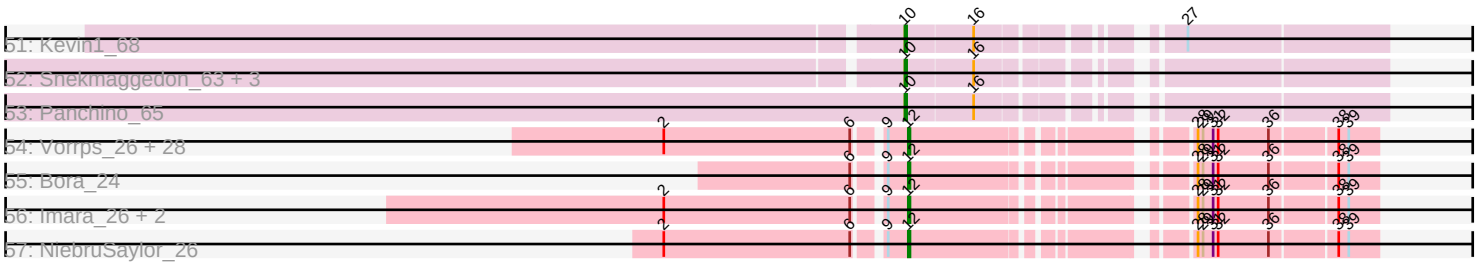
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1: CaptainTrips_101 + 84
2: Rockne_102 + 21
3: Marker_105 + 34
4: Leozinho_96 + 24
5: LunaBlu_106 + 25
6: Starcevich_101
7: WillSterrel_97 + 1
8: Latretium_102
9: Che8_106
10: Piper2020_94 + 6
11: StAnnes_103
12: Giralales_108 + 3
13: Chevrolet_103 + 7
14: Whouxphi_104
15: Fastidio_103 + 1
16: Slim_102 + 1
17: JalFarm20_108 + 3
18: Aubs_99 + 5
19: DoRead_101
20: DirtMcgirt_100
21: Girr_98 + 1
22: SassyB_90 + 2
23: Phasin_96
24: Martik_98
25: Juniper1_91 + 1
26: Nitzel_93
27: Kamdo_94
28: IbOuu_90
29: Crumble_94 + 1
30: SG4_100 + 1
31: Simran21_96
32: DaWorst_99
33: Frankie_99
34: Job42_100
35: Royals2015_103
36: Renaud18_109 + 1
37: YChen_97 + 1
38: Cornie_97
39: Toron_103
40: MulchSalad_97 + 2
41: Brujita_71 + 1
42: HC_75
43: PaintedDog_72
44: Babsiella_74
45: Biuvara_73 + 2
46: SkinnyPete_67 + 8
47: Tortoise12_71 + 20
48: Butters_65 + 1
49: Fulbright_69 + 1
50: Purgamentis_69 + 8

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51: Kevin1_68
52: Snekmaggedon_63 + 3
53: Panchino_65
54: Vorrps_26 + 28
55: Bora_24
56: Imara_26 + 2
57: NiebruSaylor_26

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 347134 Report

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

Pham number 347134 has 356 members, 24 are drafts.

Phages represented in each track:
• Track 1 : CaptainTrips_101, Brocalys_91, DeadP_99, DotProduct_93, Ruby_96, XFactor_90, Jennelsea_97, BobaPhett_101, Seagreen_100, Chuckly_96, Corium_98, PatoPoderoso_100, Bobi_101, Burwell21_93, Lizziana_100, DLane_99, Tweety_100, NormanBulbieJr_97, Melissauren88_89, Jinglebell_106, Wee_102, Phanphagia_104, Rita_99, Koella_92, Emma_104, LittleShirley_107, Brookers_98, Zizzle_102, KingJulian_107, Flathead_101, PhesterPhotato_103, Hlubikazi_97, Medindi_104, IMpilo_97, Zerg_97, Ardmore_83, Coco12_100, MilleniumForce_99, Cerasum_98, Phatniss_97, Mova_101, Whatsapiecost_93, Kenuha5_91, FreddyB_109, Taj_105, Maravista_96, SwagPigglett_101, OwlsT2W_97, SuperGrey_99, Dante_97, Shauna1_101, Eish_104, Mandlovu_97, Sarma624_101, Brushbloom_99, Ms6_101, Philus_103, Mozy_103, Violac_100, Pippy_97, Cabrinians_96, Priscilla_100, Phalconet_100, Filuzino_99, James_103, Jant_106, Fruitloop_97, Akhila_93, Doomslug_117, Beanstalk_99, Clifton_91, Tootsieroll_93, Bubbles123_93, MilanaBonita_92, Hamulus_99, ShowerHandel_100, LastJedi_90, Okabe_91, Kingsley_108, Hegedechwinu_107, Strokeseat_97, Velveteen_96, BigPhil_96, Bipolar_101, Batiatus_99
• Track 2 : Rockne_102, Lorde_102, Saal_97, Nivrat_99, Mantra_97, LilMoolah_102, RockyHorror_103, UncleRicky_99, ShiLan_102, Spoonbill_99, GUmbie_98, Drago_98, Boomer_101, Lucia_99, Mattes_100, Minnie_94, Gorge_98, Spikelee_100, PMC_98, Jarcob_102, Sandalphon_99, Enby_103
• Track 3 : Marker_105, Radiance_97, Peridot_103, JoeyJr_102, Nimbo_91, Leperchaun_101, Deb65_92, Totinger_102, Polka14_103, Geralt_92, Dorothy_100, Pacc40_97, Sassafras_101, Doug_96, BlueCrab_102, KingMidas_99, Gandalph_99, Eradicator_91, Pollywog_101, Doomphist_104, Rialto_104, BodEinwohner17_109, RitaG_98, RedBird_100, Alexphander_100, Poenanya_103, Scottish_99, PHappiness_99, BuzzLyseyear_106, Moonbeam_102, Inventum_97, Empress_99, OldBen_96, Daenerys_97, DaddyRickover_101
• Track 4 : Leozinho_96, Donkeykong_105, Ogopogo_103, Grimmer_104, Topiatin_101, ShroomBoi_97, Plumbus_98, DillTech15_105, Yorick_95, Llij_94, Cheesepuff_104, MulchExplorer_99, Juice456_98, ByChance_90, DRBy19_99, Spartacus_106, Madiba_98, Estave1_107, Sparkdehlily_106, Tchotchke_95, Kimberlium_101, Krakatau_92, GigiOuiOui_94, Fancypants_106, TDanisky_107
• Track 5 : LunaBlu_106, Polo2Bam_111, EmiMonkey_88, Kersh_102, AlpineSix_97, Ochi17_105, Seabastian_106, Ovechkin_102, PhlipPhlop_89, Nichirin_101, SiSi_95, Mutaforma13_100, NewHope4_107, OfUltron_106, Llama_106, Vivum_99, Harley_101, Byougenkin_96, Modragons_103, Wachhund_96, Enzomatic_112, Ramsey_104, Oksu_105, Ibhubesi_96, SeaLumen_108, Veteran_90

• Track 6 : Starcevich_101
• Track 7 : WillSterrel_97, IrishSherpFalk_99
• Track 8 : Latretium_102
• Track 9 : Che8_106
• Track 10 : Piper2020_94, DocMcStuffins_87, Misha28_89, Aloeri_91, ChickenDinner_90, TootsiePop_89, Awesomesauce_90
• Track 11 : StAnnes_103
• Track 12 : Girafales_108, Florinda_111, Mwanjiwa_102, Quico_108
• Track 13 : Chevrolet_103, QuickMath_100, ArcusAngelus_99, MadMen_104, Galactic_103, Hades_96, EleanorGeorge_103, MinionDave_97
• Track 14 : Whouxphf_104
• Track 15 : Fastidio_103, Clank_97
• Track 16 : Slim_102, Emmaloid_102
• Track 17 : JalFarm20_108, Sabbb_102, Stap_94, Beakin_91
• Track 18 : Aubs_99, VRedHorse_100, DosHalletts_96, Guppsters_94, KristaRAM_107, Cornucopia_99
• Track 19 : DoRead_101
• Track 20 : DirtMcgirt_100
• Track 21 : Girr_98, MisterCuddles_99
• Track 22 : SassyB_90, Firehouse51_93, PopTart_90
• Track 23 : Phasih_96
• Track 24 : Martik_98
• Track 25 : Juniper1_91, Mahavrat_93
• Track 26 : Nitzel_93
• Track 27 : Karhdo_94
• Track 28 : IbOuu_90
• Track 29 : Crumble_94, OlympiaSaint_103
• Track 30 : SG4_100, Blexus_96
• Track 31 : SimranZ1_96
• Track 32 : DaWorst_99
• Track 33 : Frankie_99
• Track 34 : Job42_100
• Track 35 : Royals2015_103
• Track 36 : Renaud18_109, ThetaBob_102
• Track 37 : TChen_97, LunaStella_97
• Track 38 : Cornie_97
• Track 39 : Toron_103
• Track 40 : MulchSalad_97, LordVader_88, Squirty_98
• Track 41 : Brujita_71, Island3_73
• Track 42 : HC_75
• Track 43 : PaintedDog_72
• Track 44 : Babsiella_74
• Track 45 : Bluvara_73, Xula_70, QueenHazel_69
• Track 46 : SkinnyPete_67, Philonius_71, Xeno_68, Charlie_67, Bosection6_65, Phrann_66, Journey_63, Impisi_69, PhancyPhin_68
• Track 47 : Tortoise12_71, Pipsqueaks_72, Carcharodon_70, Silvafighter_73, Tessdabest_71, Parmesanjohn_71, Cubone_73, Chewbacca_73, Silvy_67, Duplicity_69, Andies_64, Smurph_71, EGUnicorn_65, Phloss_69, Tapioca_69, Magsby_70, Schnauzer_73, Aggie_66, Scitech_66, Xerxes_71, Melville_76
• Track 48 : Butters_65, Rubeelu_65
• Track 49 : Fulbright_69, Shweta_65
• Track 50 : Purgamenstris_69, Hanako_68, Rebel_65, Spinach_68, Raymond7_62, Redi_68, ShrimpFriedEgg_69, Nenae_69, BabeRuth_69

• Track 51 : Kevin1_68
• Track 52 : Snekmaggedon_63, MichelleMyBell_69, SpongeBob_64, Jamie19_64
• Track 53 : Panchino_65
• Track 54 : Vorrps_26, YungJamal_28, KingPhillip3_25, JangDynasty_25, YoyoKar_24, Wildflower_26, MadKillah_27, Dylan_25, Firecracker_26, Alkhayr_26, TelAviv_23, Corndog_28, Catdawg_25, Ryadel_28, Murai_26, Familton_26, Wogge42_25, Idergollasper_25, FoulBall_25, Schuy_27, Smooch_29, Krili_26, Ashwin_27, Zebo_25, Mori_26, Zakhe101_26, SchoolBus_25, Shida_26, Blessica_26
• Track 55 : Bora_24
• Track 56 : Imara_26, Vagabond_26, Winget_26
• Track 57 : NiebruSaylor_26

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

The start number called the most often in the published annotations is 13, it was called in 242 of the 332 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Akhila_93, Alexphander_100, Aloeri_91, AlpineSix_97, ArcusAngelus_99, Ardmore_83, Aubs_99, Awesomesauce_90, Batiatus_99, Beakin_91, Beanstalk_99, BigPhil_96, Bipolar_101, Blexus_96, BlueCrab_102, BobaPhett_101, Bobi_101, BodEinwohner17_109, Boomer_101, Brocalys_91, Brookers_98, Brushbloom_99, Bubbles123_93, Burwell21_93, BuzzLyseyear_106, ByChance_90, Byougenkin_96, Cabrinians_96, CaptainTrips_101, Cerasum_98, Che8_106, Cheesepuff_104, Chevrolet_103, ChickenDinner_90, Chuckly_96, Clifton_91, Coco12_100, Corium_98, Cornucopia_99, Crumble_94, DLane_99, DRBy19_99, DaWorst_99, DaddyRickover_101, Daenerys_97, Dante_97, DeadP_99, Deb65_92, DillTech15_105, DirtMcgirt_100, DoRead_101, DocMcStuffins_87, Donkeykong_105, Doomphist_104, Doomslug_117, Dorothy_100, DosHalletts_96, DotProduct_93, Doug_96, Drago_98, Eish_104, EleanorGeorge_103, EmiMonkey_88, Emma_104, Emmaloid_102, Empress_99, Enby_103, Enzomatic_112, Eradicator_91, Estave1_107, Fancypants_106, Filuzino_99, Firehouse51_93, Flathead_101, Florinda_111, Frankie_99, FreddyB_109, Fruitloop_97, GUmbie_98, Galactic_103, Gandalph_99, Geralt_92, GigiOuiOui_94, Girafales_108, Girr_98, Gorge_98, Grimmer_104, Guppsters_94, Hades_96, Hamulus_99, Harley_101, Hegedechwinu_107, Hlubikazi_97, IMpilo_97, IbOuu_90, Ibhubesi_96, Inventum_97, IrishSherpFalk_99, JalFarm20_108, James_103, Jant_106, Jarcob_102, Jennelsea_97, Jinglebell_106, Job42_100, JoeyJr_102, Juice456_98, Juniper1_91, Karhdo_94, Kenuha5_91, Kersh_102, Kimberlium_101, KingJulian_107, KingMidas_99, Kingsley_108, Koella_92, Krakatau_92, KristaRAM_107, LastJedi_90, Latretium_102, Leozinho_96, Leperchaun_101, LilMoolah_102, LittleShirley_107, Lizziana_100, Llama_106, Llij_94, LordVader_88, Lorde_102, Lucia_99, LunaBlu_106, MadMen_104, Madiba_98, Mahavrat_93, Mandlovu_97, Mantra_97, Maravista_96, Marker_105, Martik_98, Mattes_100, Medindi_104, Melissauren88_89, MilanaBonita_92, MilleniumForce_99, MinionDave_97, Minnie_94, Misha28_89, MisterCuddles_99, Modragons_103, Moonbeam_102, Mova_101, Mozy_103, Ms6_101, MulchExplorer_99, MulchSalad_97, Mutaforma13_100, Mwanjiwa_102, NewHope4_107, Nichirin_101, Nimbo_91, Nitzel_93, Nivrat_99, NormanBulbieJr_97, Ochi17_105, OfUltron_106, Ogopogo_103, Okabe_91, Oksu_105, OldBen_96, OlympiaSaint_103, Ovechkin_102, OwlsT2W_97, PHappiness_99, PMC_98,

Pacc40_97, PatoPoderoso_100, Peridot_103, Phalconet_100, Phanphagia_104, Phasih_96, Phatniss_97, PhesterPhotato_103, Philus_103, PhlipPhlop_89, Piper2020_94, Pippy_97, Plumbus_98, Poenanya_103, Polka14_103, Pollywog_101, Polo2Bam_111, PopTart_90, Priscilla_100, QuickMath_100, Quico_108, Radiance_97, Ramsey_104, RedBird_100, Rialto_104, RitaG_98, Rita_99, Rockne_102, RockyHorror_103, Royals2015_103, Ruby_96, SG4_100, Saal_97, Sabbb_102, Sandalphon_99, Sarma624_101, Sassafras_101, SassyB_90, Scottish_99, SeaLumen_108, Seabastian_106, Seagreen_100, Shauna1_101, ShiLan_102, ShowerHandel_100, ShroomBoi_97, SiSi_95, SimranZ1_96, Slim_102, Sparkdehlily_106, Spartacus_106, Spikelee_100, Spoonbill_99, Squirty_98, StAnnes_103, Stap_94, Starcevich_101, Strokeseat_97, SuperGrey_99, SwagPigglett_101, TDanisky_107, Taj_105, Tchotchke_95, TootsiePop_89, Tootsieroll_93, Topiatin_101, Totinger_102, Tweety_100, UncleRicky_99, VRedHorse_100, Velveteen_96, Veteran_90, Violac_100, Vivum_99, Wachhund_96, Wee_102, Whatsapiecost_93, Whouxphf_104, WillSterrel_97, XFactor_90, Yorick_95, Zerg_97, Zizzle_102,

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

Genes that do not have the "Most Annotated" start:
• Aggie_66, Alkhayr_26, Andies_64, Ashwin_27, BabeRuth_69, Babsiella_74, Blessica_26, Bluvara_73, Bora_24, Bosection6_65, Brujita_71, Butters_65, Carcharodon_70, Catdawg_25, Charlie_67, Chewbacca_73, Clank_97, Corndog_28, Cornie_97, Cubone_73, Duplicity_69, Dylan_25, EGUnicorn_65, Familton_26, Fastidio_103, Firecracker_26, FoulBall_25, Fulbright_69, HC_75, Hanako_68, Idergollasper_25, Imara_26, Impisi_69, Island3_73, Jamie19_64, JangDynasty_25, Journey_63, Kevin1_68, KingPhillip3_25, Krili_26, LunaStella_97, MadKillah_27, Magsby_70, Melville_76, MichelleMyBell_69, Mori_26, Murai_26, Nenae_69, NiebruSaylor_26, PaintedDog_72, Panchino_65, Parmesanjohn_71, PhancyPhin_68, Philonius_71, Phloss_69, Phrann_66, Pipsqueaks_72, Purgamenstris_69, QueenHazel_69, Raymond7_62, Rebel_65, Redi_68, Renaud18_109, Rubeelu_65, Ryadel_28, Schnauzer_73, SchoolBus_25, Schuy_27, Scitech_66, Shida_26, ShrimpFriedEgg_69, Shweta_65, Silvafighter_73, Silvy_67, SkinnyPete_67, Smooch_29, Smurph_71, Snekmaggedon_63, Spinach_68, SpongeBob_64, TChen_97, Tapioca_69, TelAviv_23, Tessdabest_71, ThetaBob_102, Toron_103, Tortoise12_71, Vagabond_26, Vorrps_26, Wildflower_26, Winget_26, Wogge42_25, Xeno_68, Xerxes_71, Xula_70, YoyoKar_24, YungJamal_28, Zakhe101_26, Zebo_25,

Summary by start number:

Start 7:
• Found in 5 of 356 (1.4%) of genes in pham
• Manual Annotations of this start: 4 of 332
• Called 100.0% of time when present
• Phage (with cluster) where this start called: LunaStella_97 (F4), Renaud18_109 (F4), TChen_97 (F4), ThetaBob_102 (F4), Toron_103 (F6),

Start 8:
• Found in 1 of 356 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 332
• Called 100.0% of time when present

• Phage (with cluster) where this start called: Cornie_97 (F5),

Start 10:
• Found in 49 of 356 (13.8%) of genes in pham
• Manual Annotations of this start: 46 of 332
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Aggie_66 (N), Andies_64 (N), BabeRuth_69 (N), Bosection6_65 (N), Butters_65 (N), Carcharodon_70 (N), Charlie_67 (N), Chewbacca_73 (N), Cubone_73 (N), Duplicity_69 (N), EGUnicorn_65 (N), Fulbright_69 (N), Hanako_68 (N), Impisi_69 (N), Jamie19_64 (N), Journey_63 (N), Kevin1_68 (N), Magsby_70 (N), Melville_76 (N), MichelleMyBell_69 (N), Nenae_69 (N), Panchino_65 (N), Parmesanjohn_71 (N), PhancyPhin_68 (N), Philonius_71 (N), Phloss_69 (N), Phrann_66 (N), Pipsqueaks_72 (N), Purgamenstris_69 (N), Raymond7_62 (N), Rebel_65 (N), Redi_68 (N), Rubeelu_65 (N), Schnauzer_73 (N), Scitech_66 (N), ShrimpFriedEgg_69 (N), Shweta_65 (N), Silvafighter_73 (N), Silvy_67 (N), SkinnyPete_67 (N), Smurph_71 (N), Snekmaggedon_63 (N), Spinach_68 (N), SpongeBob_64 (N), Tapioca_69 (N), Tessdabest_71 (N), Tortoise12_71 (N), Xeno_68 (N), Xerxes_71 (N),

Start 11:
• Found in 5 of 356 (1.4%) of genes in pham
• Manual Annotations of this start: 3 of 332
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Babsiella_74 (I1), Bluvara_73 (I3), PaintedDog_72 (I1), QueenHazel_69 (I1), Xula_70 (I1),

Start 12:
• Found in 37 of 356 (10.4%) of genes in pham
• Manual Annotations of this start: 35 of 332
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Alkhayr_26 (O), Ashwin_27 (O), Blessica_26 (O), Bora_24 (O), Brujita_71 (I1), Catdawg_25 (O), Corndog_28 (O), Dylan_25 (O), Familton_26 (O), Firecracker_26 (O), FoulBall_25 (O), HC_75 (I1), Idergollasper_25 (O), Imara_26 (O), Island3_73 (I1), JangDynasty_25 (O), KingPhillip3_25 (O), Krili_26 (O), MadKillah_27 (O), Mori_26 (O), Murai_26 (O), NiebruSaylor_26 (O), Ryadel_28 (O), SchoolBus_25 (O), Schuy_27 (O), Shida_26 (O), Smooch_29 (O), TelAviv_23 (O), Vagabond_26 (O), Vorrps_26 (O), Wildflower_26 (O), Winget_26 (O), Wogge42_25 (O), YoyoKar_24 (O), YungJamal_28 (O), Zakhe101_26 (O), Zebo_25 (O),

Start 13:
• Found in 257 of 356 (72.2%) of genes in pham
• Manual Annotations of this start: 242 of 332
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Akhila_93 (F1), Alexphander_100 (F1), Aloeri_91 (F1), AlpineSix_97 (F1), ArcusAngelus_99 (F1), Ardmore_83 (F1), Aubs_99 (F1), Awesomesauce_90 (F1), Batiatus_99 (F1), Beakin_91 (F1), Beanstalk_99 (F1), BigPhil_96 (F1), Bipolar_101 (F1), Blexus_96 (F1), BlueCrab_102 (F1), BobaPhett_101 (F1), Bobi_101 (F1), BodEinwohner17_109 (F1), Boomer_101 (F1), Brocalys_91 (F1), Brookers_98 (F1), Brushbloom_99 (F1), Bubbles123_93 (F1), Burwell21_93 (F1), BuzzLyseyear_106 (F1), ByChance_90 (F1), Byougenkin_96 (F1), Cabrinians_96 (F1), CaptainTrips_101 (F1), Cerasum_98 (F1), Che8_106 (F1), Cheesepuff_104 (F1), Chevrolet_103 (F1), ChickenDinner_90 (F1), Chuckly_96 (F1),

Clifton_91 (F1), Coco12_100 (F1), Corium_98 (F1), Cornucopia_99 (F1), Crumble_94 (F1), DLane_99 (F1), DRBy19_99 (F1), DaWorst_99 (F1), DaddyRickover_101 (F1), Daenerys_97 (F1), Dante_97 (F1), DeadP_99 (F1), Deb65_92 (F1), DillTech15_105 (F1), DirtMcgirt_100 (F1), DoRead_101 (F1), DocMcStuffins_87 (F1), Donkeykong_105 (F1), Doomphist_104 (F1), Doomslug_117 (F), Dorothy_100 (F1), DosHalletts_96 (F1), DotProduct_93 (F1), Doug_96 (F1), Drago_98 (F1), Eish_104 (F1), EleanorGeorge_103 (F1), EmiMonkey_88 (F1), Emma_104 (F1), Emmaloid_102 (F1), Empress_99 (F1), Enby_103 (F1), Enzomatic_112 (F1), Eradicator_91 (F1), Estave1_107 (F1), Fancypants_106 (F1), Filuzino_99 (F1), Firehouse51_93 (F1), Flathead_101 (F1), Florinda_111 (F1), Frankie_99 (F1), FreddyB_109 (F1), Fruitloop_97 (F1), GUmbie_98 (F1), Galactic_103 (F1), Gandalph_99 (F1), Geralt_92 (F1), GigiOuiOui_94 (F1), Girafales_108 (F1), Girr_98 (F1), Gorge_98 (F1), Grimmer_104 (F1), Guppsters_94 (F1), Hades_96 (F1), Hamulus_99 (F1), Harley_101 (F1), Hegedechwinu_107 (F1), Hlubikazi_97 (F1), IMpilo_97 (F1), IbOuu_90 (F1), Ibhubesi_96 (F1), Inventum_97 (F1), IrishSherpFalk_99 (F1), JalFarm20_108 (F1), James_103 (F1), Jant_106 (F1), Jarcob_102 (F1), Jennelsea_97 (F1), Jinglebell_106 (F1), Job42_100 (F1), JoeyJr_102 (F1), Juice456_98 (F1), Juniper1_91 (F1), Karhdo_94 (F1), Kenuha5_91 (F1), Kersh_102 (F1), Kimberlium_101 (F1), KingJulian_107 (F1), KingMidas_99 (F1), Kingsley_108 (F1), Koella_92 (F1), Krakatau_92 (F1), KristaRAM_107 (F1), LastJedi_90 (F1), Latretium_102 (F1), Leozinho_96 (F1), Leperchaun_101 (F1), LilMoolah_102 (F1), LittleShirley_107 (F1), Lizziana_100 (F1), Llama_106 (F1), Llij_94 (F1), LordVader_88 (F), Lorde_102 (F1), Lucia_99 (F1), LunaBlu_106 (F1), MadMen_104 (F1), Madiba_98 (F1), Mahavrat_93 (F1), Mandlovu_97 (F1), Mantra_97 (F1), Maravista_96 (F1), Marker_105 (F1), Martik_98 (F1), Mattes_100 (F1), Medindi_104 (F1), Melissauren88_89 (F1), MilanaBonita_92 (F1), MilleniumForce_99 (F1), MinionDave_97 (F1), Minnie_94 (F1), Misha28_89 (F1), MisterCuddles_99 (F1), Modragons_103 (F1), Moonbeam_102 (F1), Mova_101 (F1), Mozy_103 (F1), Ms6_101 (F1), MulchExplorer_99 (F1), MulchSalad_97 (F7), Mutaforma13_100 (F1), Mwanjiwa_102 (F1), NewHope4_107 (F1), Nichirin_101 (F1), Nimbo_91 (F1), Nitzel_93 (F1), Nivrat_99 (F1), NormanBulbieJr_97 (F1), Ochi17_105 (F1), OfUltron_106 (F1), Ogopogo_103 (F1), Okabe_91 (F8), Oksu_105 (F1), OldBen_96 (F1), OlympiaSaint_103 (F1), Ovechkin_102 (F1), OwlsT2W_97 (F1), PHappiness_99 (F1), PMC_98 (F1), Pacc40_97 (F1), PatoPoderoso_100 (F1), Peridot_103 (F1), Phalconet_100 (F1), Phanphagia_104 (F1), Phasih_96 (F1), Phatniss_97 (F1), PhesterPhotato_103 (F1), Philus_103 (F1), PhlipPhlop_89 (F1), Piper2020_94 (F1), Pippy_97 (F1), Plumbus_98 (F1), Poenanya_103 (F1), Polka14_103 (F1), Pollywog_101 (F1), Polo2Bam_111 (F1), PopTart_90 (F1), Priscilla_100 (F1), QuickMath_100 (F1), Quico_108 (F1), Radiance_97 (F1), Ramsey_104 (F1), RedBird_100 (F1), Rialto_104 (F1), RitaG_98 (F1), Rita_99 (F1), Rockne_102 (F1), RockyHorror_103 (F1), Royals2015_103 (F1), Ruby_96 (F1), SG4_100 (F1), Saal_97 (F1), Sabbb_102 (F1), Sandalphon_99 (F1), Sarma624_101 (F1), Sassafras_101 (F1), SassyB_90 (F1), Scottish_99 (F1), SeaLumen_108 (F1), Seabastian_106 (F1), Seagreen_100 (F1), Shauna1_101 (F1), ShiLan_102 (F1), ShowerHandel_100 (F1), ShroomBoi_97 (F1), SiSi_95 (F1), SimranZ1_96 (F1), Slim_102 (F1), Sparkdehlily_106 (F1), Spartacus_106 (F1), Spikelee_100 (F1), Spoonbill_99 (F1), Squirty_98 (F3), StAnnes_103 (F1), Stap_94 (F1), Starcevich_101 (F1), Strokeseat_97 (F1), SuperGrey_99 (F1), SwagPigglett_101 (F1), TDanisky_107 (F1), Taj_105 (F1), Tchotchke_95 (F1), TootsiePop_89 (F1), Tootsieroll_93 (F1), Topiatin_101 (F1), Totinger_102 (F1), Tweety_100 (F1), UncleRicky_99 (F1), VRedHorse_100 (F1), Velveteen_96 (F1), Veteran_90 (F1), Violac_100 (F1), Vivum_99 (F1), Wachhund_96 (F1), Wee_102 (F1), Whatsapiecost_93 (F1), Whouxphf_104 (F1), WillSterrel_97 (F1), XFactor_90 (F1), Yorick_95 (F1), Zerg_97

(F1), Zizzle_102 (F1),

Start 14:
• Found in 261 of 356 (73.3%) of genes in pham
• Manual Annotations of this start: 1 of 332
• Called 0.8% of time when present
• Phage (with cluster) where this start called: Clank_97 (F), Fastidio_103 (F1),

Summary by clusters:

There are 12 clusters represented in this pham: F1, F3, F4, F5, F6, F7, I1, I3, F, O, N, F8,

Info for manual annotations of cluster F:
•Start number 13 was manually annotated 1 time for cluster F.

Info for manual annotations of cluster F1:
•Start number 13 was manually annotated 239 times for cluster F1.
•Start number 14 was manually annotated 1 time for cluster F1.

Info for manual annotations of cluster F3:
•Start number 13 was manually annotated 1 time for cluster F3.

Info for manual annotations of cluster F4:
•Start number 7 was manually annotated 4 times for cluster F4.

Info for manual annotations of cluster F5:
•Start number 8 was manually annotated 1 time for cluster F5.

Info for manual annotations of cluster F7:
•Start number 13 was manually annotated 1 time for cluster F7.

Info for manual annotations of cluster I1:
•Start number 11 was manually annotated 3 times for cluster I1.
•Start number 12 was manually annotated 3 times for cluster I1.

Info for manual annotations of cluster N:
•Start number 10 was manually annotated 46 times for cluster N.

Info for manual annotations of cluster O:
•Start number 12 was manually annotated 32 times for cluster O.

Gene Information:

Gene: Aggie_66 Start: 43624, Stop: 43869, Start Num: 10
Candidate Starts for Aggie_66:
(Start: 10 @43624 has 46 MA's), (16, 43663),

Gene: Akhila_93 Start: 52629, Stop: 52871, Start Num: 13
Candidate Starts for Akhila_93:
(Start: 13 @52629 has 242 MA's), (Start: 14 @52656 has 1 MA's), (16, 52662), (23, 52743), (26, 52755), (35, 52788), (37, 52824), (41, 52851),

Gene: Alexphander_100 Start: 54963, Stop: 55205, Start Num: 13
Candidate Starts for Alexphander_100:
(Start: 13 @54963 has 242 MA's), (Start: 14 @54990 has 1 MA's), (16, 54996), (23, 55077), (25, 55086), (35, 55122), (41, 55185),

Gene: Alkhayr_26 Start: 11847, Stop: 12083, Start Num: 12
Candidate Starts for Alkhayr_26:
(2, 11712), (6, 11823), (9, 11835), (Start: 12 @11847 has 35 MA's), (28, 11982), (29, 11985), (31, 11991), (32, 11994), (36, 12024), (38, 12060), (39, 12066),

Gene: Aloeri_91 Start: 53767, Stop: 54009, Start Num: 13
Candidate Starts for Aloeri_91:
(Start: 13 @53767 has 242 MA's), (Start: 14 @53794 has 1 MA's), (16, 53800), (23, 53881), (26, 53893), (35, 53926),

Gene: AlpineSix_97 Start: 53347, Stop: 53589, Start Num: 13
Candidate Starts for AlpineSix_97:
(Start: 13 @53347 has 242 MA's), (Start: 14 @53374 has 1 MA's), (16, 53380), (23, 53461), (24, 53464), (26, 53473), (35, 53506), (37, 53542), (40, 53566),

Gene: Andies_64 Start: 43070, Stop: 43315, Start Num: 10
Candidate Starts for Andies_64:
(Start: 10 @43070 has 46 MA's), (16, 43109),

Gene: ArcusAngelus_99 Start: 54880, Stop: 55146, Start Num: 13
Candidate Starts for ArcusAngelus_99:
(Start: 13 @54880 has 242 MA's), (Start: 14 @54907 has 1 MA's), (16, 54913), (23, 54994), (26, 55006), (35, 55039),

Gene: Ardmore_83 Start: 48518, Stop: 48760, Start Num: 13
Candidate Starts for Ardmore_83:
(Start: 13 @48518 has 242 MA's), (Start: 14 @48545 has 1 MA's), (16, 48551), (23, 48632), (26, 48644), (35, 48677), (37, 48713), (41, 48740),

Gene: Ashwin_27 Start: 12067, Stop: 12303, Start Num: 12
Candidate Starts for Ashwin_27:
(2, 11932), (6, 12043), (9, 12055), (Start: 12 @12067 has 35 MA's), (28, 12202), (29, 12205), (31, 12211), (32, 12214), (36, 12244), (38, 12280), (39, 12286),

Gene: Aubs_99 Start: 55520, Stop: 55762, Start Num: 13
Candidate Starts for Aubs_99:
(Start: 13 @55520 has 242 MA's), (Start: 14 @55547 has 1 MA's), (16, 55553), (23, 55634), (26, 55646), (35, 55679), (37, 55715), (41, 55742),

Gene: Awesomesauce_90 Start: 54003, Stop: 54245, Start Num: 13
Candidate Starts for Awesomesauce_90:
(Start: 13 @54003 has 242 MA's), (Start: 14 @54030 has 1 MA's), (16, 54036), (23, 54117), (26, 54129), (35, 54162),

Gene: BabeRuth_69 Start: 41878, Stop: 42123, Start Num: 10
Candidate Starts for BabeRuth_69:
(Start: 10 @41878 has 46 MA's), (16, 41917), (20, 41974),

Gene: Babsiella_74 Start: 45540, Stop: 45788, Start Num: 11
Candidate Starts for Babsiella_74:
(Start: 11 @45540 has 3 MA's), (19, 45639), (20, 45642), (22, 45663), (28, 45681), (29, 45684), (33, 45696),

Gene: Batiatus_99 Start: 54068, Stop: 54310, Start Num: 13
Candidate Starts for Batiatus_99:
(Start: 13 @54068 has 242 MA's), (Start: 14 @54095 has 1 MA's), (16, 54101), (23, 54182), (26, 54194), (35, 54227), (37, 54263), (41, 54290),

Gene: Beakin_91 Start: 51041, Stop: 51283, Start Num: 13
Candidate Starts for Beakin_91:
(Start: 13 @51041 has 242 MA's), (Start: 14 @51068 has 1 MA's), (16, 51074), (23, 51155), (26, 51167), (35, 51200), (41, 51263),

Gene: Beanstalk_99 Start: 53218, Stop: 53460, Start Num: 13
Candidate Starts for Beanstalk_99:
(Start: 13 @53218 has 242 MA's), (Start: 14 @53245 has 1 MA's), (16, 53251), (23, 53332), (26, 53344), (35, 53377), (37, 53413), (41, 53440),

Gene: BigPhil_96 Start: 50860, Stop: 51102, Start Num: 13
Candidate Starts for BigPhil_96:
(Start: 13 @50860 has 242 MA's), (Start: 14 @50887 has 1 MA's), (16, 50893), (23, 50974), (26, 50986), (35, 51019), (37, 51055), (41, 51082),

Gene: Bipolar_101 Start: 55837, Stop: 56079, Start Num: 13
Candidate Starts for Bipolar_101:
(Start: 13 @55837 has 242 MA's), (Start: 14 @55864 has 1 MA's), (16, 55870), (23, 55951), (26, 55963), (35, 55996), (37, 56032), (41, 56059),

Gene: Blessica_26 Start: 11870, Stop: 12106, Start Num: 12
Candidate Starts for Blessica_26:
(2, 11735), (6, 11846), (9, 11858), (Start: 12 @11870 has 35 MA's), (28, 12005), (29, 12008), (31, 12014), (32, 12017), (36, 12047), (38, 12083), (39, 12089),

Gene: Blexus_96 Start: 54444, Stop: 54689, Start Num: 13
Candidate Starts for Blexus_96:
(Start: 13 @54444 has 242 MA's), (Start: 14 @54471 has 1 MA's), (16, 54477), (23, 54561), (26, 54573), (35, 54606), (37, 54642), (40, 54666),

Gene: BlueCrab_102 Start: 55440, Stop: 55682, Start Num: 13
Candidate Starts for BlueCrab_102:
(Start: 13 @55440 has 242 MA's), (Start: 14 @55467 has 1 MA's), (16, 55473), (23, 55554), (25, 55563), (35, 55599), (41, 55662),

Gene: Bluvara_73 Start: 47169, Stop: 47426, Start Num: 11
Candidate Starts for Bluvara_73:
(Start: 11 @47169 has 3 MA's), (19, 47268), (20, 47271), (28, 47310), (29, 47313), (33, 47325),

Gene: BobaPhett_101 Start: 56126, Stop: 56368, Start Num: 13
Candidate Starts for BobaPhett_101:
(Start: 13 @56126 has 242 MA's), (Start: 14 @56153 has 1 MA's), (16, 56159), (23, 56240), (26, 56252), (35, 56285), (37, 56321), (41, 56348),

Gene: Bobi_101 Start: 55542, Stop: 55784, Start Num: 13
Candidate Starts for Bobi_101:
(Start: 13 @55542 has 242 MA's), (Start: 14 @55569 has 1 MA's), (16, 55575), (23, 55656), (26, 55668), (35, 55701), (37, 55737), (41, 55764),

Gene: BodEinwohner17_109 Start: 56496, Stop: 56738, Start Num: 13
Candidate Starts for BodEinwohner17_109:
(Start: 13 @56496 has 242 MA's), (Start: 14 @56523 has 1 MA's), (16, 56529), (23, 56610), (25, 56619), (35, 56655), (41, 56718),

Gene: Boomer_101 Start: 54793, Stop: 55035, Start Num: 13
Candidate Starts for Boomer_101:
(Start: 13 @54793 has 242 MA's), (Start: 14 @54820 has 1 MA's), (16, 54826), (23, 54907), (35, 54952), (41, 55015),

Gene: Bora_24 Start: 11520, Stop: 11756, Start Num: 12
Candidate Starts for Bora_24:
(6, 11496), (9, 11508), (Start: 12 @11520 has 35 MA's), (28, 11655), (29, 11658), (31, 11664), (32, 11667), (36, 11697), (38, 11733), (39, 11739),

Gene: Bosection6_65 Start: 42694, Stop: 42939, Start Num: 10
Candidate Starts for Bosection6_65:
(Start: 10 @42694 has 46 MA's), (16, 42733),

Gene: Brocalys_91 Start: 51605, Stop: 51847, Start Num: 13
Candidate Starts for Brocalys_91:
(Start: 13 @51605 has 242 MA's), (Start: 14 @51632 has 1 MA's), (16, 51638), (23, 51719), (26, 51731), (35, 51764), (37, 51800), (41, 51827),

Gene: Brookers_98 Start: 53811, Stop: 54053, Start Num: 13
Candidate Starts for Brookers_98:
(Start: 13 @53811 has 242 MA's), (Start: 14 @53838 has 1 MA's), (16, 53844), (23, 53925), (26, 53937), (35, 53970), (37, 54006), (41, 54033),

Gene: Brujita_71 Start: 44764, Stop: 45021, Start Num: 12
Candidate Starts for Brujita_71:
(Start: 12 @44764 has 35 MA's), (19, 44863), (20, 44866), (28, 44905), (29, 44908), (33, 44920),

Gene: Brushbloom_99 Start: 55112, Stop: 55354, Start Num: 13
Candidate Starts for Brushbloom_99:
(Start: 13 @55112 has 242 MA's), (Start: 14 @55139 has 1 MA's), (16, 55145), (23, 55226), (26, 55238), (35, 55271), (37, 55307), (41, 55334),

Gene: Bubbles123_93 Start: 53880, Stop: 54122, Start Num: 13
Candidate Starts for Bubbles123_93:
(Start: 13 @53880 has 242 MA's), (Start: 14 @53907 has 1 MA's), (16, 53913), (23, 53994), (26, 54006), (35, 54039), (37, 54075), (41, 54102),

Gene: Burwell21_93 Start: 53891, Stop: 54133, Start Num: 13
Candidate Starts for Burwell21_93:
(Start: 13 @53891 has 242 MA's), (Start: 14 @53918 has 1 MA's), (16, 53924), (23, 54005), (26, 54017), (35, 54050), (37, 54086), (41, 54113),

Gene: Butters_65 Start: 40786, Stop: 41031, Start Num: 10
Candidate Starts for Butters_65:
(1, 40279), (Start: 10 @40786 has 46 MA's), (16, 40825), (27, 40915),

Gene: BuzzLyseyear_106 Start: 56651, Stop: 56893, Start Num: 13
Candidate Starts for BuzzLyseyear_106:
(Start: 13 @56651 has 242 MA's), (Start: 14 @56678 has 1 MA's), (16, 56684), (23, 56765), (25, 56774), (35, 56810), (41, 56873),

Gene: ByChance_90 Start: 49963, Stop: 50205, Start Num: 13
Candidate Starts for ByChance_90:
(Start: 13 @49963 has 242 MA's), (Start: 14 @49990 has 1 MA's), (16, 49996), (23, 50077), (35, 50122), (41, 50185),

Gene: Byougenkin_96 Start: 50927, Stop: 51169, Start Num: 13
Candidate Starts for Byougenkin_96:
(Start: 13 @50927 has 242 MA's), (Start: 14 @50954 has 1 MA's), (16, 50960), (23, 51041), (24, 51044), (26, 51053), (35, 51086), (37, 51122), (40, 51146),

Gene: Cabrinians_96 Start: 53526, Stop: 53768, Start Num: 13
Candidate Starts for Cabrinians_96:
(Start: 13 @53526 has 242 MA's), (Start: 14 @53553 has 1 MA's), (16, 53559), (23, 53640), (26, 53652), (35, 53685), (37, 53721), (41, 53748),

Gene: CaptainTrips_101 Start: 53706, Stop: 53948, Start Num: 13
Candidate Starts for CaptainTrips_101:
(Start: 13 @53706 has 242 MA's), (Start: 14 @53733 has 1 MA's), (16, 53739), (23, 53820), (26, 53832), (35, 53865), (37, 53901), (41, 53928),

Gene: Carcharodon_70 Start: 42971, Stop: 43216, Start Num: 10
Candidate Starts for Carcharodon_70:
(Start: 10 @42971 has 46 MA's), (16, 43010),

Gene: Catdawg_25 Start: 11476, Stop: 11712, Start Num: 12
Candidate Starts for Catdawg_25:
(2, 11341), (6, 11452), (9, 11464), (Start: 12 @11476 has 35 MA's), (28, 11611), (29, 11614), (31, 11620), (32, 11623), (36, 11653), (38, 11689), (39, 11695),

Gene: Cerasum_98 Start: 50878, Stop: 51120, Start Num: 13
Candidate Starts for Cerasum_98:
(Start: 13 @50878 has 242 MA's), (Start: 14 @50905 has 1 MA's), (16, 50911), (23, 50992), (26, 51004), (35, 51037), (37, 51073), (41, 51100),

Gene: Charlie_67 Start: 42318, Stop: 42563, Start Num: 10
Candidate Starts for Charlie_67:
(Start: 10 @42318 has 46 MA's), (16, 42357),

Gene: Che8_106 Start: 55705, Stop: 55971, Start Num: 13
Candidate Starts for Che8_106:
(Start: 13 @55705 has 242 MA's), (Start: 14 @55732 has 1 MA's), (16, 55738), (23, 55819), (35, 55864),

Gene: Cheesepuff_104 Start: 53887, Stop: 54129, Start Num: 13
Candidate Starts for Cheesepuff_104:
(Start: 13 @53887 has 242 MA's), (Start: 14 @53914 has 1 MA's), (16, 53920), (23, 54001), (35, 54046), (41, 54109),

Gene: Chevrolet_103 Start: 54881, Stop: 55147, Start Num: 13
Candidate Starts for Chevrolet_103:
(Start: 13 @54881 has 242 MA's), (Start: 14 @54908 has 1 MA's), (16, 54914), (23, 54995), (26, 55007), (35, 55040),

Gene: Chewbacca_73 Start: 42866, Stop: 43111, Start Num: 10
Candidate Starts for Chewbacca_73:
(Start: 10 @42866 has 46 MA's), (16, 42905),

Gene: ChickenDinner_90 Start: 53767, Stop: 54009, Start Num: 13
Candidate Starts for ChickenDinner_90:
(Start: 13 @53767 has 242 MA's), (Start: 14 @53794 has 1 MA's), (16, 53800), (23, 53881), (26, 53893), (35, 53926),

Gene: Chuckly_96 Start: 50748, Stop: 50990, Start Num: 13
Candidate Starts for Chuckly_96:
(Start: 13 @50748 has 242 MA's), (Start: 14 @50775 has 1 MA's), (16, 50781), (23, 50862), (26, 50874), (35, 50907), (37, 50943), (41, 50970),

Gene: Clank_97 Start: 51709, Stop: 52014, Start Num: 14
Candidate Starts for Clank_97:
(Start: 14 @51709 has 1 MA's), (21, 51799), (30, 51853), (34, 51871), (42, 51982),

Gene: Clifton_91 Start: 52580, Stop: 52822, Start Num: 13
Candidate Starts for Clifton_91:
(Start: 13 @52580 has 242 MA's), (Start: 14 @52607 has 1 MA's), (16, 52613), (23, 52694), (26, 52706), (35, 52739), (37, 52775), (41, 52802),

Gene: Coco12_100 Start: 54935, Stop: 55177, Start Num: 13
Candidate Starts for Coco12_100:
(Start: 13 @54935 has 242 MA's), (Start: 14 @54962 has 1 MA's), (16, 54968), (23, 55049), (26, 55061), (35, 55094), (37, 55130), (41, 55157),

Gene: Corium_98 Start: 55735, Stop: 55977, Start Num: 13
Candidate Starts for Corium_98:
(Start: 13 @55735 has 242 MA's), (Start: 14 @55762 has 1 MA's), (16, 55768), (23, 55849), (26, 55861), (35, 55894), (37, 55930), (41, 55957),

Gene: Corndog_28 Start: 12146, Stop: 12382, Start Num: 12
Candidate Starts for Corndog_28:
(2, 12011), (6, 12122), (9, 12134), (Start: 12 @12146 has 35 MA's), (28, 12281), (29, 12284), (31, 12290), (32, 12293), (36, 12323), (38, 12359), (39, 12365),

Gene: Cornie_97 Start: 53611, Stop: 53871, Start Num: 8
Candidate Starts for Cornie_97:
(4, 53566), (Start: 8 @53611 has 1 MA's), (Start: 14 @53644 has 1 MA's), (15, 53647), (16, 53650), (21, 53722), (23, 53743), (26, 53755), (28, 53761), (29, 53764), (35, 53788), (37, 53824), (41, 53851),

Gene: Cornucopia_99 Start: 52006, Stop: 52248, Start Num: 13
Candidate Starts for Cornucopia_99:
(Start: 13 @52006 has 242 MA's), (Start: 14 @52033 has 1 MA's), (16, 52039), (23, 52120), (26, 52132), (35, 52165), (37, 52201), (41, 52228),

Gene: Crumble_94 Start: 50274, Stop: 50516, Start Num: 13
Candidate Starts for Crumble_94:
(Start: 13 @50274 has 242 MA's), (Start: 14 @50301 has 1 MA's), (16, 50307), (23, 50388), (26, 50400), (35, 50433), (41, 50496),

Gene: Cubone_73 Start: 43593, Stop: 43838, Start Num: 10
Candidate Starts for Cubone_73:
(Start: 10 @43593 has 46 MA's), (16, 43632),

Gene: DLane_99 Start: 54988, Stop: 55230, Start Num: 13
Candidate Starts for DLane_99:
(Start: 13 @54988 has 242 MA's), (Start: 14 @55015 has 1 MA's), (16, 55021), (23, 55102), (26, 55114), (35, 55147), (37, 55183), (41, 55210),

Gene: DRBy19_99 Start: 55207, Stop: 55449, Start Num: 13
Candidate Starts for DRBy19_99:
(Start: 13 @55207 has 242 MA's), (Start: 14 @55234 has 1 MA's), (16, 55240), (23, 55321), (35, 55366), (41, 55429),

Gene: DaWorst_99 Start: 53822, Stop: 54064, Start Num: 13
Candidate Starts for DaWorst_99:
(Start: 13 @53822 has 242 MA's), (Start: 14 @53849 has 1 MA's), (16, 53855), (23, 53936), (35, 53981), (41, 54044),

Gene: DaddyRickover_101 Start: 54690, Stop: 54932, Start Num: 13
Candidate Starts for DaddyRickover_101:
(Start: 13 @54690 has 242 MA's), (Start: 14 @54717 has 1 MA's), (16, 54723), (23, 54804), (25, 54813), (35, 54849), (41, 54912),

Gene: Daenerys_97 Start: 54857, Stop: 55099, Start Num: 13
Candidate Starts for Daenerys_97:
(Start: 13 @54857 has 242 MA's), (Start: 14 @54884 has 1 MA's), (16, 54890), (23, 54971), (25, 54980), (35, 55016), (41, 55079),

Gene: Dante_97 Start: 55338, Stop: 55580, Start Num: 13
Candidate Starts for Dante_97:
(Start: 13 @55338 has 242 MA's), (Start: 14 @55365 has 1 MA's), (16, 55371), (23, 55452), (26, 55464), (35, 55497), (37, 55533), (41, 55560),

Gene: DeadP_99 Start: 52566, Stop: 52808, Start Num: 13
Candidate Starts for DeadP_99:
(Start: 13 @52566 has 242 MA's), (Start: 14 @52593 has 1 MA's), (16, 52599), (23, 52680), (26, 52692), (35, 52725), (37, 52761), (41, 52788),

Gene: Deb65_92 Start: 52581, Stop: 52823, Start Num: 13
Candidate Starts for Deb65_92:
(Start: 13 @52581 has 242 MA's), (Start: 14 @52608 has 1 MA's), (16, 52614), (23, 52695), (25, 52704), (35, 52740), (41, 52803),

Gene: DillTech15_105 Start: 54163, Stop: 54405, Start Num: 13
Candidate Starts for DillTech15_105:
(Start: 13 @54163 has 242 MA's), (Start: 14 @54190 has 1 MA's), (16, 54196), (23, 54277), (35, 54322), (41, 54385),

Gene: DirtMcgirt_100 Start: 51403, Stop: 51645, Start Num: 13
Candidate Starts for DirtMcgirt_100:
(Start: 13 @51403 has 242 MA's), (Start: 14 @51430 has 1 MA's), (16, 51436), (23, 51517), (25, 51526), (35, 51562), (41, 51625),

Gene: DoRead_101 Start: 52479, Stop: 52721, Start Num: 13
Candidate Starts for DoRead_101:
(Start: 13 @52479 has 242 MA's), (Start: 14 @52506 has 1 MA's), (16, 52512), (23, 52593), (35, 52638), (40, 52698),

Gene: DocMcStuffins_87 Start: 55397, Stop: 55639, Start Num: 13
Candidate Starts for DocMcStuffins_87:
(Start: 13 @55397 has 242 MA's), (Start: 14 @55424 has 1 MA's), (16, 55430), (23, 55511), (26, 55523), (35, 55556),

Gene: Donkeykong_105 Start: 56323, Stop: 56565, Start Num: 13
Candidate Starts for Donkeykong_105:
(Start: 13 @56323 has 242 MA's), (Start: 14 @56350 has 1 MA's), (16, 56356), (23, 56437), (35, 56482), (41, 56545),

Gene: Doomphist_104 Start: 55510, Stop: 55752, Start Num: 13
Candidate Starts for Doomphist_104:
(Start: 13 @55510 has 242 MA's), (Start: 14 @55537 has 1 MA's), (16, 55543), (23, 55624), (25, 55633), (35, 55669), (41, 55732),

Gene: Doomslug_117 Start: 57037, Stop: 57279, Start Num: 13
Candidate Starts for Doomslug_117:
(Start: 13 @57037 has 242 MA's), (Start: 14 @57064 has 1 MA's), (16, 57070), (23, 57151), (26, 57163), (35, 57196), (37, 57232), (41, 57259),

Gene: Dorothy_100 Start: 55679, Stop: 55921, Start Num: 13
Candidate Starts for Dorothy_100:
(Start: 13 @55679 has 242 MA's), (Start: 14 @55706 has 1 MA's), (16, 55712), (23, 55793), (25, 55802), (35, 55838), (41, 55901),

Gene: DosHalletts_96 Start: 54328, Stop: 54570, Start Num: 13
Candidate Starts for DosHalletts_96:
(Start: 13 @54328 has 242 MA's), (Start: 14 @54355 has 1 MA's), (16, 54361), (23, 54442), (26, 54454), (35, 54487), (37, 54523), (41, 54550),

Gene: DotProduct_93 Start: 51695, Stop: 51937, Start Num: 13
Candidate Starts for DotProduct_93:

(Start: 13 @51695 has 242 MA's), (Start: 14 @51722 has 1 MA's), (16, 51728), (23, 51809), (26, 51821), (35, 51854), (37, 51890), (41, 51917),

Gene: Doug_96 Start: 55242, Stop: 55484, Start Num: 13
Candidate Starts for Doug_96:
(Start: 13 @55242 has 242 MA's), (Start: 14 @55269 has 1 MA's), (16, 55275), (23, 55356), (25, 55365), (35, 55401), (41, 55464),

Gene: Drago_98 Start: 51406, Stop: 51648, Start Num: 13
Candidate Starts for Drago_98:
(Start: 13 @51406 has 242 MA's), (Start: 14 @51433 has 1 MA's), (16, 51439), (23, 51520), (35, 51565), (41, 51628),

Gene: Duplicity_69 Start: 42228, Stop: 42473, Start Num: 10
Candidate Starts for Duplicity_69:
(Start: 10 @42228 has 46 MA's), (16, 42267),

Gene: Dylan_25 Start: 11872, Stop: 12108, Start Num: 12
Candidate Starts for Dylan_25:
(2, 11737), (6, 11848), (9, 11860), (Start: 12 @11872 has 35 MA's), (28, 12007), (29, 12010), (31, 12016), (32, 12019), (36, 12049), (38, 12085), (39, 12091),

Gene: EGUnicorn_65 Start: 41294, Stop: 41539, Start Num: 10
Candidate Starts for EGUnicorn_65:
(Start: 10 @41294 has 46 MA's), (16, 41333),

Gene: Eish_104 Start: 55004, Stop: 55246, Start Num: 13
Candidate Starts for Eish_104:
(Start: 13 @55004 has 242 MA's), (Start: 14 @55031 has 1 MA's), (16, 55037), (23, 55118), (26, 55130), (35, 55163), (37, 55199), (41, 55226),

Gene: EleanorGeorge_103 Start: 56271, Stop: 56537, Start Num: 13
Candidate Starts for EleanorGeorge_103:
(Start: 13 @56271 has 242 MA's), (Start: 14 @56298 has 1 MA's), (16, 56304), (23, 56385), (26, 56397), (35, 56430),

Gene: EmiMonkey_88 Start: 55438, Stop: 55680, Start Num: 13
Candidate Starts for EmiMonkey_88:
(Start: 13 @55438 has 242 MA's), (Start: 14 @55465 has 1 MA's), (16, 55471), (23, 55552), (24, 55555), (26, 55564), (35, 55597), (37, 55633), (40, 55657),

Gene: Emma_104 Start: 53272, Stop: 53514, Start Num: 13
Candidate Starts for Emma_104:
(Start: 13 @53272 has 242 MA's), (Start: 14 @53299 has 1 MA's), (16, 53305), (23, 53386), (26, 53398), (35, 53431), (37, 53467), (41, 53494),

Gene: Emmaloid_102 Start: 54192, Stop: 54434, Start Num: 13
Candidate Starts for Emmaloid_102:
(Start: 13 @54192 has 242 MA's), (Start: 14 @54219 has 1 MA's), (16, 54225), (23, 54306), (26, 54318), (35, 54351), (37, 54387),

Gene: Empress_99 Start: 53773, Stop: 54015, Start Num: 13
Candidate Starts for Empress_99:

(Start: 13 @53773 has 242 MA's), (Start: 14 @53800 has 1 MA's), (16, 53806), (23, 53887), (25, 53896), (35, 53932), (41, 53995),

Gene: Enby_103 Start: 51682, Stop: 51924, Start Num: 13
Candidate Starts for Enby_103:
(Start: 13 @51682 has 242 MA's), (Start: 14 @51709 has 1 MA's), (16, 51715), (23, 51796), (35, 51841), (41, 51904),

Gene: Enzomatic_112 Start: 53598, Stop: 53840, Start Num: 13
Candidate Starts for Enzomatic_112:
(Start: 13 @53598 has 242 MA's), (Start: 14 @53625 has 1 MA's), (16, 53631), (23, 53712), (24, 53715), (26, 53724), (35, 53757), (37, 53793), (40, 53817),

Gene: Eradicator_91 Start: 52543, Stop: 52785, Start Num: 13
Candidate Starts for Eradicator_91:
(Start: 13 @52543 has 242 MA's), (Start: 14 @52570 has 1 MA's), (16, 52576), (23, 52657), (25, 52666), (35, 52702), (41, 52765),

Gene: Estave1_107 Start: 57566, Stop: 57808, Start Num: 13
Candidate Starts for Estave1_107:
(Start: 13 @57566 has 242 MA's), (Start: 14 @57593 has 1 MA's), (16, 57599), (23, 57680), (35, 57725), (41, 57788),

Gene: Familton_26 Start: 11477, Stop: 11713, Start Num: 12
Candidate Starts for Familton_26:
(2, 11342), (6, 11453), (9, 11465), (Start: 12 @11477 has 35 MA's), (28, 11612), (29, 11615), (31, 11621), (32, 11624), (36, 11654), (38, 11690), (39, 11696),

Gene: Fancypants_106 Start: 57072, Stop: 57314, Start Num: 13
Candidate Starts for Fancypants_106:
(Start: 13 @57072 has 242 MA's), (Start: 14 @57099 has 1 MA's), (16, 57105), (23, 57186), (35, 57231), (41, 57294),

Gene: Fastidio_103 Start: 52140, Stop: 52445, Start Num: 14
Candidate Starts for Fastidio_103:
(Start: 14 @52140 has 1 MA's), (21, 52230), (30, 52284), (34, 52302), (42, 52413),

Gene: Filuzino_99 Start: 55683, Stop: 55925, Start Num: 13
Candidate Starts for Filuzino_99:
(Start: 13 @55683 has 242 MA's), (Start: 14 @55710 has 1 MA's), (16, 55716), (23, 55797), (26, 55809), (35, 55842), (37, 55878), (41, 55905),

Gene: Firecracker_26 Start: 11770, Stop: 12006, Start Num: 12
Candidate Starts for Firecracker_26:
(2, 11635), (6, 11746), (9, 11758), (Start: 12 @11770 has 35 MA's), (28, 11905), (29, 11908), (31, 11914), (32, 11917), (36, 11947), (38, 11983), (39, 11989),

Gene: Firehouse51_93 Start: 54500, Stop: 54742, Start Num: 13
Candidate Starts for Firehouse51_93:
(Start: 13 @54500 has 242 MA's), (Start: 14 @54527 has 1 MA's), (16, 54533), (23, 54614), (24, 54617), (26, 54626), (35, 54659), (37, 54695), (40, 54719),

Gene: Flathead_101 Start: 54004, Stop: 54246, Start Num: 13

Candidate Starts for Flathead_101:
(Start: 13 @54004 has 242 MA's), (Start: 14 @54031 has 1 MA's), (16, 54037), (23, 54118), (26, 54130), (35, 54163), (37, 54199), (41, 54226),

Gene: Florinda_111 Start: 56089, Stop: 56331, Start Num: 13
Candidate Starts for Florinda_111:
(Start: 13 @56089 has 242 MA's), (Start: 14 @56116 has 1 MA's), (16, 56122), (23, 56203), (26, 56215), (35, 56248), (40, 56308), (41, 56311),

Gene: FoulBall_25 Start: 11477, Stop: 11713, Start Num: 12
Candidate Starts for FoulBall_25:
(2, 11342), (6, 11453), (9, 11465), (Start: 12 @11477 has 35 MA's), (28, 11612), (29, 11615), (31, 11621), (32, 11624), (36, 11654), (38, 11690), (39, 11696),

Gene: Frankie_99 Start: 53912, Stop: 54154, Start Num: 13
Candidate Starts for Frankie_99:
(Start: 13 @53912 has 242 MA's), (Start: 14 @53939 has 1 MA's), (16, 53945), (23, 54026), (26, 54038), (35, 54071), (37, 54107), (41, 54134),

Gene: FreddyB_109 Start: 55172, Stop: 55414, Start Num: 13
Candidate Starts for FreddyB_109:
(Start: 13 @55172 has 242 MA's), (Start: 14 @55199 has 1 MA's), (16, 55205), (23, 55286), (26, 55298), (35, 55331), (37, 55367), (41, 55394),

Gene: Fruitloop_97 Start: 54848, Stop: 55090, Start Num: 13
Candidate Starts for Fruitloop_97:
(Start: 13 @54848 has 242 MA's), (Start: 14 @54875 has 1 MA's), (16, 54881), (23, 54962), (26, 54974), (35, 55007), (37, 55043), (41, 55070),

Gene: Fulbright_69 Start: 41687, Stop: 41932, Start Num: 10
Candidate Starts for Fulbright_69:
(Start: 10 @41687 has 46 MA's), (16, 41726),

Gene: GUmbie_98 Start: 53709, Stop: 53951, Start Num: 13
Candidate Starts for GUmbie_98:
(Start: 13 @53709 has 242 MA's), (Start: 14 @53736 has 1 MA's), (16, 53742), (23, 53823), (35, 53868), (41, 53931),

Gene: Galactic_103 Start: 54132, Stop: 54398, Start Num: 13
Candidate Starts for Galactic_103:
(Start: 13 @54132 has 242 MA's), (Start: 14 @54159 has 1 MA's), (16, 54165), (23, 54246), (26, 54258), (35, 54291),

Gene: Gandalph_99 Start: 51815, Stop: 52057, Start Num: 13
Candidate Starts for Gandalph_99:
(Start: 13 @51815 has 242 MA's), (Start: 14 @51842 has 1 MA's), (16, 51848), (23, 51929), (25, 51938), (35, 51974), (41, 52037),

Gene: Geralt_92 Start: 52579, Stop: 52821, Start Num: 13
Candidate Starts for Geralt_92:
(Start: 13 @52579 has 242 MA's), (Start: 14 @52606 has 1 MA's), (16, 52612), (23, 52693), (25, 52702), (35, 52738), (41, 52801),

Gene: GigiOuiOui_94 Start: 52712, Stop: 52954, Start Num: 13
Candidate Starts for GigiOuiOui_94:
(Start: 13 @52712 has 242 MA's), (Start: 14 @52739 has 1 MA's), (16, 52745), (23, 52826), (35, 52871), (41, 52934),

Gene: Girafales_108 Start: 55694, Stop: 55936, Start Num: 13
Candidate Starts for Girafales_108:
(Start: 13 @55694 has 242 MA's), (Start: 14 @55721 has 1 MA's), (16, 55727), (23, 55808), (26, 55820), (35, 55853), (40, 55913), (41, 55916),

Gene: Girr_98 Start: 54578, Stop: 54820, Start Num: 13
Candidate Starts for Girr_98:
(Start: 13 @54578 has 242 MA's), (Start: 14 @54605 has 1 MA's), (16, 54611), (23, 54692), (25, 54701), (35, 54737), (37, 54773), (41, 54800),

Gene: Gorge_98 Start: 54799, Stop: 55041, Start Num: 13
Candidate Starts for Gorge_98:
(Start: 13 @54799 has 242 MA's), (Start: 14 @54826 has 1 MA's), (16, 54832), (23, 54913), (35, 54958), (41, 55021),

Gene: Grimmer_104 Start: 54156, Stop: 54398, Start Num: 13
Candidate Starts for Grimmer_104:
(Start: 13 @54156 has 242 MA's), (Start: 14 @54183 has 1 MA's), (16, 54189), (23, 54270), (35, 54315), (41, 54378),

Gene: Guppsters_94 Start: 51689, Stop: 51931, Start Num: 13
Candidate Starts for Guppsters_94:
(Start: 13 @51689 has 242 MA's), (Start: 14 @51716 has 1 MA's), (16, 51722), (23, 51803), (26, 51815), (35, 51848), (37, 51884), (41, 51911),

Gene: HC_75 Start: 44013, Stop: 44270, Start Num: 12
Candidate Starts for HC_75:
(Start: 12 @44013 has 35 MA's), (Start: 14 @44046 has 1 MA's), (19, 44112), (20, 44115), (28, 44154), (29, 44157), (33, 44169),

Gene: Hades_96 Start: 51298, Stop: 51564, Start Num: 13
Candidate Starts for Hades_96:
(Start: 13 @51298 has 242 MA's), (Start: 14 @51325 has 1 MA's), (16, 51331), (23, 51412), (26, 51424), (35, 51457),

Gene: Hamulus_99 Start: 53533, Stop: 53775, Start Num: 13
Candidate Starts for Hamulus_99:
(Start: 13 @53533 has 242 MA's), (Start: 14 @53560 has 1 MA's), (16, 53566), (23, 53647), (26, 53659), (35, 53692), (37, 53728), (41, 53755),

Gene: Hanako_68 Start: 41878, Stop: 42123, Start Num: 10
Candidate Starts for Hanako_68:
(Start: 10 @41878 has 46 MA's), (16, 41917), (20, 41974),

Gene: Harley_101 Start: 54705, Stop: 54947, Start Num: 13
Candidate Starts for Harley_101:
(Start: 13 @54705 has 242 MA's), (Start: 14 @54732 has 1 MA's), (16, 54738), (23, 54819), (24, 54822), (26, 54831), (35, 54864), (37, 54900), (40, 54924),

Gene: Hegedechwinu_107 Start: 54069, Stop: 54311, Start Num: 13
Candidate Starts for Hegedechwinu_107:
(Start: 13 @54069 has 242 MA's), (Start: 14 @54096 has 1 MA's), (16, 54102), (23, 54183), (26, 54195), (35, 54228), (37, 54264), (41, 54291),

Gene: Hlubikazi_97 Start: 52312, Stop: 52554, Start Num: 13
Candidate Starts for Hlubikazi_97:
(Start: 13 @52312 has 242 MA's), (Start: 14 @52339 has 1 MA's), (16, 52345), (23, 52426), (26, 52438), (35, 52471), (37, 52507), (41, 52534),

Gene: IMpilo_97 Start: 52311, Stop: 52553, Start Num: 13
Candidate Starts for IMpilo_97:
(Start: 13 @52311 has 242 MA's), (Start: 14 @52338 has 1 MA's), (16, 52344), (23, 52425), (26, 52437), (35, 52470), (37, 52506), (41, 52533),

Gene: IbOuu_90 Start: 51675, Stop: 51917, Start Num: 13
Candidate Starts for IbOuu_90:
(Start: 13 @51675 has 242 MA's), (Start: 14 @51702 has 1 MA's), (16, 51708), (23, 51789), (26, 51801), (35, 51834), (37, 51870), (41, 51897),

Gene: Ibhubesi_96 Start: 51574, Stop: 51816, Start Num: 13
Candidate Starts for Ibhubesi_96:
(Start: 13 @51574 has 242 MA's), (Start: 14 @51601 has 1 MA's), (16, 51607), (23, 51688), (24, 51691), (26, 51700), (35, 51733), (37, 51769), (40, 51793),

Gene: Idergollasper_25 Start: 11477, Stop: 11713, Start Num: 12
Candidate Starts for Idergollasper_25:
(2, 11342), (6, 11453), (9, 11465), (Start: 12 @11477 has 35 MA's), (28, 11612), (29, 11615), (31, 11621), (32, 11624), (36, 11654), (38, 11690), (39, 11696),

Gene: Imara_26 Start: 11730, Stop: 11966, Start Num: 12
Candidate Starts for Imara_26:
(2, 11595), (6, 11706), (9, 11718), (Start: 12 @11730 has 35 MA's), (28, 11865), (29, 11868), (31, 11874), (32, 11877), (36, 11907), (38, 11943), (39, 11949),

Gene: Impisi_69 Start: 41334, Stop: 41579, Start Num: 10
Candidate Starts for Impisi_69:
(Start: 10 @41334 has 46 MA's), (16, 41373),

Gene: Inventum_97 Start: 53867, Stop: 54109, Start Num: 13
Candidate Starts for Inventum_97:
(Start: 13 @53867 has 242 MA's), (Start: 14 @53894 has 1 MA's), (16, 53900), (23, 53981), (25, 53990), (35, 54026), (41, 54089),

Gene: IrishSherpFalk_99 Start: 54202, Stop: 54444, Start Num: 13
Candidate Starts for IrishSherpFalk_99:
(Start: 13 @54202 has 242 MA's), (16, 54235), (23, 54316), (25, 54325), (35, 54361), (40, 54421),

Gene: Island3_73 Start: 44994, Stop: 45251, Start Num: 12
Candidate Starts for Island3_73:
(Start: 12 @44994 has 35 MA's), (19, 45093), (20, 45096), (28, 45135), (29, 45138), (33, 45150),

Gene: JalFarm20_108 Start: 56010, Stop: 56252, Start Num: 13
Candidate Starts for JalFarm20_108:
(Start: 13 @56010 has 242 MA's), (Start: 14 @56037 has 1 MA's), (16, 56043), (23, 56124), (26, 56136), (35, 56169), (41, 56232),

Gene: James_103 Start: 56181, Stop: 56423, Start Num: 13
Candidate Starts for James_103:
(Start: 13 @56181 has 242 MA's), (Start: 14 @56208 has 1 MA's), (16, 56214), (23, 56295), (26, 56307), (35, 56340), (37, 56376), (41, 56403),

Gene: Jamie19_64 Start: 40560, Stop: 40805, Start Num: 10
Candidate Starts for Jamie19_64:
(Start: 10 @40560 has 46 MA's), (16, 40599),

Gene: JangDynasty_25 Start: 11566, Stop: 11802, Start Num: 12
Candidate Starts for JangDynasty_25:
(2, 11431), (6, 11542), (9, 11554), (Start: 12 @11566 has 35 MA's), (28, 11701), (29, 11704), (31, 11710), (32, 11713), (36, 11743), (38, 11779), (39, 11785),

Gene: Jant_106 Start: 53496, Stop: 53738, Start Num: 13
Candidate Starts for Jant_106:
(Start: 13 @53496 has 242 MA's), (Start: 14 @53523 has 1 MA's), (16, 53529), (23, 53610), (26, 53622), (35, 53655), (37, 53691), (41, 53718),

Gene: Jarcob_102 Start: 55780, Stop: 56022, Start Num: 13
Candidate Starts for Jarcob_102:
(Start: 13 @55780 has 242 MA's), (Start: 14 @55807 has 1 MA's), (16, 55813), (23, 55894), (35, 55939), (41, 56002),

Gene: Jennelsea_97 Start: 53081, Stop: 53323, Start Num: 13
Candidate Starts for Jennelsea_97:
(Start: 13 @53081 has 242 MA's), (Start: 14 @53108 has 1 MA's), (16, 53114), (23, 53195), (26, 53207), (35, 53240), (37, 53276), (41, 53303),

Gene: Jinglebell_106 Start: 55457, Stop: 55699, Start Num: 13
Candidate Starts for Jinglebell_106:
(Start: 13 @55457 has 242 MA's), (Start: 14 @55484 has 1 MA's), (16, 55490), (23, 55571), (26, 55583), (35, 55616), (37, 55652), (41, 55679),

Gene: Job42_100 Start: 56355, Stop: 56597, Start Num: 13
Candidate Starts for Job42_100:
(Start: 13 @56355 has 242 MA's), (Start: 14 @56382 has 1 MA's), (16, 56388), (23, 56469), (25, 56478), (35, 56514), (40, 56574), (41, 56577),

Gene: JoeyJr_102 Start: 55775, Stop: 56017, Start Num: 13
Candidate Starts for JoeyJr_102:
(Start: 13 @55775 has 242 MA's), (Start: 14 @55802 has 1 MA's), (16, 55808), (23, 55889), (25, 55898), (35, 55934), (41, 55997),

Gene: Journey_63 Start: 41277, Stop: 41522, Start Num: 10
Candidate Starts for Journey_63:
(Start: 10 @41277 has 46 MA's), (16, 41316),

Gene: Juice456_98 Start: 53485, Stop: 53727, Start Num: 13
Candidate Starts for Juice456_98:
(Start: 13 @53485 has 242 MA's), (Start: 14 @53512 has 1 MA's), (16, 53518), (23, 53599), (35, 53644), (41, 53707),

Gene: Juniper1_91 Start: 52472, Stop: 52714, Start Num: 13
Candidate Starts for Juniper1_91:
(Start: 13 @52472 has 242 MA's), (Start: 14 @52499 has 1 MA's), (16, 52505), (23, 52586), (35, 52631), (37, 52667), (40, 52691),

Gene: Karhdo_94 Start: 51944, Stop: 52186, Start Num: 13
Candidate Starts for Karhdo_94:
(Start: 13 @51944 has 242 MA's), (Start: 14 @51971 has 1 MA's), (16, 51977), (23, 52058), (26, 52070), (35, 52103), (37, 52139), (41, 52166),

Gene: Kenuha5_91 Start: 53357, Stop: 53599, Start Num: 13
Candidate Starts for Kenuha5_91:
(Start: 13 @53357 has 242 MA's), (Start: 14 @53384 has 1 MA's), (16, 53390), (23, 53471), (26, 53483), (35, 53516), (37, 53552), (41, 53579),

Gene: Kersh_102 Start: 56526, Stop: 56768, Start Num: 13
Candidate Starts for Kersh_102:
(Start: 13 @56526 has 242 MA's), (Start: 14 @56553 has 1 MA's), (16, 56559), (23, 56640), (24, 56643), (26, 56652), (35, 56685), (37, 56721), (40, 56745),

Gene: Kevin1_68 Start: 41283, Stop: 41528, Start Num: 10
Candidate Starts for Kevin1_68:
(Start: 10 @41283 has 46 MA's), (16, 41322), (27, 41412),

Gene: Kimberlium_101 Start: 53585, Stop: 53827, Start Num: 13
Candidate Starts for Kimberlium_101:
(Start: 13 @53585 has 242 MA's), (Start: 14 @53612 has 1 MA's), (16, 53618), (23, 53699), (35, 53744), (41, 53807),

Gene: KingJulian_107 Start: 56599, Stop: 56841, Start Num: 13
Candidate Starts for KingJulian_107:
(Start: 13 @56599 has 242 MA's), (Start: 14 @56626 has 1 MA's), (16, 56632), (23, 56713), (26, 56725), (35, 56758), (37, 56794), (41, 56821),

Gene: KingMidas_99 Start: 54004, Stop: 54246, Start Num: 13
Candidate Starts for KingMidas_99:
(Start: 13 @54004 has 242 MA's), (Start: 14 @54031 has 1 MA's), (16, 54037), (23, 54118), (25, 54127), (35, 54163), (41, 54226),

Gene: KingPhillip3_25 Start: 11477, Stop: 11713, Start Num: 12
Candidate Starts for KingPhillip3_25:
(2, 11342), (6, 11453), (9, 11465), (Start: 12 @11477 has 35 MA's), (28, 11612), (29, 11615), (31, 11621), (32, 11624), (36, 11654), (38, 11690), (39, 11696),

Gene: Kingsley_108 Start: 57542, Stop: 57784, Start Num: 13
Candidate Starts for Kingsley_108:
(Start: 13 @57542 has 242 MA's), (Start: 14 @57569 has 1 MA's), (16, 57575), (23, 57656), (26, 57668), (35, 57701), (37, 57737), (41, 57764),

Gene: Koella_92 Start: 50943, Stop: 51185, Start Num: 13
Candidate Starts for Koella_92:
(Start: 13 @50943 has 242 MA's), (Start: 14 @50970 has 1 MA's), (16, 50976), (23, 51057), (26, 51069), (35, 51102), (37, 51138), (41, 51165),

Gene: Krakatau_92 Start: 49902, Stop: 50144, Start Num: 13
Candidate Starts for Krakatau_92:
(Start: 13 @49902 has 242 MA's), (Start: 14 @49929 has 1 MA's), (16, 49935), (23, 50016), (35, 50061), (41, 50124),

Gene: Krili_26 Start: 11836, Stop: 12072, Start Num: 12
Candidate Starts for Krili_26:
(2, 11701), (6, 11812), (9, 11824), (Start: 12 @11836 has 35 MA's), (28, 11971), (29, 11974), (31, 11980), (32, 11983), (36, 12013), (38, 12049), (39, 12055),

Gene: KristaRAM_107 Start: 55265, Stop: 55507, Start Num: 13
Candidate Starts for KristaRAM_107:
(Start: 13 @55265 has 242 MA's), (Start: 14 @55292 has 1 MA's), (16, 55298), (23, 55379), (26, 55391), (35, 55424), (37, 55460), (41, 55487),

Gene: LastJedi_90 Start: 52000, Stop: 52242, Start Num: 13
Candidate Starts for LastJedi_90:
(Start: 13 @52000 has 242 MA's), (Start: 14 @52027 has 1 MA's), (16, 52033), (23, 52114), (26, 52126), (35, 52159), (37, 52195), (41, 52222),

Gene: Latretium_102 Start: 55046, Stop: 55288, Start Num: 13
Candidate Starts for Latretium_102:
(Start: 13 @55046 has 242 MA's), (16, 55079), (23, 55160), (25, 55169), (35, 55205), (41, 55268),

Gene: Leozinho_96 Start: 51523, Stop: 51765, Start Num: 13
Candidate Starts for Leozinho_96:
(Start: 13 @51523 has 242 MA's), (Start: 14 @51550 has 1 MA's), (16, 51556), (23, 51637), (35, 51682), (41, 51745),

Gene: Leperchaun_101 Start: 55009, Stop: 55251, Start Num: 13
Candidate Starts for Leperchaun_101:
(Start: 13 @55009 has 242 MA's), (Start: 14 @55036 has 1 MA's), (16, 55042), (23, 55123), (25, 55132), (35, 55168), (41, 55231),

Gene: LilMoolah_102 Start: 54980, Stop: 55222, Start Num: 13
Candidate Starts for LilMoolah_102:
(Start: 13 @54980 has 242 MA's), (Start: 14 @55007 has 1 MA's), (16, 55013), (23, 55094), (35, 55139), (41, 55202),

Gene: LittleShirley_107 Start: 55377, Stop: 55619, Start Num: 13
Candidate Starts for LittleShirley_107:
(Start: 13 @55377 has 242 MA's), (Start: 14 @55404 has 1 MA's), (16, 55410), (23, 55491), (26, 55503), (35, 55536), (37, 55572), (41, 55599),

Gene: Lizziana_100 Start: 55248, Stop: 55490, Start Num: 13
Candidate Starts for Lizziana_100:

(Start: 13 @55248 has 242 MA's), (Start: 14 @55275 has 1 MA's), (16, 55281), (23, 55362), (26, 55374), (35, 55407), (37, 55443), (41, 55470),

Gene: Llama_106 Start: 55100, Stop: 55342, Start Num: 13
Candidate Starts for Llama_106:
(Start: 13 @55100 has 242 MA's), (Start: 14 @55127 has 1 MA's), (16, 55133), (23, 55214), (24, 55217), (26, 55226), (35, 55259), (37, 55295), (40, 55319),

Gene: Llij_94 Start: 52931, Stop: 53173, Start Num: 13
Candidate Starts for Llij_94:
(Start: 13 @52931 has 242 MA's), (Start: 14 @52958 has 1 MA's), (16, 52964), (23, 53045), (35, 53090), (41, 53153),

Gene: LordVader_88 Start: 50847, Stop: 51089, Start Num: 13
Candidate Starts for LordVader_88:
(Start: 13 @50847 has 242 MA's), (Start: 14 @50874 has 1 MA's), (16, 50880), (23, 50961), (26, 50973), (35, 51006),

Gene: Lorde_102 Start: 50847, Stop: 51089, Start Num: 13
Candidate Starts for Lorde_102:
(Start: 13 @50847 has 242 MA's), (Start: 14 @50874 has 1 MA's), (16, 50880), (23, 50961), (35, 51006), (41, 51069),

Gene: Lucia_99 Start: 51695, Stop: 51937, Start Num: 13
Candidate Starts for Lucia_99:
(Start: 13 @51695 has 242 MA's), (Start: 14 @51722 has 1 MA's), (16, 51728), (23, 51809), (35, 51854), (41, 51917),

Gene: LunaBlu_106 Start: 55618, Stop: 55860, Start Num: 13
Candidate Starts for LunaBlu_106:
(Start: 13 @55618 has 242 MA's), (Start: 14 @55645 has 1 MA's), (16, 55651), (23, 55732), (24, 55735), (26, 55744), (35, 55777), (37, 55813), (40, 55837),

Gene: LunaStella_97 Start: 52426, Stop: 52686, Start Num: 7
Candidate Starts for LunaStella_97:
(3, 52384), (Start: 7 @52426 has 4 MA's), (15, 52462), (16, 52465), (18, 52528), (23, 52558), (26, 52570), (29, 52579), (32, 52588), (35, 52603),

Gene: MadKillah_27 Start: 11869, Stop: 12105, Start Num: 12
Candidate Starts for MadKillah_27:
(2, 11734), (6, 11845), (9, 11857), (Start: 12 @11869 has 35 MA's), (28, 12004), (29, 12007), (31, 12013), (32, 12016), (36, 12046), (38, 12082), (39, 12088),

Gene: MadMen_104 Start: 54546, Stop: 54812, Start Num: 13
Candidate Starts for MadMen_104:
(Start: 13 @54546 has 242 MA's), (Start: 14 @54573 has 1 MA's), (16, 54579), (23, 54660), (26, 54672), (35, 54705),

Gene: Madiba_98 Start: 53288, Stop: 53530, Start Num: 13
Candidate Starts for Madiba_98:
(Start: 13 @53288 has 242 MA's), (Start: 14 @53315 has 1 MA's), (16, 53321), (23, 53402), (35, 53447), (41, 53510),

Gene: Magsby_70 Start: 42933, Stop: 43178, Start Num: 10
Candidate Starts for Magsby_70:
(Start: 10 @42933 has 46 MA's), (16, 42972),

Gene: Mahavrat_93 Start: 51501, Stop: 51743, Start Num: 13
Candidate Starts for Mahavrat_93:
(Start: 13 @51501 has 242 MA's), (Start: 14 @51528 has 1 MA's), (16, 51534), (23, 51615), (35, 51660), (37, 51696), (40, 51720),

Gene: Mandlovu_97 Start: 52254, Stop: 52496, Start Num: 13
Candidate Starts for Mandlovu_97:
(Start: 13 @52254 has 242 MA's), (Start: 14 @52281 has 1 MA's), (16, 52287), (23, 52368), (26, 52380), (35, 52413), (37, 52449), (41, 52476),

Gene: Mantra_97 Start: 53608, Stop: 53850, Start Num: 13
Candidate Starts for Mantra_97:
(Start: 13 @53608 has 242 MA's), (Start: 14 @53635 has 1 MA's), (16, 53641), (23, 53722), (35, 53767), (41, 53830),

Gene: Maravista_96 Start: 55908, Stop: 56150, Start Num: 13
Candidate Starts for Maravista_96:
(Start: 13 @55908 has 242 MA's), (Start: 14 @55935 has 1 MA's), (16, 55941), (23, 56022), (26, 56034), (35, 56067), (37, 56103), (41, 56130),

Gene: Marker_105 Start: 55391, Stop: 55633, Start Num: 13
Candidate Starts for Marker_105:
(Start: 13 @55391 has 242 MA's), (Start: 14 @55418 has 1 MA's), (16, 55424), (23, 55505), (25, 55514), (35, 55550), (41, 55613),

Gene: Martik_98 Start: 55711, Stop: 55953, Start Num: 13
Candidate Starts for Martik_98:
(Start: 13 @55711 has 242 MA's), (Start: 14 @55738 has 1 MA's), (16, 55744), (23, 55825), (26, 55837), (35, 55870), (37, 55906), (40, 55930),

Gene: Mattes_100 Start: 54917, Stop: 55159, Start Num: 13
Candidate Starts for Mattes_100:
(Start: 13 @54917 has 242 MA's), (Start: 14 @54944 has 1 MA's), (16, 54950), (23, 55031), (35, 55076), (41, 55139),

Gene: Medindi_104 Start: 55059, Stop: 55301, Start Num: 13
Candidate Starts for Medindi_104:
(Start: 13 @55059 has 242 MA's), (Start: 14 @55086 has 1 MA's), (16, 55092), (23, 55173), (26, 55185), (35, 55218), (37, 55254), (41, 55281),

Gene: Melissauren88_89 Start: 50733, Stop: 50975, Start Num: 13
Candidate Starts for Melissauren88_89:
(Start: 13 @50733 has 242 MA's), (Start: 14 @50760 has 1 MA's), (16, 50766), (23, 50847), (26, 50859), (35, 50892), (37, 50928), (41, 50955),

Gene: Melville_76 Start: 42542, Stop: 42787, Start Num: 10
Candidate Starts for Melville_76:
(Start: 10 @42542 has 46 MA's), (16, 42581),

Gene: MichelleMyBell_69 Start: 41523, Stop: 41768, Start Num: 10
Candidate Starts for MichelleMyBell_69:
(Start: 10 @41523 has 46 MA's), (16, 41562),

Gene: MilanaBonita_92 Start: 52629, Stop: 52871, Start Num: 13
Candidate Starts for MilanaBonita_92:
(Start: 13 @52629 has 242 MA's), (Start: 14 @52656 has 1 MA's), (16, 52662), (23, 52743), (26, 52755), (35, 52788), (37, 52824), (41, 52851),

Gene: MilleniumForce_99 Start: 54436, Stop: 54678, Start Num: 13
Candidate Starts for MilleniumForce_99:
(Start: 13 @54436 has 242 MA's), (Start: 14 @54463 has 1 MA's), (16, 54469), (23, 54550), (26, 54562), (35, 54595), (37, 54631), (41, 54658),

Gene: MinionDave_97 Start: 54338, Stop: 54604, Start Num: 13
Candidate Starts for MinionDave_97:
(Start: 13 @54338 has 242 MA's), (Start: 14 @54365 has 1 MA's), (16, 54371), (23, 54452), (26, 54464), (35, 54497),

Gene: Minnie_94 Start: 55329, Stop: 55571, Start Num: 13
Candidate Starts for Minnie_94:
(Start: 13 @55329 has 242 MA's), (Start: 14 @55356 has 1 MA's), (16, 55362), (23, 55443), (35, 55488), (41, 55551),

Gene: Misha28_89 Start: 54702, Stop: 54944, Start Num: 13
Candidate Starts for Misha28_89:
(Start: 13 @54702 has 242 MA's), (Start: 14 @54729 has 1 MA's), (16, 54735), (23, 54816), (26, 54828), (35, 54861),

Gene: MisterCuddles_99 Start: 54578, Stop: 54820, Start Num: 13
Candidate Starts for MisterCuddles_99:
(Start: 13 @54578 has 242 MA's), (Start: 14 @54605 has 1 MA's), (16, 54611), (23, 54692), (25, 54701), (35, 54737), (37, 54773), (41, 54800),

Gene: Modragons_103 Start: 55088, Stop: 55330, Start Num: 13
Candidate Starts for Modragons_103:
(Start: 13 @55088 has 242 MA's), (Start: 14 @55115 has 1 MA's), (16, 55121), (23, 55202), (24, 55205), (26, 55214), (35, 55247), (37, 55283), (40, 55307),

Gene: Moonbeam_102 Start: 54824, Stop: 55066, Start Num: 13
Candidate Starts for Moonbeam_102:
(Start: 13 @54824 has 242 MA's), (Start: 14 @54851 has 1 MA's), (16, 54857), (23, 54938), (25, 54947), (35, 54983), (41, 55046),

Gene: Mori_26 Start: 11707, Stop: 11943, Start Num: 12
Candidate Starts for Mori_26:
(2, 11572), (6, 11683), (9, 11695), (Start: 12 @11707 has 35 MA's), (28, 11842), (29, 11845), (31, 11851), (32, 11854), (36, 11884), (38, 11920), (39, 11926),

Gene: Mova_101 Start: 54366, Stop: 54608, Start Num: 13
Candidate Starts for Mova_101:
(Start: 13 @54366 has 242 MA's), (Start: 14 @54393 has 1 MA's), (16, 54399), (23, 54480), (26, 54492), (35, 54525), (37, 54561), (41, 54588),

Gene: Mozy_103 Start: 54001, Stop: 54243, Start Num: 13
Candidate Starts for Mozy_103:
(Start: 13 @54001 has 242 MA's), (Start: 14 @54028 has 1 MA's), (16, 54034), (23, 54115), (26, 54127), (35, 54160), (37, 54196), (41, 54223),

Gene: Ms6_101 Start: 50624, Stop: 50866, Start Num: 13
Candidate Starts for Ms6_101:
(Start: 13 @50624 has 242 MA's), (Start: 14 @50651 has 1 MA's), (16, 50657), (23, 50738), (26, 50750), (35, 50783), (37, 50819), (41, 50846),

Gene: MulchExplorer_99 Start: 53256, Stop: 53498, Start Num: 13
Candidate Starts for MulchExplorer_99:
(Start: 13 @53256 has 242 MA's), (Start: 14 @53283 has 1 MA's), (16, 53289), (23, 53370), (35, 53415), (41, 53478),

Gene: MulchSalad_97 Start: 55257, Stop: 55499, Start Num: 13
Candidate Starts for MulchSalad_97:
(Start: 13 @55257 has 242 MA's), (Start: 14 @55284 has 1 MA's), (16, 55290), (23, 55371), (26, 55383), (35, 55416),

Gene: Murai_26 Start: 11708, Stop: 11944, Start Num: 12
Candidate Starts for Murai_26:
(2, 11573), (6, 11684), (9, 11696), (Start: 12 @11708 has 35 MA's), (28, 11843), (29, 11846), (31, 11852), (32, 11855), (36, 11885), (38, 11921), (39, 11927),

Gene: Mutaforma13_100 Start: 54035, Stop: 54277, Start Num: 13
Candidate Starts for Mutaforma13_100:
(Start: 13 @54035 has 242 MA's), (Start: 14 @54062 has 1 MA's), (16, 54068), (23, 54149), (24, 54152), (26, 54161), (35, 54194), (37, 54230), (40, 54254),

Gene: Mwanjiwa_102 Start: 55438, Stop: 55680, Start Num: 13
Candidate Starts for Mwanjiwa_102:
(Start: 13 @55438 has 242 MA's), (Start: 14 @55465 has 1 MA's), (16, 55471), (23, 55552), (26, 55564), (35, 55597), (40, 55657), (41, 55660),

Gene: Nenae_69 Start: 41880, Stop: 42125, Start Num: 10
Candidate Starts for Nenae_69:
(Start: 10 @41880 has 46 MA's), (16, 41919), (20, 41976),

Gene: NewHope4_107 Start: 53744, Stop: 53986, Start Num: 13
Candidate Starts for NewHope4_107:
(Start: 13 @53744 has 242 MA's), (Start: 14 @53771 has 1 MA's), (16, 53777), (23, 53858), (24, 53861), (26, 53870), (35, 53903), (37, 53939), (40, 53963),

Gene: Nichirin_101 Start: 54943, Stop: 55185, Start Num: 13
Candidate Starts for Nichirin_101:
(Start: 13 @54943 has 242 MA's), (Start: 14 @54970 has 1 MA's), (16, 54976), (23, 55057), (24, 55060), (26, 55069), (35, 55102), (37, 55138), (40, 55162),

Gene: NiebruSaylor_26 Start: 11708, Stop: 11944, Start Num: 12
Candidate Starts for NiebruSaylor_26:

(2, 11573), (6, 11684), (9, 11696), (Start: 12 @11708 has 35 MA's), (28, 11843), (29, 11846), (31, 11852), (32, 11855), (36, 11885), (38, 11921), (39, 11927),

Gene: Nimbo_91 Start: 52581, Stop: 52823, Start Num: 13
Candidate Starts for Nimbo_91:
(Start: 13 @52581 has 242 MA's), (Start: 14 @52608 has 1 MA's), (16, 52614), (23, 52695), (25, 52704), (35, 52740), (41, 52803),

Gene: Nitzel_93 Start: 51194, Stop: 51436, Start Num: 13
Candidate Starts for Nitzel_93:
(Start: 13 @51194 has 242 MA's), (Start: 14 @51221 has 1 MA's), (16, 51227), (23, 51308), (26, 51320), (35, 51353), (40, 51413), (41, 51416),

Gene: Nivrat_99 Start: 54853, Stop: 55095, Start Num: 13
Candidate Starts for Nivrat_99:
(Start: 13 @54853 has 242 MA's), (Start: 14 @54880 has 1 MA's), (16, 54886), (23, 54967), (35, 55012), (41, 55075),

Gene: NormanBulbieJr_97 Start: 54957, Stop: 55199, Start Num: 13
Candidate Starts for NormanBulbieJr_97:
(Start: 13 @54957 has 242 MA's), (Start: 14 @54984 has 1 MA's), (16, 54990), (23, 55071), (26, 55083), (35, 55116), (37, 55152), (41, 55179),

Gene: Ochi17_105 Start: 54695, Stop: 54937, Start Num: 13
Candidate Starts for Ochi17_105:
(Start: 13 @54695 has 242 MA's), (Start: 14 @54722 has 1 MA's), (16, 54728), (23, 54809), (24, 54812), (26, 54821), (35, 54854), (37, 54890), (40, 54914),

Gene: OfUltron_106 Start: 55244, Stop: 55486, Start Num: 13
Candidate Starts for OfUltron_106:
(Start: 13 @55244 has 242 MA's), (Start: 14 @55271 has 1 MA's), (16, 55277), (23, 55358), (24, 55361), (26, 55370), (35, 55403), (37, 55439), (40, 55463),

Gene: Ogopogo_103 Start: 53186, Stop: 53428, Start Num: 13
Candidate Starts for Ogopogo_103:
(Start: 13 @53186 has 242 MA's), (Start: 14 @53213 has 1 MA's), (16, 53219), (23, 53300), (35, 53345), (41, 53408),

Gene: Okabe_91 Start: 50411, Stop: 50653, Start Num: 13
Candidate Starts for Okabe_91:
(Start: 13 @50411 has 242 MA's), (Start: 14 @50438 has 1 MA's), (16, 50444), (23, 50525), (26, 50537), (35, 50570), (37, 50606), (41, 50633),

Gene: Oksu_105 Start: 56334, Stop: 56576, Start Num: 13
Candidate Starts for Oksu_105:
(Start: 13 @56334 has 242 MA's), (Start: 14 @56361 has 1 MA's), (16, 56367), (23, 56448), (24, 56451), (26, 56460), (35, 56493), (37, 56529), (40, 56553),

Gene: OldBen_96 Start: 53973, Stop: 54215, Start Num: 13
Candidate Starts for OldBen_96:
(Start: 13 @53973 has 242 MA's), (Start: 14 @54000 has 1 MA's), (16, 54006), (23, 54087), (25, 54096), (35, 54132), (41, 54195),

Gene: OlympiaSaint_103 Start: 55147, Stop: 55389, Start Num: 13
Candidate Starts for OlympiaSaint_103:
(Start: 13 @55147 has 242 MA's), (Start: 14 @55174 has 1 MA's), (16, 55180), (23, 55261), (26, 55273), (35, 55306), (41, 55369),

Gene: Ovechkin_102 Start: 54673, Stop: 54915, Start Num: 13
Candidate Starts for Ovechkin_102:
(Start: 13 @54673 has 242 MA's), (Start: 14 @54700 has 1 MA's), (16, 54706), (23, 54787), (24, 54790), (26, 54799), (35, 54832), (37, 54868), (40, 54892),

Gene: OwlsT2W_97 Start: 52877, Stop: 53119, Start Num: 13
Candidate Starts for OwlsT2W_97:
(Start: 13 @52877 has 242 MA's), (Start: 14 @52904 has 1 MA's), (16, 52910), (23, 52991), (26, 53003), (35, 53036), (37, 53072), (41, 53099),

Gene: PHappiness_99 Start: 54802, Stop: 55044, Start Num: 13
Candidate Starts for PHappiness_99:
(Start: 13 @54802 has 242 MA's), (Start: 14 @54829 has 1 MA's), (16, 54835), (23, 54916), (25, 54925), (35, 54961), (41, 55024),

Gene: PMC_98 Start: 53017, Stop: 53259, Start Num: 13
Candidate Starts for PMC_98:
(Start: 13 @53017 has 242 MA's), (Start: 14 @53044 has 1 MA's), (16, 53050), (23, 53131), (35, 53176), (41, 53239),

Gene: Pacc40_97 Start: 55396, Stop: 55638, Start Num: 13
Candidate Starts for Pacc40_97:
(Start: 13 @55396 has 242 MA's), (Start: 14 @55423 has 1 MA's), (16, 55429), (23, 55510), (25, 55519), (35, 55555), (41, 55618),

Gene: PaintedDog_72 Start: 45945, Stop: 46193, Start Num: 11
Candidate Starts for PaintedDog_72:
(Start: 11 @45945 has 3 MA's), (Start: 14 @45978 has 1 MA's), (19, 46044), (20, 46047), (28, 46086), (29, 46089), (33, 46101),

Gene: Panchino_65 Start: 42798, Stop: 43043, Start Num: 10
Candidate Starts for Panchino_65:
(Start: 10 @42798 has 46 MA's), (16, 42837),

Gene: Parmesanjohn_71 Start: 42991, Stop: 43236, Start Num: 10
Candidate Starts for Parmesanjohn_71:
(Start: 10 @42991 has 46 MA's), (16, 43030),

Gene: PatoPoderoso_100 Start: 56599, Stop: 56841, Start Num: 13
Candidate Starts for PatoPoderoso_100:
(Start: 13 @56599 has 242 MA's), (Start: 14 @56626 has 1 MA's), (16, 56632), (23, 56713), (26, 56725), (35, 56758), (37, 56794), (41, 56821),

Gene: Peridot_103 Start: 54386, Stop: 54628, Start Num: 13
Candidate Starts for Peridot_103:
(Start: 13 @54386 has 242 MA's), (Start: 14 @54413 has 1 MA's), (16, 54419), (23, 54500), (25, 54509), (35, 54545), (41, 54608),

Gene: Phalconet_100 Start: 54026, Stop: 54268, Start Num: 13
Candidate Starts for Phalconet_100:
(Start: 13 @54026 has 242 MA's), (Start: 14 @54053 has 1 MA's), (16, 54059), (23, 54140), (26, 54152), (35, 54185), (37, 54221), (41, 54248),

Gene: PhancyPhin_68 Start: 41737, Stop: 41982, Start Num: 10
Candidate Starts for PhancyPhin_68:
(Start: 10 @41737 has 46 MA's), (16, 41776),

Gene: Phanphagia_104 Start: 55781, Stop: 56023, Start Num: 13
Candidate Starts for Phanphagia_104:
(Start: 13 @55781 has 242 MA's), (Start: 14 @55808 has 1 MA's), (16, 55814), (23, 55895), (26, 55907), (35, 55940), (37, 55976), (41, 56003),

Gene: Phasih_96 Start: 52914, Stop: 53180, Start Num: 13
Candidate Starts for Phasih_96:
(Start: 13 @52914 has 242 MA's), (Start: 14 @52941 has 1 MA's), (16, 52947), (23, 53028), (25, 53037), (35, 53073),

Gene: Phatniss_97 Start: 53358, Stop: 53600, Start Num: 13
Candidate Starts for Phatniss_97:
(Start: 13 @53358 has 242 MA's), (Start: 14 @53385 has 1 MA's), (16, 53391), (23, 53472), (26, 53484), (35, 53517), (37, 53553), (41, 53580),

Gene: PhesterPhotato_103 Start: 54000, Stop: 54242, Start Num: 13
Candidate Starts for PhesterPhotato_103:
(Start: 13 @54000 has 242 MA's), (Start: 14 @54027 has 1 MA's), (16, 54033), (23, 54114), (26, 54126), (35, 54159), (37, 54195), (41, 54222),

Gene: Philonius_71 Start: 43177, Stop: 43422, Start Num: 10
Candidate Starts for Philonius_71:
(Start: 10 @43177 has 46 MA's), (16, 43216),

Gene: Philus_103 Start: 56088, Stop: 56330, Start Num: 13
Candidate Starts for Philus_103:
(Start: 13 @56088 has 242 MA's), (Start: 14 @56115 has 1 MA's), (16, 56121), (23, 56202), (26, 56214), (35, 56247), (37, 56283), (41, 56310),

Gene: PhlipPhlop_89 Start: 55438, Stop: 55680, Start Num: 13
Candidate Starts for PhlipPhlop_89:
(Start: 13 @55438 has 242 MA's), (Start: 14 @55465 has 1 MA's), (16, 55471), (23, 55552), (24, 55555), (26, 55564), (35, 55597), (37, 55633), (40, 55657),

Gene: Phloss_69 Start: 42398, Stop: 42643, Start Num: 10
Candidate Starts for Phloss_69:
(Start: 10 @42398 has 46 MA's), (16, 42437),

Gene: Phrann_66 Start: 44154, Stop: 44399, Start Num: 10
Candidate Starts for Phrann_66:
(Start: 10 @44154 has 46 MA's), (16, 44193),

Gene: Piper2020_94 Start: 54950, Stop: 55192, Start Num: 13
Candidate Starts for Piper2020_94:

(Start: 13 @54950 has 242 MA's), (Start: 14 @54977 has 1 MA's), (16, 54983), (23, 55064), (26, 55076), (35, 55109),

Gene: Pippy_97 Start: 53228, Stop: 53470, Start Num: 13
Candidate Starts for Pippy_97:
(Start: 13 @53228 has 242 MA's), (Start: 14 @53255 has 1 MA's), (16, 53261), (23, 53342), (26, 53354), (35, 53387), (37, 53423), (41, 53450),

Gene: Pipsqueaks_72 Start: 42969, Stop: 43214, Start Num: 10
Candidate Starts for Pipsqueaks_72:
(Start: 10 @42969 has 46 MA's), (16, 43008),

Gene: Plumbus_98 Start: 51698, Stop: 51940, Start Num: 13
Candidate Starts for Plumbus_98:
(Start: 13 @51698 has 242 MA's), (Start: 14 @51725 has 1 MA's), (16, 51731), (23, 51812), (35, 51857), (41, 51920),

Gene: Poenanya_103 Start: 55510, Stop: 55752, Start Num: 13
Candidate Starts for Poenanya_103:
(Start: 13 @55510 has 242 MA's), (Start: 14 @55537 has 1 MA's), (16, 55543), (23, 55624), (25, 55633), (35, 55669), (41, 55732),

Gene: Polka14_103 Start: 55571, Stop: 55813, Start Num: 13
Candidate Starts for Polka14_103:
(Start: 13 @55571 has 242 MA's), (Start: 14 @55598 has 1 MA's), (16, 55604), (23, 55685), (25, 55694), (35, 55730), (41, 55793),

Gene: Pollywog_101 Start: 55629, Stop: 55871, Start Num: 13
Candidate Starts for Pollywog_101:
(Start: 13 @55629 has 242 MA's), (Start: 14 @55656 has 1 MA's), (16, 55662), (23, 55743), (25, 55752), (35, 55788), (41, 55851),

Gene: Polo2Bam_111 Start: 53598, Stop: 53840, Start Num: 13
Candidate Starts for Polo2Bam_111:
(Start: 13 @53598 has 242 MA's), (Start: 14 @53625 has 1 MA's), (16, 53631), (23, 53712), (24, 53715), (26, 53724), (35, 53757), (37, 53793), (40, 53817),

Gene: PopTart_90 Start: 51430, Stop: 51672, Start Num: 13
Candidate Starts for PopTart_90:
(Start: 13 @51430 has 242 MA's), (Start: 14 @51457 has 1 MA's), (16, 51463), (23, 51544), (24, 51547), (26, 51556), (35, 51589), (37, 51625), (40, 51649),

Gene: Priscilla_100 Start: 55055, Stop: 55297, Start Num: 13
Candidate Starts for Priscilla_100:
(Start: 13 @55055 has 242 MA's), (Start: 14 @55082 has 1 MA's), (16, 55088), (23, 55169), (26, 55181), (35, 55214), (37, 55250), (41, 55277),

Gene: Purgamenstris_69 Start: 41878, Stop: 42123, Start Num: 10
Candidate Starts for Purgamenstris_69:
(Start: 10 @41878 has 46 MA's), (16, 41917), (20, 41974),

Gene: QueenHazel_69 Start: 44764, Stop: 45021, Start Num: 11
Candidate Starts for QueenHazel_69:

(Start: 11 @44764 has 3 MA's), (19, 44863), (20, 44866), (28, 44905), (29, 44908), (33, 44920),

Gene: QuickMath_100 Start: 53837, Stop: 54103, Start Num: 13
Candidate Starts for QuickMath_100:
(Start: 13 @53837 has 242 MA's), (Start: 14 @53864 has 1 MA's), (16, 53870), (23, 53951), (26, 53963), (35, 53996),

Gene: Quico_108 Start: 55909, Stop: 56151, Start Num: 13
Candidate Starts for Quico_108:
(Start: 13 @55909 has 242 MA's), (Start: 14 @55936 has 1 MA's), (16, 55942), (23, 56023), (26, 56035), (35, 56068), (40, 56128), (41, 56131),

Gene: Radiance_97 Start: 53914, Stop: 54156, Start Num: 13
Candidate Starts for Radiance_97:
(Start: 13 @53914 has 242 MA's), (Start: 14 @53941 has 1 MA's), (16, 53947), (23, 54028), (25, 54037), (35, 54073), (41, 54136),

Gene: Ramsey_104 Start: 55810, Stop: 56052, Start Num: 13
Candidate Starts for Ramsey_104:
(Start: 13 @55810 has 242 MA's), (Start: 14 @55837 has 1 MA's), (16, 55843), (23, 55924), (24, 55927), (26, 55936), (35, 55969), (37, 56005), (40, 56029),

Gene: Raymond7_62 Start: 41666, Stop: 41911, Start Num: 10
Candidate Starts for Raymond7_62:
(Start: 10 @41666 has 46 MA's), (16, 41705), (20, 41762),

Gene: Rebel_65 Start: 39862, Stop: 40107, Start Num: 10
Candidate Starts for Rebel_65:
(Start: 10 @39862 has 46 MA's), (16, 39901), (20, 39958),

Gene: RedBird_100 Start: 55549, Stop: 55791, Start Num: 13
Candidate Starts for RedBird_100:
(Start: 13 @55549 has 242 MA's), (Start: 14 @55576 has 1 MA's), (16, 55582), (23, 55663), (25, 55672), (35, 55708), (41, 55771),

Gene: Redi_68 Start: 41877, Stop: 42122, Start Num: 10
Candidate Starts for Redi_68:
(Start: 10 @41877 has 46 MA's), (16, 41916), (20, 41973),

Gene: Renaud18_109 Start: 55181, Stop: 55441, Start Num: 7
Candidate Starts for Renaud18_109:
(5, 55160), (Start: 7 @55181 has 4 MA's), (Start: 14 @55214 has 1 MA's), (15, 55217), (16, 55220), (21, 55292), (23, 55313), (26, 55325), (29, 55334), (35, 55358), (37, 55394), (41, 55421),

Gene: Rialto_104 Start: 55165, Stop: 55407, Start Num: 13
Candidate Starts for Rialto_104:
(Start: 13 @55165 has 242 MA's), (Start: 14 @55192 has 1 MA's), (16, 55198), (23, 55279), (25, 55288), (35, 55324), (41, 55387),

Gene: Rita_99 Start: 55625, Stop: 55867, Start Num: 13
Candidate Starts for Rita_99:
(Start: 13 @55625 has 242 MA's), (Start: 14 @55652 has 1 MA's), (16, 55658), (23, 55739), (26, 55751), (35, 55784), (37, 55820), (41, 55847),

Gene: RitaG_98 Start: 54604, Stop: 54846, Start Num: 13
Candidate Starts for RitaG_98:
(Start: 13 @54604 has 242 MA's), (Start: 14 @54631 has 1 MA's), (16, 54637), (23, 54718), (25, 54727), (35, 54763), (41, 54826),

Gene: Rockne_102 Start: 53029, Stop: 53271, Start Num: 13
Candidate Starts for Rockne_102:
(Start: 13 @53029 has 242 MA's), (Start: 14 @53056 has 1 MA's), (16, 53062), (23, 53143), (35, 53188), (41, 53251),

Gene: RockyHorror_103 Start: 53714, Stop: 53956, Start Num: 13
Candidate Starts for RockyHorror_103:
(Start: 13 @53714 has 242 MA's), (Start: 14 @53741 has 1 MA's), (16, 53747), (23, 53828), (35, 53873), (41, 53936),

Gene: Royals2015_103 Start: 53160, Stop: 53402, Start Num: 13
Candidate Starts for Royals2015_103:
(Start: 13 @53160 has 242 MA's), (Start: 14 @53187 has 1 MA's), (16, 53193), (23, 53274), (26, 53286), (35, 53319), (37, 53355), (41, 53382),

Gene: Rubeelu_65 Start: 40786, Stop: 41031, Start Num: 10
Candidate Starts for Rubeelu_65:
(1, 40279), (Start: 10 @40786 has 46 MA's), (16, 40825), (27, 40915),

Gene: Ruby_96 Start: 54580, Stop: 54822, Start Num: 13
Candidate Starts for Ruby_96:
(Start: 13 @54580 has 242 MA's), (Start: 14 @54607 has 1 MA's), (16, 54613), (23, 54694), (26, 54706), (35, 54739), (37, 54775), (41, 54802),

Gene: Ryadel_28 Start: 12290, Stop: 12526, Start Num: 12
Candidate Starts for Ryadel_28:
(2, 12155), (6, 12266), (9, 12278), (Start: 12 @12290 has 35 MA's), (28, 12425), (29, 12428), (31, 12434), (32, 12437), (36, 12467), (38, 12503), (39, 12509),

Gene: SG4_100 Start: 55394, Stop: 55636, Start Num: 13
Candidate Starts for SG4_100:
(Start: 13 @55394 has 242 MA's), (Start: 14 @55421 has 1 MA's), (16, 55427), (23, 55508), (26, 55520), (35, 55553), (37, 55589), (40, 55613),

Gene: Saal_97 Start: 54619, Stop: 54861, Start Num: 13
Candidate Starts for Saal_97:
(Start: 13 @54619 has 242 MA's), (Start: 14 @54646 has 1 MA's), (16, 54652), (23, 54733), (35, 54778), (41, 54841),

Gene: Sabbb_102 Start: 52585, Stop: 52827, Start Num: 13
Candidate Starts for Sabbb_102:
(Start: 13 @52585 has 242 MA's), (Start: 14 @52612 has 1 MA's), (16, 52618), (23, 52699), (26, 52711), (35, 52744), (41, 52807),

Gene: Sandalphon_99 Start: 55612, Stop: 55854, Start Num: 13
Candidate Starts for Sandalphon_99:

(Start: 13 @55612 has 242 MA's), (Start: 14 @55639 has 1 MA's), (16, 55645), (23, 55726), (35, 55771), (41, 55834),

Gene: Sarma624_101 Start: 51554, Stop: 51796, Start Num: 13
Candidate Starts for Sarma624_101:
(Start: 13 @51554 has 242 MA's), (Start: 14 @51581 has 1 MA's), (16, 51587), (23, 51668), (26, 51680), (35, 51713), (37, 51749), (41, 51776),

Gene: Sassafras_101 Start: 53866, Stop: 54108, Start Num: 13
Candidate Starts for Sassafras_101:
(Start: 13 @53866 has 242 MA's), (Start: 14 @53893 has 1 MA's), (16, 53899), (23, 53980), (25, 53989), (35, 54025), (41, 54088),

Gene: SassyB_90 Start: 51430, Stop: 51672, Start Num: 13
Candidate Starts for SassyB_90:
(Start: 13 @51430 has 242 MA's), (Start: 14 @51457 has 1 MA's), (16, 51463), (23, 51544), (24, 51547), (26, 51556), (35, 51589), (37, 51625), (40, 51649),

Gene: Schnauzer_73 Start: 42991, Stop: 43236, Start Num: 10
Candidate Starts for Schnauzer_73:
(Start: 10 @42991 has 46 MA's), (16, 43030),

Gene: SchoolBus_25 Start: 11477, Stop: 11713, Start Num: 12
Candidate Starts for SchoolBus_25:
(2, 11342), (6, 11453), (9, 11465), (Start: 12 @11477 has 35 MA's), (28, 11612), (29, 11615), (31, 11621), (32, 11624), (36, 11654), (38, 11690), (39, 11696),

Gene: Schuy_27 Start: 11869, Stop: 12105, Start Num: 12
Candidate Starts for Schuy_27:
(2, 11734), (6, 11845), (9, 11857), (Start: 12 @11869 has 35 MA's), (28, 12004), (29, 12007), (31, 12013), (32, 12016), (36, 12046), (38, 12082), (39, 12088),

Gene: Scitech_66 Start: 42394, Stop: 42639, Start Num: 10
Candidate Starts for Scitech_66:
(Start: 10 @42394 has 46 MA's), (16, 42433),

Gene: Scottish_99 Start: 53443, Stop: 53685, Start Num: 13
Candidate Starts for Scottish_99:
(Start: 13 @53443 has 242 MA's), (Start: 14 @53470 has 1 MA's), (16, 53476), (23, 53557), (25, 53566), (35, 53602), (41, 53665),

Gene: SeaLumen_108 Start: 53598, Stop: 53840, Start Num: 13
Candidate Starts for SeaLumen_108:
(Start: 13 @53598 has 242 MA's), (Start: 14 @53625 has 1 MA's), (16, 53631), (23, 53712), (24, 53715), (26, 53724), (35, 53757), (37, 53793), (40, 53817),

Gene: Seabastian_106 Start: 55245, Stop: 55487, Start Num: 13
Candidate Starts for Seabastian_106:
(Start: 13 @55245 has 242 MA's), (Start: 14 @55272 has 1 MA's), (16, 55278), (23, 55359), (24, 55362), (26, 55371), (35, 55404), (37, 55440), (40, 55464),

Gene: Seagreen_100 Start: 54532, Stop: 54774, Start Num: 13
Candidate Starts for Seagreen_100:

(Start: 13 @54532 has 242 MA's), (Start: 14 @54559 has 1 MA's), (16, 54565), (23, 54646), (26, 54658), (35, 54691), (37, 54727), (41, 54754),

Gene: Shauna1_101 Start: 55397, Stop: 55639, Start Num: 13
Candidate Starts for Shauna1_101:
(Start: 13 @55397 has 242 MA's), (Start: 14 @55424 has 1 MA's), (16, 55430), (23, 55511), (26, 55523), (35, 55556), (37, 55592), (41, 55619),

Gene: ShiLan_102 Start: 56636, Stop: 56878, Start Num: 13
Candidate Starts for ShiLan_102:
(Start: 13 @56636 has 242 MA's), (Start: 14 @56663 has 1 MA's), (16, 56669), (23, 56750), (35, 56795), (41, 56858),

Gene: Shida_26 Start: 11774, Stop: 12010, Start Num: 12
Candidate Starts for Shida_26:
(2, 11639), (6, 11750), (9, 11762), (Start: 12 @11774 has 35 MA's), (28, 11909), (29, 11912), (31, 11918), (32, 11921), (36, 11951), (38, 11987), (39, 11993),

Gene: ShowerHandel_100 Start: 53901, Stop: 54143, Start Num: 13
Candidate Starts for ShowerHandel_100:
(Start: 13 @53901 has 242 MA's), (Start: 14 @53928 has 1 MA's), (16, 53934), (23, 54015), (26, 54027), (35, 54060), (37, 54096), (41, 54123),

Gene: ShrimpFriedEgg_69 Start: 41877, Stop: 42122, Start Num: 10
Candidate Starts for ShrimpFriedEgg_69:
(Start: 10 @41877 has 46 MA's), (16, 41916), (20, 41973),

Gene: ShroomBoi_97 Start: 53949, Stop: 54191, Start Num: 13
Candidate Starts for ShroomBoi_97:
(Start: 13 @53949 has 242 MA's), (Start: 14 @53976 has 1 MA's), (16, 53982), (23, 54063), (35, 54108), (41, 54171),

Gene: Shweta_65 Start: 41973, Stop: 42218, Start Num: 10
Candidate Starts for Shweta_65:
(Start: 10 @41973 has 46 MA's), (16, 42012),

Gene: SiSi_95 Start: 53133, Stop: 53375, Start Num: 13
Candidate Starts for SiSi_95:
(Start: 13 @53133 has 242 MA's), (Start: 14 @53160 has 1 MA's), (16, 53166), (23, 53247), (24, 53250), (26, 53259), (35, 53292), (37, 53328), (40, 53352),

Gene: Silvafighter_73 Start: 42534, Stop: 42779, Start Num: 10
Candidate Starts for Silvafighter_73:
(Start: 10 @42534 has 46 MA's), (16, 42573),

Gene: Silvy_67 Start: 43624, Stop: 43869, Start Num: 10
Candidate Starts for Silvy_67:
(Start: 10 @43624 has 46 MA's), (16, 43663),

Gene: SimranZ1_96 Start: 52496, Stop: 52738, Start Num: 13
Candidate Starts for SimranZ1_96:
(Start: 13 @52496 has 242 MA's), (Start: 14 @52523 has 1 MA's), (16, 52529), (23, 52610), (35, 52655), (37, 52691), (41, 52718),

Gene: SkinnyPete_67 Start: 42760, Stop: 43005, Start Num: 10
Candidate Starts for SkinnyPete_67:
(Start: 10 @42760 has 46 MA's), (16, 42799),

Gene: Slim_102 Start: 54183, Stop: 54425, Start Num: 13
Candidate Starts for Slim_102:
(Start: 13 @54183 has 242 MA's), (Start: 14 @54210 has 1 MA's), (16, 54216), (23, 54297), (26, 54309), (35, 54342), (37, 54378),

Gene: Smooch_29 Start: 13223, Stop: 13459, Start Num: 12
Candidate Starts for Smooch_29:
(2, 13088), (6, 13199), (9, 13211), (Start: 12 @13223 has 35 MA's), (28, 13358), (29, 13361), (31, 13367), (32, 13370), (36, 13400), (38, 13436), (39, 13442),

Gene: Smurph_71 Start: 42991, Stop: 43236, Start Num: 10
Candidate Starts for Smurph_71:
(Start: 10 @42991 has 46 MA's), (16, 43030),

Gene: Snekmaggedon_63 Start: 40560, Stop: 40805, Start Num: 10
Candidate Starts for Snekmaggedon_63:
(Start: 10 @40560 has 46 MA's), (16, 40599),

Gene: Sparkdehlily_106 Start: 53114, Stop: 53356, Start Num: 13
Candidate Starts for Sparkdehlily_106:
(Start: 13 @53114 has 242 MA's), (Start: 14 @53141 has 1 MA's), (16, 53147), (23, 53228), (35, 53273), (41, 53336),

Gene: Spartacus_106 Start: 57228, Stop: 57470, Start Num: 13
Candidate Starts for Spartacus_106:
(Start: 13 @57228 has 242 MA's), (Start: 14 @57255 has 1 MA's), (16, 57261), (23, 57342), (35, 57387), (41, 57450),

Gene: Spikelee_100 Start: 55608, Stop: 55850, Start Num: 13
Candidate Starts for Spikelee_100:
(Start: 13 @55608 has 242 MA's), (Start: 14 @55635 has 1 MA's), (16, 55641), (23, 55722), (35, 55767), (41, 55830),

Gene: Spinach_68 Start: 41877, Stop: 42122, Start Num: 10
Candidate Starts for Spinach_68:
(Start: 10 @41877 has 46 MA's), (16, 41916), (20, 41973),

Gene: SpongeBob_64 Start: 40560, Stop: 40805, Start Num: 10
Candidate Starts for SpongeBob_64:
(Start: 10 @40560 has 46 MA's), (16, 40599),

Gene: Spoonbill_99 Start: 52549, Stop: 52791, Start Num: 13
Candidate Starts for Spoonbill_99:
(Start: 13 @52549 has 242 MA's), (Start: 14 @52576 has 1 MA's), (16, 52582), (23, 52663), (35, 52708), (41, 52771),

Gene: Squirty_98 Start: 57518, Stop: 57760, Start Num: 13
Candidate Starts for Squirty_98:

(Start: 13 @57518 has 242 MA's), (Start: 14 @57545 has 1 MA's), (16, 57551), (23, 57632), (26, 57644), (35, 57677),

Gene: StAnnes_103 Start: 55445, Stop: 55687, Start Num: 13
Candidate Starts for StAnnes_103:
(Start: 13 @55445 has 242 MA's), (Start: 14 @55472 has 1 MA's), (16, 55478), (23, 55559), (24, 55562), (26, 55571), (35, 55604), (37, 55640), (40, 55664), (41, 55667),

Gene: Stap_94 Start: 51161, Stop: 51403, Start Num: 13
Candidate Starts for Stap_94:
(Start: 13 @51161 has 242 MA's), (Start: 14 @51188 has 1 MA's), (16, 51194), (23, 51275), (26, 51287), (35, 51320), (41, 51383),

Gene: Starcevich_101 Start: 55278, Stop: 55520, Start Num: 13
Candidate Starts for Starcevich_101:
(Start: 13 @55278 has 242 MA's), (Start: 14 @55305 has 1 MA's), (16, 55311), (23, 55392), (26, 55404), (35, 55437), (41, 55500),

Gene: Strokeseat_97 Start: 52311, Stop: 52553, Start Num: 13
Candidate Starts for Strokeseat_97:
(Start: 13 @52311 has 242 MA's), (Start: 14 @52338 has 1 MA's), (16, 52344), (23, 52425), (26, 52437), (35, 52470), (37, 52506), (41, 52533),

Gene: SuperGrey_99 Start: 56197, Stop: 56439, Start Num: 13
Candidate Starts for SuperGrey_99:
(Start: 13 @56197 has 242 MA's), (Start: 14 @56224 has 1 MA's), (16, 56230), (23, 56311), (26, 56323), (35, 56356), (37, 56392), (41, 56419),

Gene: SwagPigglett_101 Start: 55755, Stop: 55997, Start Num: 13
Candidate Starts for SwagPigglett_101:
(Start: 13 @55755 has 242 MA's), (Start: 14 @55782 has 1 MA's), (16, 55788), (23, 55869), (26, 55881), (35, 55914), (37, 55950), (41, 55977),

Gene: TChen_97 Start: 54377, Stop: 54637, Start Num: 7
Candidate Starts for TChen_97:
(3, 54335), (Start: 7 @54377 has 4 MA's), (15, 54413), (16, 54416), (18, 54479), (23, 54509), (26, 54521), (29, 54530), (32, 54539), (35, 54554),

Gene: TDanisky_107 Start: 53114, Stop: 53356, Start Num: 13
Candidate Starts for TDanisky_107:
(Start: 13 @53114 has 242 MA's), (Start: 14 @53141 has 1 MA's), (16, 53147), (23, 53228), (35, 53273), (41, 53336),

Gene: Taj_105 Start: 55403, Stop: 55645, Start Num: 13
Candidate Starts for Taj_105:
(Start: 13 @55403 has 242 MA's), (Start: 14 @55430 has 1 MA's), (16, 55436), (23, 55517), (26, 55529), (35, 55562), (37, 55598), (41, 55625),

Gene: Tapioca_69 Start: 43496, Stop: 43741, Start Num: 10
Candidate Starts for Tapioca_69:
(Start: 10 @43496 has 46 MA's), (16, 43535),

Gene: Tchotchke_95 Start: 52677, Stop: 52919, Start Num: 13

Candidate Starts for Tchotchke_95:
(Start: 13 @52677 has 242 MA's), (Start: 14 @52704 has 1 MA's), (16, 52710), (23, 52791), (35, 52836), (41, 52899),

Gene: TelAviv_23 Start: 11474, Stop: 11710, Start Num: 12
Candidate Starts for TelAviv_23:
(2, 11339), (6, 11450), (9, 11462), (Start: 12 @11474 has 35 MA's), (28, 11609), (29, 11612), (31, 11618), (32, 11621), (36, 11651), (38, 11687), (39, 11693),

Gene: Tessdabest_71 Start: 43125, Stop: 43370, Start Num: 10
Candidate Starts for Tessdabest_71:
(Start: 10 @43125 has 46 MA's), (16, 43164),

Gene: ThetaBob_102 Start: 53402, Stop: 53662, Start Num: 7
Candidate Starts for ThetaBob_102:
(5, 53381), (Start: 7 @53402 has 4 MA's), (Start: 14 @53435 has 1 MA's), (15, 53438), (16, 53441), (21, 53513), (23, 53534), (26, 53546), (29, 53555), (35, 53579), (37, 53615), (41, 53642),

Gene: TootsiePop_89 Start: 54702, Stop: 54944, Start Num: 13
Candidate Starts for TootsiePop_89:
(Start: 13 @54702 has 242 MA's), (Start: 14 @54729 has 1 MA's), (16, 54735), (23, 54816), (26, 54828), (35, 54861),

Gene: Tootsieroll_93 Start: 54547, Stop: 54789, Start Num: 13
Candidate Starts for Tootsieroll_93:
(Start: 13 @54547 has 242 MA's), (Start: 14 @54574 has 1 MA's), (16, 54580), (23, 54661), (26, 54673), (35, 54706), (37, 54742), (41, 54769),

Gene: Topiatin_101 Start: 55144, Stop: 55386, Start Num: 13
Candidate Starts for Topiatin_101:
(Start: 13 @55144 has 242 MA's), (Start: 14 @55171 has 1 MA's), (16, 55177), (23, 55258), (35, 55303), (41, 55366),

Gene: Toron_103 Start: 56010, Stop: 56270, Start Num: 7
Candidate Starts for Toron_103:
(5, 55989), (Start: 7 @56010 has 4 MA's), (16, 56049), (17, 56100), (23, 56142), (26, 56154), (35, 56187),

Gene: Tortoise12_71 Start: 41980, Stop: 42225, Start Num: 10
Candidate Starts for Tortoise12_71:
(Start: 10 @41980 has 46 MA's), (16, 42019),

Gene: Totinger_102 Start: 54678, Stop: 54920, Start Num: 13
Candidate Starts for Totinger_102:
(Start: 13 @54678 has 242 MA's), (Start: 14 @54705 has 1 MA's), (16, 54711), (23, 54792), (25, 54801), (35, 54837), (41, 54900),

Gene: Tweety_100 Start: 54797, Stop: 55039, Start Num: 13
Candidate Starts for Tweety_100:
(Start: 13 @54797 has 242 MA's), (Start: 14 @54824 has 1 MA's), (16, 54830), (23, 54911), (26, 54923), (35, 54956), (37, 54992), (41, 55019),

Gene: UncleRicky_99 Start: 52903, Stop: 53145, Start Num: 13

Candidate Starts for UncleRicky_99:
(Start: 13 @52903 has 242 MA's), (Start: 14 @52930 has 1 MA's), (16, 52936), (23, 53017), (35, 53062), (41, 53125),

Gene: VRedHorse_100 Start: 51653, Stop: 51895, Start Num: 13
Candidate Starts for VRedHorse_100:
(Start: 13 @51653 has 242 MA's), (Start: 14 @51680 has 1 MA's), (16, 51686), (23, 51767), (26, 51779), (35, 51812), (37, 51848), (41, 51875),

Gene: Vagabond_26 Start: 11751, Stop: 11987, Start Num: 12
Candidate Starts for Vagabond_26:
(2, 11616), (6, 11727), (9, 11739), (Start: 12 @11751 has 35 MA's), (28, 11886), (29, 11889), (31, 11895), (32, 11898), (36, 11928), (38, 11964), (39, 11970),

Gene: Velveteen_96 Start: 51554, Stop: 51796, Start Num: 13
Candidate Starts for Velveteen_96:
(Start: 13 @51554 has 242 MA's), (Start: 14 @51581 has 1 MA's), (16, 51587), (23, 51668), (26, 51680), (35, 51713), (37, 51749), (41, 51776),

Gene: Veteran_90 Start: 53001, Stop: 53243, Start Num: 13
Candidate Starts for Veteran_90:
(Start: 13 @53001 has 242 MA's), (Start: 14 @53028 has 1 MA's), (16, 53034), (23, 53115), (24, 53118), (26, 53127), (35, 53160), (37, 53196), (40, 53220),

Gene: Violac_100 Start: 55049, Stop: 55291, Start Num: 13
Candidate Starts for Violac_100:
(Start: 13 @55049 has 242 MA's), (Start: 14 @55076 has 1 MA's), (16, 55082), (23, 55163), (26, 55175), (35, 55208), (37, 55244), (41, 55271),

Gene: Vivum_99 Start: 55990, Stop: 56232, Start Num: 13
Candidate Starts for Vivum_99:
(Start: 13 @55990 has 242 MA's), (Start: 14 @56017 has 1 MA's), (16, 56023), (23, 56104), (24, 56107), (26, 56116), (35, 56149), (37, 56185), (40, 56209),

Gene: Vorrps_26 Start: 11708, Stop: 11944, Start Num: 12
Candidate Starts for Vorrps_26:
(2, 11573), (6, 11684), (9, 11696), (Start: 12 @11708 has 35 MA's), (28, 11843), (29, 11846), (31, 11852), (32, 11855), (36, 11885), (38, 11921), (39, 11927),

Gene: Wachhund_96 Start: 50849, Stop: 51091, Start Num: 13
Candidate Starts for Wachhund_96:
(Start: 13 @50849 has 242 MA's), (Start: 14 @50876 has 1 MA's), (16, 50882), (23, 50963), (24, 50966), (26, 50975), (35, 51008), (37, 51044), (40, 51068),

Gene: Wee_102 Start: 55479, Stop: 55721, Start Num: 13
Candidate Starts for Wee_102:
(Start: 13 @55479 has 242 MA's), (Start: 14 @55506 has 1 MA's), (16, 55512), (23, 55593), (26, 55605), (35, 55638), (37, 55674), (41, 55701),

Gene: Whatsapiecost_93 Start: 49204, Stop: 49446, Start Num: 13
Candidate Starts for Whatsapiecost_93:
(Start: 13 @49204 has 242 MA's), (Start: 14 @49231 has 1 MA's), (16, 49237), (23, 49318), (26, 49330), (35, 49363), (37, 49399), (41, 49426),

Gene: Whouxphf_104 Start: 55947, Stop: 56189, Start Num: 13
Candidate Starts for Whouxphf_104:
(Start: 13 @55947 has 242 MA's), (Start: 14 @55974 has 1 MA's), (16, 55980), (23, 56061), (35, 56106), (37, 56142), (40, 56166), (41, 56169),

Gene: Wildflower_26 Start: 11731, Stop: 11967, Start Num: 12
Candidate Starts for Wildflower_26:
(2, 11596), (6, 11707), (9, 11719), (Start: 12 @11731 has 35 MA's), (28, 11866), (29, 11869), (31, 11875), (32, 11878), (36, 11908), (38, 11944), (39, 11950),

Gene: WillSterrel_97 Start: 54235, Stop: 54477, Start Num: 13
Candidate Starts for WillSterrel_97:
(Start: 13 @54235 has 242 MA's), (16, 54268), (23, 54349), (25, 54358), (35, 54394), (40, 54454),

Gene: Winget_26 Start: 11750, Stop: 11986, Start Num: 12
Candidate Starts for Winget_26:
(2, 11615), (6, 11726), (9, 11738), (Start: 12 @11750 has 35 MA's), (28, 11885), (29, 11888), (31, 11894), (32, 11897), (36, 11927), (38, 11963), (39, 11969),

Gene: Wogge42_25 Start: 11839, Stop: 12075, Start Num: 12
Candidate Starts for Wogge42_25:
(2, 11704), (6, 11815), (9, 11827), (Start: 12 @11839 has 35 MA's), (28, 11974), (29, 11977), (31, 11983), (32, 11986), (36, 12016), (38, 12052), (39, 12058),

Gene: XFactor_90 Start: 51995, Stop: 52237, Start Num: 13
Candidate Starts for XFactor_90:
(Start: 13 @51995 has 242 MA's), (Start: 14 @52022 has 1 MA's), (16, 52028), (23, 52109), (26, 52121), (35, 52154), (37, 52190), (41, 52217),

Gene: Xeno_68 Start: 41677, Stop: 41922, Start Num: 10
Candidate Starts for Xeno_68:
(Start: 10 @41677 has 46 MA's), (16, 41716),

Gene: Xerxes_71 Start: 42988, Stop: 43233, Start Num: 10
Candidate Starts for Xerxes_71:
(Start: 10 @42988 has 46 MA's), (16, 43027),

Gene: Xula_70 Start: 45251, Stop: 45508, Start Num: 11
Candidate Starts for Xula_70:
(Start: 11 @45251 has 3 MA's), (19, 45350), (20, 45353), (28, 45392), (29, 45395), (33, 45407),

Gene: Yorick_95 Start: 55296, Stop: 55538, Start Num: 13
Candidate Starts for Yorick_95:
(Start: 13 @55296 has 242 MA's), (Start: 14 @55323 has 1 MA's), (16, 55329), (23, 55410), (35, 55455), (41, 55518),

Gene: YoyoKar_24 Start: 11478, Stop: 11714, Start Num: 12
Candidate Starts for YoyoKar_24:
(2, 11343), (6, 11454), (9, 11466), (Start: 12 @11478 has 35 MA's), (28, 11613), (29, 11616), (31, 11622), (32, 11625), (36, 11655), (38, 11691), (39, 11697),

Gene: YungJamal_28 Start: 12026, Stop: 12262, Start Num: 12

Candidate Starts for YungJamal_28:
(2, 11891), (6, 12002), (9, 12014), (Start: 12 @12026 has 35 MA's), (28, 12161), (29, 12164), (31, 12170), (32, 12173), (36, 12203), (38, 12239), (39, 12245),

Gene: Zakhe101_26 Start: 11876, Stop: 12112, Start Num: 12
Candidate Starts for Zakhe101_26:
(2, 11741), (6, 11852), (9, 11864), (Start: 12 @11876 has 35 MA's), (28, 12011), (29, 12014), (31, 12020), (32, 12023), (36, 12053), (38, 12089), (39, 12095),

Gene: Zebo_25 Start: 11477, Stop: 11713, Start Num: 12
Candidate Starts for Zebo_25:
(2, 11342), (6, 11453), (9, 11465), (Start: 12 @11477 has 35 MA's), (28, 11612), (29, 11615), (31, 11621), (32, 11624), (36, 11654), (38, 11690), (39, 11696),

Gene: Zerg_97 Start: 53870, Stop: 54112, Start Num: 13
Candidate Starts for Zerg_97:
(Start: 13 @53870 has 242 MA's), (Start: 14 @53897 has 1 MA's), (16, 53903), (23, 53984), (26, 53996), (35, 54029), (37, 54065), (41, 54092),

Gene: Zizzle_102 Start: 55946, Stop: 56188, Start Num: 13
Candidate Starts for Zizzle_102:
(Start: 13 @55946 has 242 MA's), (Start: 14 @55973 has 1 MA's), (16, 55979), (23, 56060), (26, 56072), (35, 56105), (37, 56141), (41, 56168),