: 36 @97087 has 4 MA's), (Start: 39 @97090 has 12 MA's), (54, 97141), (74, 97171), (81, 97207), (90, 97249), (95, 97267), (113, 97351), (118, 97375),

Gene: BananaFence_19 Start: 6216, Stop: 6680, Start Num: 41
Candidate Starts for BananaFence_19:
(Start: 41 @6216 has 131 MA's), (54, 6264), (76, 6345), (79, 6360), (80, 6363), (81, 6366), (86, 6393), (90, 6408), (95, 6426), (102, 6447), (113, 6510), (114, 6513), (118, 6534), (125, 6645), (127, 6675),

Gene: Bangla1971_17 Start: 5211, Stop: 5744, Start Num: 41
Candidate Starts for Bangla1971_17:
(Start: 41 @5211 has 131 MA's), (54, 5259), (76, 5340), (79, 5355), (80, 5358), (81, 5361), (86, 5388), (90, 5403), (95, 5421), (102, 5442), (113, 5505), (114, 5508), (118, 5529), (125, 5640), (127, 5670), (128, 5724),

Gene: Barb_73 Start: 50062, Stop: 50412, Start Num: 47
Candidate Starts for Barb_73:
(10, 49870), (15, 49933), (22, 49993), (Start: 47 @50062 has 11 MA's), (59, 50125), (74, 50152), (95, 50242), (116, 50350), (118, 50359),

Gene: Basquiat_17 Start: 5196, Stop: 5729, Start Num: 41
Candidate Starts for Basquiat_17:
(Start: 41 @5196 has 131 MA's), (54, 5244), (76, 5325), (79, 5340), (80, 5343), (81, 5346), (86, 5373), (90, 5388), (95, 5406), (102, 5427), (113, 5490), (114, 5493), (118, 5514), (125, 5625), (127, 5655), (128, 5709),

Gene: Belieber_16 Start: 5215, Stop: 5748, Start Num: 41
Candidate Starts for Belieber_16:
(Start: 41 @5215 has 131 MA's), (54, 5263), (76, 5344), (79, 5359), (80, 5362), (81, 5365), (86, 5392), (90, 5407), (95, 5425), (102, 5446), (113, 5509), (114, 5512), (118, 5533), (125, 5644), (127, 5674), (128, 5728),

Gene: Belphegor_12 Start: 9683, Stop: 10045, Start Num: 44
Candidate Starts for Belphegor_12:
(8, 9485), (12, 9539), (24, 9626), (27, 9638), (Start: 44 @9683 has 3 MA's), (Start: 46 @9689 has 2 MA's), (53, 9716), (56, 9731), (65, 9764), (77, 9800), (79, 9812), (83, 9827), (116, 9980), (118, 9989),

Gene: BigCity_22 Start: 7585, Stop: 8118, Start Num: 41
Candidate Starts for BigCity_22:
(Start: 41 @7585 has 131 MA's), (45, 7597), (54, 7633), (76, 7714), (79, 7729), (80, 7732), (81, 7735), (86, 7762), (90, 7777), (95, 7795), (102, 7816), (113, 7879), (114, 7882), (118, 7903), (125, 8014), (127, 8044), (128, 8098),

Gene: Bipolarisk_18 Start: 6280, Stop: 6858, Start Num: 41
Candidate Starts for Bipolarisk_18:
(Start: 41 @6280 has 131 MA's), (57, 6358), (62, 6391), (69, 6412), (91, 6505), (97, 6526), (109, 6583), (110, 6595), (113, 6619), (114, 6622), (116, 6634), (118, 6643), (125, 6754), (127, 6784), (128, 6838),

Gene: BirdInFrench_5 Start: 1900, Stop: 1487, Start Num: 29
Candidate Starts for BirdInFrench_5:
(Start: 29 @1900 has 4 MA's), (55, 1825), (61, 1777), (78, 1723), (95, 1660), (101, 1642), (118, 1543), (120, 1516),

Gene: Blackbrain_17 Start: 5211, Stop: 5789, Start Num: 41
Candidate Starts for Blackbrain_17:
(Start: 41 @5211 has 131 MA's), (57, 5289), (62, 5322), (69, 5343), (91, 5436), (97, 5457), (109, 5514), (110, 5526), (113, 5550), (114, 5553), (116, 5565), (118, 5574), (125, 5685), (127, 5715), (128, 5769),

Gene: BlueShadow_49 Start: 30672, Stop: 31046, Start Num: 50
Candidate Starts for BlueShadow_49:
(48, 30663), (Start: 50 @30672 has 27 MA's), (93, 30846), (95, 30852), (104, 30879), (113, 30954),

Gene: BobaPhatt_18 Start: 5215, Stop: 5748, Start Num: 41
Candidate Starts for BobaPhatt_18:
(Start: 41 @5215 has 131 MA's), (54, 5263), (76, 5344), (79, 5359), (80, 5362), (81, 5365), (86, 5392), (90, 5407), (95, 5425), (102, 5446), (113, 5509), (114, 5512), (118, 5533), (125, 5644), (127, 5674), (128, 5728),

Gene: Bonray_18 Start: 6274, Stop: 6852, Start Num: 41
Candidate Starts for Bonray_18:
(Start: 41 @6274 has 131 MA's), (57, 6352), (62, 6385), (69, 6406), (91, 6499), (97, 6520), (109, 6577), (110, 6589), (113, 6613), (114, 6616), (116, 6628), (118, 6637), (125, 6748), (127, 6778), (128, 6832),

Gene: Bowman_19 Start: 6280, Stop: 6858, Start Num: 41
Candidate Starts for Bowman_19:
(Start: 41 @6280 has 131 MA's), (57, 6358), (62, 6391), (69, 6412), (91, 6505), (97, 6526), (109, 6583), (110, 6595), (113, 6619), (114, 6622), (116, 6634), (118, 6643), (125, 6754), (127, 6784), (128, 6838),

Gene: Bread_19 Start: 6280, Stop: 6858, Start Num: 41
Candidate Starts for Bread_19:
(Start: 41 @6280 has 131 MA's), (57, 6358), (62, 6391), (69, 6412), (91, 6505), (97, 6526), (109, 6583), (110, 6595), (113, 6619), (114, 6622), (116, 6634), (118, 6643), (125, 6754), (127, 6784), (128, 6838),

Gene: Breeniome_18 Start: 5211, Stop: 5744, Start Num: 41
Candidate Starts for Breeniome_18:
(Start: 41 @5211 has 131 MA's), (54, 5259), (76, 5340), (79, 5355), (80, 5358), (81, 5361), (86, 5388), (90, 5403), (95, 5421), (102, 5442), (113, 5505), (114, 5508), (118, 5529), (125, 5640), (127, 5670), (128, 5724),

Gene: Burrough_19 Start: 6280, Stop: 6858, Start Num: 41
Candidate Starts for Burrough_19:
(Start: 41 @6280 has 131 MA's), (57, 6358), (62, 6391), (69, 6412), (91, 6505), (97, 6526), (109, 6583), (110, 6595), (113, 6619), (114, 6622), (116, 6634), (118, 6643), (125, 6754), (127, 6784), (128, 6838),

Gene: Cactojaque_16 Start: 5145, Stop: 5678, Start Num: 41
Candidate Starts for Cactojaque_16:
(Start: 41 @5145 has 131 MA's), (54, 5193), (76, 5274), (79, 5289), (80, 5292), (81, 5295), (86, 5322), (90, 5337), (95, 5355), (102, 5376), (113, 5439), (114, 5442), (118, 5463), (125, 5574), (127, 5604), (128, 5658),

Gene: Capablanca_19 Start: 6295, Stop: 6873, Start Num: 41
Candidate Starts for Capablanca_19:
(Start: 41 @6295 has 131 MA's), (57, 6373), (62, 6406), (69, 6427), (91, 6520), (97, 6541), (109, 6598), (110, 6610), (113, 6634), (114, 6637), (116, 6649), (118, 6658), (125, 6769), (127, 6799), (128, 6853),

Gene: Casend_7 Start: 2333, Stop: 1968, Start Num: 50
Candidate Starts for Casend_7:
(4, 2597), (5, 2570), (11, 2516), (Start: 50 @2333 has 27 MA's), (59, 2282), (81, 2210), (95, 2150), (100, 2132), (103, 2126), (108, 2090), (110, 2072), (111, 2066), (118, 2024),

Gene: Catera_17 Start: 5215, Stop: 5748, Start Num: 41
Candidate Starts for Catera_17:
(Start: 41 @5215 has 131 MA's), (54, 5263), (76, 5344), (79, 5359), (80, 5362), (81, 5365), (86, 5392), (90, 5407), (95, 5425), (102, 5446), (113, 5509), (114, 5512), (118, 5533), (125, 5644), (127, 5674), (128, 5728),

Gene: Caterpie_71 Start: 51469, Stop: 51822, Start Num: 37
Candidate Starts for Caterpie_71:
(18, 51409), (32, 51460), (Start: 37 @51469 has 2 MA's), (51, 51511), (79, 51583), (81, 51589), (88, 51622), (91, 51634), (95, 51649), (113, 51733), (117, 51754),

Gene: Chargie21_17 Start: 5196, Stop: 5729, Start Num: 41
Candidate Starts for Chargie21_17:
(Start: 41 @5196 has 131 MA's), (54, 5244), (76, 5325), (79, 5340), (80, 5343), (81, 5346), (86, 5373), (90, 5388), (95, 5406), (102, 5427), (113, 5490), (114, 5493), (118, 5514), (125, 5625), (127, 5655), (128, 5709),

Gene: ChaylaJr_17 Start: 5238, Stop: 5816, Start Num: 41
Candidate Starts for ChaylaJr_17:
(Start: 41 @5238 has 131 MA's), (57, 5316), (62, 5349), (69, 5370), (91, 5463), (97, 5484), (109, 5541), (110, 5553), (113, 5577), (114, 5580), (116, 5592), (118, 5601), (125, 5712), (127, 5742), (128, 5796),

Gene: CherryTomatoes_80 Start: 30585, Stop: 30956, Start Num: 40
Candidate Starts for CherryTomatoes_80:
(1, 30135), (2, 30243), (Start: 40 @30585 has 3 MA's), (95, 30774), (107, 30810),

Gene: ChickenPhender_17 Start: 5196, Stop: 5774, Start Num: 41
Candidate Starts for ChickenPhender_17:
(Start: 41 @5196 has 131 MA's), (57, 5274), (62, 5307), (69, 5328), (91, 5421), (97, 5442), (109, 5499), (110, 5511), (113, 5535), (114, 5538), (116, 5550), (118, 5559), (125, 5670), (127, 5700), (128, 5754),

Gene: Chomp_17 Start: 5215, Stop: 5748, Start Num: 41
Candidate Starts for Chomp_17:
(Start: 41 @5215 has 131 MA's), (54, 5263), (76, 5344), (79, 5359), (80, 5362), (81, 5365), (86, 5392), (90, 5407), (95, 5425), (102, 5446), (113, 5509), (114, 5512), (118, 5533), (125, 5644), (127, 5674), (128, 5728),

Gene: CindyLou_17 Start: 5215, Stop: 5748, Start Num: 41
Candidate Starts for CindyLou_17:
(Start: 41 @5215 has 131 MA's), (54, 5263), (76, 5344), (79, 5359), (80, 5362), (81, 5365), (86, 5392), (90, 5407), (95, 5425), (102, 5446), (113, 5509), (114, 5512), (118, 5533), (125, 5644), (127, 5674), (128, 5728),

Gene: ClamChowder_73 Start: 50062, Stop: 50412, Start Num: 47
Candidate Starts for ClamChowder_73:
(10, 49870), (15, 49933), (22, 49993), (Start: 47 @50062 has 11 MA's), (59, 50125), (74, 50152), (95, 50242), (116, 50350), (118, 50359),

Gene: Concombre_18 Start: 6281, Stop: 6814, Start Num: 41
Candidate Starts for Concombre_18:
(Start: 41 @6281 has 131 MA's), (45, 6293), (54, 6329), (76, 6410), (79, 6425), (80, 6428), (81, 6431), (86, 6458), (90, 6473), (95, 6491), (102, 6512), (113, 6575), (114, 6578), (118, 6599), (125, 6710), (127, 6740), (128, 6794),

Gene: Daddyjeff_81 Start: 49245, Stop: 49598, Start Num: 50
Candidate Starts for Daddyjeff_81:
(23, 49167), (Start: 50 @49245 has 27 MA's), (76, 49338), (94, 49416), (95, 49419), (104, 49446), (112, 49497), (115, 49521),

Gene: Daffodil_20 Start: 6280, Stop: 6858, Start Num: 41
Candidate Starts for Daffodil_20:
(Start: 41 @6280 has 131 MA's), (57, 6358), (62, 6391), (69, 6412), (91, 6505), (97, 6526), (109, 6583), (110, 6595), (113, 6619), (114, 6622), (116, 6634), (118, 6643), (125, 6754), (127, 6784), (128, 6838),

Gene: Danyall_72 Start: 50043, Stop: 50393, Start Num: 47
Candidate Starts for Danyall_72:
(10, 49851), (15, 49914), (22, 49974), (Start: 47 @50043 has 11 MA's), (59, 50106), (74, 50133), (95, 50223), (116, 50331), (118, 50340),

Gene: Darko_17 Start: 6185, Stop: 6649, Start Num: 41
Candidate Starts for Darko_17:
(Start: 41 @6185 has 131 MA's), (54, 6233), (76, 6314), (79, 6329), (80, 6332), (81, 6335), (86, 6362), (90, 6377), (95, 6395), (102, 6416), (113, 6479), (114, 6482), (118, 6503), (125, 6614), (127, 6644),

Gene: Delilah_18 Start: 6280, Stop: 6858, Start Num: 41
Candidate Starts for Delilah_18:
(Start: 41 @6280 has 131 MA's), (57, 6358), (62, 6391), (69, 6412), (91, 6505), (97, 6526), (109, 6583), (110, 6595), (113, 6619), (114, 6622), (116, 6634), (118, 6643), (125, 6754), (127, 6784), (128, 6838),

Gene: Delylah_21 Start: 6307, Stop: 6885, Start Num: 41
Candidate Starts for Delylah_21:
(Start: 41 @6307 has 131 MA's), (57, 6385), (62, 6418), (69, 6439), (91, 6532), (97, 6553), (109, 6610), (110, 6622), (113, 6646), (114, 6649), (116, 6661), (118, 6670), (125, 6781), (127, 6811), (128, 6865),

Gene: Demodog_17 Start: 6281, Stop: 6814, Start Num: 41
Candidate Starts for Demodog_17:
(Start: 41 @6281 has 131 MA's), (45, 6293), (54, 6329), (76, 6410), (79, 6425), (80, 6428), (81, 6431), (86, 6458), (90, 6473), (95, 6491), (102, 6512), (113, 6575), (114, 6578), (118, 6599), (125, 6710), (127, 6740), (128, 6794),

Gene: Derek_18 Start: 5211, Stop: 5744, Start Num: 41
Candidate Starts for Derek_18:
(Start: 41 @5211 has 131 MA's), (54, 5259), (76, 5340), (79, 5355), (80, 5358), (81, 5361), (86, 5388), (90, 5403), (95, 5421), (102, 5442), (113, 5505), (114, 5508), (118, 5529), (125, 5640), (127, 5670), (128, 5724),

Gene: Dessert_18 Start: 5215, Stop: 5748, Start Num: 41
Candidate Starts for Dessert_18:
(Start: 41 @5215 has 131 MA's), (54, 5263), (76, 5344), (79, 5359), (80, 5362), (81, 5365), (86, 5392), (90, 5407), (95, 5425), (102, 5446), (113, 5509), (114, 5512), (118, 5533), (125, 5644), (127, 5674), (128, 5728),

Gene: Dietrick_15 Start: 5213, Stop: 5746, Start Num: 41
Candidate Starts for Dietrick_15:
(Start: 41 @5213 has 131 MA's), (54, 5261), (76, 5342), (79, 5357), (80, 5360), (81, 5363), (86, 5390), (90, 5405), (95, 5423), (102, 5444), (113, 5507), (114, 5510), (118, 5531), (125, 5642), (127, 5672), (128, 5726),

Gene: DirtMonster_16 Start: 6340, Stop: 6873, Start Num: 41
Candidate Starts for DirtMonster_16:
(Start: 41 @6340 has 131 MA's), (45, 6352), (54, 6388), (76, 6469), (79, 6484), (80, 6487), (86, 6517), (90, 6532), (95, 6550), (102, 6571), (113, 6634), (114, 6637), (116, 6649), (118, 6658), (125, 6769), (127, 6799), (128, 6853),

Gene: Dodo_44 Start: 16080, Stop: 15595, Start Num: 35
Candidate Starts for Dodo_44:
(33, 16083), (Start: 35 @16080 has 4 MA's), (76, 15975), (79, 15960), (83, 15945), (118, 15780), (126, 15651),

Gene: DonaldDuck_7 Start: 2085, Stop: 1723, Start Num: 50
Candidate Starts for DonaldDuck_7:
(4, 2349), (5, 2322), (11, 2268), (Start: 50 @2085 has 27 MA's), (70, 2010), (76, 1986), (81, 1965), (92, 1920), (95, 1905), (102, 1884), (104, 1878), (106, 1866), (108, 1845), (110, 1827), (111, 1821), (113, 1803), (118, 1779),

Gene: DrPhinkDaddy_18 Start: 6280, Stop: 6858, Start Num: 41
Candidate Starts for DrPhinkDaddy_18:
(Start: 41 @6280 has 131 MA's), (57, 6358), (62, 6391), (69, 6412), (91, 6505), (97, 6526), (109, 6583), (110, 6595), (113, 6619), (114, 6622), (116, 6634), (118, 6643), (125, 6754), (127, 6784), (128, 6838),

Gene: Duke13_188 Start: 95119, Stop: 95475, Start Num: 39
Candidate Starts for Duke13_188:
(Start: 36 @95116 has 4 MA's), (Start: 39 @95119 has 12 MA's), (54, 95170), (74, 95200), (81, 95236), (90, 95278), (95, 95296), (113, 95380), (118, 95404),

Gene: EMoore_10 Start: 8765, Stop: 9127, Start Num: 44
Candidate Starts for EMoore_10:
(12, 8621), (24, 8708), (27, 8720), (Start: 44 @8765 has 3 MA's), (Start: 46 @8771 has 2 MA's), (53, 8798), (56, 8813), (65, 8846), (77, 8882), (79, 8894), (83, 8909), (103, 8978), (118, 9071),

Gene: EasyJones_18 Start: 5196, Stop: 5729, Start Num: 41
Candidate Starts for EasyJones_18:
(Start: 41 @5196 has 131 MA's), (54, 5244), (76, 5325), (79, 5340), (80, 5343), (81, 5346), (86, 5373), (90, 5388), (95, 5406), (102, 5427), (113, 5490), (114, 5493), (118, 5514), (125, 5625), (127, 5655), (128, 5709),

Gene: EggyFarm_22 Start: 7585, Stop: 8118, Start Num: 41
Candidate Starts for EggyFarm_22:
(Start: 41 @7585 has 131 MA's), (45, 7597), (54, 7633), (76, 7714), (79, 7729), (80, 7732), (81, 7735), (86, 7762), (90, 7777), (95, 7795), (102, 7816), (113, 7879), (114, 7882), (118, 7903), (125, 8014), (127, 8044), (128, 8098),

Gene: Egi03_71 Start: 49655, Stop: 50041, Start Num: 46
Candidate Starts for Egi03_71:

(7, 49457), (11, 49487), (13, 49526), (43, 49646), (Start: 46 @49655 has 2 MA's), (69, 49772), (71, 49775), (82, 49823), (89, 49853), (118, 49988),

Gene: Ejimix_176 Start: 94148, Stop: 94507, Start Num: 36
Candidate Starts for Ejimix_176:
(Start: 36 @94148 has 4 MA's), (Start: 39 @94151 has 12 MA's), (54, 94202), (74, 94232), (81, 94268), (90, 94310), (95, 94328), (113, 94412), (118, 94436),

Gene: EleanorGeorge_86 Start: 50747, Stop: 51112, Start Num: 39
Candidate Starts for EleanorGeorge_86:
(6, 50549), (9, 50570), (Start: 39 @50747 has 12 MA's), (76, 50852), (79, 50867), (95, 50933), (107, 50969), (113, 51017), (118, 51041), (121, 51071),

Gene: EmToTheThree_21 Start: 7694, Stop: 8272, Start Num: 41
Candidate Starts for EmToTheThree_21:
(Start: 41 @7694 has 131 MA's), (57, 7772), (62, 7805), (69, 7826), (91, 7919), (97, 7940), (109, 7997), (110, 8009), (113, 8033), (114, 8036), (116, 8048), (118, 8057), (125, 8168), (127, 8198), (128, 8252),

Gene: EmmaElysia_17 Start: 5211, Stop: 5636, Start Num: 41
Candidate Starts for EmmaElysia_17:
(Start: 41 @5211 has 131 MA's), (54, 5259), (76, 5340), (79, 5355), (80, 5358), (81, 5361), (86, 5388), (90, 5403), (95, 5421), (102, 5442), (113, 5505), (114, 5508), (118, 5529),

Gene: Erdmann_19 Start: 6280, Stop: 6858, Start Num: 41
Candidate Starts for Erdmann_19:
(Start: 41 @6280 has 131 MA's), (57, 6358), (62, 6391), (69, 6412), (91, 6505), (97, 6526), (109, 6583), (110, 6595), (113, 6619), (114, 6622), (116, 6634), (118, 6643), (125, 6754), (127, 6784), (128, 6838),

Gene: EricMillard_183 Start: 95861, Stop: 96217, Start Num: 39
Candidate Starts for EricMillard_183:
(Start: 36 @95858 has 4 MA's), (Start: 39 @95861 has 12 MA's), (54, 95912), (74, 95942), (81, 95978), (90, 96020), (95, 96038), (113, 96122), (118, 96146),

Gene: ErnieJ_21 Start: 6386, Stop: 6919, Start Num: 41
Candidate Starts for ErnieJ_21:
(Start: 41 @6386 has 131 MA's), (54, 6434), (76, 6515), (79, 6530), (80, 6533), (81, 6536), (86, 6563), (90, 6578), (95, 6596), (102, 6617), (113, 6680), (114, 6683), (118, 6704), (125, 6815), (127, 6845), (128, 6899),

Gene: Essence_17 Start: 5211, Stop: 5744, Start Num: 41
Candidate Starts for Essence_17:
(Start: 41 @5211 has 131 MA's), (54, 5259), (76, 5340), (79, 5355), (80, 5358), (81, 5361), (86, 5388), (90, 5403), (95, 5421), (102, 5442), (113, 5505), (114, 5508), (118, 5529), (125, 5640), (127, 5670), (128, 5724),

Gene: Evamon_71 Start: 49838, Stop: 50176, Start Num: 47
Candidate Starts for Evamon_71:
(43, 49826), (Start: 47 @49838 has 11 MA's), (59, 49889), (71, 49907), (74, 49916), (95, 50006), (116, 50114), (118, 50123),

Gene: EverythinBagel_5 Start: 2184, Stop: 1819, Start Num: 50
Candidate Starts for EverythinBagel_5:

(4, 2448), (5, 2421), (11, 2367), (Start: 50 @2184 has 27 MA's), (59, 2133), (81, 2061), (95, 2001), (100, 1983), (103, 1977), (108, 1941), (110, 1923), (111, 1917), (118, 1875),

Gene: Ewok_18 Start: 6280, Stop: 6858, Start Num: 41
Candidate Starts for Ewok_18:
(Start: 41 @6280 has 131 MA's), (57, 6358), (62, 6391), (69, 6412), (91, 6505), (97, 6526), (109, 6583), (110, 6595), (113, 6619), (114, 6622), (116, 6634), (118, 6643), (125, 6754), (127, 6784), (128, 6838),

Gene: Faith5x5_57 Start: 35656, Stop: 36027, Start Num: 46
Candidate Starts for Faith5x5_57:
(Start: 44 @35650 has 3 MA's), (Start: 46 @35656 has 2 MA's), (53, 35683), (75, 35755), (76, 35764), (79, 35779), (80, 35782), (83, 35794), (98, 35848), (115, 35941), (118, 35956), (119, 35980), (123, 36019),

Gene: Fireball_75 Start: 50740, Stop: 51090, Start Num: 47
Candidate Starts for Fireball_75:
(10, 50548), (15, 50611), (22, 50671), (Start: 47 @50740 has 11 MA's), (59, 50803), (74, 50830), (95, 50920), (116, 51028), (118, 51037),

Gene: Fixie_16 Start: 5196, Stop: 5729, Start Num: 41
Candidate Starts for Fixie_16:
(Start: 41 @5196 has 131 MA's), (54, 5244), (76, 5325), (79, 5340), (80, 5343), (81, 5346), (86, 5373), (90, 5388), (95, 5406), (102, 5427), (113, 5490), (114, 5493), (118, 5514), (125, 5625), (127, 5655), (128, 5709),

Gene: Fizzles_7 Start: 2470, Stop: 2108, Start Num: 50
Candidate Starts for Fizzles_7:
(Start: 50 @2470 has 27 MA's), (60, 2416), (70, 2395), (75, 2380), (92, 2305), (95, 2290), (100, 2272), (105, 2260), (108, 2230), (110, 2212), (111, 2206), (118, 2164),

Gene: Fludd_17 Start: 5197, Stop: 5730, Start Num: 41
Candidate Starts for Fludd_17:
(Start: 41 @5197 has 131 MA's), (54, 5245), (76, 5326), (79, 5341), (80, 5344), (81, 5347), (86, 5374), (90, 5389), (95, 5407), (102, 5428), (113, 5491), (114, 5494), (118, 5515), (125, 5626), (127, 5656), (128, 5710),

Gene: Fongie_18 Start: 6280, Stop: 6858, Start Num: 41
Candidate Starts for Fongie_18:
(Start: 41 @6280 has 131 MA's), (57, 6358), (62, 6391), (69, 6412), (91, 6505), (97, 6526), (109, 6583), (110, 6595), (113, 6619), (114, 6622), (116, 6634), (118, 6643), (125, 6754), (127, 6784), (128, 6838),

Gene: FoxtrotP1_19 Start: 6839, Stop: 7417, Start Num: 41
Candidate Starts for FoxtrotP1_19:
(Start: 41 @6839 has 131 MA's), (57, 6917), (62, 6950), (69, 6971), (91, 7064), (97, 7085), (109, 7142), (110, 7154), (113, 7178), (114, 7181), (116, 7193), (118, 7202), (125, 7313), (127, 7343), (128, 7397),

Gene: FudgeTart_19 Start: 6280, Stop: 6858, Start Num: 41
Candidate Starts for FudgeTart_19:
(Start: 41 @6280 has 131 MA's), (57, 6358), (62, 6391), (69, 6412), (91, 6505), (97, 6526), (109, 6583), (110, 6595), (113, 6619), (114, 6622), (116, 6634), (118, 6643), (125, 6754), (127, 6784), (128, 6838),

Gene: Fugax_74 Start: 50054, Stop: 50404, Start Num: 47
Candidate Starts for Fugax_74:

(10, 49862), (15, 49925), (22, 49985), (Start: 47 @50054 has 11 MA's), (59, 50117), (74, 50144), (95, 50234), (116, 50342), (118, 50351),

Gene: Gabriel_18 Start: 5211, Stop: 5744, Start Num: 41
Candidate Starts for Gabriel_18:
(Start: 41 @5211 has 131 MA's), (54, 5259), (76, 5340), (79, 5355), (80, 5358), (81, 5361), (86, 5388), (90, 5403), (95, 5421), (102, 5442), (113, 5505), (114, 5508), (118, 5529), (125, 5640), (127, 5670), (128, 5724),

Gene: Gamgam_17 Start: 5215, Stop: 5748, Start Num: 41
Candidate Starts for Gamgam_17:
(Start: 41 @5215 has 131 MA's), (54, 5263), (76, 5344), (79, 5359), (80, 5362), (81, 5365), (86, 5392), (90, 5407), (95, 5425), (102, 5446), (113, 5509), (114, 5512), (118, 5533), (125, 5644), (127, 5674), (128, 5728),

Gene: Gazebo_5 Start: 2065, Stop: 1700, Start Num: 50
Candidate Starts for Gazebo_5:
(21, 2137), (Start: 50 @2065 has 27 MA's), (59, 2014), (81, 1942), (95, 1882), (96, 1879), (100, 1864), (103, 1858), (108, 1822), (110, 1804), (118, 1756),

Gene: Ghost_18 Start: 5215, Stop: 5748, Start Num: 41
Candidate Starts for Ghost_18:
(Start: 41 @5215 has 131 MA's), (54, 5263), (76, 5344), (79, 5359), (80, 5362), (81, 5365), (86, 5392), (90, 5407), (95, 5425), (102, 5446), (113, 5509), (114, 5512), (118, 5533), (125, 5644), (127, 5674), (128, 5728),

Gene: Gizmo_20 Start: 6280, Stop: 6858, Start Num: 41
Candidate Starts for Gizmo_20:
(Start: 41 @6280 has 131 MA's), (57, 6358), (62, 6391), (69, 6412), (91, 6505), (97, 6526), (109, 6583), (110, 6595), (113, 6619), (114, 6622), (116, 6634), (118, 6643), (125, 6754), (127, 6784), (128, 6838),

Gene: GlutenPhree_18 Start: 5215, Stop: 5748, Start Num: 41
Candidate Starts for GlutenPhree_18:
(Start: 41 @5215 has 131 MA's), (54, 5263), (76, 5344), (79, 5359), (80, 5362), (81, 5365), (86, 5392), (90, 5407), (95, 5425), (102, 5446), (113, 5509), (114, 5512), (118, 5533), (125, 5644), (127, 5674), (128, 5728),

Gene: Gorpy_50 Start: 31667, Stop: 32041, Start Num: 50
Candidate Starts for Gorpy_50:
(48, 31658), (Start: 50 @31667 has 27 MA's), (93, 31841), (95, 31847), (104, 31874), (113, 31949),

Gene: Grasshills_22 Start: 7585, Stop: 8118, Start Num: 41
Candidate Starts for Grasshills_22:
(Start: 41 @7585 has 131 MA's), (45, 7597), (54, 7633), (76, 7714), (79, 7729), (80, 7732), (81, 7735), (86, 7762), (90, 7777), (95, 7795), (102, 7816), (113, 7879), (114, 7882), (118, 7903), (125, 8014), (127, 8044), (128, 8098),

Gene: Guwapp_17 Start: 5211, Stop: 5744, Start Num: 41
Candidate Starts for Guwapp_17:
(Start: 41 @5211 has 131 MA's), (54, 5259), (76, 5340), (79, 5355), (80, 5358), (81, 5361), (86, 5388), (90, 5403), (95, 5421), (102, 5442), (113, 5505), (114, 5508), (118, 5529), (125, 5640), (127, 5670), (128, 5724),

Gene: HokkenD_180 Start: 96244, Stop: 96603, Start Num: 36
Candidate Starts for HokkenD_180:
(Start: 36 @96244 has 4 MA's), (Start: 39 @96247 has 12 MA's), (54, 96298), (74, 96328), (81, 96364), (90, 96406), (95, 96424), (113, 96508), (118, 96532),

Gene: Hyperion_6 Start: 2102, Stop: 1737, Start Num: 50
Candidate Starts for Hyperion_6:
(21, 2174), (Start: 50 @2102 has 27 MA's), (59, 2051), (81, 1979), (95, 1919), (96, 1916), (100, 1901), (103, 1895), (108, 1859), (110, 1841), (113, 1817), (118, 1793),

Gene: I3_20 Start: 6874, Stop: 7407, Start Num: 41
Candidate Starts for I3_20:
(Start: 41 @6874 has 131 MA's), (45, 6886), (54, 6922), (76, 7003), (79, 7018), (80, 7021), (86, 7051), (90, 7066), (95, 7084), (102, 7105), (113, 7168), (114, 7171), (116, 7183), (118, 7192), (125, 7303), (127, 7333),

Gene: InigoMontoya_19 Start: 5215, Stop: 5748, Start Num: 41
Candidate Starts for InigoMontoya_19:
(Start: 41 @5215 has 131 MA's), (54, 5263), (76, 5344), (79, 5359), (80, 5362), (81, 5365), (86, 5392), (90, 5407), (95, 5425), (102, 5446), (113, 5509), (114, 5512), (118, 5533), (125, 5644), (127, 5674), (128, 5728),

Gene: Iota_16 Start: 6059, Stop: 6637, Start Num: 41
Candidate Starts for Iota_16:
(Start: 41 @6059 has 131 MA's), (57, 6137), (62, 6170), (69, 6191), (91, 6284), (97, 6305), (109, 6362), (110, 6374), (113, 6398), (114, 6401), (116, 6413), (118, 6422), (125, 6533), (127, 6563), (128, 6617),

Gene: Issimir_18 Start: 6274, Stop: 6852, Start Num: 41
Candidate Starts for Issimir_18:
(Start: 41 @6274 has 131 MA's), (57, 6352), (62, 6385), (69, 6406), (91, 6499), (97, 6520), (109, 6577), (110, 6589), (113, 6613), (114, 6616), (116, 6628), (118, 6637), (125, 6748), (127, 6778), (128, 6832),

Gene: Izajani_19 Start: 6280, Stop: 6858, Start Num: 41
Candidate Starts for Izajani_19:
(Start: 41 @6280 has 131 MA's), (57, 6358), (62, 6391), (69, 6412), (91, 6505), (97, 6526), (109, 6583), (110, 6595), (113, 6619), (114, 6622), (116, 6634), (118, 6643), (125, 6754), (127, 6784), (128, 6838),

Gene: JPickles_17 Start: 5215, Stop: 5748, Start Num: 41
Candidate Starts for JPickles_17:
(Start: 41 @5215 has 131 MA's), (54, 5263), (76, 5344), (79, 5359), (80, 5362), (81, 5365), (86, 5392), (90, 5407), (95, 5425), (102, 5446), (113, 5509), (114, 5512), (118, 5533), (125, 5644), (127, 5674), (128, 5728),

Gene: Janiyra_17 Start: 5194, Stop: 5727, Start Num: 41
Candidate Starts for Janiyra_17:
(Start: 41 @5194 has 131 MA's), (54, 5242), (76, 5323), (79, 5338), (80, 5341), (81, 5344), (86, 5371), (90, 5386), (95, 5404), (102, 5425), (113, 5488), (114, 5491), (118, 5512), (125, 5623), (127, 5653), (128, 5707),

Gene: JayJay_21 Start: 6302, Stop: 6835, Start Num: 41
Candidate Starts for JayJay_21:
(Start: 41 @6302 has 131 MA's), (45, 6314), (54, 6350), (76, 6431), (79, 6446), (80, 6449), (81, 6452), (86, 6479), (90, 6494), (95, 6512), (102, 6533), (113, 6596), (114, 6599), (116, 6611), (118, 6620),

(125, 6731), (127, 6761), (128, 6815),

Gene: Jaygup_17 Start: 5211, Stop: 5744, Start Num: 41
Candidate Starts for Jaygup_17:
(Start: 41 @5211 has 131 MA's), (54, 5259), (76, 5340), (79, 5355), (80, 5358), (81, 5361), (86, 5388), (90, 5403), (95, 5421), (102, 5442), (113, 5505), (114, 5508), (118, 5529), (125, 5640), (127, 5670), (128, 5724),

Gene: Jedediah_18 Start: 5215, Stop: 5748, Start Num: 41
Candidate Starts for Jedediah_18:
(Start: 41 @5215 has 131 MA's), (54, 5263), (76, 5344), (79, 5359), (80, 5362), (81, 5365), (86, 5392), (90, 5407), (95, 5425), (102, 5446), (113, 5509), (114, 5512), (118, 5533), (125, 5644), (127, 5674), (128, 5728),

Gene: Jemmno_17 Start: 5215, Stop: 5748, Start Num: 41
Candidate Starts for Jemmno_17:
(Start: 41 @5215 has 131 MA's), (54, 5263), (76, 5344), (79, 5359), (80, 5362), (81, 5365), (86, 5392), (90, 5407), (95, 5425), (102, 5446), (113, 5509), (114, 5512), (118, 5533), (125, 5644), (127, 5674), (128, 5728),

Gene: Jessibeth14_18 Start: 6280, Stop: 6858, Start Num: 41
Candidate Starts for Jessibeth14_18:
(Start: 41 @6280 has 131 MA's), (57, 6358), (62, 6391), (69, 6412), (91, 6505), (97, 6526), (109, 6583), (110, 6595), (113, 6619), (114, 6622), (116, 6634), (118, 6643), (125, 6754), (127, 6784), (128, 6838),

Gene: JigglyPuff_19 Start: 6330, Stop: 6863, Start Num: 41
Candidate Starts for JigglyPuff_19:
(Start: 41 @6330 has 131 MA's), (45, 6342), (54, 6378), (76, 6459), (79, 6474), (80, 6477), (81, 6480), (86, 6507), (90, 6522), (95, 6540), (102, 6561), (113, 6624), (114, 6627), (118, 6648), (125, 6759), (127, 6789), (128, 6843),

Gene: JohnLord_70 Start: 50929, Stop: 51282, Start Num: 37
Candidate Starts for JohnLord_70:
(18, 50869), (32, 50920), (Start: 37 @50929 has 2 MA's), (51, 50971), (79, 51043), (81, 51049), (88, 51082), (91, 51094), (95, 51109), (113, 51193), (117, 51214),

Gene: JustHall_17 Start: 6210, Stop: 6743, Start Num: 41
Candidate Starts for JustHall_17:
(Start: 41 @6210 has 131 MA's), (54, 6258), (76, 6339), (79, 6354), (80, 6357), (81, 6360), (86, 6387), (90, 6402), (95, 6420), (102, 6441), (113, 6504), (114, 6507), (118, 6528), (125, 6639), (127, 6669), (128, 6723),

Gene: Kboogie_18 Start: 5213, Stop: 5746, Start Num: 41
Candidate Starts for Kboogie_18:
(Start: 41 @5213 has 131 MA's), (54, 5261), (76, 5342), (79, 5357), (80, 5360), (81, 5363), (86, 5390), (90, 5405), (95, 5423), (102, 5444), (113, 5507), (114, 5510), (118, 5531), (125, 5642), (127, 5672), (128, 5726),

Gene: Kelcole_4 Start: 1820, Stop: 1458, Start Num: 50
Candidate Starts for Kelcole_4:
(34, 1865), (Start: 50 @1820 has 27 MA's), (60, 1766), (70, 1745), (81, 1700), (95, 1640), (100, 1622), (105, 1610), (108, 1580), (110, 1562), (111, 1556), (118, 1514),

Gene: Khaleesi_18 Start: 6280, Stop: 6858, Start Num: 41
Candidate Starts for Khaleesi_18:
(Start: 41 @6280 has 131 MA's), (57, 6358), (62, 6391), (69, 6412), (91, 6505), (97, 6526), (109, 6583), (110, 6595), (113, 6619), (114, 6622), (116, 6634), (118, 6643), (125, 6754), (127, 6784), (128, 6838),

Gene: Klein_191 Start: 94673, Stop: 95032, Start Num: 36
Candidate Starts for Klein_191:
(Start: 36 @94673 has 4 MA's), (Start: 39 @94676 has 12 MA's), (54, 94727), (74, 94757), (81, 94793), (90, 94835), (95, 94853), (113, 94937), (118, 94961),

Gene: Labradorite_18 Start: 5211, Stop: 5744, Start Num: 41
Candidate Starts for Labradorite_18:
(Start: 41 @5211 has 131 MA's), (54, 5259), (76, 5340), (79, 5355), (80, 5358), (81, 5361), (86, 5388), (90, 5403), (95, 5421), (102, 5442), (113, 5505), (114, 5508), (118, 5529), (125, 5640), (127, 5670), (128, 5724),

Gene: Latch_17 Start: 5215, Stop: 5748, Start Num: 41
Candidate Starts for Latch_17:
(Start: 41 @5215 has 131 MA's), (54, 5263), (76, 5344), (79, 5359), (80, 5362), (81, 5365), (86, 5392), (90, 5407), (95, 5425), (102, 5446), (113, 5509), (114, 5512), (118, 5533), (125, 5644), (127, 5674), (128, 5728),

Gene: Lee7_20 Start: 6280, Stop: 6858, Start Num: 41
Candidate Starts for Lee7_20:
(Start: 41 @6280 has 131 MA's), (57, 6358), (62, 6391), (69, 6412), (91, 6505), (97, 6526), (109, 6583), (110, 6595), (113, 6619), (114, 6622), (116, 6634), (118, 6643), (125, 6754), (127, 6784), (128, 6838),

Gene: LifeSavor_18 Start: 5211, Stop: 5744, Start Num: 41
Candidate Starts for LifeSavor_18:
(Start: 41 @5211 has 131 MA's), (54, 5259), (76, 5340), (79, 5355), (80, 5358), (81, 5361), (86, 5388), (90, 5403), (95, 5421), (102, 5442), (113, 5505), (114, 5508), (118, 5529), (125, 5640), (127, 5670), (128, 5724),

Gene: LilCahh_6 Start: 2220, Stop: 1858, Start Num: 50
Candidate Starts for LilCahh_6:
(Start: 41 @2238 has 131 MA's), (Start: 50 @2220 has 27 MA's), (60, 2166), (70, 2145), (76, 2121), (81, 2100), (95, 2040), (102, 2019), (104, 2013), (108, 1980), (110, 1962), (111, 1956), (118, 1914),

Gene: LilSaint_186 Start: 98745, Stop: 99089, Start Num: 49
Candidate Starts for LilSaint_186:
(Start: 49 @98745 has 5 MA's), (59, 98793), (60, 98796), (79, 98856), (89, 98901), (93, 98916), (116, 99021), (119, 99054),

Gene: Littleton_18 Start: 5215, Stop: 5748, Start Num: 41
Candidate Starts for Littleton_18:
(Start: 41 @5215 has 131 MA's), (54, 5263), (76, 5344), (79, 5359), (80, 5362), (81, 5365), (86, 5392), (90, 5407), (95, 5425), (102, 5446), (113, 5509), (114, 5512), (118, 5533), (125, 5644), (127, 5674), (128, 5728),

Gene: Llemily_7 Start: 2086, Stop: 1724, Start Num: 50
Candidate Starts for Llemily_7:
(4, 2350), (5, 2323), (11, 2269), (Start: 50 @2086 has 27 MA's), (70, 2011), (76, 1987), (81, 1966), (92, 1921), (95, 1906), (102, 1885), (104, 1879), (106, 1867), (108, 1846), (110, 1828), (111, 1822), (113,

1804), (118, 1780),

Gene: Loanshark_18 Start: 6280, Stop: 6858, Start Num: 41
Candidate Starts for Loanshark_18:
(Start: 41 @6280 has 131 MA's), (57, 6358), (62, 6391), (69, 6412), (91, 6505), (97, 6526), (109, 6583), (110, 6595), (113, 6619), (114, 6622), (116, 6634), (118, 6643), (125, 6754), (127, 6784), (128, 6838),

Gene: Lunareta_18 Start: 6007, Stop: 6540, Start Num: 41
Candidate Starts for Lunareta_18:
(Start: 41 @6007 has 131 MA's), (45, 6019), (54, 6055), (76, 6136), (79, 6151), (80, 6154), (86, 6184), (90, 6199), (95, 6217), (102, 6238), (113, 6301), (114, 6304), (116, 6316), (118, 6325), (125, 6436), (127, 6466), (128, 6520),

Gene: Maby2021_19 Start: 6280, Stop: 6858, Start Num: 41
Candidate Starts for Maby2021_19:
(Start: 41 @6280 has 131 MA's), (57, 6358), (62, 6391), (69, 6412), (91, 6505), (97, 6526), (109, 6583), (110, 6595), (113, 6619), (114, 6622), (116, 6634), (118, 6643), (125, 6754), (127, 6784), (128, 6838),

Gene: Mangeria_21 Start: 6912, Stop: 7253, Start Num: 41
Candidate Starts for Mangeria_21:
(Start: 41 @6912 has 131 MA's), (45, 6924), (76, 7014), (79, 7029), (95, 7095), (107, 7131), (113, 7179), (114, 7182), (116, 7194), (118, 7203),

Gene: Mask_69 Start: 53936, Stop: 54289, Start Num: 37
Candidate Starts for Mask_69:
(18, 53876), (32, 53927), (Start: 37 @53936 has 2 MA's), (51, 53978), (79, 54050), (81, 54056), (88, 54089), (91, 54101), (95, 54116), (113, 54200), (117, 54221),

Gene: Matsumoto_17 Start: 5215, Stop: 5748, Start Num: 41
Candidate Starts for Matsumoto_17:
(Start: 41 @5215 has 131 MA's), (54, 5263), (76, 5344), (79, 5359), (80, 5362), (81, 5365), (86, 5392), (90, 5407), (95, 5425), (102, 5446), (113, 5509), (114, 5512), (118, 5533), (125, 5644), (127, 5674), (128, 5728),

Gene: Maturis_19 Start: 6070, Stop: 6603, Start Num: 41
Candidate Starts for Maturis_19:
(Start: 41 @6070 has 131 MA's), (45, 6082), (54, 6118), (76, 6199), (79, 6214), (80, 6217), (81, 6220), (86, 6247), (90, 6262), (95, 6280), (102, 6301), (113, 6364), (114, 6367), (118, 6388), (125, 6499), (127, 6529), (128, 6583),

Gene: McGee_18 Start: 5213, Stop: 5746, Start Num: 41
Candidate Starts for McGee_18:
(Start: 41 @5213 has 131 MA's), (54, 5261), (76, 5342), (79, 5357), (80, 5360), (81, 5363), (86, 5390), (90, 5405), (95, 5423), (102, 5444), (113, 5507), (114, 5510), (118, 5531), (125, 5642), (127, 5672), (128, 5726),

Gene: McWolfish_18 Start: 6280, Stop: 6858, Start Num: 41
Candidate Starts for McWolfish_18:
(Start: 41 @6280 has 131 MA's), (57, 6358), (62, 6391), (69, 6412), (91, 6505), (97, 6526), (109, 6583), (110, 6595), (113, 6619), (114, 6622), (116, 6634), (118, 6643), (125, 6754), (127, 6784), (128, 6838),

Gene: Megamind_18 Start: 6280, Stop: 6858, Start Num: 41
Candidate Starts for Megamind_18:

(Start: 41 @6280 has 131 MA's), (57, 6358), (62, 6391), (69, 6412), (91, 6505), (97, 6526), (109, 6583), (110, 6595), (113, 6619), (114, 6622), (116, 6634), (118, 6643), (125, 6754), (127, 6784), (128, 6838),

Gene: MelBins_16 Start: 11228, Stop: 11590, Start Num: 44
Candidate Starts for MelBins_16:
(8, 11030), (12, 11084), (24, 11171), (27, 11183), (Start: 44 @11228 has 3 MA's), (Start: 46 @11234 has 2 MA's), (53, 11261), (56, 11276), (65, 11309), (77, 11345), (79, 11357), (83, 11372), (103, 11441), (118, 11534), (121, 11564),

Gene: Melpomini_17 Start: 5194, Stop: 5727, Start Num: 41
Candidate Starts for Melpomini_17:
(Start: 41 @5194 has 131 MA's), (54, 5242), (76, 5323), (79, 5338), (80, 5341), (81, 5344), (86, 5371), (90, 5386), (95, 5404), (102, 5425), (113, 5488), (114, 5491), (118, 5512), (125, 5623), (127, 5653), (128, 5707),

Gene: Mentos_8 Start: 2847, Stop: 2482, Start Num: 50
Candidate Starts for Mentos_8:
(5, 3084), (21, 2919), (Start: 50 @2847 has 27 MA's), (59, 2796), (81, 2724), (95, 2664), (100, 2646), (103, 2640), (108, 2604), (110, 2586), (111, 2580), (113, 2562), (118, 2538),

Gene: MikeLiesIn_19 Start: 6280, Stop: 6858, Start Num: 41
Candidate Starts for MikeLiesIn_19:
(Start: 41 @6280 has 131 MA's), (57, 6358), (62, 6391), (69, 6412), (91, 6505), (97, 6526), (109, 6583), (110, 6595), (113, 6619), (114, 6622), (116, 6634), (118, 6643), (125, 6754), (127, 6784), (128, 6838),

Gene: Mila11_8 Start: 2689, Stop: 2324, Start Num: 50
Candidate Starts for Mila11_8:
(Start: 50 @2689 has 27 MA's), (59, 2638), (81, 2566), (95, 2506), (96, 2503), (100, 2488), (103, 2482), (108, 2446), (110, 2428), (118, 2380),

Gene: Minerva_187 Start: 94312, Stop: 94668, Start Num: 39
Candidate Starts for Minerva_187:
(Start: 36 @94309 has 4 MA's), (Start: 39 @94312 has 12 MA's), (54, 94363), (74, 94393), (81, 94429), (90, 94471), (95, 94489), (113, 94573), (118, 94597),

Gene: Momo_17 Start: 5215, Stop: 5748, Start Num: 41
Candidate Starts for Momo_17:
(Start: 41 @5215 has 131 MA's), (54, 5263), (76, 5344), (79, 5359), (80, 5362), (81, 5365), (86, 5392), (90, 5407), (95, 5425), (102, 5446), (113, 5509), (114, 5512), (118, 5533), (125, 5644), (127, 5674), (128, 5728),

Gene: Montpel_18 Start: 6007, Stop: 6540, Start Num: 41
Candidate Starts for Montpel_18:
(Start: 41 @6007 has 131 MA's), (45, 6019), (54, 6055), (76, 6136), (79, 6151), (80, 6154), (86, 6184), (90, 6199), (95, 6217), (102, 6238), (113, 6301), (114, 6304), (116, 6316), (118, 6325), (125, 6436), (127, 6466), (128, 6520),

Gene: Morizzled23_17 Start: 5194, Stop: 5727, Start Num: 41
Candidate Starts for Morizzled23_17:
(Start: 41 @5194 has 131 MA's), (54, 5242), (76, 5323), (79, 5338), (80, 5341), (81, 5344), (86, 5371), (90, 5386), (95, 5404), (102, 5425), (113, 5488), (114, 5491), (118, 5512), (125, 5623), (127, 5653), (128, 5707),

Gene: Mugiwara_203 Start: 101653, Stop: 101997, Start Num: 49
Candidate Starts for Mugiwara_203:
(Start: 49 @101653 has 5 MA's), (59, 101701), (76, 101749), (84, 101782), (85, 101791), (93, 101824), (116, 101929), (118, 101938), (119, 101962),

Gene: Mutzi_70 Start: 50930, Stop: 51268, Start Num: 47
Candidate Starts for Mutzi_70:
(7, 50729), (13, 50798), (43, 50918), (Start: 47 @50930 has 11 MA's), (59, 50981), (74, 51008), (95, 51098), (116, 51206), (118, 51215),

Gene: Myrna_1 Start: 1, Stop: 540, Start Num: 25
Candidate Starts for Myrna_1:
(Start: 25 @1 has 1 MA's), (45, 52), (72, 124), (76, 145), (81, 166), (95, 229), (97, 235), (113, 316), (117, 337), (118, 340), (122, 391), (124, 442),

Gene: Naija_17 Start: 5215, Stop: 5748, Start Num: 41
Candidate Starts for Naija_17:
(Start: 41 @5215 has 131 MA's), (54, 5263), (76, 5344), (79, 5359), (80, 5362), (81, 5365), (86, 5392), (90, 5407), (95, 5425), (102, 5446), (113, 5509), (114, 5512), (118, 5533), (125, 5644), (127, 5674), (128, 5728),

Gene: Napoleon13_17 Start: 5213, Stop: 5746, Start Num: 41
Candidate Starts for Napoleon13_17:
(Start: 41 @5213 has 131 MA's), (54, 5261), (76, 5342), (79, 5357), (80, 5360), (81, 5363), (86, 5390), (90, 5405), (95, 5423), (102, 5444), (113, 5507), (114, 5510), (118, 5531), (125, 5642), (127, 5672), (128, 5726),

Gene: Nappy_20 Start: 6498, Stop: 7031, Start Num: 41
Candidate Starts for Nappy_20:
(Start: 41 @6498 has 131 MA's), (45, 6510), (54, 6546), (76, 6627), (79, 6642), (80, 6645), (81, 6648), (86, 6675), (90, 6690), (95, 6708), (102, 6729), (113, 6792), (114, 6795), (118, 6816), (125, 6927), (127, 6957), (128, 7011),

Gene: NedWong_19 Start: 6280, Stop: 6858, Start Num: 41
Candidate Starts for NedWong_19:
(Start: 41 @6280 has 131 MA's), (57, 6358), (62, 6391), (69, 6412), (91, 6505), (97, 6526), (109, 6583), (110, 6595), (113, 6619), (114, 6622), (116, 6634), (118, 6643), (125, 6754), (127, 6784), (128, 6838),

Gene: Ngannou_17 Start: 5194, Stop: 5727, Start Num: 41
Candidate Starts for Ngannou_17:
(Start: 41 @5194 has 131 MA's), (54, 5242), (76, 5323), (79, 5338), (80, 5341), (81, 5344), (86, 5371), (90, 5386), (95, 5404), (102, 5425), (113, 5488), (114, 5491), (118, 5512), (125, 5623), (127, 5653), (128, 5707),

Gene: Norm_18 Start: 6280, Stop: 6858, Start Num: 41
Candidate Starts for Norm_18:
(Start: 41 @6280 has 131 MA's), (57, 6358), (62, 6391), (69, 6412), (91, 6505), (97, 6526), (109, 6583), (110, 6595), (113, 6619), (114, 6622), (116, 6634), (118, 6643), (125, 6754), (127, 6784), (128, 6838),

Gene: Optimus_185 Start: 95228, Stop: 95584, Start Num: 39
Candidate Starts for Optimus_185:
(Start: 36 @95225 has 4 MA's), (Start: 39 @95228 has 12 MA's), (54, 95279), (74, 95309), (81, 95345), (90, 95387), (95, 95405), (113, 95489), (118, 95513),

Gene: OrediggerDelux_20 Start: 6280, Stop: 6858, Start Num: 41
Candidate Starts for OrediggerDelux_20:
(Start: 41 @6280 has 131 MA's), (57, 6358), (62, 6391), (69, 6412), (91, 6505), (97, 6526), (109, 6583), (110, 6595), (113, 6619), (114, 6622), (116, 6634), (118, 6643), (125, 6754), (127, 6784), (128, 6838),

Gene: ParkTD_18 Start: 6280, Stop: 6858, Start Num: 41
Candidate Starts for ParkTD_18:
(Start: 41 @6280 has 131 MA's), (57, 6358), (62, 6391), (69, 6412), (91, 6505), (97, 6526), (109, 6583), (110, 6595), (113, 6619), (114, 6622), (116, 6634), (118, 6643), (125, 6754), (127, 6784), (128, 6838),

Gene: Patter_17 Start: 5232, Stop: 5765, Start Num: 41
Candidate Starts for Patter_17:
(Start: 41 @5232 has 131 MA's), (54, 5280), (76, 5361), (79, 5376), (80, 5379), (81, 5382), (86, 5409), (90, 5424), (95, 5442), (102, 5463), (113, 5526), (114, 5529), (118, 5550), (125, 5661), (127, 5691), (128, 5745),

Gene: PauloDiaboli_43 Start: 16043, Stop: 15558, Start Num: 35
Candidate Starts for PauloDiaboli_43:
(33, 16046), (Start: 35 @16043 has 4 MA's), (76, 15938), (79, 15923), (83, 15908), (118, 15743), (126, 15614),

Gene: Pepe25_4 Start: 1900, Stop: 1487, Start Num: 29
Candidate Starts for Pepe25_4:
(Start: 29 @1900 has 4 MA's), (55, 1825), (61, 1777), (78, 1723), (95, 1660), (101, 1642), (118, 1543), (120, 1516),

Gene: Phabia_8 Start: 2516, Stop: 2154, Start Num: 50
Candidate Starts for Phabia_8:
(Start: 41 @2534 has 131 MA's), (Start: 50 @2516 has 27 MA's), (60, 2462), (70, 2441), (76, 2417), (81, 2396), (95, 2336), (102, 2315), (104, 2309), (106, 2297), (108, 2276), (110, 2258), (111, 2252), (113, 2234), (118, 2210),

Gene: Phinky_12 Start: 3235, Stop: 2873, Start Num: 50
Candidate Starts for Phinky_12:
(14, 3382), (Start: 50 @3235 has 27 MA's), (76, 3136), (79, 3121), (95, 3055), (102, 3034), (108, 2995), (110, 2977), (111, 2971), (113, 2953), (118, 2929),

Gene: Phlegm_19 Start: 5215, Stop: 5748, Start Num: 41
Candidate Starts for Phlegm_19:
(Start: 41 @5215 has 131 MA's), (54, 5263), (76, 5344), (79, 5359), (80, 5362), (81, 5365), (86, 5392), (90, 5407), (95, 5425), (102, 5446), (113, 5509), (114, 5512), (118, 5533), (125, 5644), (127, 5674), (128, 5728),

Gene: Phoebus_187 Start: 97707, Stop: 98063, Start Num: 39
Candidate Starts for Phoebus_187:
(Start: 36 @97704 has 4 MA's), (Start: 39 @97707 has 12 MA's), (54, 97758), (74, 97788), (81, 97824), (90, 97866), (95, 97884), (113, 97968), (118, 97992),

Gene: Phusco_17 Start: 5211, Stop: 5744, Start Num: 41
Candidate Starts for Phusco_17:
(Start: 41 @5211 has 131 MA's), (54, 5259), (76, 5340), (79, 5355), (80, 5358), (81, 5361), (86, 5388), (90, 5403), (95, 5421), (102, 5442), (113, 5505), (114, 5508), (118, 5529), (125, 5640), (127, 5670),

(128, 5724),

Gene: PinkCoffee_73 Start: 50084, Stop: 50434, Start Num: 47
Candidate Starts for PinkCoffee_73:
(10, 49892), (15, 49955), (22, 50015), (Start: 47 @50084 has 11 MA's), (59, 50147), (74, 50174), (95, 50264), (116, 50372), (118, 50381),

Gene: Pivoine_17 Start: 5215, Stop: 5748, Start Num: 41
Candidate Starts for Pivoine_17:
(Start: 41 @5215 has 131 MA's), (54, 5263), (76, 5344), (79, 5359), (80, 5362), (81, 5365), (86, 5392), (90, 5407), (95, 5425), (102, 5446), (113, 5509), (114, 5512), (118, 5533), (125, 5644), (127, 5674), (128, 5728),

Gene: Pleione_20 Start: 6280, Stop: 6858, Start Num: 41
Candidate Starts for Pleione_20:
(Start: 41 @6280 has 131 MA's), (57, 6358), (62, 6391), (69, 6412), (91, 6505), (97, 6526), (109, 6583), (110, 6595), (113, 6619), (114, 6622), (116, 6634), (118, 6643), (125, 6754), (127, 6784), (128, 6838),

Gene: Pupper_80 Start: 30770, Stop: 31141, Start Num: 40
Candidate Starts for Pupper_80:
(Start: 40 @30770 has 3 MA's), (95, 30959), (107, 30995),

Gene: PurduePete_18 Start: 6280, Stop: 6858, Start Num: 41
Candidate Starts for PurduePete_18:
(Start: 41 @6280 has 131 MA's), (57, 6358), (62, 6391), (69, 6412), (91, 6505), (97, 6526), (109, 6583), (110, 6595), (113, 6619), (114, 6622), (116, 6634), (118, 6643), (125, 6754), (127, 6784), (128, 6838),

Gene: Quammi_6 Start: 2093, Stop: 1728, Start Num: 50
Candidate Starts for Quammi_6:
(4, 2357), (5, 2330), (11, 2276), (Start: 50 @2093 has 27 MA's), (59, 2042), (81, 1970), (95, 1910), (100, 1892), (103, 1886), (108, 1850), (110, 1832), (111, 1826), (113, 1808), (118, 1784),

Gene: Quasimodo_17 Start: 6214, Stop: 6747, Start Num: 41
Candidate Starts for Quasimodo_17:
(Start: 41 @6214 has 131 MA's), (54, 6262), (76, 6343), (79, 6358), (80, 6361), (81, 6364), (86, 6391), (90, 6406), (95, 6424), (102, 6445), (113, 6508), (114, 6511), (118, 6532), (125, 6643), (127, 6673), (128, 6727),

Gene: Rahel_17 Start: 5211, Stop: 5744, Start Num: 41
Candidate Starts for Rahel_17:
(Start: 41 @5211 has 131 MA's), (54, 5259), (76, 5340), (79, 5355), (80, 5358), (81, 5361), (86, 5388), (90, 5403), (95, 5421), (102, 5442), (113, 5505), (114, 5508), (118, 5529), (125, 5640), (127, 5670), (128, 5724),

Gene: RedWattleHog_155 Start: 105039, Stop: 105395, Start Num: 52
Candidate Starts for RedWattleHog_155:
(38, 105006), (Start: 52 @105039 has 2 MA's), (72, 105114), (80, 105153), (81, 105156), (87, 105186), (98, 105219), (102, 105231), (103, 105234), (105, 105240), (110, 105276), (113, 105300), (119, 105348),

Gene: Redno2_179 Start: 91820, Stop: 92176, Start Num: 39
Candidate Starts for Redno2_179:

(Start: 36 @91817 has 4 MA's), (Start: 39 @91820 has 12 MA's), (54, 91871), (74, 91901), (81, 91937), (90, 91979), (95, 91997), (113, 92081), (118, 92105),

Gene: Richie_52 Start: 31345, Stop: 31719, Start Num: 50
Candidate Starts for Richie_52:
(48, 31336), (Start: 50 @31345 has 27 MA's), (93, 31519), (95, 31525), (104, 31552), (113, 31627),

Gene: Riptide_186 Start: 98222, Stop: 98566, Start Num: 49
Candidate Starts for Riptide_186:
(Start: 49 @98222 has 5 MA's), (59, 98270), (60, 98273), (79, 98333), (89, 98378), (93, 98393), (116, 98498), (119, 98531),

Gene: Rita_67 Start: 40872, Stop: 41237, Start Num: 31
Candidate Starts for Rita_67:
(Start: 31 @40872 has 1 MA's), (Start: 37 @40884 has 2 MA's), (51, 40926), (79, 40998), (81, 41004), (88, 41037), (91, 41049), (95, 41064), (113, 41148), (117, 41169),

Gene: Rizal_17 Start: 5210, Stop: 5743, Start Num: 41
Candidate Starts for Rizal_17:
(Start: 41 @5210 has 131 MA's), (54, 5258), (76, 5339), (79, 5354), (80, 5357), (81, 5360), (86, 5387), (90, 5402), (95, 5420), (102, 5441), (113, 5504), (114, 5507), (118, 5528), (125, 5639), (127, 5669), (128, 5723),

Gene: Roots515_18 Start: 6279, Stop: 6857, Start Num: 41
Candidate Starts for Roots515_18:
(Start: 41 @6279 has 131 MA's), (57, 6357), (62, 6390), (69, 6411), (91, 6504), (97, 6525), (109, 6582), (110, 6594), (113, 6618), (114, 6621), (116, 6633), (118, 6642), (125, 6753), (127, 6783), (128, 6837),

Gene: Rudy_6 Start: 2093, Stop: 1728, Start Num: 50
Candidate Starts for Rudy_6:
(4, 2357), (5, 2330), (11, 2276), (Start: 50 @2093 has 27 MA's), (59, 2042), (81, 1970), (95, 1910), (100, 1892), (103, 1886), (108, 1850), (110, 1832), (111, 1826), (113, 1808), (118, 1784),

Gene: SCentae_78 Start: 30443, Stop: 30814, Start Num: 40
Candidate Starts for SCentae_78:
(1, 29993), (2, 30101), (Start: 40 @30443 has 3 MA's), (95, 30632), (107, 30668),

Gene: SG4_78 Start: 48359, Stop: 48742, Start Num: 39
Candidate Starts for SG4_78:
(Start: 39 @48359 has 12 MA's), (58, 48422), (68, 48446), (79, 48488), (81, 48494), (94, 48560), (95, 48563), (102, 48584), (104, 48590), (107, 48599), (113, 48647), (116, 48662), (118, 48671), (121, 48701),

Gene: SVoro_18 Start: 6274, Stop: 6852, Start Num: 41
Candidate Starts for SVoro_18:
(Start: 41 @6274 has 131 MA's), (57, 6352), (62, 6385), (69, 6406), (91, 6499), (97, 6520), (109, 6577), (110, 6589), (113, 6613), (114, 6616), (116, 6628), (118, 6637), (125, 6748), (127, 6778), (128, 6832),

Gene: SadLad_7 Start: 2504, Stop: 2139, Start Num: 49
Candidate Starts for SadLad_7:
(28, 2564), (30, 2561), (Start: 49 @2504 has 5 MA's), (Start: 50 @2501 has 27 MA's), (72, 2423), (76, 2402), (81, 2381), (92, 2336), (95, 2321), (99, 2306), (104, 2294), (105, 2291), (108, 2261), (110, 2243), (111, 2237),

Gene: Sakai_49 Start: 30378, Stop: 30752, Start Num: 50
Candidate Starts for Sakai_49:
(48, 30369), (Start: 50 @30378 has 27 MA's), (93, 30552), (95, 30558), (104, 30585), (113, 30660),

Gene: Salacia_20 Start: 6280, Stop: 6858, Start Num: 41
Candidate Starts for Salacia_20:
(Start: 41 @6280 has 131 MA's), (57, 6358), (62, 6391), (69, 6412), (91, 6505), (97, 6526), (109, 6583), (110, 6595), (113, 6619), (114, 6622), (116, 6634), (118, 6643), (125, 6754), (127, 6784), (128, 6838),

Gene: Salvador_71 Start: 49836, Stop: 50174, Start Num: 47
Candidate Starts for Salvador_71:
(43, 49824), (Start: 47 @49836 has 11 MA's), (59, 49887), (71, 49905), (74, 49914), (95, 50004), (116, 50112), (118, 50121),

Gene: Schatzie_181 Start: 94754, Stop: 95110, Start Num: 39
Candidate Starts for Schatzie_181:
(Start: 36 @94751 has 4 MA's), (Start: 39 @94754 has 12 MA's), (54, 94805), (74, 94835), (81, 94871), (90, 94913), (95, 94931), (113, 95015), (118, 95039),

Gene: ScottMcG_20 Start: 6836, Stop: 7414, Start Num: 41
Candidate Starts for ScottMcG_20:
(Start: 41 @6836 has 131 MA's), (57, 6914), (62, 6947), (69, 6968), (91, 7061), (97, 7082), (109, 7139), (110, 7151), (113, 7175), (114, 7178), (116, 7190), (118, 7199), (125, 7310), (127, 7340), (128, 7394),

Gene: Sejanus_68 Start: 52397, Stop: 52750, Start Num: 37
Candidate Starts for Sejanus_68:
(18, 52337), (32, 52388), (Start: 37 @52397 has 2 MA's), (51, 52439), (79, 52511), (81, 52517), (88, 52550), (91, 52562), (95, 52577), (113, 52661), (117, 52682),

Gene: Serenabean_81 Start: 49415, Stop: 49765, Start Num: 50
Candidate Starts for Serenabean_81:
(Start: 50 @49415 has 27 MA's), (59, 49463), (64, 49475), (72, 49487), (76, 49508), (92, 49574), (94, 49586), (95, 49589), (100, 49607),

Gene: Shelob_21 Start: 7454, Stop: 7987, Start Num: 41
Candidate Starts for Shelob_21:
(Start: 41 @7454 has 131 MA's), (45, 7466), (54, 7502), (76, 7583), (79, 7598), (80, 7601), (81, 7604), (86, 7631), (90, 7646), (95, 7664), (102, 7685), (113, 7748), (114, 7751), (118, 7772), (125, 7883), (127, 7913), (128, 7967),

Gene: ShiaLabeouf_17 Start: 5211, Stop: 5744, Start Num: 41
Candidate Starts for ShiaLabeouf_17:
(Start: 41 @5211 has 131 MA's), (54, 5259), (76, 5340), (79, 5355), (80, 5358), (81, 5361), (86, 5388), (90, 5403), (95, 5421), (102, 5442), (113, 5505), (114, 5508), (118, 5529), (125, 5640), (127, 5670), (128, 5724),

Gene: Shinji_71 Start: 49826, Stop: 50164, Start Num: 47
Candidate Starts for Shinji_71:
(13, 49694), (43, 49814), (Start: 47 @49826 has 11 MA's), (59, 49877), (71, 49895), (74, 49904), (95, 49994), (116, 50102), (118, 50111),

Gene: Shnickers_17 Start: 5211, Stop: 5744, Start Num: 41

Candidate Starts for Shnickers_17:
(Start: 41 @5211 has 131 MA's), (54, 5259), (76, 5340), (79, 5355), (80, 5358), (81, 5361), (86, 5388), (90, 5403), (95, 5421), (102, 5442), (113, 5505), (114, 5508), (118, 5529), (125, 5640), (127, 5670), (128, 5724),

Gene: Shrimp_18 Start: 6284, Stop: 6862, Start Num: 41
Candidate Starts for Shrimp_18:
(Start: 41 @6284 has 131 MA's), (57, 6362), (62, 6395), (69, 6416), (91, 6509), (97, 6530), (109, 6587), (110, 6599), (113, 6623), (114, 6626), (116, 6638), (118, 6647), (125, 6758), (127, 6788), (128, 6842),

Gene: Sillytadpoles_7 Start: 2091, Stop: 1726, Start Num: 50
Candidate Starts for Sillytadpoles_7:
(4, 2355), (5, 2328), (11, 2274), (Start: 50 @2091 has 27 MA's), (59, 2040), (81, 1968), (95, 1908), (100, 1890), (103, 1884), (108, 1848), (110, 1830), (111, 1824), (113, 1806), (118, 1782),

Gene: SilverDipper_18 Start: 5215, Stop: 5748, Start Num: 41
Candidate Starts for SilverDipper_18:
(Start: 41 @5215 has 131 MA's), (54, 5263), (76, 5344), (79, 5359), (80, 5362), (81, 5365), (86, 5392), (90, 5407), (95, 5425), (102, 5446), (113, 5509), (114, 5512), (118, 5533), (125, 5644), (127, 5674), (128, 5728),

Gene: Skog_144 Start: 60432, Stop: 60806, Start Num: 29
Candidate Starts for Skog_144:
(Start: 29 @60432 has 4 MA's), (57, 60507), (81, 60576), (84, 60588),

Gene: SmallFry_17 Start: 5211, Stop: 5744, Start Num: 41
Candidate Starts for SmallFry_17:
(Start: 41 @5211 has 131 MA's), (54, 5259), (76, 5340), (79, 5355), (80, 5358), (81, 5361), (86, 5388), (90, 5403), (95, 5421), (102, 5442), (113, 5505), (114, 5508), (118, 5529), (125, 5640), (127, 5670), (128, 5724),

Gene: SoilZilla_17 Start: 6280, Stop: 6813, Start Num: 41
Candidate Starts for SoilZilla_17:
(Start: 41 @6280 has 131 MA's), (54, 6328), (76, 6409), (79, 6424), (80, 6427), (81, 6430), (86, 6457), (90, 6472), (95, 6490), (102, 6511), (113, 6574), (114, 6577), (118, 6598), (125, 6709), (127, 6739), (128, 6793),

Gene: Spec_17 Start: 5211, Stop: 5744, Start Num: 41
Candidate Starts for Spec_17:
(Start: 41 @5211 has 131 MA's), (54, 5259), (76, 5340), (79, 5355), (80, 5358), (81, 5361), (86, 5388), (90, 5403), (95, 5421), (102, 5442), (113, 5505), (114, 5508), (118, 5529), (125, 5640), (127, 5670), (128, 5724),

Gene: Spiderpig_5 Start: 1900, Stop: 1487, Start Num: 29
Candidate Starts for Spiderpig_5:
(Start: 29 @1900 has 4 MA's), (55, 1825), (61, 1777), (78, 1723), (95, 1660), (101, 1642), (118, 1543), (120, 1516),

Gene: SrishMeg2525_18 Start: 6280, Stop: 6858, Start Num: 41
Candidate Starts for SrishMeg2525_18:
(Start: 41 @6280 has 131 MA's), (57, 6358), (62, 6391), (69, 6412), (91, 6505), (97, 6526), (109, 6583), (110, 6595), (113, 6619), (114, 6622), (116, 6634), (118, 6643), (125, 6754), (127, 6784), (128, 6838),

Gene: Stormageddon_156 Start: 106003, Stop: 106359, Start Num: 52
Candidate Starts for Stormageddon_156:
(38, 105970), (Start: 52 @106003 has 2 MA's), (72, 106078), (80, 106117), (81, 106120), (87, 106150), (98, 106183), (102, 106195), (103, 106198), (105, 106204), (110, 106240), (113, 106264), (119, 106312),

Gene: StubbySaigey_18 Start: 5215, Stop: 5748, Start Num: 41
Candidate Starts for StubbySaigey_18:
(Start: 41 @5215 has 131 MA's), (54, 5263), (76, 5344), (79, 5359), (80, 5362), (81, 5365), (86, 5392), (90, 5407), (95, 5425), (102, 5446), (113, 5509), (114, 5512), (118, 5533), (125, 5644), (127, 5674), (128, 5728),

Gene: Substance289_16 Start: 5211, Stop: 5744, Start Num: 41
Candidate Starts for Substance289_16:
(Start: 41 @5211 has 131 MA's), (54, 5259), (76, 5340), (79, 5355), (80, 5358), (81, 5361), (86, 5388), (90, 5403), (95, 5421), (102, 5442), (113, 5505), (114, 5508), (118, 5529), (125, 5640), (127, 5670), (128, 5724),

Gene: Teardrop_17 Start: 5211, Stop: 5744, Start Num: 41
Candidate Starts for Teardrop_17:
(Start: 41 @5211 has 131 MA's), (54, 5259), (76, 5340), (79, 5355), (80, 5358), (81, 5361), (86, 5388), (90, 5403), (95, 5421), (102, 5442), (113, 5505), (114, 5508), (118, 5529), (125, 5640), (127, 5670), (128, 5724),

Gene: Tempo_5 Start: 1841, Stop: 1479, Start Num: 50
Candidate Starts for Tempo_5:
(34, 1886), (Start: 50 @1841 has 27 MA's), (60, 1787), (70, 1766), (81, 1721), (95, 1661), (100, 1643), (105, 1631), (108, 1601), (110, 1583), (111, 1577), (118, 1535),

Gene: TillyBobJoe_72 Start: 50340, Stop: 50690, Start Num: 47
Candidate Starts for TillyBobJoe_72:
(10, 50148), (15, 50211), (16, 50235), (19, 50265), (22, 50271), (32, 50304), (Start: 47 @50340 has 11 MA's), (59, 50403), (71, 50421), (74, 50430), (95, 50520), (116, 50628), (118, 50637),

Gene: TinyTim_18 Start: 6280, Stop: 6858, Start Num: 41
Candidate Starts for TinyTim_18:
(Start: 41 @6280 has 131 MA's), (57, 6358), (62, 6391), (69, 6412), (91, 6505), (97, 6526), (109, 6583), (110, 6595), (113, 6619), (114, 6622), (116, 6634), (118, 6643), (125, 6754), (127, 6784), (128, 6838),

Gene: Tonenili_24 Start: 7642, Stop: 8109, Start Num: 35
Candidate Starts for Tonenili_24:
(Start: 35 @7642 has 4 MA's), (Start: 36 @7645 has 4 MA's), (45, 7663), (63, 7741), (67, 7750), (73, 7768), (76, 7786), (81, 7807), (95, 7876), (102, 7897), (113, 7960), (114, 7963), (116, 7975), (118, 7984),

Gene: Tortoise16_16 Start: 5211, Stop: 5744, Start Num: 41
Candidate Starts for Tortoise16_16:
(Start: 41 @5211 has 131 MA's), (54, 5259), (76, 5340), (79, 5355), (80, 5358), (81, 5361), (86, 5388), (90, 5403), (95, 5421), (102, 5442), (113, 5505), (114, 5508), (118, 5529), (125, 5640), (127, 5670), (128, 5724),

Gene: Trinitium_17 Start: 5211, Stop: 5744, Start Num: 41
Candidate Starts for Trinitium_17:

(Start: 41 @5211 has 131 MA's), (54, 5259), (76, 5340), (79, 5355), (80, 5358), (81, 5361), (86, 5388), (90, 5403), (95, 5421), (102, 5442), (113, 5505), (114, 5508), (118, 5529), (125, 5640), (127, 5670), (128, 5724),

Gene: Turret_17 Start: 5194, Stop: 5727, Start Num: 41
Candidate Starts for Turret_17:
(Start: 41 @5194 has 131 MA's), (54, 5242), (76, 5323), (79, 5338), (80, 5341), (81, 5344), (86, 5371), (90, 5386), (95, 5404), (102, 5425), (113, 5488), (114, 5491), (118, 5512), (125, 5623), (127, 5653), (128, 5707),

Gene: ValleyTerrace_17 Start: 5215, Stop: 5748, Start Num: 41
Candidate Starts for ValleyTerrace_17:
(Start: 41 @5215 has 131 MA's), (54, 5263), (76, 5344), (79, 5359), (80, 5362), (81, 5365), (86, 5392), (90, 5407), (95, 5425), (102, 5446), (113, 5509), (114, 5512), (118, 5533), (125, 5644), (127, 5674), (128, 5728),

Gene: Viceroy_7 Start: 2093, Stop: 1728, Start Num: 50
Candidate Starts for Viceroy_7:
(4, 2357), (5, 2330), (11, 2276), (Start: 50 @2093 has 27 MA's), (59, 2042), (81, 1970), (95, 1910), (100, 1892), (103, 1886), (108, 1850), (110, 1832), (111, 1826), (113, 1808), (118, 1784),

Gene: Vortrix_25 Start: 7832, Stop: 8296, Start Num: 36
Candidate Starts for Vortrix_25:
(20, 7784), (26, 7802), (Start: 35 @7829 has 4 MA's), (Start: 36 @7832 has 4 MA's), (45, 7850), (63, 7928), (67, 7937), (73, 7955), (76, 7973), (81, 7994), (95, 8063), (102, 8084), (113, 8147), (114, 8150), (116, 8162), (118, 8171),

Gene: Wally_17 Start: 5215, Stop: 5748, Start Num: 41
Candidate Starts for Wally_17:
(Start: 41 @5215 has 131 MA's), (54, 5263), (76, 5344), (79, 5359), (80, 5362), (81, 5365), (86, 5392), (90, 5407), (95, 5425), (102, 5446), (113, 5509), (114, 5512), (118, 5533), (125, 5644), (127, 5674), (128, 5728),

Gene: Wanda_184 Start: 92325, Stop: 92681, Start Num: 39
Candidate Starts for Wanda_184:
(Start: 36 @92322 has 4 MA's), (Start: 39 @92325 has 12 MA's), (54, 92376), (74, 92406), (81, 92442), (90, 92484), (95, 92502), (113, 92586), (118, 92610),

Gene: Wayne3_7 Start: 2328, Stop: 1963, Start Num: 50
Candidate Starts for Wayne3_7:
(4, 2592), (5, 2565), (11, 2511), (Start: 50 @2328 has 27 MA's), (59, 2277), (81, 2205), (95, 2145), (100, 2127), (103, 2121), (108, 2085), (110, 2067), (111, 2061), (118, 2019),

Gene: WheelerS25_11 Start: 3476, Stop: 3111, Start Num: 50
Candidate Starts for WheelerS25_11:
(Start: 50 @3476 has 27 MA's), (59, 3425), (66, 3407), (79, 3359), (81, 3353), (95, 3293), (100, 3275), (103, 3269), (108, 3233), (110, 3215), (111, 3209), (118, 3167),

Gene: Wheelie_7 Start: 2085, Stop: 1723, Start Num: 50
Candidate Starts for Wheelie_7:
(4, 2349), (5, 2322), (11, 2268), (Start: 50 @2085 has 27 MA's), (70, 2010), (76, 1986), (81, 1965), (92, 1920), (95, 1905), (102, 1884), (104, 1878), (106, 1866), (108, 1845), (110, 1827), (111, 1821), (113, 1803), (118, 1779),

Gene: Wilca_5 Start: 1900, Stop: 1487, Start Num: 29
Candidate Starts for Wilca_5:
(Start: 29 @1900 has 4 MA's), (55, 1825), (61, 1777), (78, 1723), (95, 1660), (101, 1642), (118, 1543), (120, 1516),

Gene: Willis_19 Start: 6220, Stop: 6753, Start Num: 41
Candidate Starts for Willis_19:
(Start: 41 @6220 has 131 MA's), (54, 6268), (76, 6349), (79, 6364), (80, 6367), (81, 6370), (86, 6397), (90, 6412), (95, 6430), (102, 6451), (113, 6514), (114, 6517), (118, 6538), (125, 6649), (127, 6679), (128, 6733),

Gene: YemiJoy2021_19 Start: 6280, Stop: 6858, Start Num: 41
Candidate Starts for YemiJoy2021_19:
(Start: 41 @6280 has 131 MA's), (57, 6358), (62, 6391), (69, 6412), (91, 6505), (97, 6526), (109, 6583), (110, 6595), (113, 6619), (114, 6622), (116, 6634), (118, 6643), (125, 6754), (127, 6784), (128, 6838),

Gene: YoungMoneyMata_18 Start: 5213, Stop: 5791, Start Num: 41
Candidate Starts for YoungMoneyMata_18:
(Start: 41 @5213 has 131 MA's), (57, 5291), (62, 5324), (69, 5345), (91, 5438), (97, 5459), (109, 5516), (110, 5528), (113, 5552), (114, 5555), (116, 5567), (118, 5576), (125, 5687), (127, 5717), (128, 5771),

Gene: Yucca_18 Start: 6202, Stop: 6780, Start Num: 41
Candidate Starts for Yucca_18:
(Start: 41 @6202 has 131 MA's), (57, 6280), (62, 6313), (69, 6334), (91, 6427), (97, 6448), (109, 6505), (110, 6517), (113, 6541), (114, 6544), (116, 6556), (118, 6565), (125, 6676), (127, 6706), (128, 6760),

Gene: YungMoney_71 Start: 51770, Stop: 52108, Start Num: 47
Candidate Starts for YungMoney_71:
(7, 51569), (13, 51638), (43, 51758), (Start: 47 @51770 has 11 MA's), (59, 51821), (74, 51848), (95, 51938), (116, 52046), (118, 52055),

Gene: Zalkecks_20 Start: 6280, Stop: 6858, Start Num: 41
Candidate Starts for Zalkecks_20:
(Start: 41 @6280 has 131 MA's), (57, 6358), (62, 6391), (69, 6412), (91, 6505), (97, 6526), (109, 6583), (110, 6595), (113, 6619), (114, 6622), (116, 6634), (118, 6643), (125, 6754), (127, 6784), (128, 6838),

Gene: Zeenon_21 Start: 6281, Stop: 6859, Start Num: 41
Candidate Starts for Zeenon_21:
(Start: 41 @6281 has 131 MA's), (57, 6359), (62, 6392), (69, 6413), (91, 6506), (97, 6527), (109, 6584), (110, 6596), (113, 6620), (114, 6623), (116, 6635), (118, 6644), (125, 6755), (127, 6785), (128, 6839),

Gene: Zelink_179 Start: 93941, Stop: 94300, Start Num: 36
Candidate Starts for Zelink_179:
(Start: 36 @93941 has 4 MA's), (Start: 39 @93944 has 12 MA's), (54, 93995), (74, 94025), (81, 94061), (90, 94103), (95, 94121), (113, 94205), (118, 94229),

Gene: ZygoTaiga_19 Start: 6280, Stop: 6858, Start Num: 41
Candidate Starts for ZygoTaiga_19:
(Start: 41 @6280 has 131 MA's), (57, 6358), (62, 6391), (69, 6412), (91, 6505), (97, 6526), (109, 6583), (110, 6595), (113, 6619), (114, 6622), (116, 6634), (118, 6643), (125, 6754), (127, 6784), (128, 6838),