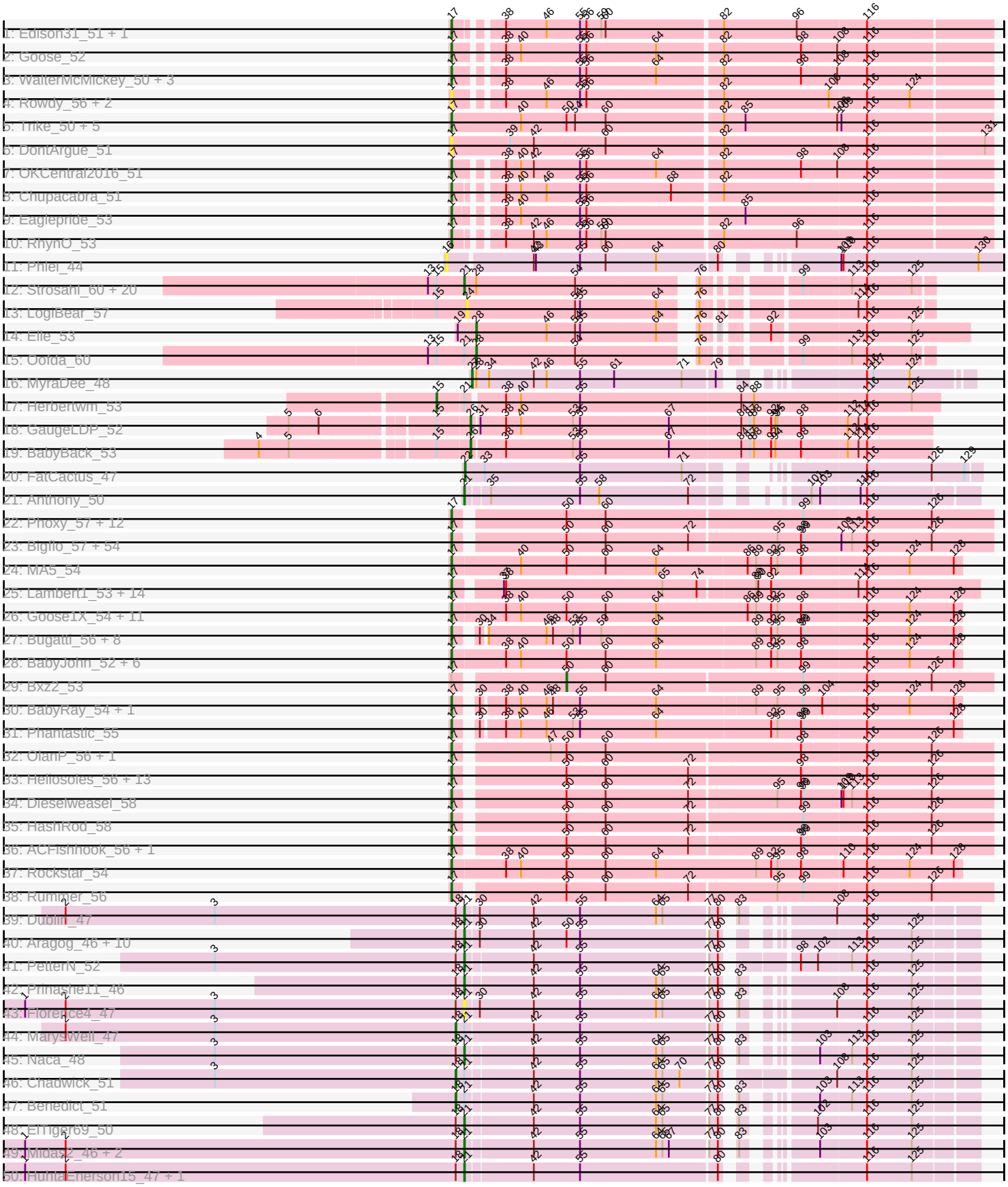
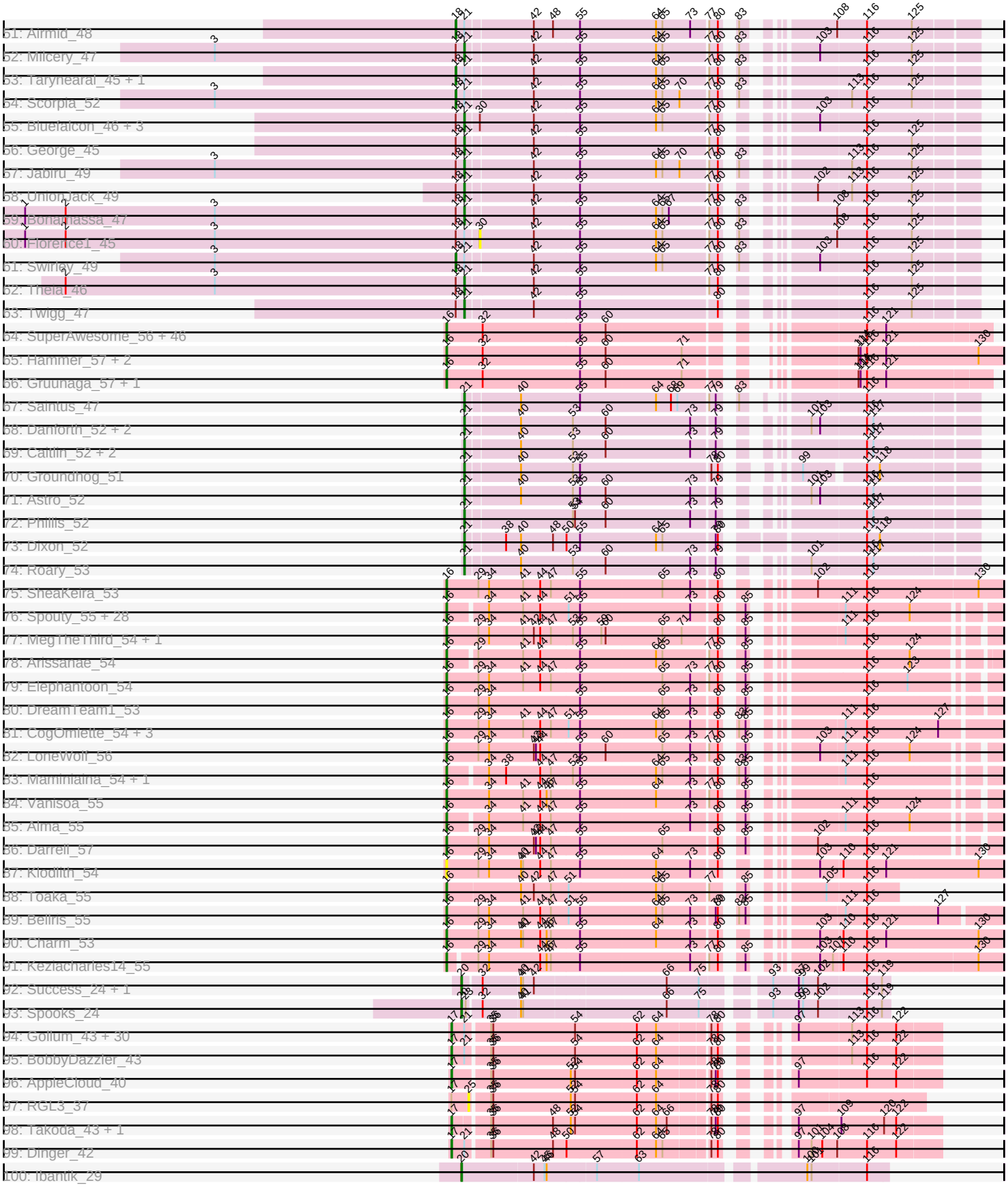
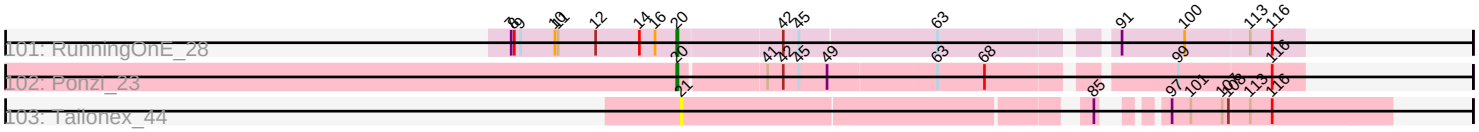
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1: Edison31_51 + 1
2: Goose_52
3: WalterMcMickey_50 + 3
4: Rowdy_56 + 2
5: Trike_50 + 5
6: DontArgue_51
7: OKCentral2016_51
8: Chupacabra_51
9: Eaglepride_53
10: RhynO_53
11: Phiel_44
12: Strosahl_60 + 20
13: LogiBear_57
14: Elle_53
15: Oolda_60
16: MyraDee_48
17: Herbertwm_53
18: GaugeLDP_52
19: BabyBack_53
20: FatCactus_47
21: Anthony_50
22: Phoxy_57 + 12
23: Bigho_57 + 54
24: MA5_54
25: Lambert1_53 + 14
26: Goose1X_54 + 11
27: Bugatti_56 + 8
28: BabyJohn_52 + 6
29: Bxz2_53
30: BabyRay_54 + 1
31: Phantastic_55
32: OlanP_56 + 1
33: Hellosoles_56 + 13
34: Dieselweasel_58
35: HashRod_58
36: ACFishhook_56 + 1
37: Rockstar_54
38: Rummer_56
39: Dublin_47
40: Aragog_46 + 10
41: PetterN_52
42: Pinnashe11_46
43: Florence4_47
44: MarysWell_47
45: Naca_48
46: Chadwick_51
47: Benedict_51
48: Ellger69_50
49: Midas2_46 + 2
50: HuntaEnerson15_47 + 1

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51: Airmid_48
52: Mlicery_47
53: Tarynearal_45 + 1
54: Scorpia_52
55: Bluefalcon_46 + 3
56: George_45
57: Jabiru_49
58: UnionJack_49
59: Bonaparassa_47
60: Florence1_45
61: Swiney_49
62: Theia_46
63: Twigg_47
64: SuperAwesome_56 + 46
65: Hammer_57 + 2
66: Gruunaga_57 + 1
67: Saintus_47
68: Damforth_52 + 2
69: Caitlin_52 + 2
70: Groundhog_51
71: Astro_52
72: Phillis_52
73: Dixon_52
74: Roary_53
75: SneaKeira_53
76: Spouty_55 + 28
77: MegTheThird_54 + 1
78: Arissanae_54
79: Elephantoon_54
80: DreamTeam1_53
81: CogOmlette_54 + 3
82: LoneWolf_56
83: Mamiriaina_54 + 1
84: Vanisoa_55
85: Alma_55
86: Darrell_57
87: Klodith_54
88: Toaka_55
89: Bellris_55
90: Charm_53
91: Keziacharles14_55
92: Success_24 + 1
93: Spooks_24
94: Gollum_43 + 30
95: BobbyDazzler_43
96: AppleCloud_40
97: RGL3_37
98: Takoda_43 + 1
99: Dinger_42
100: Ibantik_29

Pham 347116



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 347116 Report

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

Pham number 347116 has 390 members, 31 are drafts.

Phages represented in each track:
• Track 1 : Edison31_51, Topanga_50
• Track 2 : Goose_52
• Track 3 : WalterMcMickey_50, Twister_50, Kristoff_52, Rebeuca_52
• Track 4 : Rowdy_56, DustyMartin_56, Shapes_56
• Track 5 : Trike_50, Poompha_51, Drake94_50, Severus_50, KittenMittens_49, PeaceMeal1_50
• Track 6 : DontArgue_51
• Track 7 : OKCentral2016_51
• Track 8 : Chupacabra_51
• Track 9 : Eaglepride_53
• Track 10 : RhynO_53
• Track 11 : Phlei_44
• Track 12 : Strosahl_60, Boohoo_59, Rosalind_58, KatherineG_60, MinecraftSteve_60, LastResort_58, JSwag_59, Waits_60, Soups_60, Warrior24_62, Nebulosus_58, ReMo_58, Looper_59, DekHockey33_60, Anaysia_59, Epsocamisio_57, ShayRa_60, Remus_60, Ravana_62, Switzerland_59, Battleship_61
• Track 13 : LogiBear_57
• Track 14 : Elle_53
• Track 15 : Oofda_60
• Track 16 : MyraDee_48
• Track 17 : Herbertwm_53
• Track 18 : GaugeLDP_52
• Track 19 : BabyBack_53
• Track 20 : FatCactus_47
• Track 21 : Anthony_50
• Track 22 : Phoxy_57, Spike509_57, LarryKay_57, AgronaGT15_56, KADY_57, Methuselah_53, BuzzBuzz_55, Misomonster_58, Daishi_56, Farber_57, TinyPebbles_56, Soshari_59, Louie6_56
• Track 23 : Bigflo_57, Malinsilva_59, Wooldri_59, Hercules11_57, SoilDragon_57, Fernando_57, Jobu08_56, Sabia_57, Lilith_58, Watson_57, Snickers_57, Grub_57, Beauxregard13_57, Anubis_60, LugYA_60, BreSam8_57, PGHhamlin_59, PotatoSplit_59, Ollie_57, P28Green_58, SoYo_57, Vix_57, DaHudson_57, MadMarie_57, StepMih_57, MuchMore_60, MoneyMay_57, Marie_57, Gwennie_57, Croquant_58, Phoebe_58, Zetzy_56, Microwolf_57, Taurus_58, JHC117_57, Penny1_58, Grif_57, Colbster_57, EpicPhail_58, MarQuardt_57, LBerry_58, Pembroke_57, Aglet_58, GingkoMaracino_57, Grum1_57, AugsMagnumOpus_60,

GtownJaz_57, Tiffany_57, Stagni_57, Lowa_57, JenCasNa_58, Sabinator_56, Montavir_56, Mainiac_57, Cullens_57
• Track 24 : MA5_54
• Track 25 : Lambert1_53, Caviar_53, Popcicle_53, Noella_53, ResDef_53, Hookmount_53, EtoileNova_54, Texage_52, Pocahontas_53, Todacoro_53, Panamaxus_51, Margo_53, QuinnKiro_52, Norbert_52, Veracruz_52
• Track 26 : Goose1X_54, Fred313_54, Marchesa_54, HelDan_54, Roimos_54, Kachowdy_54, Shep_54, Goose1D_48, Scout_54, Heathen_54, Zarafa_54, DropBear_54
• Track 27 : Bugatti_56, Idleandcovert_55, Giroux_56, Puppy_56, Clammy_56, TNguyen7_55, Pistachio_56, SaturnRing_55, BlueBird_56
• Track 28 : BabyJohn_52, JF4_52, Isca_53, JF2_52, Chiqui_52, MK4_54, B1_49
• Track 29 : Bxz2_53
• Track 30 : BabyRay_54, Cat_52
• Track 31 : Phantastic_55
• Track 32 : OlanP_56, Gemma_56
• Track 33 : Heliosoles_56, Reba_57, Manu_57, Calvinny_57, HaveUMetTed_58, PhishRPhriends_55, Kalnoky_58, PurpleHaze_57, Kalb97_58, JeppNRM_58, Marius_58, Groupthink_58, Phranny_58, ClownCar_57
• Track 34 : Dieselweasel_58
• Track 35 : HashRod_58
• Track 36 : ACFishhook_56, Pawn_57
• Track 37 : Rockstar_54
• Track 38 : Rummer_56
• Track 39 : Dublin_47
• Track 40 : Aragog_46, Conspiracy_47, Discoknowium_45, Tiger_46, AgentM_46, Jovo_47, Phlorence_45, PickleBack_47, Lev2_47, Archetta_46, ForGetIt_47
• Track 41 : PetterN_52
• Track 42 : Prinashe11_46
• Track 43 : Florence4_47
• Track 44 : MarysWell_47
• Track 45 : Naca_48
• Track 46 : Chadwick_51
• Track 47 : Benedict_51
• Track 48 : ElTiger69_50
• Track 49 : Midas2_46, Micasa_48, Coog_46
• Track 50 : HuhtaEnerson15_47, LittleCherry_47
• Track 51 : Airmid_48
• Track 52 : Milcery_47
• Track 53 : Tarynearal_45, Cuco_47
• Track 54 : Scorpia_52
• Track 55 : Bluefalcon_46, SydNat_50, Ghoulboy_50, Zolita_49
• Track 56 : George_45
• Track 57 : Jabiru_49
• Track 58 : UnionJack_49
• Track 59 : Bonamassa_47
• Track 60 : Florence1_45
• Track 61 : Swirley_49
• Track 62 : Theia_46
• Track 63 : Twigg_47
• Track 64 : SuperAwesome_56, SuperCallie99_55, McFly_56, VohminGhazi_56, Pmask_56, BABullseye_50, Isiphiwo_54, Wiks_56, Koko_58, JewelBug_57, BlessJoy_57, Cookiedough_56, Tucker_57, Newrala_56, CloudWang3_57, Hoot_51,

Dorothea_56, Chartreuse_55, Imbriano_58, DaVinci_55, Yokurt_57, Jordennis_56, Candra_57, ToneTone_54, SmellyB_56, Kazan_57, EricB_56, Neeharika16_55, Roksolana_58, Indra_60, Zulu_58, Blinn1_59, Lilbunny_56, Jeffabunny_57, Polyphemus_58, Artemis2UCLA_57, BennyP_57, Helmet_59, WunderPhul_57, Garak_59, Priamo_58, GreedyLawyer_56, Kipper29_56, Temprado_58, Zaka_57, DelvinSonDorr_55, Hexamo_57
• Track 65 : Hammer_57, Rifter_57, Blue7_58
• Track 66 : Gruunaga_57, Gladiator_54
• Track 67 : Saintus_47
• Track 68 : Danforth_52, NearlyHeadless_52, Stephig9_53
• Track 69 : Caitlin_52, Expelliarmus_52, Smeadley_53
• Track 70 : Groundhog_51
• Track 71 : Astro_52
• Track 72 : Phillis_52
• Track 73 : Dixon_52
• Track 74 : Roary_53
• Track 75 : SheaKeira_53
• Track 76 : Spouty_55, Beemo_55, Qobbit_55, Onglai_54, Phaeder_55, ExplosioNervosa_55, Eidsmoe_55, Scherzo_55, Fayely_55, Sachima_55, Lilleskat_55, Priya_55, Hanray_55, Myxus_55, Holex_55, EdogawaKiddo_55, Aliter_55, Ugenie5_52, Conquerage_55, Catalina_56, Phonnegut_55, Pioneer_55, EmyBug_54, PackMan_54, Ayanochan_54, RyeScarlet_55, Jiawan_55, HortumSL17_55, Tubs_55
• Track 77 : MegTheThird_54, Celestialunch_53
• Track 78 : Arissanae_54
• Track 79 : Elephantoon_54
• Track 80 : DreamTeam1_53
• Track 81 : CogOmlette_54, Rahalelujah_55, WorldCup_54, Minispark_54
• Track 82 : LoneWolf_56
• Track 83 : Maminiaina_54, BogosyJay_54
• Track 84 : Vanisoa_55
• Track 85 : Alma_55
• Track 86 : Darrell_57
• Track 87 : Klodlith_54
• Track 88 : Toaka_55
• Track 89 : Bellris_55
• Track 90 : Charm_53
• Track 91 : Keziacharles14_55
• Track 92 : Success_24, Bimmel_23
• Track 93 : Spooks_24
• Track 94 : Gollum_43, Lillie_43, Hiro_43, Yogi_42, Bryce_42, Shuman_43, Natosaleda_42, Nancinator_43, RexFury_42, Jester_42, Rhodalysa_43, Espica_43, Bradshaw_43, Krishelle_43, UhSalsa_43, Naiad_42, Bonanza_43, Belenaria_43, RER2_36, Harlequin_42, CosmicSans_43, TWAMP_43, Phrankenstein_43, Rasputin_43, Yoncess_42, StCroix_42, Erik_43, Alpacados_42, Swann_43, PhailMary_42, Alatin_42
• Track 95 : BobbyDazzler_43
• Track 96 : AppleCloud_40
• Track 97 : RGL3_37
• Track 98 : Takoda_43, AngryOrchard_41
• Track 99 : Dinger_42
• Track 100 : Ibantik_29
• Track 101 : RunningOnE_28

• Track 102 : Ponzi_23
• Track 103 : Tailonex_44

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

The start number called the most often in the published annotations is 17, it was called in 176 of the 359 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• ACFishhook_56, Aglet_58, AgronaGT15_56, Alatin_42, Alpacados_42, AngryOrchard_41, Anubis_60, AppleCloud_40, AugsMagnumOpus_60, B1_49, BabyJohn_52, BabyRay_54, Beauxregard13_57, Belenaria_43, Bigflo_57, BlueBird_56, BobbyDazzler_43, Bonanza_43, Bradshaw_43, BreSam8_57, Bryce_42, Bugatti_56, BuzzBuzz_55, Calvinny_57, Cat_52, Caviar_53, Chiqui_52, Chupacabra_51, Clammy_56, ClownCar_57, Colbster_57, CosmicSans_43, Croquant_58, Cullens_57, DaHudson_57, Daishi_56, Dieselweasel_58, Dinger_42, DontArgue_51, Drake94_50, DropBear_54, DustyMartin_56, Eaglepride_53, Edison31_51, EpicPhail_58, Erik_43, Espica_43, EtoileNova_54, Farber_57, Fernando_57, Fred313_54, Gemma_56, GingkoMaracino_57, Giroux_56, Gollum_43, Goose1D_48, Goose1X_54, Goose_52, Grif_57, Groupthink_58, Grub_57, Grum1_57, GtownJaz_57, Gwennie_57, Harlequin_42, HashRod_58, HaveUMetTed_58, Heathen_54, HelDan_54, Heliosoles_56, Hercules11_57, Hiro_43, Hookmount_53, Idleandcovert_55, Isca_53, JF2_52, JF4_52, JHC117_57, JenCasNa_58, JeppNRM_58, Jester_42, Jobu08_56, KADY_57, Kachowdy_54, Kalb97_58, Kalnoky_58, KittenMittens_49, Krishelle_43, Kristoff_52, LBerry_58, Lambert1_53, LarryKay_57, Lilith_58, Lillie_43, Louie6_56, Lowa_57, LugYA_60, MA5_54, MK4_54, MadMarie_57, Mainiac_57, Malinsilva_59, Manu_57, MarQuardt_57, Marchesa_54, Margo_53, Marie_57, Marius_58, Methuselah_53, Microwolf_57, Misomonster_58, MoneyMay_57, Montavir_56, MuchMore_60, Naiad_42, Nancinator_43, Natosaleda_42, Noella_53, Norbert_52, OKCentral2016_51, OlanP_56, Ollie_57, P28Green_58, PGHhamlin_59, Panamaxus_51, Pawn_57, PeaceMeal1_50, Pembroke_57, Penny1_58, PhailMary_42, Phantastic_55, PhishRPhriends_55, Phoebe_58, Phoxy_57, Phrankenstein_43, Phranny_58, Pistachio_56, Pocahontas_53, Poompha_51, Popcicle_53, PotatoSplit_59, Puppy_56, PurpleHaze_57, QuinnKiro_52, RER2_36, Rasputin_43, Reba_57, Rebeuca_52, ResDef_53, RexFury_42, Rhodalysa_43, RhynO_53, Rockstar_54, Roimos_54, Rowdy_56, Rummer_56, Sabia_57, Sabinator_56, SaturnRing_55, Scout_54, Severus_50, Shapes_56, Shep_54, Shuman_43, Snickers_57, SoYo_57, SoilDragon_57, Soshari_59, Spike509_57, StCroix_42, Stagni_57, StepMih_57, Swann_43, TNguyen7_55, TWAMP_43, Takoda_43, Taurus_58, Texage_52, Tiffany_57, TinyPebbles_56, Todacoro_53, Topanga_50, Trike_50, Twister_50, UhSalsa_43, Veracruz_52, Vix_57, WalterMcMickey_50, Watson_57, Wooldri_59, Yogi_42, Yoncess_42, Zarafa_54, Zetzy_56,

Genes that have the "Most Annotated" start but do not call it:
• Bxz2_53, RGL3_37,

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

• AgentM_46, Airmid_48, Aliter_55, Alma_55, Anaysia_59, Anthony_50, Aragog_46, Archetta_46, Arissanae_54, Artemis2UCLA_57, Astro_52, Ayanochan_54, BABullseye_50, BabyBack_53, Battleship_61, Beemo_55, Bellris_55, Benedict_51, BennyP_57, Bimmel_23, BlessJoy_57, Blinn1_59, Blue7_58, Bluefalcon_46, BogosyJay_54, Bonamassa_47, Boohoo_59, Caitlin_52, Candra_57, Catalina_56, Celestialunch_53, Chadwick_51, Charm_53, Chartreuse_55, CloudWang3_57, CogOmlette_54, Conquerage_55, Conspiracy_47, Coog_46, Cookiedough_56, Cuco_47, DaVinci_55, Danforth_52, Darrell_57, DekHockey33_60, DelvinSonDorr_55, Discoknowium_45, Dixon_52, Dorothea_56, DreamTeam1_53, Dublin_47, EdogawaKiddo_55, Eidsmoe_55, ElTiger69_50, Elephantoon_54, Elle_53, EmyBug_54, Epsocamisio_57, EricB_56, Expelliarmus_52, ExplosioNervosa_55, FatCactus_47, Fayely_55, Florence1_45, Florence4_47, ForGetIt_47, Garak_59, GaugeLDP_52, George_45, Ghoulboy_50, Gladiator_54, GreedyLawyer_56, Groundhog_51, Gruunaga_57, Hammer_57, Hanray_55, Helmet_59, Herbertwm_53, Hexamo_57, Holex_55, Hoot_51, HortumSL17_55, HuhtaEnerson15_47, Ibantik_29, Imbriano_58, Indra_60, Isiphiwo_54, JSwag_59, Jabiru_49, Jeffabunny_57, JewelBug_57, Jiawan_55, Jordennis_56, Jovo_47, KatherineG_60, Kazan_57, Keziacharles14_55, Kipper29_56, Klodlith_54, Koko_58, LastResort_58, Lev2_47, Lilbunny_56, Lilleskat_55, LittleCherry_47, LogiBear_57, LoneWolf_56, Looper_59, Maminiaina_54, MarysWell_47, McFly_56, MegTheThird_54, Micasa_48, Midas2_46, Milcery_47, MinecraftSteve_60, Minispark_54, MyraDee_48, Myxus_55, Naca_48, NearlyHeadless_52, Nebulosus_58, Neeharika16_55, Newrala_56, Onglai_54, Oofda_60, PackMan_54, PetterN_52, Phaeder_55, Phillis_52, Phlei_44, Phlorence_45, Phonnegut_55, PickleBack_47, Pioneer_55, Pmask_56, Polyphemus_58, Ponzi_23, Priamo_58, Prinashe11_46, Priya_55, Qobbit_55, Rahalelujah_55, Ravana_62, ReMo_58, Remus_60, Rifter_57, Roary_53, Roksolana_58, Rosalind_58, RunningOnE_28, RyeScarlet_55, Sachima_55, Saintus_47, Scherzo_55, Scorpia_52, ShayRa_60, SheaKeira_53, Smeadley_53, SmellyB_56, Soups_60, Spooks_24, Spouty_55, Stephig9_53, Strosahl_60, Success_24, SuperAwesome_56, SuperCallie99_55, Swirley_49, Switzerland_59, SydNat_50, Tailonex_44, Tarynearal_45, Temprado_58, Theia_46, Tiger_46, Toaka_55, ToneTone_54, Tubs_55, Tucker_57, Twigg_47, Ugenie5_52, UnionJack_49, Vanisoa_55, VohminGhazi_56, Waits_60, Warrior24_62, Wiks_56, WorldCup_54, WunderPhul_57, Yokurt_57, Zaka_57, Zolita_49, Zulu_58,

Summary by start number:

Start 15:
• Found in 26 of 390 (6.7%) of genes in pham
• Manual Annotations of this start: 1 of 359
• Called 3.8% of time when present
• Phage (with cluster) where this start called: Herbertwm_53 (A2),

Start 16:
• Found in 104 of 390 (26.7%) of genes in pham
• Manual Annotations of this start: 95 of 359
• Called 99.0% of time when present
• Phage (with cluster) where this start called: Aliter_55 (A9), Alma_55 (A9), Arissanae_54 (A9), Artemis2UCLA_57 (A6), Ayanochan_54 (A9), BABullseye_50 (A6), Beemo_55 (A9), Bellris_55 (A9), BennyP_57 (A6), BlessJoy_57 (A6), Blinn1_59 (A6), Blue7_58 (A6), BogosyJay_54 (A9), Candra_57 (A6), Catalina_56 (A9), Celestialunch_53 (A9), Charm_53 (A9), Chartreuse_55 (A6), CloudWang3_57 (A6), CogOmlette_54 (A9), Conquerage_55 (A9), Cookiedough_56 (A6), DaVinci_55 (A6),

Darrell_57 (A9), DelvinSonDorr_55 (A6), Dorothea_56 (A6), DreamTeam1_53 (A9), EdogawaKiddo_55 (A9), Eidsmoe_55 (A9), Elephantoon_54 (A9), EmyBug_54 (A9), EricB_56 (A6), ExplosioNervosa_55 (A9), Fayely_55 (A9), Garak_59 (A6), Gladiator_54 (A6), GreedyLawyer_56 (A6), Gruunaga_57 (A6), Hammer_57 (A6), Hanray_55 (A9), Helmet_59 (A6), Hexamo_57 (A6), Holex_55 (A9), Hoot_51 (A6), HortumSL17_55 (A9), Imbriano_58 (A6), Indra_60 (A6), Isiphiwo_54 (A6), Jeffabunny_57 (A6), JewelBug_57 (A6), Jiawan_55 (A9), Jordennis_56 (A6), Kazan_57 (A6), Keziacharles14_55 (A9), Kipper29_56 (A6), Klodlith_54 (A9), Koko_58 (A6), Lilbunny_56 (A6), Lilleskat_55 (A9), LoneWolf_56 (A9), Maminiaina_54 (A9), McFly_56 (A6), MegTheThird_54 (A9), Minispark_54 (A9), Myxus_55 (A9), Neeharika16_55 (A6), Newrala_56 (A6), Onglai_54 (A9), PackMan_54 (A9), Phaeder_55 (A9), Phlei_44 (A13), Phonnegut_55 (A9), Pioneer_55 (A9), Pmask_56 (A6), Polyphemus_58 (A6), Priamo_58 (A6), Priya_55 (A9), Qobbit_55 (A9), Rahalelujah_55 (A9), Rifter_57 (A6), Roksolana_58 (A6), RyeScarlet_55 (A9), Sachima_55 (A9), Scherzo_55 (A9), SheaKeira_53 (A9), SmellyB_56 (A6), Spouty_55 (A9), SuperAwesome_56 (A6), SuperCallie99_55 (A6), Temprado_58 (A6), Toaka_55 (A9), ToneTone_54 (A6), Tubs_55 (A9), Tucker_57 (A6), Ugenie5_52 (A9), Vanisoa_55 (A9), VohminGhazi_56 (A6), Wiks_56 (A6), WorldCup_54 (A9), WunderPhul_57 (A6), Yokurt_57 (A6), Zaka_57 (A6), Zulu_58 (A6),

Start 17:
• Found in 196 of 390 (50.3%) of genes in pham
• Manual Annotations of this start: 176 of 359
• Called 99.0% of time when present
• Phage (with cluster) where this start called: ACFishhook_56 (A3), Aglet_58 (A3), AgronaGT15_56 (A3), Alatin_42 (CA), Alpacados_42 (CA), AngryOrchard_41 (CA), Anubis_60 (A3), AppleCloud_40 (CA), AugsMagnumOpus_60 (A3), B1_49 (A3), BabyJohn_52 (A3), BabyRay_54 (A3), Beauxregard13_57 (A3), Belenaria_43 (CA), Bigflo_57 (A3), BlueBird_56 (A3), BobbyDazzler_43 (CA), Bonanza_43 (CA), Bradshaw_43 (CA), BreSam8_57 (A3), Bryce_42 (CA), Bugatti_56 (A3), BuzzBuzz_55 (A3), Calvinny_57 (A3), Cat_52 (A3), Caviar_53 (A3), Chiqui_52 (A3), Chupacabra_51 (A10), Clammy_56 (A3), ClownCar_57 (A3), Colbster_57 (A3), CosmicSans_43 (CA), Croquant_58 (A3), Cullens_57 (A3), DaHudson_57 (A3), Daishi_56 (A3), Dieselweasel_58 (A3), Dinger_42 (CA), DontArgue_51 (A10), Drake94_50 (A10), DropBear_54 (A3), DustyMartin_56 (A10), Eaglepride_53 (A10), Edison31_51 (A10), EpicPhail_58 (A3), Erik_43 (CA), Espica_43 (CA), EtoileNova_54 (A3), Farber_57 (A3), Fernando_57 (A3), Fred313_54 (A3), Gemma_56 (A3), GingkoMaracino_57 (A3), Giroux_56 (A3), Gollum_43 (CA), Goose1D_48 (A3), Goose1X_54 (A3), Goose_52 (A10), Grif_57 (A3), Groupthink_58 (A3), Grub_57 (A3), Grum1_57 (A3), GtownJaz_57 (A3), Gwennie_57 (A3), Harlequin_42 (CA), HashRod_58 (A3), HaveUMetTed_58 (A3), Heathen_54 (A3), HelDan_54 (A3), Heliosoles_56 (A3), Hercules11_57 (A3), Hiro_43 (CA), Hookmount_53 (A3), Idleandcovert_55 (A3), Isca_53 (A3), JF2_52 (A3), JF4_52 (A3), JHC117_57 (A3), JenCasNa_58 (A3), JeppNRM_58 (A3), Jester_42 (CA), Jobu08_56 (A3), KADY_57 (A3), Kachowdy_54 (A3), Kalb97_58 (A3), Kalnoky_58 (A3), KittenMittens_49 (A10), Krishelle_43 (CA), Kristoff_52 (A10), LBerry_58 (A3), Lambert1_53 (A3), LarryKay_57 (A3), Lilith_58 (A3), Lillie_43 (CA), Louie6_56 (A3), Lowa_57 (A3), LugYA_60 (A3), MA5_54 (A3), MK4_54 (A3), MadMarie_57 (A3), Mainiac_57 (A3), Malinsilva_59 (A3), Manu_57 (A3), MarQuardt_57 (A3), Marchesa_54 (A3), Margo_53 (A3), Marie_57 (A3), Marius_58 (A3), Methuselah_53 (A3), Microwolf_57 (A3), Misomonster_58 (A3), MoneyMay_57 (A3), Montavir_56 (A3), MuchMore_60 (A3), Naiad_42 (CA), Nancinator_43 (CA), Natosaleda_42 (CA), Noella_53 (A3), Norbert_52 (A3),

OKCentral2016_51 (A10), OlanP_56 (A3), Ollie_57 (A3), P28Green_58 (A3), PGHhamlin_59 (A3), Panamaxus_51 (A3), Pawn_57 (A3), PeaceMeal1_50 (A10), Pembroke_57 (A3), Penny1_58 (A3), PhailMary_42 (CA), Phantastic_55 (A3), PhishRPhriends_55 (A3), Phoebe_58 (A3), Phoxy_57 (A3), Phrankenstein_43 (CA), Phranny_58 (A3), Pistachio_56 (A3), Pocahontas_53 (A3), Poompha_51 (A10), Popcicle_53 (A3), PotatoSplit_59 (A3), Puppy_56 (A3), PurpleHaze_57 (A3), QuinnKiro_52 (A3), RER2_36 (CA), Rasputin_43 (CA), Reba_57 (A3), Rebeuca_52 (A10), ResDef_53 (A3), RexFury_42 (CA), Rhodalysa_43 (CA), RhynO_53 (A10), Rockstar_54 (A3), Roimos_54 (A3), Rowdy_56 (A10), Rummer_56 (A3), Sabia_57 (A3), Sabinator_56 (A3), SaturnRing_55 (A3), Scout_54 (A3), Severus_50 (A10), Shapes_56 (A10), Shep_54 (A3), Shuman_43 (CA), Snickers_57 (A3), SoYo_57 (A3), SoilDragon_57 (A3), Soshari_59 (A3), Spike509_57 (A3), StCroix_42 (CA), Stagni_57 (A3), StepMih_57 (A3), Swann_43 (CA), TNguyen7_55 (A3), TWAMP_43 (CA), Takoda_43 (CA), Taurus_58 (A3), Texage_52 (A3), Tiffany_57 (A3), TinyPebbles_56 (A3), Todacoro_53 (A3), Topanga_50 (A10), Trike_50 (A10), Twister_50 (A10), UhSalsa_43 (CA), Veracruz_52 (A3), Vix_57 (A3), WalterMcMickey_50 (A10), Watson_57 (A3), Wooldri_59 (A3), Yogi_42 (CA), Yoncess_42 (CA), Zarafa_54 (A3), Zetzy_56 (A3),

Start 18:
• Found in 42 of 390 (10.8%) of genes in pham
• Manual Annotations of this start: 8 of 359
• Called 19.0% of time when present
• Phage (with cluster) where this start called: Airmid_48 (A5), Benedict_51 (A5), Chadwick_51 (A5), Cuco_47 (A5), MarysWell_47 (A5), Scorpia_52 (A5), Swirley_49 (A5), Tarynearal_45 (A5),

Start 20:
• Found in 6 of 390 (1.5%) of genes in pham
• Manual Annotations of this start: 6 of 359
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bimmel_23 (BT), Ibantik_29 (JN), Ponzi_23 (singleton), RunningOnE_28 (JN), Spooks_24 (BT), Success_24 (BT),

Start 21:
• Found in 112 of 390 (28.7%) of genes in pham
• Manual Annotations of this start: 66 of 359
• Called 60.7% of time when present
• Phage (with cluster) where this start called: AgentM_46 (A5), Anaysia_59 (A15), Anthony_50 (A20), Aragog_46 (A5), Archetta_46 (A5), Astro_52 (A8), Battleship_61 (A15), Bluefalcon_46 (A5), Bonamassa_47 (A5), Boohoo_59 (A15), Caitlin_52 (A8), Conspiracy_47 (A5), Coog_46 (A5), Danforth_52 (A8), DekHockey33_60 (A15), Discoknowium_45 (A5), Dixon_52 (A8), Dublin_47 (A5), ElTiger69_50 (A5), Epsocamisio_57 (A15), Expelliarmus_52 (A8), Florence4_47 (A5), ForGetIt_47 (A5), George_45 (A5), Ghoulboy_50 (A5), Groundhog_51 (A8), HuhtaEnerson15_47 (A5), JSwag_59 (A15), Jabiru_49 (A5), Jovo_47 (A5), KatherineG_60 (A15), LastResort_58 (A15), Lev2_47 (A5), LittleCherry_47 (A5), Looper_59 (A15), Micasa_48 (A5), Midas2_46 (A5), Milcery_47 (A5), MinecraftSteve_60 (A15), Naca_48 (A5), NearlyHeadless_52 (A8), Nebulosus_58 (A15), PetterN_52 (A5), Phillis_52 (A8), Phlorence_45 (A5), PickleBack_47 (A5), Prinashe11_46 (A5), Ravana_62 (A15), ReMo_58 (A15), Remus_60 (A15), Roary_53 (A8), Rosalind_58 (A15), Saintus_47 (A8), ShayRa_60 (A15), Smeadley_53 (A8), Soups_60 (A15), Stephig9_53 (A8), Strosahl_60 (A15), Switzerland_59 (A15), SydNat_50 (A5), Tailonex_44 (singleton),

Theia_46 (A5), Tiger_46 (A5), Twigg_47 (A5), UnionJack_49 (A5), Waits_60 (A15), Warrior24_62 (A15), Zolita_49 (A5),

Start 22:
• Found in 1 of 390 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 359
• Called 100.0% of time when present
• Phage (with cluster) where this start called: FatCactus_47 (A20),

Start 24:
• Found in 1 of 390 (0.3%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: LogiBear_57 (A15),

Start 25:
• Found in 1 of 390 (0.3%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: RGL3_37 (CA),

Start 26:
• Found in 2 of 390 (0.5%) of genes in pham
• Manual Annotations of this start: 2 of 359
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BabyBack_53 (A2), GaugeLDP_52 (A2),

Start 27:
• Found in 1 of 390 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 359
• Called 100.0% of time when present
• Phage (with cluster) where this start called: MyraDee_48 (A18),

Start 28:
• Found in 24 of 390 (6.2%) of genes in pham
• Manual Annotations of this start: 2 of 359
• Called 8.3% of time when present
• Phage (with cluster) where this start called: Elle_53 (A15), Oofda_60 (A15),

Start 30:
• Found in 30 of 390 (7.7%) of genes in pham
• No Manual Annotations of this start.
• Called 3.3% of time when present
• Phage (with cluster) where this start called: Florence1_45 (A5),

Start 50:
• Found in 130 of 390 (33.3%) of genes in pham
• Manual Annotations of this start: 1 of 359
• Called 0.8% of time when present
• Phage (with cluster) where this start called: Bxz2_53 (A3),

Summary by clusters:

There are 15 clusters represented in this pham: A15, A20, singleton, A10, A13, CA, JN, A18, BT, A3, A2, A5, A6, A9, A8,

Info for manual annotations of cluster A10:
•Start number 17 was manually annotated 17 times for cluster A10.

Info for manual annotations of cluster A15:
•Start number 21 was manually annotated 21 times for cluster A15.
•Start number 28 was manually annotated 2 times for cluster A15.

Info for manual annotations of cluster A18:
•Start number 27 was manually annotated 1 time for cluster A18.

Info for manual annotations of cluster A2:
•Start number 15 was manually annotated 1 time for cluster A2.
•Start number 26 was manually annotated 2 times for cluster A2.

Info for manual annotations of cluster A20:
•Start number 21 was manually annotated 1 time for cluster A20.
•Start number 22 was manually annotated 1 time for cluster A20.

Info for manual annotations of cluster A3:
•Start number 17 was manually annotated 124 times for cluster A3.
•Start number 50 was manually annotated 1 time for cluster A3.

Info for manual annotations of cluster A5:
•Start number 18 was manually annotated 8 times for cluster A5.
•Start number 21 was manually annotated 32 times for cluster A5.

Info for manual annotations of cluster A6:
•Start number 16 was manually annotated 50 times for cluster A6.

Info for manual annotations of cluster A8:
•Start number 21 was manually annotated 12 times for cluster A8.

Info for manual annotations of cluster A9:
•Start number 16 was manually annotated 45 times for cluster A9.

Info for manual annotations of cluster BT:
•Start number 20 was manually annotated 3 times for cluster BT.

Info for manual annotations of cluster CA:
•Start number 17 was manually annotated 35 times for cluster CA.

Info for manual annotations of cluster JN:
•Start number 20 was manually annotated 2 times for cluster JN.

Gene Information:

Gene: ACFishhook_56 Start: 36893, Stop: 36171, Start Num: 17

Candidate Starts for ACFishhook_56:
(Start: 17 @36893 has 176 MA's), (Start: 50 @36752 has 1 MA's), (60, 36698), (72, 36584), (98, 36434), (99, 36431), (116, 36344), (126, 36257),

Gene: AgentM_46 Start: 35277, Stop: 34651, Start Num: 21
Candidate Starts for AgentM_46:
(Start: 18 @35289 has 8 MA's), (Start: 21 @35277 has 66 MA's), (30, 35259), (42, 35184), (Start: 50 @35139 has 1 MA's), (55, 35121), (77, 34947), (80, 34935), (116, 34794), (125, 34731),

Gene: Aglet_58 Start: 36932, Stop: 36210, Start Num: 17
Candidate Starts for Aglet_58:
(Start: 17 @36932 has 176 MA's), (Start: 50 @36791 has 1 MA's), (60, 36737), (72, 36623), (95, 36506), (98, 36473), (99, 36470), (109, 36419), (113, 36404), (116, 36383), (126, 36296),

Gene: AgronaGT15_56 Start: 36780, Stop: 36058, Start Num: 17
Candidate Starts for AgronaGT15_56:
(Start: 17 @36780 has 176 MA's), (Start: 50 @36639 has 1 MA's), (60, 36585), (99, 36318), (116, 36231), (126, 36144),

Gene: Airmid_48 Start: 35448, Stop: 34813, Start Num: 18
Candidate Starts for Airmid_48:
(Start: 18 @35448 has 8 MA's), (Start: 21 @35436 has 66 MA's), (42, 35346), (48, 35319), (55, 35283), (64, 35178), (65, 35169), (73, 35130), (77, 35109), (80, 35097), (83, 35088), (108, 34995), (116, 34956), (125, 34893),

Gene: Alatin_42 Start: 32896, Stop: 32306, Start Num: 17
Candidate Starts for Alatin_42:
(Start: 17 @32896 has 176 MA's), (Start: 21 @32878 has 66 MA's), (35, 32848), (36, 32845), (54, 32731), (62, 32647), (64, 32620), (78, 32554), (80, 32545), (97, 32497), (113, 32425), (116, 32404), (122, 32365),

Gene: Aliter_55 Start: 36835, Stop: 36170, Start Num: 16
Candidate Starts for Aliter_55:
(Start: 16 @36835 has 95 MA's), (34, 36784), (41, 36736), (44, 36712), (51, 36673), (55, 36658), (73, 36505), (80, 36472), (85, 36454), (111, 36361), (116, 36331), (124, 36271),

Gene: Alma_55 Start: 37015, Stop: 36350, Start Num: 16
Candidate Starts for Alma_55:
(Start: 16 @37015 has 95 MA's), (34, 36964), (41, 36916), (44, 36892), (47, 36877), (55, 36838), (73, 36685), (80, 36652), (85, 36634), (111, 36541), (116, 36511), (124, 36451),

Gene: Alpacados_42 Start: 32801, Stop: 32211, Start Num: 17
Candidate Starts for Alpacados_42:
(Start: 17 @32801 has 176 MA's), (Start: 21 @32783 has 66 MA's), (35, 32753), (36, 32750), (54, 32636), (62, 32552), (64, 32525), (78, 32459), (80, 32450), (97, 32402), (113, 32330), (116, 32309), (122, 32270),

Gene: Anaysia_59 Start: 35907, Stop: 35335, Start Num: 21
Candidate Starts for Anaysia_59:
(13, 35958), (Start: 15 @35946 has 1 MA's), (Start: 21 @35907 has 66 MA's), (Start: 28 @35892 has 2 MA's), (54, 35754), (76, 35610), (99, 35508), (113, 35442), (116, 35421), (125, 35358),

Gene: AngryOrchard_41 Start: 32691, Stop: 32104, Start Num: 17

Candidate Starts for AngryOrchard_41:
(Start: 17 @32691 has 176 MA's), (35, 32646), (36, 32643), (48, 32559), (52, 32535), (54, 32529), (62, 32445), (64, 32418), (66, 32403), (78, 32352), (79, 32346), (80, 32343), (97, 32295), (109, 32238), (120, 32178), (122, 32163),

Gene: Anthony_50 Start: 34512, Stop: 33898, Start Num: 21
Candidate Starts for Anthony_50:
(Start: 21 @34512 has 66 MA's), (35, 34482), (55, 34359), (58, 34332), (72, 34209), (101, 34116), (103, 34104), (115, 34050), (116, 34041),

Gene: Anubis_60 Start: 36818, Stop: 36096, Start Num: 17
Candidate Starts for Anubis_60:
(Start: 17 @36818 has 176 MA's), (Start: 50 @36677 has 1 MA's), (60, 36623), (72, 36509), (95, 36392), (98, 36359), (99, 36356), (109, 36305), (113, 36290), (116, 36269), (126, 36182),

Gene: AppleCloud_40 Start: 32626, Stop: 32036, Start Num: 17
Candidate Starts for AppleCloud_40:
(Start: 17 @32626 has 176 MA's), (35, 32578), (36, 32575), (52, 32467), (54, 32461), (62, 32377), (64, 32350), (78, 32284), (79, 32278), (80, 32275), (97, 32227), (116, 32134), (122, 32095),

Gene: Aragog_46 Start: 35297, Stop: 34671, Start Num: 21
Candidate Starts for Aragog_46:
(Start: 18 @35309 has 8 MA's), (Start: 21 @35297 has 66 MA's), (30, 35279), (42, 35204), (Start: 50 @35159 has 1 MA's), (55, 35141), (77, 34967), (80, 34955), (116, 34814), (125, 34751),

Gene: Archetta_46 Start: 35707, Stop: 35081, Start Num: 21
Candidate Starts for Archetta_46:
(Start: 18 @35719 has 8 MA's), (Start: 21 @35707 has 66 MA's), (30, 35689), (42, 35614), (Start: 50 @35569 has 1 MA's), (55, 35551), (77, 35377), (80, 35365), (116, 35224), (125, 35161),

Gene: Arissanae_54 Start: 37527, Stop: 36862, Start Num: 16
Candidate Starts for Arissanae_54:
(Start: 16 @37527 has 95 MA's), (29, 37491), (41, 37428), (44, 37404), (55, 37350), (64, 37245), (65, 37236), (77, 37176), (80, 37164), (85, 37146), (116, 37020), (124, 36960),

Gene: Artemis2UCLA_57 Start: 35891, Stop: 35223, Start Num: 16
Candidate Starts for Artemis2UCLA_57:
(Start: 16 @35891 has 95 MA's), (32, 35840), (55, 35705), (60, 35669), (116, 35387), (121, 35360),

Gene: Astro_52 Start: 35198, Stop: 34575, Start Num: 21
Candidate Starts for Astro_52:
(Start: 21 @35198 has 66 MA's), (40, 35126), (53, 35054), (55, 35045), (60, 35009), (73, 34892), (79, 34862), (101, 34793), (103, 34781), (116, 34718), (117, 34709),

Gene: AugsMagnumOpus_60 Start: 36923, Stop: 36201, Start Num: 17
Candidate Starts for AugsMagnumOpus_60:
(Start: 17 @36923 has 176 MA's), (Start: 50 @36782 has 1 MA's), (60, 36728), (72, 36614), (95, 36497), (98, 36464), (99, 36461), (109, 36410), (113, 36395), (116, 36374), (126, 36287),

Gene: Ayanochan_54 Start: 36993, Stop: 36328, Start Num: 16
Candidate Starts for Ayanochan_54:
(Start: 16 @36993 has 95 MA's), (34, 36942), (41, 36894), (44, 36870), (51, 36831), (55, 36816), (73, 36663), (80, 36630), (85, 36612), (111, 36519), (116, 36489), (124, 36429),

Gene: B1_49 Start: 34918, Stop: 34217, Start Num: 17
Candidate Starts for B1_49:
(Start: 17 @34918 has 176 MA's), (38, 34846), (40, 34825), (Start: 50 @34762 has 1 MA's), (60, 34708), (64, 34639), (89, 34498), (92, 34477), (95, 34468), (98, 34435), (116, 34345), (124, 34285), (128, 34228),

Gene: BABullseye_50 Start: 33473, Stop: 32805, Start Num: 16
Candidate Starts for BABullseye_50:
(Start: 16 @33473 has 95 MA's), (32, 33422), (55, 33287), (60, 33251), (116, 32969), (121, 32942),

Gene: BabyBack_53 Start: 37430, Stop: 36798, Start Num: 26
Candidate Starts for BabyBack_53:
(4, 37700), (5, 37658), (Start: 15 @37475 has 1 MA's), (Start: 26 @37430 has 2 MA's), (38, 37385), (53, 37292), (55, 37283), (67, 37160), (84, 37061), (87, 37049), (88, 37043), (92, 37019), (94, 37013), (98, 36977), (112, 36914), (114, 36899), (116, 36887),

Gene: BabyJohn_52 Start: 36739, Stop: 36041, Start Num: 17
Candidate Starts for BabyJohn_52:
(Start: 17 @36739 has 176 MA's), (38, 36667), (40, 36646), (Start: 50 @36583 has 1 MA's), (60, 36529), (64, 36460), (89, 36322), (92, 36301), (95, 36292), (98, 36259), (116, 36169), (124, 36109), (128, 36052),

Gene: BabyRay_54 Start: 36688, Stop: 36014, Start Num: 17
Candidate Starts for BabyRay_54:
(Start: 17 @36688 has 176 MA's), (30, 36667), (38, 36637), (40, 36616), (46, 36580), (48, 36571), (55, 36535), (64, 36430), (89, 36295), (95, 36265), (99, 36229), (104, 36202), (116, 36142), (124, 36082), (128, 36025),

Gene: Battleship_61 Start: 36113, Stop: 35541, Start Num: 21
Candidate Starts for Battleship_61:
(13, 36164), (Start: 15 @36152 has 1 MA's), (Start: 21 @36113 has 66 MA's), (Start: 28 @36098 has 2 MA's), (54, 35960), (76, 35816), (99, 35714), (113, 35648), (116, 35627), (125, 35564),

Gene: Beauxregard13_57 Start: 36935, Stop: 36213, Start Num: 17
Candidate Starts for Beauxregard13_57:
(Start: 17 @36935 has 176 MA's), (Start: 50 @36794 has 1 MA's), (60, 36740), (72, 36626), (95, 36509), (98, 36476), (99, 36473), (109, 36422), (113, 36407), (116, 36386), (126, 36299),

Gene: Beemo_55 Start: 37005, Stop: 36340, Start Num: 16
Candidate Starts for Beemo_55:
(Start: 16 @37005 has 95 MA's), (34, 36954), (41, 36906), (44, 36882), (51, 36843), (55, 36828), (73, 36675), (80, 36642), (85, 36624), (111, 36531), (116, 36501), (124, 36441),

Gene: Belenaria_43 Start: 32762, Stop: 32172, Start Num: 17
Candidate Starts for Belenaria_43:
(Start: 17 @32762 has 176 MA's), (Start: 21 @32744 has 66 MA's), (35, 32714), (36, 32711), (54, 32597), (62, 32513), (64, 32486), (78, 32420), (80, 32411), (97, 32363), (113, 32291), (116, 32270), (122, 32231),

Gene: Bellris_55 Start: 36491, Stop: 35799, Start Num: 16
Candidate Starts for Bellris_55:

(Start: 16 @36491 has 95 MA's), (29, 36446), (34, 36431), (41, 36383), (44, 36359), (47, 36344), (51, 36320), (55, 36305), (64, 36200), (65, 36191), (73, 36152), (79, 36122), (80, 36119), (83, 36110), (85, 36101), (111, 36008), (116, 35978), (127, 35882),

Gene: Benedict_51 Start: 35675, Stop: 35040, Start Num: 18
Candidate Starts for Benedict_51:
(Start: 18 @35675 has 8 MA's), (Start: 21 @35663 has 66 MA's), (42, 35573), (55, 35510), (64, 35405), (65, 35396), (77, 35336), (80, 35324), (83, 35315), (103, 35246), (113, 35204), (116, 35183), (125, 35120),

Gene: BennyP_57 Start: 35961, Stop: 35293, Start Num: 16
Candidate Starts for BennyP_57:
(Start: 16 @35961 has 95 MA's), (32, 35910), (55, 35775), (60, 35739), (116, 35457), (121, 35430),

Gene: Bigflo_57 Start: 36931, Stop: 36209, Start Num: 17
Candidate Starts for Bigflo_57:
(Start: 17 @36931 has 176 MA's), (Start: 50 @36790 has 1 MA's), (60, 36736), (72, 36622), (95, 36505), (98, 36472), (99, 36469), (109, 36418), (113, 36403), (116, 36382), (126, 36295),

Gene: Bimmel_23 Start: 16538, Stop: 15987, Start Num: 20
Candidate Starts for Bimmel_23:
(Start: 20 @16538 has 6 MA's), (32, 16514), (40, 16463), (41, 16460), (42, 16445), (66, 16268), (75, 16223), (93, 16148), (97, 16112), (99, 16106), (102, 16085), (116, 16019), (119, 15998),

Gene: BlessJoy_57 Start: 36317, Stop: 35649, Start Num: 16
Candidate Starts for BlessJoy_57:
(Start: 16 @36317 has 95 MA's), (32, 36266), (55, 36131), (60, 36095), (116, 35813), (121, 35786),

Gene: Blinn1_59 Start: 35909, Stop: 35241, Start Num: 16
Candidate Starts for Blinn1_59:
(Start: 16 @35909 has 95 MA's), (32, 35858), (55, 35723), (60, 35687), (116, 35405), (121, 35378),

Gene: Blue7_58 Start: 35991, Stop: 35299, Start Num: 16
Candidate Starts for Blue7_58:
(Start: 16 @35991 has 95 MA's), (32, 35940), (55, 35805), (60, 35769), (71, 35664), (114, 35499), (115, 35496), (116, 35487), (121, 35460), (130, 35334),

Gene: BlueBird_56 Start: 36750, Stop: 36073, Start Num: 17
Candidate Starts for BlueBird_56:
(Start: 17 @36750 has 176 MA's), (30, 36729), (34, 36723), (46, 36642), (48, 36633), (53, 36606), (55, 36597), (59, 36567), (64, 36492), (89, 36354), (92, 36333), (95, 36324), (98, 36291), (99, 36288), (116, 36201), (124, 36141), (128, 36084),

Gene: Bluefalcon_46 Start: 35852, Stop: 35226, Start Num: 21
Candidate Starts for Bluefalcon_46:
(Start: 18 @35864 has 8 MA's), (Start: 21 @35852 has 66 MA's), (30, 35834), (42, 35759), (55, 35696), (64, 35591), (65, 35582), (77, 35522), (80, 35510), (103, 35432), (116, 35369),

Gene: BobbyDazzler_43 Start: 32875, Stop: 32285, Start Num: 17
Candidate Starts for BobbyDazzler_43:
(Start: 17 @32875 has 176 MA's), (Start: 21 @32857 has 66 MA's), (35, 32827), (36, 32824), (54, 32710), (62, 32626), (64, 32599), (78, 32533), (80, 32524), (113, 32404), (116, 32383), (122, 32344),

Gene: BogosyJay_54 Start: 36720, Stop: 36055, Start Num: 16
Candidate Starts for BogosyJay_54:
(Start: 16 @36720 has 95 MA's), (34, 36669), (38, 36645), (44, 36597), (47, 36582), (53, 36552), (55, 36543), (64, 36438), (65, 36429), (73, 36390), (80, 36357), (83, 36348), (85, 36339), (111, 36246), (116, 36216),

Gene: Bonamassa_47 Start: 35693, Stop: 35070, Start Num: 21
Candidate Starts for Bonamassa_47:
(1, 36311), (2, 36254), (3, 36044), (Start: 18 @35705 has 8 MA's), (Start: 21 @35693 has 66 MA's), (42, 35603), (55, 35540), (64, 35435), (65, 35426), (67, 35417), (77, 35366), (80, 35354), (83, 35345), (108, 35252), (116, 35213), (125, 35150),

Gene: Bonanza_43 Start: 32803, Stop: 32213, Start Num: 17
Candidate Starts for Bonanza_43:
(Start: 17 @32803 has 176 MA's), (Start: 21 @32785 has 66 MA's), (35, 32755), (36, 32752), (54, 32638), (62, 32554), (64, 32527), (78, 32461), (80, 32452), (97, 32404), (113, 32332), (116, 32311), (122, 32272),

Gene: Boohoo_59 Start: 35907, Stop: 35335, Start Num: 21
Candidate Starts for Boohoo_59:
(13, 35958), (Start: 15 @35946 has 1 MA's), (Start: 21 @35907 has 66 MA's), (Start: 28 @35892 has 2 MA's), (54, 35754), (76, 35610), (99, 35508), (113, 35442), (116, 35421), (125, 35358),

Gene: Bradshaw_43 Start: 32829, Stop: 32239, Start Num: 17
Candidate Starts for Bradshaw_43:
(Start: 17 @32829 has 176 MA's), (Start: 21 @32811 has 66 MA's), (35, 32781), (36, 32778), (54, 32664), (62, 32580), (64, 32553), (78, 32487), (80, 32478), (97, 32430), (113, 32358), (116, 32337), (122, 32298),

Gene: BreSam8_57 Start: 36925, Stop: 36203, Start Num: 17
Candidate Starts for BreSam8_57:
(Start: 17 @36925 has 176 MA's), (Start: 50 @36784 has 1 MA's), (60, 36730), (72, 36616), (95, 36499), (98, 36466), (99, 36463), (109, 36412), (113, 36397), (116, 36376), (126, 36289),

Gene: Bryce_42 Start: 32583, Stop: 31993, Start Num: 17
Candidate Starts for Bryce_42:
(Start: 17 @32583 has 176 MA's), (Start: 21 @32565 has 66 MA's), (35, 32535), (36, 32532), (54, 32418), (62, 32334), (64, 32307), (78, 32241), (80, 32232), (97, 32184), (113, 32112), (116, 32091), (122, 32052),

Gene: Bugatti_56 Start: 36750, Stop: 36073, Start Num: 17
Candidate Starts for Bugatti_56:
(Start: 17 @36750 has 176 MA's), (30, 36729), (34, 36723), (46, 36642), (48, 36633), (53, 36606), (55, 36597), (59, 36567), (64, 36492), (89, 36354), (92, 36333), (95, 36324), (98, 36291), (99, 36288), (116, 36201), (124, 36141), (128, 36084),

Gene: BuzzBuzz_55 Start: 36959, Stop: 36237, Start Num: 17
Candidate Starts for BuzzBuzz_55:
(Start: 17 @36959 has 176 MA's), (Start: 50 @36818 has 1 MA's), (60, 36764), (99, 36497), (116, 36410), (126, 36323),

Gene: Bxz2_53 Start: 36825, Stop: 36244, Start Num: 50
Candidate Starts for Bxz2_53:

(Start: 17 @36966 has 176 MA's), (Start: 50 @36825 has 1 MA's), (60, 36771), (99, 36504), (116, 36417), (126, 36330),

Gene: Caitlin_52 Start: 35191, Stop: 34568, Start Num: 21
Candidate Starts for Caitlin_52:
(Start: 21 @35191 has 66 MA's), (40, 35119), (53, 35047), (60, 35002), (73, 34885), (79, 34855), (116, 34711), (117, 34702),

Gene: Calvinny_57 Start: 36821, Stop: 36099, Start Num: 17
Candidate Starts for Calvinny_57:
(Start: 17 @36821 has 176 MA's), (Start: 50 @36680 has 1 MA's), (60, 36626), (72, 36512), (98, 36362), (116, 36272), (126, 36185),

Gene: Candra_57 Start: 35831, Stop: 35163, Start Num: 16
Candidate Starts for Candra_57:
(Start: 16 @35831 has 95 MA's), (32, 35780), (55, 35645), (60, 35609), (116, 35327), (121, 35300),

Gene: Cat_52 Start: 36301, Stop: 35627, Start Num: 17
Candidate Starts for Cat_52:
(Start: 17 @36301 has 176 MA's), (30, 36280), (38, 36250), (40, 36229), (46, 36193), (48, 36184), (55, 36148), (64, 36043), (89, 35908), (95, 35878), (99, 35842), (104, 35815), (116, 35755), (124, 35695), (128, 35638),

Gene: Catalina_56 Start: 36908, Stop: 36243, Start Num: 16
Candidate Starts for Catalina_56:
(Start: 16 @36908 has 95 MA's), (34, 36857), (41, 36809), (44, 36785), (51, 36746), (55, 36731), (73, 36578), (80, 36545), (85, 36527), (111, 36434), (116, 36404), (124, 36344),

Gene: Caviar_53 Start: 36706, Stop: 36002, Start Num: 17
Candidate Starts for Caviar_53:
(Start: 17 @36706 has 176 MA's), (37, 36649), (38, 36646), (65, 36430), (74, 36382), (89, 36307), (90, 36304), (92, 36286), (114, 36166), (116, 36154),

Gene: Celestialunch_53 Start: 36554, Stop: 35883, Start Num: 16
Candidate Starts for Celestialunch_53:
(Start: 16 @36554 has 95 MA's), (29, 36509), (34, 36494), (41, 36446), (42, 36431), (44, 36422), (47, 36407), (53, 36377), (55, 36368), (59, 36338), (60, 36332), (65, 36254), (71, 36227), (80, 36182), (85, 36164), (111, 36071), (116, 36041),

Gene: Chadwick_51 Start: 35516, Stop: 34851, Start Num: 18
Candidate Starts for Chadwick_51:
(3, 35855), (Start: 18 @35516 has 8 MA's), (Start: 21 @35504 has 66 MA's), (42, 35414), (55, 35351), (64, 35246), (65, 35237), (70, 35213), (77, 35177), (80, 35165), (108, 35033), (116, 34994), (125, 34931),

Gene: Charm_53 Start: 36613, Stop: 35912, Start Num: 16
Candidate Starts for Charm_53:
(Start: 16 @36613 has 95 MA's), (29, 36568), (34, 36553), (40, 36508), (41, 36505), (44, 36481), (46, 36472), (47, 36466), (55, 36427), (64, 36322), (73, 36274), (80, 36241), (103, 36163), (110, 36133), (116, 36100), (121, 36073), (130, 35947),

Gene: Chartreuse_55 Start: 35191, Stop: 34523, Start Num: 16
Candidate Starts for Chartreuse_55:

(Start: 16 @35191 has 95 MA's), (32, 35140), (55, 35005), (60, 34969), (116, 34687), (121, 34660),

Gene: Chiqui_52 Start: 36748, Stop: 36050, Start Num: 17
Candidate Starts for Chiqui_52:
(Start: 17 @36748 has 176 MA's), (38, 36676), (40, 36655), (Start: 50 @36592 has 1 MA's), (60, 36538), (64, 36469), (89, 36331), (92, 36310), (95, 36301), (98, 36268), (116, 36178), (124, 36118), (128, 36061),

Gene: Chupacabra_51 Start: 36238, Stop: 35528, Start Num: 17
Candidate Starts for Chupacabra_51:
(Start: 17 @36238 has 176 MA's), (38, 36187), (40, 36166), (46, 36130), (55, 36085), (56, 36076), (68, 35959), (82, 35893), (116, 35695),

Gene: Clammy_56 Start: 36750, Stop: 36073, Start Num: 17
Candidate Starts for Clammy_56:
(Start: 17 @36750 has 176 MA's), (30, 36729), (34, 36723), (46, 36642), (48, 36633), (53, 36606), (55, 36597), (59, 36567), (64, 36492), (89, 36354), (92, 36333), (95, 36324), (98, 36291), (99, 36288), (116, 36201), (124, 36141), (128, 36084),

Gene: CloudWang3_57 Start: 35979, Stop: 35311, Start Num: 16
Candidate Starts for CloudWang3_57:
(Start: 16 @35979 has 95 MA's), (32, 35928), (55, 35793), (60, 35757), (116, 35475), (121, 35448),

Gene: ClownCar_57 Start: 36814, Stop: 36092, Start Num: 17
Candidate Starts for ClownCar_57:
(Start: 17 @36814 has 176 MA's), (Start: 50 @36673 has 1 MA's), (60, 36619), (72, 36505), (98, 36355), (116, 36265), (126, 36178),

Gene: CogOmlette_54 Start: 36488, Stop: 35796, Start Num: 16
Candidate Starts for CogOmlette_54:
(Start: 16 @36488 has 95 MA's), (29, 36443), (34, 36428), (41, 36380), (44, 36356), (47, 36341), (51, 36317), (55, 36302), (64, 36197), (65, 36188), (73, 36149), (80, 36116), (83, 36107), (85, 36098), (111, 36005), (116, 35975), (127, 35879),

Gene: Colbster_57 Start: 36935, Stop: 36213, Start Num: 17
Candidate Starts for Colbster_57:
(Start: 17 @36935 has 176 MA's), (Start: 50 @36794 has 1 MA's), (60, 36740), (72, 36626), (95, 36509), (98, 36476), (99, 36473), (109, 36422), (113, 36407), (116, 36386), (126, 36299),

Gene: Conquerage_55 Start: 36979, Stop: 36314, Start Num: 16
Candidate Starts for Conquerage_55:
(Start: 16 @36979 has 95 MA's), (34, 36928), (41, 36880), (44, 36856), (51, 36817), (55, 36802), (73, 36649), (80, 36616), (85, 36598), (111, 36505), (116, 36475), (124, 36415),

Gene: Conspiracy_47 Start: 35519, Stop: 34893, Start Num: 21
Candidate Starts for Conspiracy_47:
(Start: 18 @35531 has 8 MA's), (Start: 21 @35519 has 66 MA's), (30, 35501), (42, 35426), (Start: 50 @35381 has 1 MA's), (55, 35363), (77, 35189), (80, 35177), (116, 35036), (125, 34973),

Gene: Coog_46 Start: 35677, Stop: 35054, Start Num: 21
Candidate Starts for Coog_46:
(1, 36295), (2, 36238), (Start: 18 @35689 has 8 MA's), (Start: 21 @35677 has 66 MA's), (42, 35587), (55, 35524), (64, 35419), (65, 35410), (67, 35401), (77, 35350), (80, 35338), (83, 35329), (103, 35260),

(116, 35197), (125, 35134),

Gene: Cookiedough_56 Start: 35810, Stop: 35142, Start Num: 16
Candidate Starts for Cookiedough_56:
(Start: 16 @35810 has 95 MA's), (32, 35759), (55, 35624), (60, 35588), (116, 35306), (121, 35279),

Gene: CosmicSans_43 Start: 32829, Stop: 32239, Start Num: 17
Candidate Starts for CosmicSans_43:
(Start: 17 @32829 has 176 MA's), (Start: 21 @32811 has 66 MA's), (35, 32781), (36, 32778), (54, 32664), (62, 32580), (64, 32553), (78, 32487), (80, 32478), (97, 32430), (113, 32358), (116, 32337), (122, 32298),

Gene: Croquant_58 Start: 36930, Stop: 36208, Start Num: 17
Candidate Starts for Croquant_58:
(Start: 17 @36930 has 176 MA's), (Start: 50 @36789 has 1 MA's), (60, 36735), (72, 36621), (95, 36504), (98, 36471), (99, 36468), (109, 36417), (113, 36402), (116, 36381), (126, 36294),

Gene: Cuco_47 Start: 35561, Stop: 34926, Start Num: 18
Candidate Starts for Cuco_47:
(Start: 18 @35561 has 8 MA's), (Start: 21 @35549 has 66 MA's), (42, 35459), (55, 35396), (64, 35291), (65, 35282), (77, 35222), (80, 35210), (83, 35201), (116, 35069), (125, 35006),

Gene: Cullens_57 Start: 36931, Stop: 36209, Start Num: 17
Candidate Starts for Cullens_57:
(Start: 17 @36931 has 176 MA's), (Start: 50 @36790 has 1 MA's), (60, 36736), (72, 36622), (95, 36505), (98, 36472), (99, 36469), (109, 36418), (113, 36403), (116, 36382), (126, 36295),

Gene: DaHudson_57 Start: 36924, Stop: 36202, Start Num: 17
Candidate Starts for DaHudson_57:
(Start: 17 @36924 has 176 MA's), (Start: 50 @36783 has 1 MA's), (60, 36729), (72, 36615), (95, 36498), (98, 36465), (99, 36462), (109, 36411), (113, 36396), (116, 36375), (126, 36288),

Gene: DaVinci_55 Start: 35245, Stop: 34577, Start Num: 16
Candidate Starts for DaVinci_55:
(Start: 16 @35245 has 95 MA's), (32, 35194), (55, 35059), (60, 35023), (116, 34741), (121, 34714),

Gene: Daishi_56 Start: 35800, Stop: 35078, Start Num: 17
Candidate Starts for Daishi_56:
(Start: 17 @35800 has 176 MA's), (Start: 50 @35659 has 1 MA's), (60, 35605), (99, 35338), (116, 35251), (126, 35164),

Gene: Danforth_52 Start: 35227, Stop: 34604, Start Num: 21
Candidate Starts for Danforth_52:
(Start: 21 @35227 has 66 MA's), (40, 35155), (53, 35083), (60, 35038), (73, 34921), (79, 34891), (101, 34822), (103, 34810), (116, 34747), (117, 34738),

Gene: Darrell_57 Start: 37605, Stop: 36931, Start Num: 16
Candidate Starts for Darrell_57:
(Start: 16 @37605 has 95 MA's), (29, 37560), (34, 37545), (42, 37482), (43, 37479), (44, 37473), (47, 37458), (55, 37419), (65, 37305), (80, 37233), (85, 37215), (102, 37158), (116, 37089),

Gene: DekHockey33_60 Start: 36199, Stop: 35627, Start Num: 21
Candidate Starts for DekHockey33_60:

(13, 36250), (Start: 15 @36238 has 1 MA's), (Start: 21 @36199 has 66 MA's), (Start: 28 @36184 has 2 MA's), (54, 36046), (76, 35902), (99, 35800), (113, 35734), (116, 35713), (125, 35650),

Gene: DelvinSonDorr_55 Start: 36050, Stop: 35382, Start Num: 16
Candidate Starts for DelvinSonDorr_55:
(Start: 16 @36050 has 95 MA's), (32, 35999), (55, 35864), (60, 35828), (116, 35546), (121, 35519),

Gene: Dieselweasel_58 Start: 36934, Stop: 36212, Start Num: 17
Candidate Starts for Dieselweasel_58:
(Start: 17 @36934 has 176 MA's), (Start: 50 @36793 has 1 MA's), (60, 36739), (72, 36625), (95, 36508), (98, 36475), (99, 36472), (109, 36421), (110, 36418), (113, 36406), (116, 36385), (126, 36298),

Gene: Dinger_42 Start: 32698, Stop: 32108, Start Num: 17
Candidate Starts for Dinger_42:
(Start: 17 @32698 has 176 MA's), (Start: 21 @32680 has 66 MA's), (35, 32650), (36, 32647), (48, 32563), (Start: 50 @32545 has 1 MA's), (62, 32449), (64, 32422), (65, 32413), (78, 32356), (80, 32347), (97, 32299), (101, 32281), (104, 32266), (108, 32245), (116, 32206), (122, 32167),

Gene: Discoknowium_45 Start: 35186, Stop: 34560, Start Num: 21
Candidate Starts for Discoknowium_45:
(Start: 18 @35198 has 8 MA's), (Start: 21 @35186 has 66 MA's), (30, 35168), (42, 35093), (Start: 50 @35048 has 1 MA's), (55, 35030), (77, 34856), (80, 34844), (116, 34703), (125, 34640),

Gene: Dixon_52 Start: 35052, Stop: 34399, Start Num: 21
Candidate Starts for Dixon_52:
(Start: 21 @35052 has 66 MA's), (38, 35001), (40, 34980), (48, 34935), (Start: 50 @34917 has 1 MA's), (55, 34899), (64, 34794), (65, 34785), (79, 34716), (80, 34713), (116, 34542), (118, 34524),

Gene: DontArgue_51 Start: 35412, Stop: 34678, Start Num: 17
Candidate Starts for DontArgue_51:
(Start: 17 @35412 has 176 MA's), (39, 35331), (42, 35298), (60, 35199), (82, 35043), (116, 34845), (131, 34689),

Gene: Dorothea_56 Start: 35814, Stop: 35146, Start Num: 16
Candidate Starts for Dorothea_56:
(Start: 16 @35814 has 95 MA's), (32, 35763), (55, 35628), (60, 35592), (116, 35310), (121, 35283),

Gene: Drake94_50 Start: 35473, Stop: 34739, Start Num: 17
Candidate Starts for Drake94_50:
(Start: 17 @35473 has 176 MA's), (40, 35377), (Start: 50 @35314 has 1 MA's), (54, 35302), (60, 35260), (82, 35104), (85, 35074), (108, 34945), (109, 34942), (116, 34906),

Gene: DreamTeam1_53 Start: 36445, Stop: 35768, Start Num: 16
Candidate Starts for DreamTeam1_53:
(Start: 16 @36445 has 95 MA's), (29, 36400), (34, 36385), (55, 36259), (65, 36145), (73, 36106), (80, 36073), (85, 36055), (116, 35929),

Gene: DropBear_54 Start: 36646, Stop: 35945, Start Num: 17
Candidate Starts for DropBear_54:
(Start: 17 @36646 has 176 MA's), (38, 36574), (40, 36553), (Start: 50 @36490 has 1 MA's), (60, 36436), (64, 36367), (86, 36238), (89, 36226), (92, 36205), (95, 36196), (98, 36163), (116, 36073), (124, 36013), (128, 35956),

Gene: Dublin_47 Start: 35688, Stop: 35062, Start Num: 21
Candidate Starts for Dublin_47:
(2, 36249), (3, 36039), (Start: 18 @35700 has 8 MA's), (Start: 21 @35688 has 66 MA's), (30, 35670), (42, 35595), (55, 35532), (64, 35427), (65, 35418), (77, 35358), (80, 35346), (83, 35337), (108, 35244), (116, 35205),

Gene: DustyMartin_56 Start: 36313, Stop: 35600, Start Num: 17
Candidate Starts for DustyMartin_56:
(Start: 17 @36313 has 176 MA's), (38, 36259), (46, 36202), (55, 36157), (56, 36148), (82, 35965), (106, 35818), (116, 35767), (124, 35707),

Gene: Eaglepride_53 Start: 36302, Stop: 35592, Start Num: 17
Candidate Starts for Eaglepride_53:
(Start: 17 @36302 has 176 MA's), (38, 36251), (40, 36230), (55, 36149), (56, 36140), (85, 35927), (116, 35759),

Gene: Edison31_51 Start: 36241, Stop: 35531, Start Num: 17
Candidate Starts for Edison31_51:
(Start: 17 @36241 has 176 MA's), (38, 36190), (46, 36133), (55, 36088), (56, 36079), (59, 36058), (60, 36052), (82, 35896), (96, 35794), (116, 35698),

Gene: EdogawaKiddo_55 Start: 36956, Stop: 36291, Start Num: 16
Candidate Starts for EdogawaKiddo_55:
(Start: 16 @36956 has 95 MA's), (34, 36905), (41, 36857), (44, 36833), (51, 36794), (55, 36779), (73, 36626), (80, 36593), (85, 36575), (111, 36482), (116, 36452), (124, 36392),

Gene: Eidsmoe_55 Start: 36971, Stop: 36306, Start Num: 16
Candidate Starts for Eidsmoe_55:
(Start: 16 @36971 has 95 MA's), (34, 36920), (41, 36872), (44, 36848), (51, 36809), (55, 36794), (73, 36641), (80, 36608), (85, 36590), (111, 36497), (116, 36467), (124, 36407),

Gene: ElTiger69_50 Start: 35645, Stop: 35022, Start Num: 21
Candidate Starts for ElTiger69_50:
(Start: 18 @35657 has 8 MA's), (Start: 21 @35645 has 66 MA's), (42, 35555), (55, 35492), (64, 35387), (65, 35378), (77, 35318), (80, 35306), (83, 35297), (102, 35231), (116, 35165), (125, 35102),

Gene: Elephantoon_54 Start: 36347, Stop: 35676, Start Num: 16
Candidate Starts for Elephantoon_54:
(Start: 16 @36347 has 95 MA's), (29, 36302), (34, 36287), (41, 36239), (44, 36215), (47, 36200), (55, 36161), (65, 36047), (73, 36008), (77, 35987), (80, 35975), (85, 35957), (116, 35834), (123, 35777),

Gene: Elle_53 Start: 34006, Stop: 33395, Start Num: 28
Candidate Starts for Elle_53:
(19, 34030), (Start: 28 @34006 has 2 MA's), (46, 33907), (54, 33868), (55, 33862), (64, 33757), (76, 33724), (81, 33706), (92, 33658), (116, 33535), (125, 33472),

Gene: EmyBug_54 Start: 36973, Stop: 36308, Start Num: 16
Candidate Starts for EmyBug_54:
(Start: 16 @36973 has 95 MA's), (34, 36922), (41, 36874), (44, 36850), (51, 36811), (55, 36796), (73, 36643), (80, 36610), (85, 36592), (111, 36499), (116, 36469), (124, 36409),

Gene: EpicPhail_58 Start: 36935, Stop: 36213, Start Num: 17

Candidate Starts for EpicPhail_58:
(Start: 17 @36935 has 176 MA's), (Start: 50 @36794 has 1 MA's), (60, 36740), (72, 36626), (95, 36509), (98, 36476), (99, 36473), (109, 36422), (113, 36407), (116, 36386), (126, 36299),

Gene: Epsocamisio_57 Start: 35442, Stop: 34870, Start Num: 21
Candidate Starts for Epsocamisio_57:
(13, 35493), (Start: 15 @35481 has 1 MA's), (Start: 21 @35442 has 66 MA's), (Start: 28 @35427 has 2 MA's), (54, 35289), (76, 35145), (99, 35043), (113, 34977), (116, 34956), (125, 34893),

Gene: EricB_56 Start: 35788, Stop: 35120, Start Num: 16
Candidate Starts for EricB_56:
(Start: 16 @35788 has 95 MA's), (32, 35737), (55, 35602), (60, 35566), (116, 35284), (121, 35257),

Gene: Erik_43 Start: 32761, Stop: 32171, Start Num: 17
Candidate Starts for Erik_43:
(Start: 17 @32761 has 176 MA's), (Start: 21 @32743 has 66 MA's), (35, 32713), (36, 32710), (54, 32596), (62, 32512), (64, 32485), (78, 32419), (80, 32410), (97, 32362), (113, 32290), (116, 32269), (122, 32230),

Gene: Espica_43 Start: 32762, Stop: 32172, Start Num: 17
Candidate Starts for Espica_43:
(Start: 17 @32762 has 176 MA's), (Start: 21 @32744 has 66 MA's), (35, 32714), (36, 32711), (54, 32597), (62, 32513), (64, 32486), (78, 32420), (80, 32411), (97, 32363), (113, 32291), (116, 32270), (122, 32231),

Gene: EtoileNova_54 Start: 36710, Stop: 36006, Start Num: 17
Candidate Starts for EtoileNova_54:
(Start: 17 @36710 has 176 MA's), (37, 36653), (38, 36650), (65, 36434), (74, 36386), (89, 36311), (90, 36308), (92, 36290), (114, 36170), (116, 36158),

Gene: Expelliarmus_52 Start: 35256, Stop: 34633, Start Num: 21
Candidate Starts for Expelliarmus_52:
(Start: 21 @35256 has 66 MA's), (40, 35184), (53, 35112), (60, 35067), (73, 34950), (79, 34920), (116, 34776), (117, 34767),

Gene: ExplosioNervosa_55 Start: 37039, Stop: 36374, Start Num: 16
Candidate Starts for ExplosioNervosa_55:
(Start: 16 @37039 has 95 MA's), (34, 36988), (41, 36940), (44, 36916), (51, 36877), (55, 36862), (73, 36709), (80, 36676), (85, 36658), (111, 36565), (116, 36535), (124, 36475),

Gene: Farber_57 Start: 36921, Stop: 36199, Start Num: 17
Candidate Starts for Farber_57:
(Start: 17 @36921 has 176 MA's), (Start: 50 @36780 has 1 MA's), (60, 36726), (99, 36459), (116, 36372), (126, 36285),

Gene: FatCactus_47 Start: 34210, Stop: 33581, Start Num: 22
Candidate Starts for FatCactus_47:
(Start: 22 @34210 has 1 MA's), (33, 34183), (55, 34051), (71, 33910), (116, 33733), (126, 33646), (129, 33601),

Gene: Fayely_55 Start: 36940, Stop: 36275, Start Num: 16
Candidate Starts for Fayely_55:

(Start: 16 @36940 has 95 MA's), (34, 36889), (41, 36841), (44, 36817), (51, 36778), (55, 36763), (73, 36610), (80, 36577), (85, 36559), (111, 36466), (116, 36436), (124, 36376),

Gene: Fernando_57 Start: 36931, Stop: 36209, Start Num: 17
Candidate Starts for Fernando_57:
(Start: 17 @36931 has 176 MA's), (Start: 50 @36790 has 1 MA's), (60, 36736), (72, 36622), (95, 36505), (98, 36472), (99, 36469), (109, 36418), (113, 36403), (116, 36382), (126, 36295),

Gene: Florence1_45 Start: 35004, Stop: 34396, Start Num: 30
Candidate Starts for Florence1_45:
(1, 35640), (2, 35583), (3, 35373), (Start: 18 @35034 has 8 MA's), (Start: 21 @35022 has 66 MA's), (30, 35004), (42, 34929), (55, 34866), (64, 34761), (65, 34752), (77, 34692), (80, 34680), (83, 34671), (108, 34578), (116, 34539), (125, 34476),

Gene: Florence4_47 Start: 35022, Stop: 34396, Start Num: 21
Candidate Starts for Florence4_47:
(1, 35640), (2, 35583), (3, 35373), (Start: 18 @35034 has 8 MA's), (Start: 21 @35022 has 66 MA's), (30, 35004), (42, 34929), (55, 34866), (64, 34761), (65, 34752), (77, 34692), (80, 34680), (83, 34671), (108, 34578), (116, 34539), (125, 34476),

Gene: ForGetIt_47 Start: 35544, Stop: 34918, Start Num: 21
Candidate Starts for ForGetIt_47:
(Start: 18 @35556 has 8 MA's), (Start: 21 @35544 has 66 MA's), (30, 35526), (42, 35451), (Start: 50 @35406 has 1 MA's), (55, 35388), (77, 35214), (80, 35202), (116, 35061), (125, 34998),

Gene: Fred313_54 Start: 36337, Stop: 35636, Start Num: 17
Candidate Starts for Fred313_54:
(Start: 17 @36337 has 176 MA's), (38, 36265), (40, 36244), (Start: 50 @36181 has 1 MA's), (60, 36127), (64, 36058), (86, 35929), (89, 35917), (92, 35896), (95, 35887), (98, 35854), (116, 35764), (124, 35704), (128, 35647),

Gene: Garak_59 Start: 36258, Stop: 35590, Start Num: 16
Candidate Starts for Garak_59:
(Start: 16 @36258 has 95 MA's), (32, 36207), (55, 36072), (60, 36036), (116, 35754), (121, 35727),

Gene: GaugeLDP_52 Start: 37028, Stop: 36396, Start Num: 26
Candidate Starts for GaugeLDP_52:
(5, 37256), (6, 37217), (Start: 15 @37073 has 1 MA's), (Start: 26 @37028 has 2 MA's), (31, 37019), (38, 36983), (40, 36962), (53, 36890), (55, 36881), (67, 36758), (84, 36659), (87, 36647), (88, 36641), (92, 36617), (94, 36611), (95, 36608), (98, 36575), (112, 36512), (114, 36497), (116, 36485),

Gene: Gemma_56 Start: 36817, Stop: 36095, Start Num: 17
Candidate Starts for Gemma_56:
(Start: 17 @36817 has 176 MA's), (47, 36697), (Start: 50 @36676 has 1 MA's), (60, 36622), (98, 36358), (116, 36268), (126, 36181),

Gene: George_45 Start: 35596, Stop: 34973, Start Num: 21
Candidate Starts for George_45:
(Start: 18 @35608 has 8 MA's), (Start: 21 @35596 has 66 MA's), (42, 35506), (55, 35443), (77, 35269), (80, 35257), (116, 35116), (125, 35053),

Gene: Ghoulboy_50 Start: 36423, Stop: 35797, Start Num: 21
Candidate Starts for Ghoulboy_50:

(Start: 18 @36435 has 8 MA's), (Start: 21 @36423 has 66 MA's), (30, 36405), (42, 36330), (55, 36267), (64, 36162), (65, 36153), (77, 36093), (80, 36081), (103, 36003), (116, 35940),

Gene: GingkoMaracino_57 Start: 36817, Stop: 36095, Start Num: 17
Candidate Starts for GingkoMaracino_57:
(Start: 17 @36817 has 176 MA's), (Start: 50 @36676 has 1 MA's), (60, 36622), (72, 36508), (95, 36391), (98, 36358), (99, 36355), (109, 36304), (113, 36289), (116, 36268), (126, 36181),

Gene: Giroux_56 Start: 36749, Stop: 36072, Start Num: 17
Candidate Starts for Giroux_56:
(Start: 17 @36749 has 176 MA's), (30, 36728), (34, 36722), (46, 36641), (48, 36632), (53, 36605), (55, 36596), (59, 36566), (64, 36491), (89, 36353), (92, 36332), (95, 36323), (98, 36290), (99, 36287), (116, 36200), (124, 36140), (128, 36083),

Gene: Gladiator_54 Start: 35489, Stop: 34821, Start Num: 16
Candidate Starts for Gladiator_54:
(Start: 16 @35489 has 95 MA's), (32, 35438), (55, 35303), (60, 35267), (71, 35162), (114, 34997), (115, 34994), (116, 34985), (121, 34958),

Gene: Gollum_43 Start: 32827, Stop: 32237, Start Num: 17
Candidate Starts for Gollum_43:
(Start: 17 @32827 has 176 MA's), (Start: 21 @32809 has 66 MA's), (35, 32779), (36, 32776), (54, 32662), (62, 32578), (64, 32551), (78, 32485), (80, 32476), (97, 32428), (113, 32356), (116, 32335), (122, 32296),

Gene: Goose_52 Start: 36054, Stop: 35341, Start Num: 17
Candidate Starts for Goose_52:
(Start: 17 @36054 has 176 MA's), (38, 36000), (40, 35979), (55, 35898), (56, 35889), (64, 35793), (82, 35706), (98, 35598), (108, 35547), (116, 35508),

Gene: Goose1D_48 Start: 32827, Stop: 32126, Start Num: 17
Candidate Starts for Goose1D_48:
(Start: 17 @32827 has 176 MA's), (38, 32755), (40, 32734), (Start: 50 @32671 has 1 MA's), (60, 32617), (64, 32548), (86, 32419), (89, 32407), (92, 32386), (95, 32377), (98, 32344), (116, 32254), (124, 32194), (128, 32137),

Gene: Goose1X_54 Start: 35969, Stop: 35268, Start Num: 17
Candidate Starts for Goose1X_54:
(Start: 17 @35969 has 176 MA's), (38, 35897), (40, 35876), (Start: 50 @35813 has 1 MA's), (60, 35759), (64, 35690), (86, 35561), (89, 35549), (92, 35528), (95, 35519), (98, 35486), (116, 35396), (124, 35336), (128, 35279),

Gene: GreedyLawyer_56 Start: 35795, Stop: 35127, Start Num: 16
Candidate Starts for GreedyLawyer_56:
(Start: 16 @35795 has 95 MA's), (32, 35744), (55, 35609), (60, 35573), (116, 35291), (121, 35264),

Gene: Grif_57 Start: 37006, Stop: 36284, Start Num: 17
Candidate Starts for Grif_57:
(Start: 17 @37006 has 176 MA's), (Start: 50 @36865 has 1 MA's), (60, 36811), (72, 36697), (95, 36580), (98, 36547), (99, 36544), (109, 36493), (113, 36478), (116, 36457), (126, 36370),

Gene: Groundhog_51 Start: 35142, Stop: 34531, Start Num: 21
Candidate Starts for Groundhog_51:

(Start: 21 @35142 has 66 MA's), (40, 35070), (53, 34998), (55, 34989), (78, 34812), (80, 34803), (99, 34749), (116, 34674), (118, 34656),

Gene: Groupthink_58 Start: 36821, Stop: 36099, Start Num: 17
Candidate Starts for Groupthink_58:
(Start: 17 @36821 has 176 MA's), (Start: 50 @36680 has 1 MA's), (60, 36626), (72, 36512), (98, 36362), (116, 36272), (126, 36185),

Gene: Grub_57 Start: 36923, Stop: 36201, Start Num: 17
Candidate Starts for Grub_57:
(Start: 17 @36923 has 176 MA's), (Start: 50 @36782 has 1 MA's), (60, 36728), (72, 36614), (95, 36497), (98, 36464), (99, 36461), (109, 36410), (113, 36395), (116, 36374), (126, 36287),

Gene: Grum1_57 Start: 36931, Stop: 36209, Start Num: 17
Candidate Starts for Grum1_57:
(Start: 17 @36931 has 176 MA's), (Start: 50 @36790 has 1 MA's), (60, 36736), (72, 36622), (95, 36505), (98, 36472), (99, 36469), (109, 36418), (113, 36403), (116, 36382), (126, 36295),

Gene: Gruunaga_57 Start: 36188, Stop: 35520, Start Num: 16
Candidate Starts for Gruunaga_57:
(Start: 16 @36188 has 95 MA's), (32, 36137), (55, 36002), (60, 35966), (71, 35861), (114, 35696), (115, 35693), (116, 35684), (121, 35657),

Gene: GtownJaz_57 Start: 36933, Stop: 36211, Start Num: 17
Candidate Starts for GtownJaz_57:
(Start: 17 @36933 has 176 MA's), (Start: 50 @36792 has 1 MA's), (60, 36738), (72, 36624), (95, 36507), (98, 36474), (99, 36471), (109, 36420), (113, 36405), (116, 36384), (126, 36297),

Gene: Gwennie_57 Start: 36935, Stop: 36213, Start Num: 17
Candidate Starts for Gwennie_57:
(Start: 17 @36935 has 176 MA's), (Start: 50 @36794 has 1 MA's), (60, 36740), (72, 36626), (95, 36509), (98, 36476), (99, 36473), (109, 36422), (113, 36407), (116, 36386), (126, 36299),

Gene: Hammer_57 Start: 35795, Stop: 35103, Start Num: 16
Candidate Starts for Hammer_57:
(Start: 16 @35795 has 95 MA's), (32, 35744), (55, 35609), (60, 35573), (71, 35468), (114, 35303), (115, 35300), (116, 35291), (121, 35264), (130, 35138),

Gene: Hanray_55 Start: 36960, Stop: 36295, Start Num: 16
Candidate Starts for Hanray_55:
(Start: 16 @36960 has 95 MA's), (34, 36909), (41, 36861), (44, 36837), (51, 36798), (55, 36783), (73, 36630), (80, 36597), (85, 36579), (111, 36486), (116, 36456), (124, 36396),

Gene: Harlequin_42 Start: 32613, Stop: 32023, Start Num: 17
Candidate Starts for Harlequin_42:
(Start: 17 @32613 has 176 MA's), (Start: 21 @32595 has 66 MA's), (35, 32565), (36, 32562), (54, 32448), (62, 32364), (64, 32337), (78, 32271), (80, 32262), (97, 32214), (113, 32142), (116, 32121), (122, 32082),

Gene: HashRod_58 Start: 36959, Stop: 36237, Start Num: 17
Candidate Starts for HashRod_58:
(Start: 17 @36959 has 176 MA's), (Start: 50 @36818 has 1 MA's), (60, 36764), (72, 36650), (99, 36497), (116, 36410), (126, 36323),

Gene: HaveUMetTed_58 Start: 36806, Stop: 36084, Start Num: 17
Candidate Starts for HaveUMetTed_58:
(Start: 17 @36806 has 176 MA's), (Start: 50 @36665 has 1 MA's), (60, 36611), (72, 36497), (98, 36347), (116, 36257), (126, 36170),

Gene: Heathen_54 Start: 36435, Stop: 35734, Start Num: 17
Candidate Starts for Heathen_54:
(Start: 17 @36435 has 176 MA's), (38, 36363), (40, 36342), (Start: 50 @36279 has 1 MA's), (60, 36225), (64, 36156), (86, 36027), (89, 36015), (92, 35994), (95, 35985), (98, 35952), (116, 35862), (124, 35802), (128, 35745),

Gene: HelDan_54 Start: 36651, Stop: 35950, Start Num: 17
Candidate Starts for HelDan_54:
(Start: 17 @36651 has 176 MA's), (38, 36579), (40, 36558), (Start: 50 @36495 has 1 MA's), (60, 36441), (64, 36372), (86, 36243), (89, 36231), (92, 36210), (95, 36201), (98, 36168), (116, 36078), (124, 36018), (128, 35961),

Gene: Heliosoles_56 Start: 36824, Stop: 36102, Start Num: 17
Candidate Starts for Heliosoles_56:
(Start: 17 @36824 has 176 MA's), (Start: 50 @36683 has 1 MA's), (60, 36629), (72, 36515), (98, 36365), (116, 36275), (126, 36188),

Gene: Helmet_59 Start: 36258, Stop: 35590, Start Num: 16
Candidate Starts for Helmet_59:
(Start: 16 @36258 has 95 MA's), (32, 36207), (55, 36072), (60, 36036), (116, 35754), (121, 35727),

Gene: Herbertwm_53 Start: 36479, Stop: 35799, Start Num: 15
Candidate Starts for Herbertwm_53:
(Start: 15 @36479 has 1 MA's), (Start: 21 @36443 has 66 MA's), (38, 36395), (40, 36374), (55, 36293), (84, 36071), (88, 36053), (116, 35897), (125, 35834),

Gene: Hercules11_57 Start: 36940, Stop: 36218, Start Num: 17
Candidate Starts for Hercules11_57:
(Start: 17 @36940 has 176 MA's), (Start: 50 @36799 has 1 MA's), (60, 36745), (72, 36631), (95, 36514), (98, 36481), (99, 36478), (109, 36427), (113, 36412), (116, 36391), (126, 36304),

Gene: Hexamo_57 Start: 35888, Stop: 35220, Start Num: 16
Candidate Starts for Hexamo_57:
(Start: 16 @35888 has 95 MA's), (32, 35837), (55, 35702), (60, 35666), (116, 35384), (121, 35357),

Gene: Hiro_43 Start: 33089, Stop: 32499, Start Num: 17
Candidate Starts for Hiro_43:
(Start: 17 @33089 has 176 MA's), (Start: 21 @33071 has 66 MA's), (35, 33041), (36, 33038), (54, 32924), (62, 32840), (64, 32813), (78, 32747), (80, 32738), (97, 32690), (113, 32618), (116, 32597), (122, 32558),

Gene: Holex_55 Start: 36976, Stop: 36311, Start Num: 16
Candidate Starts for Holex_55:
(Start: 16 @36976 has 95 MA's), (34, 36925), (41, 36877), (44, 36853), (51, 36814), (55, 36799), (73, 36646), (80, 36613), (85, 36595), (111, 36502), (116, 36472), (124, 36412),

Gene: Hookmount_53 Start: 36707, Stop: 36003, Start Num: 17

Candidate Starts for Hookmount_53:
(Start: 17 @36707 has 176 MA's), (37, 36650), (38, 36647), (65, 36431), (74, 36383), (89, 36308), (90, 36305), (92, 36287), (114, 36167), (116, 36155),

Gene: Hoot_51 Start: 33646, Stop: 32978, Start Num: 16
Candidate Starts for Hoot_51:
(Start: 16 @33646 has 95 MA's), (32, 33595), (55, 33460), (60, 33424), (116, 33142), (121, 33115),

Gene: HortumSL17_55 Start: 36907, Stop: 36242, Start Num: 16
Candidate Starts for HortumSL17_55:
(Start: 16 @36907 has 95 MA's), (34, 36856), (41, 36808), (44, 36784), (51, 36745), (55, 36730), (73, 36577), (80, 36544), (85, 36526), (111, 36433), (116, 36403), (124, 36343),

Gene: HuhtaEnerson15_47 Start: 35587, Stop: 34964, Start Num: 21
Candidate Starts for HuhtaEnerson15_47:
(1, 36205), (2, 36148), (Start: 18 @35599 has 8 MA's), (Start: 21 @35587 has 66 MA's), (42, 35497), (55, 35434), (80, 35248), (116, 35107), (125, 35044),

Gene: Ibantik_29 Start: 14780, Stop: 14223, Start Num: 20
Candidate Starts for Ibantik_29:
(Start: 20 @14780 has 6 MA's), (42, 14681), (45, 14666), (46, 14663), (57, 14597), (63, 14540), (100, 14333), (101, 14327), (116, 14252),

Gene: Idleandcovert_55 Start: 36750, Stop: 36073, Start Num: 17
Candidate Starts for Idleandcovert_55:
(Start: 17 @36750 has 176 MA's), (30, 36729), (34, 36723), (46, 36642), (48, 36633), (53, 36606), (55, 36597), (59, 36567), (64, 36492), (89, 36354), (92, 36333), (95, 36324), (98, 36291), (99, 36288), (116, 36201), (124, 36141), (128, 36084),

Gene: Imbriano_58 Start: 36195, Stop: 35527, Start Num: 16
Candidate Starts for Imbriano_58:
(Start: 16 @36195 has 95 MA's), (32, 36144), (55, 36009), (60, 35973), (116, 35691), (121, 35664),

Gene: Indra_60 Start: 36259, Stop: 35591, Start Num: 16
Candidate Starts for Indra_60:
(Start: 16 @36259 has 95 MA's), (32, 36208), (55, 36073), (60, 36037), (116, 35755), (121, 35728),

Gene: Isca_53 Start: 36217, Stop: 35516, Start Num: 17
Candidate Starts for Isca_53:
(Start: 17 @36217 has 176 MA's), (38, 36145), (40, 36124), (Start: 50 @36061 has 1 MA's), (60, 36007), (64, 35938), (89, 35797), (92, 35776), (95, 35767), (98, 35734), (116, 35644), (124, 35584), (128, 35527),

Gene: Isiphiwo_54 Start: 35371, Stop: 34703, Start Num: 16
Candidate Starts for Isiphiwo_54:
(Start: 16 @35371 has 95 MA's), (32, 35320), (55, 35185), (60, 35149), (116, 34867), (121, 34840),

Gene: JF2_52 Start: 34918, Stop: 34217, Start Num: 17
Candidate Starts for JF2_52:
(Start: 17 @34918 has 176 MA's), (38, 34846), (40, 34825), (Start: 50 @34762 has 1 MA's), (60, 34708), (64, 34639), (89, 34498), (92, 34477), (95, 34468), (98, 34435), (116, 34345), (124, 34285), (128, 34228),

Gene: JF4_52 Start: 34918, Stop: 34217, Start Num: 17
Candidate Starts for JF4_52:
(Start: 17 @34918 has 176 MA's), (38, 34846), (40, 34825), (Start: 50 @34762 has 1 MA's), (60, 34708), (64, 34639), (89, 34498), (92, 34477), (95, 34468), (98, 34435), (116, 34345), (124, 34285), (128, 34228),

Gene: JHC117_57 Start: 36930, Stop: 36208, Start Num: 17
Candidate Starts for JHC117_57:
(Start: 17 @36930 has 176 MA's), (Start: 50 @36789 has 1 MA's), (60, 36735), (72, 36621), (95, 36504), (98, 36471), (99, 36468), (109, 36417), (113, 36402), (116, 36381), (126, 36294),

Gene: JSwag_59 Start: 35631, Stop: 35059, Start Num: 21
Candidate Starts for JSwag_59:
(13, 35682), (Start: 15 @35670 has 1 MA's), (Start: 21 @35631 has 66 MA's), (Start: 28 @35616 has 2 MA's), (54, 35478), (76, 35334), (99, 35232), (113, 35166), (116, 35145), (125, 35082),

Gene: Jabiru_49 Start: 35518, Stop: 34895, Start Num: 21
Candidate Starts for Jabiru_49:
(3, 35869), (Start: 18 @35530 has 8 MA's), (Start: 21 @35518 has 66 MA's), (42, 35428), (55, 35365), (64, 35260), (65, 35251), (70, 35227), (77, 35191), (80, 35179), (83, 35170), (113, 35059), (116, 35038), (125, 34975),

Gene: Jeffabunny_57 Start: 35885, Stop: 35217, Start Num: 16
Candidate Starts for Jeffabunny_57:
(Start: 16 @35885 has 95 MA's), (32, 35834), (55, 35699), (60, 35663), (116, 35381), (121, 35354),

Gene: JenCasNa_58 Start: 36931, Stop: 36209, Start Num: 17
Candidate Starts for JenCasNa_58:
(Start: 17 @36931 has 176 MA's), (Start: 50 @36790 has 1 MA's), (60, 36736), (72, 36622), (95, 36505), (98, 36472), (99, 36469), (109, 36418), (113, 36403), (116, 36382), (126, 36295),

Gene: JeppNRM_58 Start: 36822, Stop: 36100, Start Num: 17
Candidate Starts for JeppNRM_58:
(Start: 17 @36822 has 176 MA's), (Start: 50 @36681 has 1 MA's), (60, 36627), (72, 36513), (98, 36363), (116, 36273), (126, 36186),

Gene: Jester_42 Start: 32544, Stop: 31954, Start Num: 17
Candidate Starts for Jester_42:
(Start: 17 @32544 has 176 MA's), (Start: 21 @32526 has 66 MA's), (35, 32496), (36, 32493), (54, 32379), (62, 32295), (64, 32268), (78, 32202), (80, 32193), (97, 32145), (113, 32073), (116, 32052), (122, 32013),

Gene: JewelBug_57 Start: 36001, Stop: 35333, Start Num: 16
Candidate Starts for JewelBug_57:
(Start: 16 @36001 has 95 MA's), (32, 35950), (55, 35815), (60, 35779), (116, 35497), (121, 35470),

Gene: Jiawan_55 Start: 36992, Stop: 36327, Start Num: 16
Candidate Starts for Jiawan_55:
(Start: 16 @36992 has 95 MA's), (34, 36941), (41, 36893), (44, 36869), (51, 36830), (55, 36815), (73, 36662), (80, 36629), (85, 36611), (111, 36518), (116, 36488), (124, 36428),

Gene: Jobu08_56 Start: 36763, Stop: 36041, Start Num: 17
Candidate Starts for Jobu08_56:

(Start: 17 @36763 has 176 MA's), (Start: 50 @36622 has 1 MA's), (60, 36568), (72, 36454), (95, 36337), (98, 36304), (99, 36301), (109, 36250), (113, 36235), (116, 36214), (126, 36127),

Gene: Jordennis_56 Start: 35491, Stop: 34823, Start Num: 16
Candidate Starts for Jordennis_56:
(Start: 16 @35491 has 95 MA's), (32, 35440), (55, 35305), (60, 35269), (116, 34987), (121, 34960),

Gene: Jovo_47 Start: 35800, Stop: 35174, Start Num: 21
Candidate Starts for Jovo_47:
(Start: 18 @35812 has 8 MA's), (Start: 21 @35800 has 66 MA's), (30, 35782), (42, 35707), (Start: 50 @35662 has 1 MA's), (55, 35644), (77, 35470), (80, 35458), (116, 35317), (125, 35254),

Gene: KADY_57 Start: 36959, Stop: 36237, Start Num: 17
Candidate Starts for KADY_57:
(Start: 17 @36959 has 176 MA's), (Start: 50 @36818 has 1 MA's), (60, 36764), (99, 36497), (116, 36410), (126, 36323),

Gene: Kachowdy_54 Start: 36687, Stop: 35986, Start Num: 17
Candidate Starts for Kachowdy_54:
(Start: 17 @36687 has 176 MA's), (38, 36615), (40, 36594), (Start: 50 @36531 has 1 MA's), (60, 36477), (64, 36408), (86, 36279), (89, 36267), (92, 36246), (95, 36237), (98, 36204), (116, 36114), (124, 36054), (128, 35997),

Gene: Kalb97_58 Start: 36820, Stop: 36098, Start Num: 17
Candidate Starts for Kalb97_58:
(Start: 17 @36820 has 176 MA's), (Start: 50 @36679 has 1 MA's), (60, 36625), (72, 36511), (98, 36361), (116, 36271), (126, 36184),

Gene: Kalnoky_58 Start: 36818, Stop: 36096, Start Num: 17
Candidate Starts for Kalnoky_58:
(Start: 17 @36818 has 176 MA's), (Start: 50 @36677 has 1 MA's), (60, 36623), (72, 36509), (98, 36359), (116, 36269), (126, 36182),

Gene: KatherineG_60 Start: 36104, Stop: 35532, Start Num: 21
Candidate Starts for KatherineG_60:
(13, 36155), (Start: 15 @36143 has 1 MA's), (Start: 21 @36104 has 66 MA's), (Start: 28 @36089 has 2 MA's), (54, 35951), (76, 35807), (99, 35705), (113, 35639), (116, 35618), (125, 35555),

Gene: Kazan_57 Start: 35801, Stop: 35133, Start Num: 16
Candidate Starts for Kazan_57:
(Start: 16 @35801 has 95 MA's), (32, 35750), (55, 35615), (60, 35579), (116, 35297), (121, 35270),

Gene: Keziacharles14_55 Start: 38049, Stop: 37360, Start Num: 16
Candidate Starts for Keziacharles14_55:
(Start: 16 @38049 has 95 MA's), (29, 38013), (34, 37998), (44, 37926), (46, 37917), (47, 37911), (55, 37872), (73, 37719), (77, 37698), (80, 37686), (85, 37668), (103, 37608), (107, 37590), (110, 37578), (116, 37545), (130, 37395),

Gene: Kipper29_56 Start: 35814, Stop: 35146, Start Num: 16
Candidate Starts for Kipper29_56:
(Start: 16 @35814 has 95 MA's), (32, 35763), (55, 35628), (60, 35592), (116, 35310), (121, 35283),

Gene: KittenMittens_49 Start: 35481, Stop: 34747, Start Num: 17

Candidate Starts for KittenMittens_49:
(Start: 17 @35481 has 176 MA's), (40, 35385), (Start: 50 @35322 has 1 MA's), (54, 35310), (60, 35268), (82, 35112), (85, 35082), (108, 34953), (109, 34950), (116, 34914),

Gene: Klodlith_54 Start: 36507, Stop: 35806, Start Num: 16
Candidate Starts for Klodlith_54:
(Start: 16 @36507 has 95 MA's), (29, 36462), (34, 36447), (40, 36402), (41, 36399), (44, 36375), (47, 36360), (55, 36321), (64, 36216), (73, 36168), (80, 36135), (103, 36057), (110, 36027), (116, 35994), (121, 35967), (130, 35841),

Gene: Koko_58 Start: 36319, Stop: 35651, Start Num: 16
Candidate Starts for Koko_58:
(Start: 16 @36319 has 95 MA's), (32, 36268), (55, 36133), (60, 36097), (116, 35815), (121, 35788),

Gene: Krishelle_43 Start: 33189, Stop: 32599, Start Num: 17
Candidate Starts for Krishelle_43:
(Start: 17 @33189 has 176 MA's), (Start: 21 @33171 has 66 MA's), (35, 33141), (36, 33138), (54, 33024), (62, 32940), (64, 32913), (78, 32847), (80, 32838), (97, 32790), (113, 32718), (116, 32697), (122, 32658),

Gene: Kristoff_52 Start: 36602, Stop: 35889, Start Num: 17
Candidate Starts for Kristoff_52:
(Start: 17 @36602 has 176 MA's), (38, 36548), (55, 36446), (56, 36437), (64, 36341), (82, 36254), (98, 36146), (108, 36095), (116, 36056),

Gene: LBerry_58 Start: 36935, Stop: 36213, Start Num: 17
Candidate Starts for LBerry_58:
(Start: 17 @36935 has 176 MA's), (Start: 50 @36794 has 1 MA's), (60, 36740), (72, 36626), (95, 36509), (98, 36476), (99, 36473), (109, 36422), (113, 36407), (116, 36386), (126, 36299),

Gene: Lambert1_53 Start: 36706, Stop: 36002, Start Num: 17
Candidate Starts for Lambert1_53:
(Start: 17 @36706 has 176 MA's), (37, 36649), (38, 36646), (65, 36430), (74, 36382), (89, 36307), (90, 36304), (92, 36286), (114, 36166), (116, 36154),

Gene: LarryKay_57 Start: 36961, Stop: 36239, Start Num: 17
Candidate Starts for LarryKay_57:
(Start: 17 @36961 has 176 MA's), (Start: 50 @36820 has 1 MA's), (60, 36766), (99, 36499), (116, 36412), (126, 36325),

Gene: LastResort_58 Start: 35683, Stop: 35111, Start Num: 21
Candidate Starts for LastResort_58:
(13, 35734), (Start: 15 @35722 has 1 MA's), (Start: 21 @35683 has 66 MA's), (Start: 28 @35668 has 2 MA's), (54, 35530), (76, 35386), (99, 35284), (113, 35218), (116, 35197), (125, 35134),

Gene: Lev2_47 Start: 35432, Stop: 34806, Start Num: 21
Candidate Starts for Lev2_47:
(Start: 18 @35444 has 8 MA's), (Start: 21 @35432 has 66 MA's), (30, 35414), (42, 35339), (Start: 50 @35294 has 1 MA's), (55, 35276), (77, 35102), (80, 35090), (116, 34949), (125, 34886),

Gene: Lilbunny_56 Start: 35889, Stop: 35221, Start Num: 16
Candidate Starts for Lilbunny_56:
(Start: 16 @35889 has 95 MA's), (32, 35838), (55, 35703), (60, 35667), (116, 35385), (121, 35358),

Gene: Lilith_58 Start: 36924, Stop: 36202, Start Num: 17
Candidate Starts for Lilith_58:
(Start: 17 @36924 has 176 MA's), (Start: 50 @36783 has 1 MA's), (60, 36729), (72, 36615), (95, 36498), (98, 36465), (99, 36462), (109, 36411), (113, 36396), (116, 36375), (126, 36288),

Gene: Lilleskat_55 Start: 36909, Stop: 36244, Start Num: 16
Candidate Starts for Lilleskat_55:
(Start: 16 @36909 has 95 MA's), (34, 36858), (41, 36810), (44, 36786), (51, 36747), (55, 36732), (73, 36579), (80, 36546), (85, 36528), (111, 36435), (116, 36405), (124, 36345),

Gene: Lillie_43 Start: 32829, Stop: 32239, Start Num: 17
Candidate Starts for Lillie_43:
(Start: 17 @32829 has 176 MA's), (Start: 21 @32811 has 66 MA's), (35, 32781), (36, 32778), (54, 32664), (62, 32580), (64, 32553), (78, 32487), (80, 32478), (97, 32430), (113, 32358), (116, 32337), (122, 32298),

Gene: LittleCherry_47 Start: 35607, Stop: 34984, Start Num: 21
Candidate Starts for LittleCherry_47:
(1, 36225), (2, 36168), (Start: 18 @35619 has 8 MA's), (Start: 21 @35607 has 66 MA's), (42, 35517), (55, 35454), (80, 35268), (116, 35127), (125, 35064),

Gene: LogiBear_57 Start: 35566, Stop: 34991, Start Num: 24
Candidate Starts for LogiBear_57:
(Start: 15 @35608 has 1 MA's), (24, 35566), (54, 35416), (55, 35410), (64, 35305), (76, 35272), (114, 35089), (116, 35077),

Gene: LoneWolf_56 Start: 36941, Stop: 36270, Start Num: 16
Candidate Starts for LoneWolf_56:
(Start: 16 @36941 has 95 MA's), (29, 36896), (34, 36881), (42, 36818), (43, 36815), (44, 36809), (55, 36755), (60, 36719), (65, 36641), (73, 36602), (77, 36581), (80, 36569), (85, 36551), (103, 36491), (111, 36458), (116, 36428), (124, 36368),

Gene: Looper_59 Start: 35595, Stop: 35023, Start Num: 21
Candidate Starts for Looper_59:
(13, 35646), (Start: 15 @35634 has 1 MA's), (Start: 21 @35595 has 66 MA's), (Start: 28 @35580 has 2 MA's), (54, 35442), (76, 35298), (99, 35196), (113, 35130), (116, 35109), (125, 35046),

Gene: Louie6_56 Start: 36960, Stop: 36238, Start Num: 17
Candidate Starts for Louie6_56:
(Start: 17 @36960 has 176 MA's), (Start: 50 @36819 has 1 MA's), (60, 36765), (99, 36498), (116, 36411), (126, 36324),

Gene: Lowa_57 Start: 36923, Stop: 36201, Start Num: 17
Candidate Starts for Lowa_57:
(Start: 17 @36923 has 176 MA's), (Start: 50 @36782 has 1 MA's), (60, 36728), (72, 36614), (95, 36497), (98, 36464), (99, 36461), (109, 36410), (113, 36395), (116, 36374), (126, 36287),

Gene: LugYA_60 Start: 36932, Stop: 36210, Start Num: 17
Candidate Starts for LugYA_60:
(Start: 17 @36932 has 176 MA's), (Start: 50 @36791 has 1 MA's), (60, 36737), (72, 36623), (95, 36506), (98, 36473), (99, 36470), (109, 36419), (113, 36404), (116, 36383), (126, 36296),

Gene: MA5_54 Start: 36100, Stop: 35402, Start Num: 17
Candidate Starts for MA5_54:
(Start: 17 @36100 has 176 MA's), (40, 36007), (Start: 50 @35944 has 1 MA's), (60, 35890), (64, 35821), (86, 35695), (89, 35683), (92, 35662), (95, 35653), (98, 35620), (116, 35530), (124, 35470), (128, 35413),

Gene: MK4_54 Start: 36202, Stop: 35501, Start Num: 17
Candidate Starts for MK4_54:
(Start: 17 @36202 has 176 MA's), (38, 36130), (40, 36109), (Start: 50 @36046 has 1 MA's), (60, 35992), (64, 35923), (89, 35782), (92, 35761), (95, 35752), (98, 35719), (116, 35629), (124, 35569), (128, 35512),

Gene: MadMarie_57 Start: 36933, Stop: 36211, Start Num: 17
Candidate Starts for MadMarie_57:
(Start: 17 @36933 has 176 MA's), (Start: 50 @36792 has 1 MA's), (60, 36738), (72, 36624), (95, 36507), (98, 36474), (99, 36471), (109, 36420), (113, 36405), (116, 36384), (126, 36297),

Gene: Mainiac_57 Start: 36925, Stop: 36203, Start Num: 17
Candidate Starts for Mainiac_57:
(Start: 17 @36925 has 176 MA's), (Start: 50 @36784 has 1 MA's), (60, 36730), (72, 36616), (95, 36499), (98, 36466), (99, 36463), (109, 36412), (113, 36397), (116, 36376), (126, 36289),

Gene: Malinsilva_59 Start: 36923, Stop: 36201, Start Num: 17
Candidate Starts for Malinsilva_59:
(Start: 17 @36923 has 176 MA's), (Start: 50 @36782 has 1 MA's), (60, 36728), (72, 36614), (95, 36497), (98, 36464), (99, 36461), (109, 36410), (113, 36395), (116, 36374), (126, 36287),

Gene: Maminiaina_54 Start: 36702, Stop: 36037, Start Num: 16
Candidate Starts for Maminiaina_54:
(Start: 16 @36702 has 95 MA's), (34, 36651), (38, 36627), (44, 36579), (47, 36564), (53, 36534), (55, 36525), (64, 36420), (65, 36411), (73, 36372), (80, 36339), (83, 36330), (85, 36321), (111, 36228), (116, 36198),

Gene: Manu_57 Start: 36821, Stop: 36099, Start Num: 17
Candidate Starts for Manu_57:
(Start: 17 @36821 has 176 MA's), (Start: 50 @36680 has 1 MA's), (60, 36626), (72, 36512), (98, 36362), (116, 36272), (126, 36185),

Gene: MarQuardt_57 Start: 36933, Stop: 36211, Start Num: 17
Candidate Starts for MarQuardt_57:
(Start: 17 @36933 has 176 MA's), (Start: 50 @36792 has 1 MA's), (60, 36738), (72, 36624), (95, 36507), (98, 36474), (99, 36471), (109, 36420), (113, 36405), (116, 36384), (126, 36297),

Gene: Marchesa_54 Start: 36637, Stop: 35936, Start Num: 17
Candidate Starts for Marchesa_54:
(Start: 17 @36637 has 176 MA's), (38, 36565), (40, 36544), (Start: 50 @36481 has 1 MA's), (60, 36427), (64, 36358), (86, 36229), (89, 36217), (92, 36196), (95, 36187), (98, 36154), (116, 36064), (124, 36004), (128, 35947),

Gene: Margo_53 Start: 36732, Stop: 36028, Start Num: 17
Candidate Starts for Margo_53:
(Start: 17 @36732 has 176 MA's), (37, 36675), (38, 36672), (65, 36456), (74, 36408), (89, 36333), (90, 36330), (92, 36312), (114, 36192), (116, 36180),

Gene: Marie_57 Start: 36931, Stop: 36209, Start Num: 17
Candidate Starts for Marie_57:
(Start: 17 @36931 has 176 MA's), (Start: 50 @36790 has 1 MA's), (60, 36736), (72, 36622), (95, 36505), (98, 36472), (99, 36469), (109, 36418), (113, 36403), (116, 36382), (126, 36295),

Gene: Marius_58 Start: 36818, Stop: 36096, Start Num: 17
Candidate Starts for Marius_58:
(Start: 17 @36818 has 176 MA's), (Start: 50 @36677 has 1 MA's), (60, 36623), (72, 36509), (98, 36359), (116, 36269), (126, 36182),

Gene: MarysWell_47 Start: 35943, Stop: 35305, Start Num: 18
Candidate Starts for MarysWell_47:
(2, 36492), (3, 36282), (Start: 18 @35943 has 8 MA's), (Start: 21 @35931 has 66 MA's), (42, 35838), (55, 35775), (77, 35601), (80, 35589), (116, 35448), (125, 35385),

Gene: McFly_56 Start: 35795, Stop: 35127, Start Num: 16
Candidate Starts for McFly_56:
(Start: 16 @35795 has 95 MA's), (32, 35744), (55, 35609), (60, 35573), (116, 35291), (121, 35264),

Gene: MegTheThird_54 Start: 36553, Stop: 35882, Start Num: 16
Candidate Starts for MegTheThird_54:
(Start: 16 @36553 has 95 MA's), (29, 36508), (34, 36493), (41, 36445), (42, 36430), (44, 36421), (47, 36406), (53, 36376), (55, 36367), (59, 36337), (60, 36331), (65, 36253), (71, 36226), (80, 36181), (85, 36163), (111, 36070), (116, 36040),

Gene: Methuselah_53 Start: 36955, Stop: 36233, Start Num: 17
Candidate Starts for Methuselah_53:
(Start: 17 @36955 has 176 MA's), (Start: 50 @36814 has 1 MA's), (60, 36760), (99, 36493), (116, 36406), (126, 36319),

Gene: Micasa_48 Start: 35775, Stop: 35152, Start Num: 21
Candidate Starts for Micasa_48:
(1, 36393), (2, 36336), (Start: 18 @35787 has 8 MA's), (Start: 21 @35775 has 66 MA's), (42, 35685), (55, 35622), (64, 35517), (65, 35508), (67, 35499), (77, 35448), (80, 35436), (83, 35427), (103, 35358), (116, 35295), (125, 35232),

Gene: Microwolf_57 Start: 36947, Stop: 36225, Start Num: 17
Candidate Starts for Microwolf_57:
(Start: 17 @36947 has 176 MA's), (Start: 50 @36806 has 1 MA's), (60, 36752), (72, 36638), (95, 36521), (98, 36488), (99, 36485), (109, 36434), (113, 36419), (116, 36398), (126, 36311),

Gene: Midas2_46 Start: 35677, Stop: 35054, Start Num: 21
Candidate Starts for Midas2_46:
(1, 36295), (2, 36238), (Start: 18 @35689 has 8 MA's), (Start: 21 @35677 has 66 MA's), (42, 35587), (55, 35524), (64, 35419), (65, 35410), (67, 35401), (77, 35350), (80, 35338), (83, 35329), (103, 35260), (116, 35197), (125, 35134),

Gene: Milcery_47 Start: 35564, Stop: 34941, Start Num: 21
Candidate Starts for Milcery_47:
(3, 35915), (Start: 18 @35576 has 8 MA's), (Start: 21 @35564 has 66 MA's), (42, 35474), (55, 35411), (64, 35306), (65, 35297), (77, 35237), (80, 35225), (83, 35216), (103, 35147), (116, 35084), (125, 35021),

Gene: MinecraftSteve_60 Start: 35904, Stop: 35332, Start Num: 21
Candidate Starts for MinecraftSteve_60:
(13, 35955), (Start: 15 @35943 has 1 MA's), (Start: 21 @35904 has 66 MA's), (Start: 28 @35889 has 2 MA's), (54, 35751), (76, 35607), (99, 35505), (113, 35439), (116, 35418), (125, 35355),

Gene: Minispark_54 Start: 36485, Stop: 35793, Start Num: 16
Candidate Starts for Minispark_54:
(Start: 16 @36485 has 95 MA's), (29, 36440), (34, 36425), (41, 36377), (44, 36353), (47, 36338), (51, 36314), (55, 36299), (64, 36194), (65, 36185), (73, 36146), (80, 36113), (83, 36104), (85, 36095), (111, 36002), (116, 35972), (127, 35876),

Gene: Misomonster_58 Start: 36958, Stop: 36236, Start Num: 17
Candidate Starts for Misomonster_58:
(Start: 17 @36958 has 176 MA's), (Start: 50 @36817 has 1 MA's), (60, 36763), (99, 36496), (116, 36409), (126, 36322),

Gene: MoneyMay_57 Start: 36931, Stop: 36209, Start Num: 17
Candidate Starts for MoneyMay_57:
(Start: 17 @36931 has 176 MA's), (Start: 50 @36790 has 1 MA's), (60, 36736), (72, 36622), (95, 36505), (98, 36472), (99, 36469), (109, 36418), (113, 36403), (116, 36382), (126, 36295),

Gene: Montavir_56 Start: 36932, Stop: 36210, Start Num: 17
Candidate Starts for Montavir_56:
(Start: 17 @36932 has 176 MA's), (Start: 50 @36791 has 1 MA's), (60, 36737), (72, 36623), (95, 36506), (98, 36473), (99, 36470), (109, 36419), (113, 36404), (116, 36383), (126, 36296),

Gene: MuchMore_60 Start: 36923, Stop: 36201, Start Num: 17
Candidate Starts for MuchMore_60:
(Start: 17 @36923 has 176 MA's), (Start: 50 @36782 has 1 MA's), (60, 36728), (72, 36614), (95, 36497), (98, 36464), (99, 36461), (109, 36410), (113, 36395), (116, 36374), (126, 36287),

Gene: MyraDee_48 Start: 33093, Stop: 32479, Start Num: 27
Candidate Starts for MyraDee_48:
(Start: 27 @33093 has 1 MA's), (Start: 28 @33087 has 2 MA's), (34, 33069), (42, 33006), (46, 32988), (55, 32943), (61, 32895), (71, 32802), (79, 32760), (116, 32616), (117, 32607), (124, 32556),

Gene: Myxus_55 Start: 36907, Stop: 36242, Start Num: 16
Candidate Starts for Myxus_55:
(Start: 16 @36907 has 95 MA's), (34, 36856), (41, 36808), (44, 36784), (51, 36745), (55, 36730), (73, 36577), (80, 36544), (85, 36526), (111, 36433), (116, 36403), (124, 36343),

Gene: Naca_48 Start: 36054, Stop: 35431, Start Num: 21
Candidate Starts for Naca_48:
(3, 36405), (Start: 18 @36066 has 8 MA's), (Start: 21 @36054 has 66 MA's), (42, 35964), (55, 35901), (64, 35796), (65, 35787), (77, 35727), (80, 35715), (83, 35706), (103, 35637), (113, 35595), (116, 35574), (125, 35511),

Gene: Naiad_42 Start: 32842, Stop: 32252, Start Num: 17
Candidate Starts for Naiad_42:
(Start: 17 @32842 has 176 MA's), (Start: 21 @32824 has 66 MA's), (35, 32794), (36, 32791), (54, 32677), (62, 32593), (64, 32566), (78, 32500), (80, 32491), (97, 32443), (113, 32371), (116, 32350), (122, 32311),

Gene: Nancinator_43 Start: 32762, Stop: 32172, Start Num: 17
Candidate Starts for Nancinator_43:
(Start: 17 @32762 has 176 MA's), (Start: 21 @32744 has 66 MA's), (35, 32714), (36, 32711), (54, 32597), (62, 32513), (64, 32486), (78, 32420), (80, 32411), (97, 32363), (113, 32291), (116, 32270), (122, 32231),

Gene: Natosaleda_42 Start: 32761, Stop: 32171, Start Num: 17
Candidate Starts for Natosaleda_42:
(Start: 17 @32761 has 176 MA's), (Start: 21 @32743 has 66 MA's), (35, 32713), (36, 32710), (54, 32596), (62, 32512), (64, 32485), (78, 32419), (80, 32410), (97, 32362), (113, 32290), (116, 32269), (122, 32230),

Gene: NearlyHeadless_52 Start: 34993, Stop: 34370, Start Num: 21
Candidate Starts for NearlyHeadless_52:
(Start: 21 @34993 has 66 MA's), (40, 34921), (53, 34849), (60, 34804), (73, 34687), (79, 34657), (101, 34588), (103, 34576), (116, 34513), (117, 34504),

Gene: Nebulosus_58 Start: 35679, Stop: 35107, Start Num: 21
Candidate Starts for Nebulosus_58:
(13, 35730), (Start: 15 @35718 has 1 MA's), (Start: 21 @35679 has 66 MA's), (Start: 28 @35664 has 2 MA's), (54, 35526), (76, 35382), (99, 35280), (113, 35214), (116, 35193), (125, 35130),

Gene: Neeharika16_55 Start: 35255, Stop: 34587, Start Num: 16
Candidate Starts for Neeharika16_55:
(Start: 16 @35255 has 95 MA's), (32, 35204), (55, 35069), (60, 35033), (116, 34751), (121, 34724),

Gene: Newrala_56 Start: 35797, Stop: 35129, Start Num: 16
Candidate Starts for Newrala_56:
(Start: 16 @35797 has 95 MA's), (32, 35746), (55, 35611), (60, 35575), (116, 35293), (121, 35266),

Gene: Noella_53 Start: 36707, Stop: 36003, Start Num: 17
Candidate Starts for Noella_53:
(Start: 17 @36707 has 176 MA's), (37, 36650), (38, 36647), (65, 36431), (74, 36383), (89, 36308), (90, 36305), (92, 36287), (114, 36167), (116, 36155),

Gene: Norbert_52 Start: 36706, Stop: 36002, Start Num: 17
Candidate Starts for Norbert_52:
(Start: 17 @36706 has 176 MA's), (37, 36649), (38, 36646), (65, 36430), (74, 36382), (89, 36307), (90, 36304), (92, 36286), (114, 36166), (116, 36154),

Gene: OKCentral2016_51 Start: 35957, Stop: 35244, Start Num: 17
Candidate Starts for OKCentral2016_51:
(Start: 17 @35957 has 176 MA's), (38, 35903), (40, 35882), (42, 35864), (55, 35801), (56, 35792), (64, 35696), (82, 35609), (98, 35501), (108, 35450), (116, 35411),

Gene: OlanP_56 Start: 36994, Stop: 36272, Start Num: 17
Candidate Starts for OlanP_56:
(Start: 17 @36994 has 176 MA's), (47, 36874), (Start: 50 @36853 has 1 MA's), (60, 36799), (98, 36535), (116, 36445), (126, 36358),

Gene: Ollie_57 Start: 36802, Stop: 36080, Start Num: 17
Candidate Starts for Ollie_57:

(Start: 17 @36802 has 176 MA's), (Start: 50 @36661 has 1 MA's), (60, 36607), (72, 36493), (95, 36376), (98, 36343), (99, 36340), (109, 36289), (113, 36274), (116, 36253), (126, 36166),

Gene: Onglai_54 Start: 35248, Stop: 34583, Start Num: 16
Candidate Starts for Onglai_54:
(Start: 16 @35248 has 95 MA's), (34, 35197), (41, 35149), (44, 35125), (51, 35086), (55, 35071), (73, 34918), (80, 34885), (85, 34867), (111, 34774), (116, 34744), (124, 34684),

Gene: Oofda_60 Start: 35882, Stop: 35325, Start Num: 28
Candidate Starts for Oofda_60:
(13, 35948), (Start: 15 @35936 has 1 MA's), (Start: 21 @35897 has 66 MA's), (Start: 28 @35882 has 2 MA's), (54, 35744), (76, 35600), (99, 35498), (113, 35432), (116, 35411), (125, 35348),

Gene: P28Green_58 Start: 36934, Stop: 36212, Start Num: 17
Candidate Starts for P28Green_58:
(Start: 17 @36934 has 176 MA's), (Start: 50 @36793 has 1 MA's), (60, 36739), (72, 36625), (95, 36508), (98, 36475), (99, 36472), (109, 36421), (113, 36406), (116, 36385), (126, 36298),

Gene: PGHhamlin_59 Start: 36923, Stop: 36201, Start Num: 17
Candidate Starts for PGHhamlin_59:
(Start: 17 @36923 has 176 MA's), (Start: 50 @36782 has 1 MA's), (60, 36728), (72, 36614), (95, 36497), (98, 36464), (99, 36461), (109, 36410), (113, 36395), (116, 36374), (126, 36287),

Gene: PackMan_54 Start: 36907, Stop: 36242, Start Num: 16
Candidate Starts for PackMan_54:
(Start: 16 @36907 has 95 MA's), (34, 36856), (41, 36808), (44, 36784), (51, 36745), (55, 36730), (73, 36577), (80, 36544), (85, 36526), (111, 36433), (116, 36403), (124, 36343),

Gene: Panamaxus_51 Start: 36706, Stop: 36002, Start Num: 17
Candidate Starts for Panamaxus_51:
(Start: 17 @36706 has 176 MA's), (37, 36649), (38, 36646), (65, 36430), (74, 36382), (89, 36307), (90, 36304), (92, 36286), (114, 36166), (116, 36154),

Gene: Pawn_57 Start: 36825, Stop: 36103, Start Num: 17
Candidate Starts for Pawn_57:
(Start: 17 @36825 has 176 MA's), (Start: 50 @36684 has 1 MA's), (60, 36630), (72, 36516), (98, 36366), (99, 36363), (116, 36276), (126, 36189),

Gene: PeaceMeal1_50 Start: 35482, Stop: 34748, Start Num: 17
Candidate Starts for PeaceMeal1_50:
(Start: 17 @35482 has 176 MA's), (40, 35386), (Start: 50 @35323 has 1 MA's), (54, 35311), (60, 35269), (82, 35113), (85, 35083), (108, 34954), (109, 34951), (116, 34915),

Gene: Pembroke_57 Start: 36932, Stop: 36210, Start Num: 17
Candidate Starts for Pembroke_57:
(Start: 17 @36932 has 176 MA's), (Start: 50 @36791 has 1 MA's), (60, 36737), (72, 36623), (95, 36506), (98, 36473), (99, 36470), (109, 36419), (113, 36404), (116, 36383), (126, 36296),

Gene: Penny1_58 Start: 36935, Stop: 36213, Start Num: 17
Candidate Starts for Penny1_58:
(Start: 17 @36935 has 176 MA's), (Start: 50 @36794 has 1 MA's), (60, 36740), (72, 36626), (95, 36509), (98, 36476), (99, 36473), (109, 36422), (113, 36407), (116, 36386), (126, 36299),

Gene: PetterN_52 Start: 35672, Stop: 35019, Start Num: 21
Candidate Starts for PetterN_52:
(3, 36023), (Start: 18 @35684 has 8 MA's), (Start: 21 @35672 has 66 MA's), (42, 35582), (55, 35519), (77, 35345), (80, 35333), (98, 35252), (102, 35228), (113, 35183), (116, 35162), (125, 35099),

Gene: Phaeder_55 Start: 36907, Stop: 36242, Start Num: 16
Candidate Starts for Phaeder_55:
(Start: 16 @36907 has 95 MA's), (34, 36856), (41, 36808), (44, 36784), (51, 36745), (55, 36730), (73, 36577), (80, 36544), (85, 36526), (111, 36433), (116, 36403), (124, 36343),

Gene: PhailMary_42 Start: 33151, Stop: 32561, Start Num: 17
Candidate Starts for PhailMary_42:
(Start: 17 @33151 has 176 MA's), (Start: 21 @33133 has 66 MA's), (35, 33103), (36, 33100), (54, 32986), (62, 32902), (64, 32875), (78, 32809), (80, 32800), (97, 32752), (113, 32680), (116, 32659), (122, 32620),

Gene: Phantastic_55 Start: 36379, Stop: 35702, Start Num: 17
Candidate Starts for Phantastic_55:
(Start: 17 @36379 has 176 MA's), (30, 36358), (38, 36328), (40, 36307), (46, 36271), (53, 36235), (55, 36226), (64, 36121), (92, 35962), (95, 35953), (98, 35920), (99, 35917), (116, 35830), (128, 35713),

Gene: Phillis_52 Start: 35195, Stop: 34572, Start Num: 21
Candidate Starts for Phillis_52:
(Start: 21 @35195 has 66 MA's), (53, 35051), (54, 35048), (60, 35006), (73, 34889), (79, 34859), (116, 34715), (117, 34706),

Gene: PhishRPhriends_55 Start: 36002, Stop: 35280, Start Num: 17
Candidate Starts for PhishRPhriends_55:
(Start: 17 @36002 has 176 MA's), (Start: 50 @35861 has 1 MA's), (60, 35807), (72, 35693), (98, 35543), (116, 35453), (126, 35366),

Gene: Phlei_44 Start: 36400, Stop: 35708, Start Num: 16
Candidate Starts for Phlei_44:
(Start: 16 @36400 has 95 MA's), (42, 36286), (43, 36283), (55, 36223), (60, 36187), (64, 36118), (80, 36037), (109, 35932), (110, 35929), (116, 35896), (130, 35743),

Gene: Phlorence_45 Start: 35177, Stop: 34551, Start Num: 21
Candidate Starts for Phlorence_45:
(Start: 18 @35189 has 8 MA's), (Start: 21 @35177 has 66 MA's), (30, 35159), (42, 35084), (Start: 50 @35039 has 1 MA's), (55, 35021), (77, 34847), (80, 34835), (116, 34694), (125, 34631),

Gene: Phoebe_58 Start: 36924, Stop: 36202, Start Num: 17
Candidate Starts for Phoebe_58:
(Start: 17 @36924 has 176 MA's), (Start: 50 @36783 has 1 MA's), (60, 36729), (72, 36615), (95, 36498), (98, 36465), (99, 36462), (109, 36411), (113, 36396), (116, 36375), (126, 36288),

Gene: Phonnegut_55 Start: 37004, Stop: 36339, Start Num: 16
Candidate Starts for Phonnegut_55:
(Start: 16 @37004 has 95 MA's), (34, 36953), (41, 36905), (44, 36881), (51, 36842), (55, 36827), (73, 36674), (80, 36641), (85, 36623), (111, 36530), (116, 36500), (124, 36440),

Gene: Phoxy_57 Start: 36956, Stop: 36234, Start Num: 17
Candidate Starts for Phoxy_57:

(Start: 17 @36956 has 176 MA's), (Start: 50 @36815 has 1 MA's), (60, 36761), (99, 36494), (116, 36407), (126, 36320),

Gene: Phrankenstein_43 Start: 32775, Stop: 32185, Start Num: 17
Candidate Starts for Phrankenstein_43:
(Start: 17 @32775 has 176 MA's), (Start: 21 @32757 has 66 MA's), (35, 32727), (36, 32724), (54, 32610), (62, 32526), (64, 32499), (78, 32433), (80, 32424), (97, 32376), (113, 32304), (116, 32283), (122, 32244),

Gene: Phranny_58 Start: 36807, Stop: 36085, Start Num: 17
Candidate Starts for Phranny_58:
(Start: 17 @36807 has 176 MA's), (Start: 50 @36666 has 1 MA's), (60, 36612), (72, 36498), (98, 36348), (116, 36258), (126, 36171),

Gene: PickleBack_47 Start: 35424, Stop: 34798, Start Num: 21
Candidate Starts for PickleBack_47:
(Start: 18 @35436 has 8 MA's), (Start: 21 @35424 has 66 MA's), (30, 35406), (42, 35331), (Start: 50 @35286 has 1 MA's), (55, 35268), (77, 35094), (80, 35082), (116, 34941), (125, 34878),

Gene: Pioneer_55 Start: 37004, Stop: 36339, Start Num: 16
Candidate Starts for Pioneer_55:
(Start: 16 @37004 has 95 MA's), (34, 36953), (41, 36905), (44, 36881), (51, 36842), (55, 36827), (73, 36674), (80, 36641), (85, 36623), (111, 36530), (116, 36500), (124, 36440),

Gene: Pistachio_56 Start: 36297, Stop: 35620, Start Num: 17
Candidate Starts for Pistachio_56:
(Start: 17 @36297 has 176 MA's), (30, 36276), (34, 36270), (46, 36189), (48, 36180), (53, 36153), (55, 36144), (59, 36114), (64, 36039), (89, 35901), (92, 35880), (95, 35871), (98, 35838), (99, 35835), (116, 35748), (124, 35688), (128, 35631),

Gene: Pmask_56 Start: 35798, Stop: 35130, Start Num: 16
Candidate Starts for Pmask_56:
(Start: 16 @35798 has 95 MA's), (32, 35747), (55, 35612), (60, 35576), (116, 35294), (121, 35267),

Gene: Pocahontas_53 Start: 36703, Stop: 35999, Start Num: 17
Candidate Starts for Pocahontas_53:
(Start: 17 @36703 has 176 MA's), (37, 36646), (38, 36643), (65, 36427), (74, 36379), (89, 36304), (90, 36301), (92, 36283), (114, 36163), (116, 36151),

Gene: Polyphemus_58 Start: 36180, Stop: 35512, Start Num: 16
Candidate Starts for Polyphemus_58:
(Start: 16 @36180 has 95 MA's), (32, 36129), (55, 35994), (60, 35958), (116, 35676), (121, 35649),

Gene: Ponzi_23 Start: 14603, Stop: 14052, Start Num: 20
Candidate Starts for Ponzi_23:
(Start: 20 @14603 has 6 MA's), (41, 14525), (42, 14510), (45, 14495), (49, 14468), (63, 14369), (68, 14324), (99, 14168), (116, 14081),

Gene: Poompha_51 Start: 35480, Stop: 34746, Start Num: 17
Candidate Starts for Poompha_51:
(Start: 17 @35480 has 176 MA's), (40, 35384), (Start: 50 @35321 has 1 MA's), (54, 35309), (60, 35267), (82, 35111), (85, 35081), (108, 34952), (109, 34949), (116, 34913),

Gene: Popcicle_53 Start: 36703, Stop: 35999, Start Num: 17
Candidate Starts for Popcicle_53:
(Start: 17 @36703 has 176 MA's), (37, 36646), (38, 36643), (65, 36427), (74, 36379), (89, 36304), (90, 36301), (92, 36283), (114, 36163), (116, 36151),

Gene: PotatoSplit_59 Start: 36935, Stop: 36213, Start Num: 17
Candidate Starts for PotatoSplit_59:
(Start: 17 @36935 has 176 MA's), (Start: 50 @36794 has 1 MA's), (60, 36740), (72, 36626), (95, 36509), (98, 36476), (99, 36473), (109, 36422), (113, 36407), (116, 36386), (126, 36299),

Gene: Priamo_58 Start: 35557, Stop: 34889, Start Num: 16
Candidate Starts for Priamo_58:
(Start: 16 @35557 has 95 MA's), (32, 35506), (55, 35371), (60, 35335), (116, 35053), (121, 35026),

Gene: Prinashe11_46 Start: 35466, Stop: 34843, Start Num: 21
Candidate Starts for Prinashe11_46:
(Start: 18 @35478 has 8 MA's), (Start: 21 @35466 has 66 MA's), (42, 35376), (55, 35313), (64, 35208), (65, 35199), (77, 35139), (80, 35127), (83, 35118), (116, 34986), (125, 34923),

Gene: Priya_55 Start: 36974, Stop: 36309, Start Num: 16
Candidate Starts for Priya_55:
(Start: 16 @36974 has 95 MA's), (34, 36923), (41, 36875), (44, 36851), (51, 36812), (55, 36797), (73, 36644), (80, 36611), (85, 36593), (111, 36500), (116, 36470), (124, 36410),

Gene: Puppy_56 Start: 36369, Stop: 35692, Start Num: 17
Candidate Starts for Puppy_56:
(Start: 17 @36369 has 176 MA's), (30, 36348), (34, 36342), (46, 36261), (48, 36252), (53, 36225), (55, 36216), (59, 36186), (64, 36111), (89, 35973), (92, 35952), (95, 35943), (98, 35910), (99, 35907), (116, 35820), (124, 35760), (128, 35703),

Gene: PurpleHaze_57 Start: 36820, Stop: 36098, Start Num: 17
Candidate Starts for PurpleHaze_57:
(Start: 17 @36820 has 176 MA's), (Start: 50 @36679 has 1 MA's), (60, 36625), (72, 36511), (98, 36361), (116, 36271), (126, 36184),

Gene: Qobbit_55 Start: 36936, Stop: 36271, Start Num: 16
Candidate Starts for Qobbit_55:
(Start: 16 @36936 has 95 MA's), (34, 36885), (41, 36837), (44, 36813), (51, 36774), (55, 36759), (73, 36606), (80, 36573), (85, 36555), (111, 36462), (116, 36432), (124, 36372),

Gene: QuinnKiro_52 Start: 36706, Stop: 36002, Start Num: 17
Candidate Starts for QuinnKiro_52:
(Start: 17 @36706 has 176 MA's), (37, 36649), (38, 36646), (65, 36430), (74, 36382), (89, 36307), (90, 36304), (92, 36286), (114, 36166), (116, 36154),

Gene: RER2_36 Start: 29701, Stop: 29111, Start Num: 17
Candidate Starts for RER2_36:
(Start: 17 @29701 has 176 MA's), (Start: 21 @29683 has 66 MA's), (35, 29653), (36, 29650), (54, 29536), (62, 29452), (64, 29425), (78, 29359), (80, 29350), (97, 29302), (113, 29230), (116, 29209), (122, 29170),

Gene: RGL3_37 Start: 30321, Stop: 29776, Start Num: 25
Candidate Starts for RGL3_37:

(Start: 17 @30345 has 176 MA's), (25, 30321), (35, 30297), (36, 30294), (52, 30186), (54, 30180), (62, 30096), (64, 30069), (78, 30003), (80, 29994),

Gene: Rahalelujah_55 Start: 36500, Stop: 35808, Start Num: 16
Candidate Starts for Rahalelujah_55:
(Start: 16 @36500 has 95 MA's), (29, 36455), (34, 36440), (41, 36392), (44, 36368), (47, 36353), (51, 36329), (55, 36314), (64, 36209), (65, 36200), (73, 36161), (80, 36128), (83, 36119), (85, 36110), (111, 36017), (116, 35987), (127, 35891),

Gene: Rasputin_43 Start: 32799, Stop: 32209, Start Num: 17
Candidate Starts for Rasputin_43:
(Start: 17 @32799 has 176 MA's), (Start: 21 @32781 has 66 MA's), (35, 32751), (36, 32748), (54, 32634), (62, 32550), (64, 32523), (78, 32457), (80, 32448), (97, 32400), (113, 32328), (116, 32307), (122, 32268),

Gene: Ravana_62 Start: 36589, Stop: 36017, Start Num: 21
Candidate Starts for Ravana_62:
(13, 36640), (Start: 15 @36628 has 1 MA's), (Start: 21 @36589 has 66 MA's), (Start: 28 @36574 has 2 MA's), (54, 36436), (76, 36292), (99, 36190), (113, 36124), (116, 36103), (125, 36040),

Gene: ReMo_58 Start: 35680, Stop: 35108, Start Num: 21
Candidate Starts for ReMo_58:
(13, 35731), (Start: 15 @35719 has 1 MA's), (Start: 21 @35680 has 66 MA's), (Start: 28 @35665 has 2 MA's), (54, 35527), (76, 35383), (99, 35281), (113, 35215), (116, 35194), (125, 35131),

Gene: Reba_57 Start: 36480, Stop: 35758, Start Num: 17
Candidate Starts for Reba_57:
(Start: 17 @36480 has 176 MA's), (Start: 50 @36339 has 1 MA's), (60, 36285), (72, 36171), (98, 36021), (116, 35931), (126, 35844),

Gene: Rebeuca_52 Start: 36603, Stop: 35890, Start Num: 17
Candidate Starts for Rebeuca_52:
(Start: 17 @36603 has 176 MA's), (38, 36549), (55, 36447), (56, 36438), (64, 36342), (82, 36255), (98, 36147), (108, 36096), (116, 36057),

Gene: Remus_60 Start: 35686, Stop: 35114, Start Num: 21
Candidate Starts for Remus_60:
(13, 35737), (Start: 15 @35725 has 1 MA's), (Start: 21 @35686 has 66 MA's), (Start: 28 @35671 has 2 MA's), (54, 35533), (76, 35389), (99, 35287), (113, 35221), (116, 35200), (125, 35137),

Gene: ResDef_53 Start: 36706, Stop: 36002, Start Num: 17
Candidate Starts for ResDef_53:
(Start: 17 @36706 has 176 MA's), (37, 36649), (38, 36646), (65, 36430), (74, 36382), (89, 36307), (90, 36304), (92, 36286), (114, 36166), (116, 36154),

Gene: RexFury_42 Start: 32860, Stop: 32270, Start Num: 17
Candidate Starts for RexFury_42:
(Start: 17 @32860 has 176 MA's), (Start: 21 @32842 has 66 MA's), (35, 32812), (36, 32809), (54, 32695), (62, 32611), (64, 32584), (78, 32518), (80, 32509), (97, 32461), (113, 32389), (116, 32368), (122, 32329),

Gene: Rhodalysa_43 Start: 32829, Stop: 32239, Start Num: 17
Candidate Starts for Rhodalysa_43:

(Start: 17 @32829 has 176 MA's), (Start: 21 @32811 has 66 MA's), (35, 32781), (36, 32778), (54, 32664), (62, 32580), (64, 32553), (78, 32487), (80, 32478), (97, 32430), (113, 32358), (116, 32337), (122, 32298),

Gene: RhynO_53 Start: 36402, Stop: 35692, Start Num: 17
Candidate Starts for RhynO_53:
(Start: 17 @36402 has 176 MA's), (38, 36351), (42, 36312), (46, 36294), (55, 36249), (56, 36240), (59, 36219), (60, 36213), (82, 36057), (96, 35955), (116, 35859),

Gene: Rifter_57 Start: 35391, Stop: 34699, Start Num: 16
Candidate Starts for Rifter_57:
(Start: 16 @35391 has 95 MA's), (32, 35340), (55, 35205), (60, 35169), (71, 35064), (114, 34899), (115, 34896), (116, 34887), (121, 34860), (130, 34734),

Gene: Roary_53 Start: 35212, Stop: 34589, Start Num: 21
Candidate Starts for Roary_53:
(Start: 21 @35212 has 66 MA's), (40, 35140), (53, 35068), (60, 35023), (73, 34906), (79, 34876), (101, 34807), (116, 34732), (117, 34723),

Gene: Rockstar_54 Start: 36211, Stop: 35510, Start Num: 17
Candidate Starts for Rockstar_54:
(Start: 17 @36211 has 176 MA's), (38, 36139), (40, 36118), (Start: 50 @36055 has 1 MA's), (60, 36001), (64, 35932), (89, 35791), (92, 35770), (95, 35761), (98, 35728), (110, 35671), (116, 35638), (124, 35578), (128, 35521),

Gene: Roimos_54 Start: 36567, Stop: 35866, Start Num: 17
Candidate Starts for Roimos_54:
(Start: 17 @36567 has 176 MA's), (38, 36495), (40, 36474), (Start: 50 @36411 has 1 MA's), (60, 36357), (64, 36288), (86, 36159), (89, 36147), (92, 36126), (95, 36117), (98, 36084), (116, 35994), (124, 35934), (128, 35877),

Gene: Roksolana_58 Start: 36225, Stop: 35557, Start Num: 16
Candidate Starts for Roksolana_58:
(Start: 16 @36225 has 95 MA's), (32, 36174), (55, 36039), (60, 36003), (116, 35721), (121, 35694),

Gene: Rosalind_58 Start: 35823, Stop: 35251, Start Num: 21
Candidate Starts for Rosalind_58:
(13, 35874), (Start: 15 @35862 has 1 MA's), (Start: 21 @35823 has 66 MA's), (Start: 28 @35808 has 2 MA's), (54, 35670), (76, 35526), (99, 35424), (113, 35358), (116, 35337), (125, 35274),

Gene: Rowdy_56 Start: 36313, Stop: 35600, Start Num: 17
Candidate Starts for Rowdy_56:
(Start: 17 @36313 has 176 MA's), (38, 36259), (46, 36202), (55, 36157), (56, 36148), (82, 35965), (106, 35818), (116, 35767), (124, 35707),

Gene: Rummer_56 Start: 36959, Stop: 36237, Start Num: 17
Candidate Starts for Rummer_56:
(Start: 17 @36959 has 176 MA's), (Start: 50 @36818 has 1 MA's), (60, 36764), (72, 36650), (95, 36533), (99, 36497), (116, 36410), (126, 36323),

Gene: RunningOnE_28 Start: 14956, Stop: 14402, Start Num: 20
Candidate Starts for RunningOnE_28:

(7, 15115), (8, 15112), (9, 15106), (10, 15073), (11, 15070), (12, 15034), (14, 14992), (Start: 16 @14977 has 95 MA's), (Start: 20 @14956 has 6 MA's), (42, 14860), (45, 14845), (63, 14719), (91, 14572), (100, 14512), (113, 14452), (116, 14431),

Gene: RyeScarlet_55 Start: 36979, Stop: 36314, Start Num: 16
Candidate Starts for RyeScarlet_55:
(Start: 16 @36979 has 95 MA's), (34, 36928), (41, 36880), (44, 36856), (51, 36817), (55, 36802), (73, 36649), (80, 36616), (85, 36598), (111, 36505), (116, 36475), (124, 36415),

Gene: Sabia_57 Start: 36940, Stop: 36218, Start Num: 17
Candidate Starts for Sabia_57:
(Start: 17 @36940 has 176 MA's), (Start: 50 @36799 has 1 MA's), (60, 36745), (72, 36631), (95, 36514), (98, 36481), (99, 36478), (109, 36427), (113, 36412), (116, 36391), (126, 36304),

Gene: Sabinator_56 Start: 36930, Stop: 36208, Start Num: 17
Candidate Starts for Sabinator_56:
(Start: 17 @36930 has 176 MA's), (Start: 50 @36789 has 1 MA's), (60, 36735), (72, 36621), (95, 36504), (98, 36471), (99, 36468), (109, 36417), (113, 36402), (116, 36381), (126, 36294),

Gene: Sachima_55 Start: 36889, Stop: 36224, Start Num: 16
Candidate Starts for Sachima_55:
(Start: 16 @36889 has 95 MA's), (34, 36838), (41, 36790), (44, 36766), (51, 36727), (55, 36712), (73, 36559), (80, 36526), (85, 36508), (111, 36415), (116, 36385), (124, 36325),

Gene: Saintus_47 Start: 31919, Stop: 31305, Start Num: 21
Candidate Starts for Saintus_47:
(Start: 21 @31919 has 66 MA's), (40, 31847), (55, 31766), (64, 31661), (68, 31640), (69, 31631), (77, 31592), (79, 31583), (83, 31571), (116, 31448),

Gene: SaturnRing_55 Start: 36750, Stop: 36073, Start Num: 17
Candidate Starts for SaturnRing_55:
(Start: 17 @36750 has 176 MA's), (30, 36729), (34, 36723), (46, 36642), (48, 36633), (53, 36606), (55, 36597), (59, 36567), (64, 36492), (89, 36354), (92, 36333), (95, 36324), (98, 36291), (99, 36288), (116, 36201), (124, 36141), (128, 36084),

Gene: Scherzo_55 Start: 37193, Stop: 36528, Start Num: 16
Candidate Starts for Scherzo_55:
(Start: 16 @37193 has 95 MA's), (34, 37142), (41, 37094), (44, 37070), (51, 37031), (55, 37016), (73, 36863), (80, 36830), (85, 36812), (111, 36719), (116, 36689), (124, 36629),

Gene: Scorpia_52 Start: 35740, Stop: 35105, Start Num: 18
Candidate Starts for Scorpia_52:
(3, 36079), (Start: 18 @35740 has 8 MA's), (Start: 21 @35728 has 66 MA's), (42, 35638), (55, 35575), (64, 35470), (65, 35461), (70, 35437), (77, 35401), (80, 35389), (83, 35380), (113, 35269), (116, 35248), (125, 35185),

Gene: Scout_54 Start: 35898, Stop: 35197, Start Num: 17
Candidate Starts for Scout_54:
(Start: 17 @35898 has 176 MA's), (38, 35826), (40, 35805), (Start: 50 @35742 has 1 MA's), (60, 35688), (64, 35619), (86, 35490), (89, 35478), (92, 35457), (95, 35448), (98, 35415), (116, 35325), (124, 35265), (128, 35208),

Gene: Severus_50 Start: 35480, Stop: 34746, Start Num: 17

Candidate Starts for Severus_50:
(Start: 17 @35480 has 176 MA's), (40, 35384), (Start: 50 @35321 has 1 MA's), (54, 35309), (60, 35267), (82, 35111), (85, 35081), (108, 34952), (109, 34949), (116, 34913),

Gene: Shapes_56 Start: 36313, Stop: 35600, Start Num: 17
Candidate Starts for Shapes_56:
(Start: 17 @36313 has 176 MA's), (38, 36259), (46, 36202), (55, 36157), (56, 36148), (82, 35965), (106, 35818), (116, 35767), (124, 35707),

Gene: ShayRa_60 Start: 35867, Stop: 35295, Start Num: 21
Candidate Starts for ShayRa_60:
(13, 35918), (Start: 15 @35906 has 1 MA's), (Start: 21 @35867 has 66 MA's), (Start: 28 @35852 has 2 MA's), (54, 35714), (76, 35570), (99, 35468), (113, 35402), (116, 35381), (125, 35318),

Gene: SheaKeira_53 Start: 36414, Stop: 35713, Start Num: 16
Candidate Starts for SheaKeira_53:
(Start: 16 @36414 has 95 MA's), (29, 36369), (34, 36354), (41, 36306), (44, 36282), (47, 36267), (55, 36228), (65, 36114), (73, 36075), (80, 36042), (102, 35967), (116, 35898), (130, 35748),

Gene: Shep_54 Start: 35648, Stop: 34947, Start Num: 17
Candidate Starts for Shep_54:
(Start: 17 @35648 has 176 MA's), (38, 35576), (40, 35555), (Start: 50 @35492 has 1 MA's), (60, 35438), (64, 35369), (86, 35240), (89, 35228), (92, 35207), (95, 35198), (98, 35165), (116, 35075), (124, 35015), (128, 34958),

Gene: Shuman_43 Start: 32774, Stop: 32184, Start Num: 17
Candidate Starts for Shuman_43:
(Start: 17 @32774 has 176 MA's), (Start: 21 @32756 has 66 MA's), (35, 32726), (36, 32723), (54, 32609), (62, 32525), (64, 32498), (78, 32432), (80, 32423), (97, 32375), (113, 32303), (116, 32282), (122, 32243),

Gene: Smeadley_53 Start: 35378, Stop: 34755, Start Num: 21
Candidate Starts for Smeadley_53:
(Start: 21 @35378 has 66 MA's), (40, 35306), (53, 35234), (60, 35189), (73, 35072), (79, 35042), (116, 34898), (117, 34889),

Gene: SmellyB_56 Start: 35795, Stop: 35127, Start Num: 16
Candidate Starts for SmellyB_56:
(Start: 16 @35795 has 95 MA's), (32, 35744), (55, 35609), (60, 35573), (116, 35291), (121, 35264),

Gene: Snickers_57 Start: 36905, Stop: 36183, Start Num: 17
Candidate Starts for Snickers_57:
(Start: 17 @36905 has 176 MA's), (Start: 50 @36764 has 1 MA's), (60, 36710), (72, 36596), (95, 36479), (98, 36446), (99, 36443), (109, 36392), (113, 36377), (116, 36356), (126, 36269),

Gene: SoYo_57 Start: 36843, Stop: 36121, Start Num: 17
Candidate Starts for SoYo_57:
(Start: 17 @36843 has 176 MA's), (Start: 50 @36702 has 1 MA's), (60, 36648), (72, 36534), (95, 36417), (98, 36384), (99, 36381), (109, 36330), (113, 36315), (116, 36294), (126, 36207),

Gene: SoilDragon_57 Start: 36379, Stop: 35657, Start Num: 17
Candidate Starts for SoilDragon_57:

(Start: 17 @36379 has 176 MA's), (Start: 50 @36238 has 1 MA's), (60, 36184), (72, 36070), (95, 35953), (98, 35920), (99, 35917), (109, 35866), (113, 35851), (116, 35830), (126, 35743),

Gene: Soshari_59 Start: 36955, Stop: 36233, Start Num: 17
Candidate Starts for Soshari_59:
(Start: 17 @36955 has 176 MA's), (Start: 50 @36814 has 1 MA's), (60, 36760), (99, 36493), (116, 36406), (126, 36319),

Gene: Soups_60 Start: 36106, Stop: 35534, Start Num: 21
Candidate Starts for Soups_60:
(13, 36157), (Start: 15 @36145 has 1 MA's), (Start: 21 @36106 has 66 MA's), (Start: 28 @36091 has 2 MA's), (54, 35953), (76, 35809), (99, 35707), (113, 35641), (116, 35620), (125, 35557),

Gene: Spike509_57 Start: 36956, Stop: 36234, Start Num: 17
Candidate Starts for Spike509_57:
(Start: 17 @36956 has 176 MA's), (Start: 50 @36815 has 1 MA's), (60, 36761), (99, 36494), (116, 36407), (126, 36320),

Gene: Spooks_24 Start: 17190, Stop: 16639, Start Num: 20
Candidate Starts for Spooks_24:
(Start: 20 @17190 has 6 MA's), (23, 17184), (32, 17166), (40, 17115), (41, 17112), (66, 16920), (75, 16875), (93, 16800), (97, 16764), (99, 16758), (102, 16737), (116, 16671), (119, 16650),

Gene: Spouty_55 Start: 36973, Stop: 36308, Start Num: 16
Candidate Starts for Spouty_55:
(Start: 16 @36973 has 95 MA's), (34, 36922), (41, 36874), (44, 36850), (51, 36811), (55, 36796), (73, 36643), (80, 36610), (85, 36592), (111, 36499), (116, 36469), (124, 36409),

Gene: StCroix_42 Start: 32842, Stop: 32252, Start Num: 17
Candidate Starts for StCroix_42:
(Start: 17 @32842 has 176 MA's), (Start: 21 @32824 has 66 MA's), (35, 32794), (36, 32791), (54, 32677), (62, 32593), (64, 32566), (78, 32500), (80, 32491), (97, 32443), (113, 32371), (116, 32350), (122, 32311),

Gene: Stagni_57 Start: 36934, Stop: 36212, Start Num: 17
Candidate Starts for Stagni_57:
(Start: 17 @36934 has 176 MA's), (Start: 50 @36793 has 1 MA's), (60, 36739), (72, 36625), (95, 36508), (98, 36475), (99, 36472), (109, 36421), (113, 36406), (116, 36385), (126, 36298),

Gene: StepMih_57 Start: 36925, Stop: 36203, Start Num: 17
Candidate Starts for StepMih_57:
(Start: 17 @36925 has 176 MA's), (Start: 50 @36784 has 1 MA's), (60, 36730), (72, 36616), (95, 36499), (98, 36466), (99, 36463), (109, 36412), (113, 36397), (116, 36376), (126, 36289),

Gene: Stephig9_53 Start: 35444, Stop: 34821, Start Num: 21
Candidate Starts for Stephig9_53:
(Start: 21 @35444 has 66 MA's), (40, 35372), (53, 35300), (60, 35255), (73, 35138), (79, 35108), (101, 35039), (103, 35027), (116, 34964), (117, 34955),

Gene: Strosahl_60 Start: 35686, Stop: 35114, Start Num: 21
Candidate Starts for Strosahl_60:
(13, 35737), (Start: 15 @35725 has 1 MA's), (Start: 21 @35686 has 66 MA's), (Start: 28 @35671 has 2 MA's), (54, 35533), (76, 35389), (99, 35287), (113, 35221), (116, 35200), (125, 35137),

Gene: Success_24 Start: 16405, Stop: 15854, Start Num: 20
Candidate Starts for Success_24:
(Start: 20 @16405 has 6 MA's), (32, 16381), (40, 16330), (41, 16327), (42, 16312), (66, 16135), (75, 16090), (93, 16015), (97, 15979), (99, 15973), (102, 15952), (116, 15886), (119, 15865),

Gene: SuperAwesome_56 Start: 35809, Stop: 35141, Start Num: 16
Candidate Starts for SuperAwesome_56:
(Start: 16 @35809 has 95 MA's), (32, 35758), (55, 35623), (60, 35587), (116, 35305), (121, 35278),

Gene: SuperCallie99_55 Start: 35682, Stop: 35014, Start Num: 16
Candidate Starts for SuperCallie99_55:
(Start: 16 @35682 has 95 MA's), (32, 35631), (55, 35496), (60, 35460), (116, 35178), (121, 35151),

Gene: Swann_43 Start: 32827, Stop: 32237, Start Num: 17
Candidate Starts for Swann_43:
(Start: 17 @32827 has 176 MA's), (Start: 21 @32809 has 66 MA's), (35, 32779), (36, 32776), (54, 32662), (62, 32578), (64, 32551), (78, 32485), (80, 32476), (97, 32428), (113, 32356), (116, 32335), (122, 32296),

Gene: Swirley_49 Start: 35919, Stop: 35284, Start Num: 18
Candidate Starts for Swirley_49:
(3, 36258), (Start: 18 @35919 has 8 MA's), (Start: 21 @35907 has 66 MA's), (42, 35817), (55, 35754), (64, 35649), (65, 35640), (77, 35580), (80, 35568), (83, 35559), (103, 35490), (116, 35427), (125, 35364),

Gene: Switzerland_59 Start: 36006, Stop: 35434, Start Num: 21
Candidate Starts for Switzerland_59:
(13, 36057), (Start: 15 @36045 has 1 MA's), (Start: 21 @36006 has 66 MA's), (Start: 28 @35991 has 2 MA's), (54, 35853), (76, 35709), (99, 35607), (113, 35541), (116, 35520), (125, 35457),

Gene: SydNat_50 Start: 36432, Stop: 35806, Start Num: 21
Candidate Starts for SydNat_50:
(Start: 18 @36444 has 8 MA's), (Start: 21 @36432 has 66 MA's), (30, 36414), (42, 36339), (55, 36276), (64, 36171), (65, 36162), (77, 36102), (80, 36090), (103, 36012), (116, 35949),

Gene: TNguyen7_55 Start: 36716, Stop: 36039, Start Num: 17
Candidate Starts for TNguyen7_55:
(Start: 17 @36716 has 176 MA's), (30, 36695), (34, 36689), (46, 36608), (48, 36599), (53, 36572), (55, 36563), (59, 36533), (64, 36458), (89, 36320), (92, 36299), (95, 36290), (98, 36257), (99, 36254), (116, 36167), (124, 36107), (128, 36050),

Gene: TWAMP_43 Start: 32829, Stop: 32239, Start Num: 17
Candidate Starts for TWAMP_43:
(Start: 17 @32829 has 176 MA's), (Start: 21 @32811 has 66 MA's), (35, 32781), (36, 32778), (54, 32664), (62, 32580), (64, 32553), (78, 32487), (80, 32478), (97, 32430), (113, 32358), (116, 32337), (122, 32298),

Gene: Tailonex_44 Start: 35095, Stop: 34496, Start Num: 21
Candidate Starts for Tailonex_44:
(Start: 21 @35095 has 66 MA's), (85, 34735), (97, 34702), (101, 34684), (107, 34654), (108, 34648), (113, 34630), (116, 34609),

Gene: Takoda_43 Start: 32733, Stop: 32146, Start Num: 17
Candidate Starts for Takoda_43:
(Start: 17 @32733 has 176 MA's), (35, 32688), (36, 32685), (48, 32601), (52, 32577), (54, 32571), (62, 32487), (64, 32460), (66, 32445), (78, 32394), (79, 32388), (80, 32385), (97, 32337), (109, 32280), (120, 32220), (122, 32205),

Gene: Tarynearal_45 Start: 35361, Stop: 34726, Start Num: 18
Candidate Starts for Tarynearal_45:
(Start: 18 @35361 has 8 MA's), (Start: 21 @35349 has 66 MA's), (42, 35259), (55, 35196), (64, 35091), (65, 35082), (77, 35022), (80, 35010), (83, 35001), (116, 34869), (125, 34806),

Gene: Taurus_58 Start: 36931, Stop: 36209, Start Num: 17
Candidate Starts for Taurus_58:
(Start: 17 @36931 has 176 MA's), (Start: 50 @36790 has 1 MA's), (60, 36736), (72, 36622), (95, 36505), (98, 36472), (99, 36469), (109, 36418), (113, 36403), (116, 36382), (126, 36295),

Gene: Temprado_58 Start: 36258, Stop: 35590, Start Num: 16
Candidate Starts for Temprado_58:
(Start: 16 @36258 has 95 MA's), (32, 36207), (55, 36072), (60, 36036), (116, 35754), (121, 35727),

Gene: Texage_52 Start: 36707, Stop: 36003, Start Num: 17
Candidate Starts for Texage_52:
(Start: 17 @36707 has 176 MA's), (37, 36650), (38, 36647), (65, 36431), (74, 36383), (89, 36308), (90, 36305), (92, 36287), (114, 36167), (116, 36155),

Gene: Theia_46 Start: 35909, Stop: 35283, Start Num: 21
Candidate Starts for Theia_46:
(2, 36470), (3, 36260), (Start: 18 @35921 has 8 MA's), (Start: 21 @35909 has 66 MA's), (42, 35816), (55, 35753), (77, 35579), (80, 35567), (116, 35426), (125, 35363),

Gene: Tiffany_57 Start: 36817, Stop: 36095, Start Num: 17
Candidate Starts for Tiffany_57:
(Start: 17 @36817 has 176 MA's), (Start: 50 @36676 has 1 MA's), (60, 36622), (72, 36508), (95, 36391), (98, 36358), (99, 36355), (109, 36304), (113, 36289), (116, 36268), (126, 36181),

Gene: Tiger_46 Start: 35098, Stop: 34472, Start Num: 21
Candidate Starts for Tiger_46:
(Start: 18 @35110 has 8 MA's), (Start: 21 @35098 has 66 MA's), (30, 35080), (42, 35005), (Start: 50 @34960 has 1 MA's), (55, 34942), (77, 34768), (80, 34756), (116, 34615), (125, 34552),

Gene: TinyPebbles_56 Start: 36961, Stop: 36239, Start Num: 17
Candidate Starts for TinyPebbles_56:
(Start: 17 @36961 has 176 MA's), (Start: 50 @36820 has 1 MA's), (60, 36766), (99, 36499), (116, 36412), (126, 36325),

Gene: Toaka_55 Start: 36696, Stop: 36142, Start Num: 16
Candidate Starts for Toaka_55:
(Start: 16 @36696 has 95 MA's), (40, 36594), (42, 36576), (47, 36552), (51, 36528), (64, 36408), (65, 36399), (77, 36339), (85, 36309), (105, 36240), (116, 36186),

Gene: Todacoro_53 Start: 36706, Stop: 36002, Start Num: 17
Candidate Starts for Todacoro_53:

(Start: 17 @36706 has 176 MA's), (37, 36649), (38, 36646), (65, 36430), (74, 36382), (89, 36307), (90, 36304), (92, 36286), (114, 36166), (116, 36154),

Gene: ToneTone_54 Start: 35818, Stop: 35150, Start Num: 16
Candidate Starts for ToneTone_54:
(Start: 16 @35818 has 95 MA's), (32, 35767), (55, 35632), (60, 35596), (116, 35314), (121, 35287),

Gene: Topanga_50 Start: 36244, Stop: 35534, Start Num: 17
Candidate Starts for Topanga_50:
(Start: 17 @36244 has 176 MA's), (38, 36193), (46, 36136), (55, 36091), (56, 36082), (59, 36061), (60, 36055), (82, 35899), (96, 35797), (116, 35701),

Gene: Trike_50 Start: 35489, Stop: 34755, Start Num: 17
Candidate Starts for Trike_50:
(Start: 17 @35489 has 176 MA's), (40, 35393), (Start: 50 @35330 has 1 MA's), (54, 35318), (60, 35276), (82, 35120), (85, 35090), (108, 34961), (109, 34958), (116, 34922),

Gene: Tubs_55 Start: 36907, Stop: 36242, Start Num: 16
Candidate Starts for Tubs_55:
(Start: 16 @36907 has 95 MA's), (34, 36856), (41, 36808), (44, 36784), (51, 36745), (55, 36730), (73, 36577), (80, 36544), (85, 36526), (111, 36433), (116, 36403), (124, 36343),

Gene: Tucker_57 Start: 35987, Stop: 35319, Start Num: 16
Candidate Starts for Tucker_57:
(Start: 16 @35987 has 95 MA's), (32, 35936), (55, 35801), (60, 35765), (116, 35483), (121, 35456),

Gene: Twigg_47 Start: 35546, Stop: 34923, Start Num: 21
Candidate Starts for Twigg_47:
(Start: 18 @35558 has 8 MA's), (Start: 21 @35546 has 66 MA's), (42, 35456), (55, 35393), (80, 35207), (116, 35066), (125, 35003),

Gene: Twister_50 Start: 36164, Stop: 35451, Start Num: 17
Candidate Starts for Twister_50:
(Start: 17 @36164 has 176 MA's), (38, 36110), (55, 36008), (56, 35999), (64, 35903), (82, 35816), (98, 35708), (108, 35657), (116, 35618),

Gene: Ugenie5_52 Start: 37192, Stop: 36527, Start Num: 16
Candidate Starts for Ugenie5_52:
(Start: 16 @37192 has 95 MA's), (34, 37141), (41, 37093), (44, 37069), (51, 37030), (55, 37015), (73, 36862), (80, 36829), (85, 36811), (111, 36718), (116, 36688), (124, 36628),

Gene: UhSalsa_43 Start: 32762, Stop: 32172, Start Num: 17
Candidate Starts for UhSalsa_43:
(Start: 17 @32762 has 176 MA's), (Start: 21 @32744 has 66 MA's), (35, 32714), (36, 32711), (54, 32597), (62, 32513), (64, 32486), (78, 32420), (80, 32411), (97, 32363), (113, 32291), (116, 32270), (122, 32231),

Gene: UnionJack_49 Start: 35218, Stop: 34595, Start Num: 21
Candidate Starts for UnionJack_49:
(Start: 18 @35230 has 8 MA's), (Start: 21 @35218 has 66 MA's), (42, 35128), (55, 35065), (77, 34891), (80, 34879), (102, 34804), (113, 34759), (116, 34738), (125, 34675),

Gene: Vanisoa_55 Start: 37825, Stop: 37151, Start Num: 16

Candidate Starts for Vanisoa_55:
(Start: 16 @37825 has 95 MA's), (34, 37765), (41, 37717), (44, 37693), (46, 37684), (47, 37678), (55, 37639), (64, 37534), (73, 37486), (77, 37465), (80, 37453), (85, 37435), (116, 37309),

Gene: Veracruz_52 Start: 36706, Stop: 36002, Start Num: 17
Candidate Starts for Veracruz_52:
(Start: 17 @36706 has 176 MA's), (37, 36649), (38, 36646), (65, 36430), (74, 36382), (89, 36307), (90, 36304), (92, 36286), (114, 36166), (116, 36154),

Gene: Vix_57 Start: 37014, Stop: 36292, Start Num: 17
Candidate Starts for Vix_57:
(Start: 17 @37014 has 176 MA's), (Start: 50 @36873 has 1 MA's), (60, 36819), (72, 36705), (95, 36588), (98, 36555), (99, 36552), (109, 36501), (113, 36486), (116, 36465), (126, 36378),

Gene: VohminGhazi_56 Start: 35796, Stop: 35128, Start Num: 16
Candidate Starts for VohminGhazi_56:
(Start: 16 @35796 has 95 MA's), (32, 35745), (55, 35610), (60, 35574), (116, 35292), (121, 35265),

Gene: Waits_60 Start: 35888, Stop: 35316, Start Num: 21
Candidate Starts for Waits_60:
(13, 35939), (Start: 15 @35927 has 1 MA's), (Start: 21 @35888 has 66 MA's), (Start: 28 @35873 has 2 MA's), (54, 35735), (76, 35591), (99, 35489), (113, 35423), (116, 35402), (125, 35339),

Gene: WalterMcMickey_50 Start: 36164, Stop: 35451, Start Num: 17
Candidate Starts for WalterMcMickey_50:
(Start: 17 @36164 has 176 MA's), (38, 36110), (55, 36008), (56, 35999), (64, 35903), (82, 35816), (98, 35708), (108, 35657), (116, 35618),

Gene: Warrior24_62 Start: 36352, Stop: 35780, Start Num: 21
Candidate Starts for Warrior24_62:
(13, 36403), (Start: 15 @36391 has 1 MA's), (Start: 21 @36352 has 66 MA's), (Start: 28 @36337 has 2 MA's), (54, 36199), (76, 36055), (99, 35953), (113, 35887), (116, 35866), (125, 35803),

Gene: Watson_57 Start: 36923, Stop: 36201, Start Num: 17
Candidate Starts for Watson_57:
(Start: 17 @36923 has 176 MA's), (Start: 50 @36782 has 1 MA's), (60, 36728), (72, 36614), (95, 36497), (98, 36464), (99, 36461), (109, 36410), (113, 36395), (116, 36374), (126, 36287),

Gene: Wiks_56 Start: 35889, Stop: 35221, Start Num: 16
Candidate Starts for Wiks_56:
(Start: 16 @35889 has 95 MA's), (32, 35838), (55, 35703), (60, 35667), (116, 35385), (121, 35358),

Gene: Wooldri_59 Start: 36843, Stop: 36121, Start Num: 17
Candidate Starts for Wooldri_59:
(Start: 17 @36843 has 176 MA's), (Start: 50 @36702 has 1 MA's), (60, 36648), (72, 36534), (95, 36417), (98, 36384), (99, 36381), (109, 36330), (113, 36315), (116, 36294), (126, 36207),

Gene: WorldCup_54 Start: 36494, Stop: 35802, Start Num: 16
Candidate Starts for WorldCup_54:
(Start: 16 @36494 has 95 MA's), (29, 36449), (34, 36434), (41, 36386), (44, 36362), (47, 36347), (51, 36323), (55, 36308), (64, 36203), (65, 36194), (73, 36155), (80, 36122), (83, 36113), (85, 36104), (111, 36011), (116, 35981), (127, 35885),

Gene: WunderPhul_57 Start: 35887, Stop: 35219, Start Num: 16
Candidate Starts for WunderPhul_57:
(Start: 16 @35887 has 95 MA's), (32, 35836), (55, 35701), (60, 35665), (116, 35383), (121, 35356),

Gene: Yogi_42 Start: 32803, Stop: 32213, Start Num: 17
Candidate Starts for Yogi_42:
(Start: 17 @32803 has 176 MA's), (Start: 21 @32785 has 66 MA's), (35, 32755), (36, 32752), (54, 32638), (62, 32554), (64, 32527), (78, 32461), (80, 32452), (97, 32404), (113, 32332), (116, 32311), (122, 32272),

Gene: Yokurt_57 Start: 35889, Stop: 35221, Start Num: 16
Candidate Starts for Yokurt_57:
(Start: 16 @35889 has 95 MA's), (32, 35838), (55, 35703), (60, 35667), (116, 35385), (121, 35358),

Gene: Yoncess_42 Start: 32583, Stop: 31993, Start Num: 17
Candidate Starts for Yoncess_42:
(Start: 17 @32583 has 176 MA's), (Start: 21 @32565 has 66 MA's), (35, 32535), (36, 32532), (54, 32418), (62, 32334), (64, 32307), (78, 32241), (80, 32232), (97, 32184), (113, 32112), (116, 32091), (122, 32052),

Gene: Zaka_57 Start: 35889, Stop: 35221, Start Num: 16
Candidate Starts for Zaka_57:
(Start: 16 @35889 has 95 MA's), (32, 35838), (55, 35703), (60, 35667), (116, 35385), (121, 35358),

Gene: Zarafa_54 Start: 36660, Stop: 35959, Start Num: 17
Candidate Starts for Zarafa_54:
(Start: 17 @36660 has 176 MA's), (38, 36588), (40, 36567), (Start: 50 @36504 has 1 MA's), (60, 36450), (64, 36381), (86, 36252), (89, 36240), (92, 36219), (95, 36210), (98, 36177), (116, 36087), (124, 36027), (128, 35970),

Gene: Zetzy_56 Start: 36494, Stop: 35772, Start Num: 17
Candidate Starts for Zetzy_56:
(Start: 17 @36494 has 176 MA's), (Start: 50 @36353 has 1 MA's), (60, 36299), (72, 36185), (95, 36068), (98, 36035), (99, 36032), (109, 35981), (113, 35966), (116, 35945), (126, 35858),

Gene: Zolita_49 Start: 36436, Stop: 35810, Start Num: 21
Candidate Starts for Zolita_49:
(Start: 18 @36448 has 8 MA's), (Start: 21 @36436 has 66 MA's), (30, 36418), (42, 36343), (55, 36280), (64, 36175), (65, 36166), (77, 36106), (80, 36094), (103, 36016), (116, 35953),

Gene: Zulu_58 Start: 36267, Stop: 35599, Start Num: 16
Candidate Starts for Zulu_58:
(Start: 16 @36267 has 95 MA's), (32, 36216), (55, 36081), (60, 36045), (116, 35763), (121, 35736),