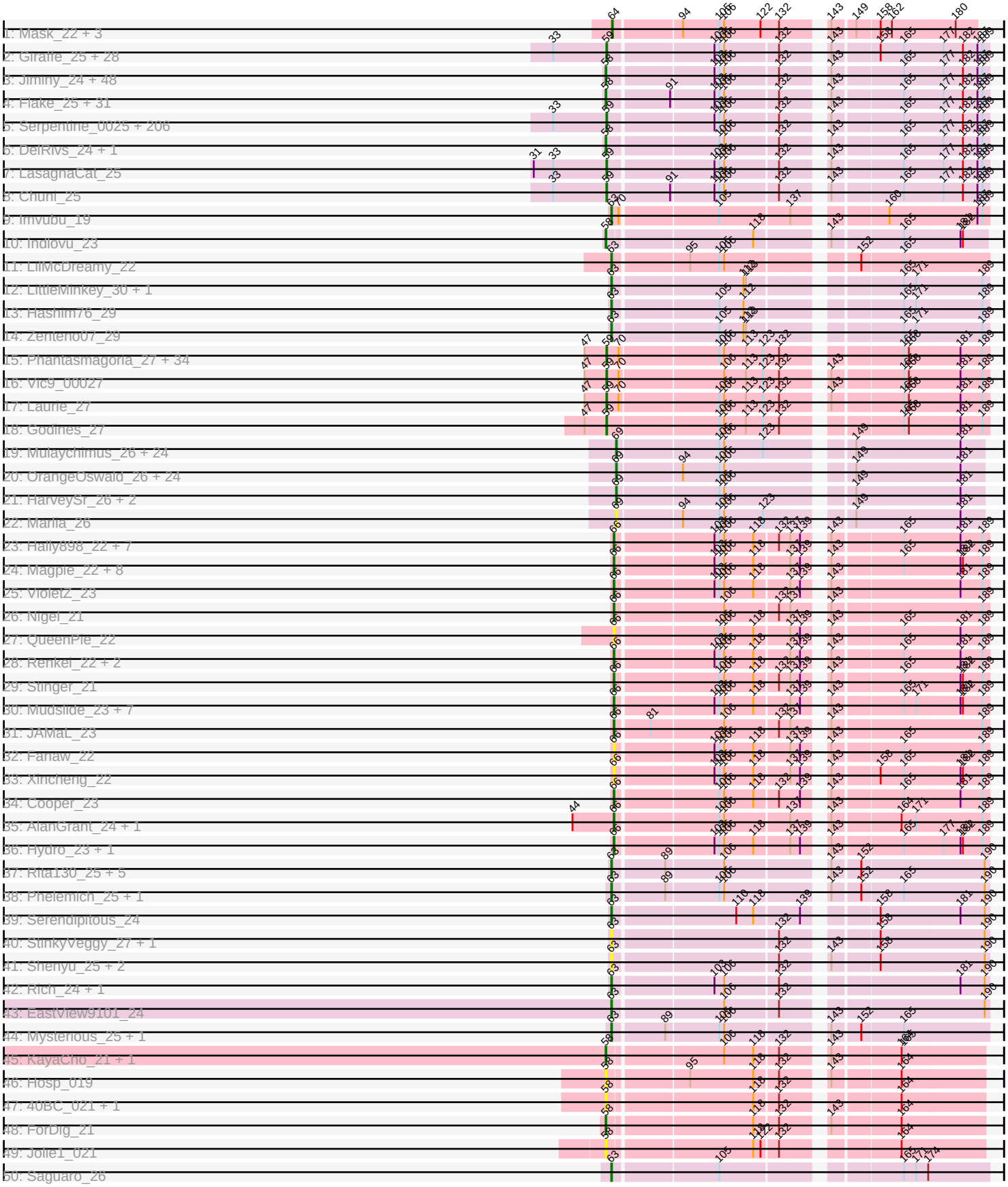
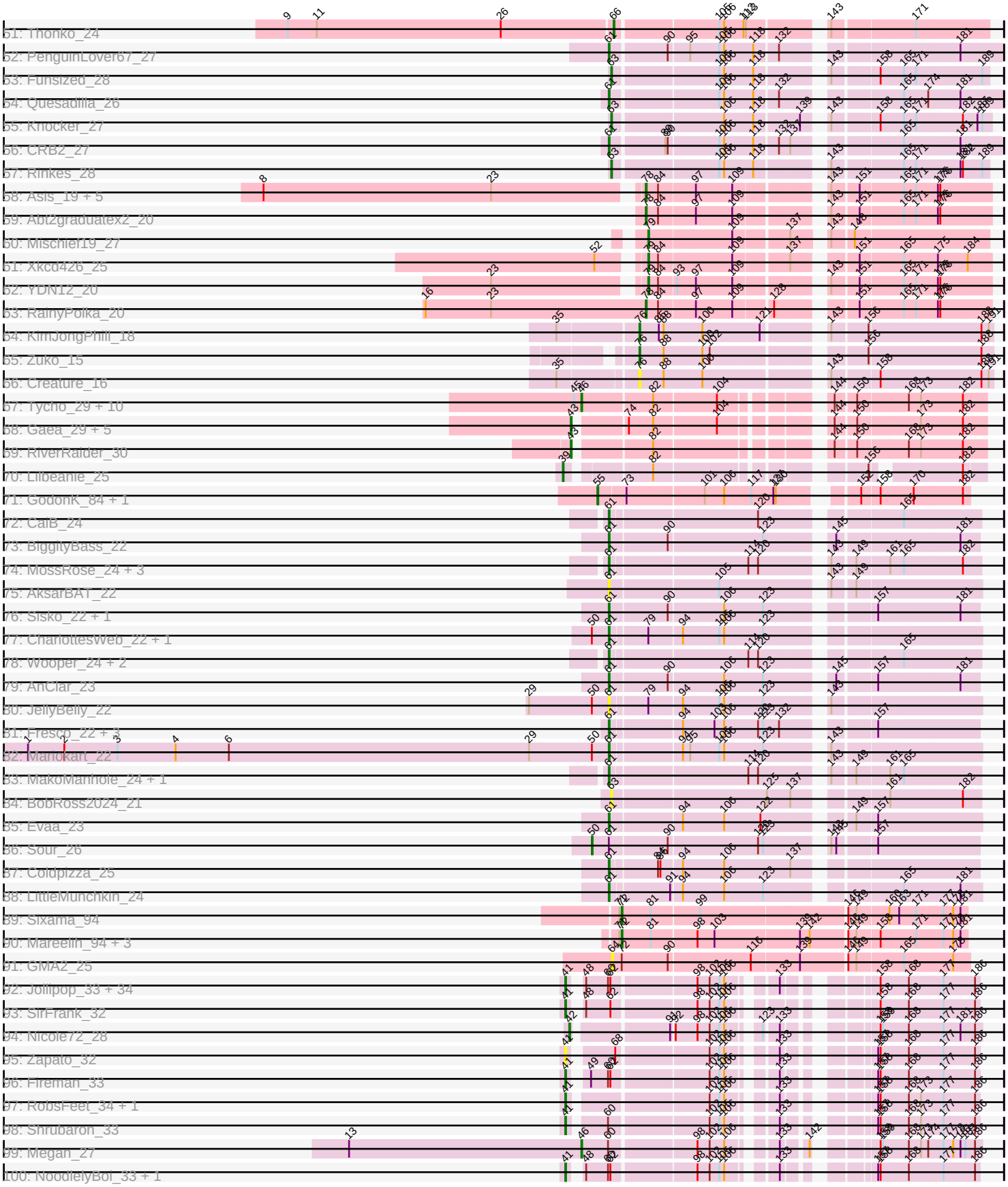
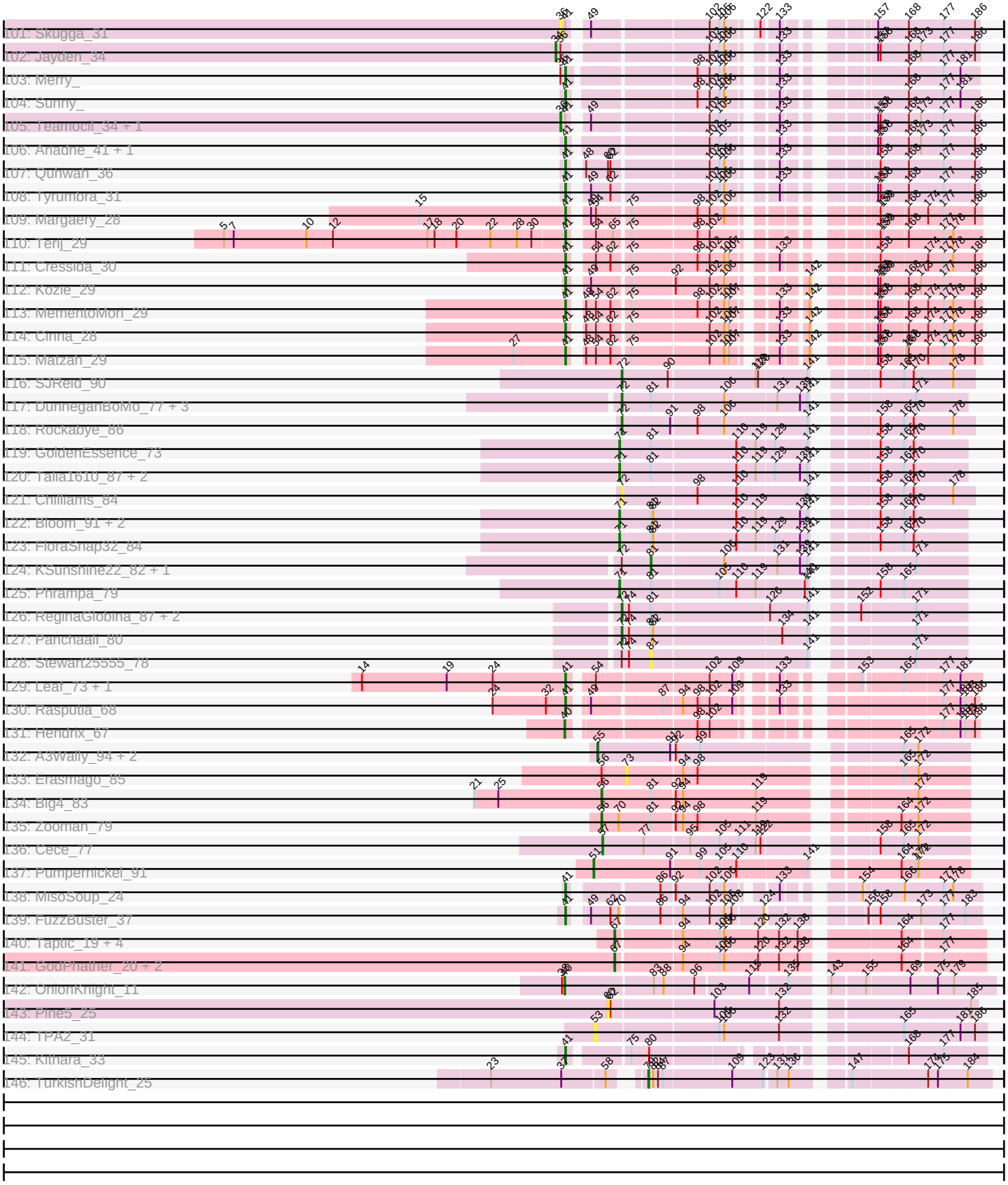
Pham 347045


1: Mask_22 + 3
2: Giraffe_25 + 28
3: Jiminy_24 + 48
4: Flake_25 + 31
5: Serpentine_0025 + 206
6: DelRivs_24 + 1
7: LasagnaCat_25
8: Chuni_25
9: Imvubu_19
10: Indlovu_23
11: LilMcDreamy_22
12: LittleMinkey_30 + 1
13: Hashim76_29
14: Zenteno07_29
15: Phantasmagoria_27 + 34
16: Vic9_00027
17: Laurie_27
18: Godines_27
19: Mulaychinmus_26 + 24
20: OrangeOswald_26 + 24
21: HarveySr_26 + 2
22: Marita_26
23: Hally898_22 + 7
24: Magpie_22 + 8
25: Violet2_23
26: Nigel_21
27: QueenPie_22
28: Renkei_22 + 2
29: Stinger_21
30: Mudslide_23 + 7
31: JAMaL_23
32: Fanaw_22
33: Xincheng_22
34: Cooper_23
35: AlanGrant_24 + 1
36: Hydro_23 + 1
37: Rita130_25 + 5
38: Phelemich_25 + 1
39: Serendipitous_24
40: StinkyVeggy_27 + 1
41: Shenyu_25 + 2
42: Rich_24 + 1
43: EastView9101_24
44: Mysterious_25 + 1
45: KayaCho_21 + 1
46: Hosp_019
47: 40BC_021 + 1
48: ForDig_21
49: Jolie1_021
50: Saguaro_26

Pham 347045


51: Thonko_24
52: PenguinLover67_27
53: Funsized_28
54: Quesadilla_26
55: Knocker_27
56: CRB2_27
57: Rinkes_28
58: Asis_19 + 5
59: Abi2graduatex2_20
60: Mischief19_27
61: Xkcd426_25
62: YDN12_20
63: RainyPolka_20
64: KimJongPhil_18
65: Zuko_15
66: Creature_16
67: Tycho_29 + 10
68: Gaea_29 + 5
69: RiverRaider_30
70: Lilbeanie_25
71: GodonK_84 + 1
72: CalB_24
73: BigglyBass_22
74: MossRose_24 + 3
75: AksarBAT_22
76: Sisko_22 + 1
77: CharlotteSWeb_22 + 1
78: Wooper_24 + 2
79: AnClar_23
80: JellyBelly_22
81: Fresco_22 + 3
82: Manokart_22
83: MakoManhole_24 + 1
84: BobRoss2024_21
85: Evaa_23
86: Sour_26
87: Coldpizza_25
88: LittleMunchkin_24
89: Sixama_94
90: Mareelin_94 + 3
91: GMA2_25
92: Jollipop_33 + 34
93: SirFrank_32
94: Nicole72_28
95: Zapato_32
96: Fireman_33
97: RobsFeet_34 + 1
98: Shrubaron_33
99: Megan_27
100: NoodlelyBoi_33 + 1

Pham 347045


I01: Skugga_31
I02: Jayden_34
I03: Merry_
I04: Sunny_
I05: Teamocil_34 + 1
I06: Ariadne_41 + 1
I07: Qunwan_36
I08: Tyrumbra_31
I09: Margaery_28
I10: Terij_29
I11: Cressida_30
I12: Kozie_29
I13: MementoMori_29
I14: Cinna_28
I15: Matzah_29
I16: SJReid_90
I17: DunneganBoMo_77 + 3
I18: Rockabye_86
I19: GoldenEssence_73
I20: Talia1610_87 + 2
I21: Chilliams_84
I22: Bloom_91 + 2
I23: FloraSnap32_84
I24: KSunshine22_82 + 1
I25: Phrampa_79
I26: ReginaGlobina_87 + 2
I27: Panchaali_80
I28: Stewart25555_78
I29: Leaf_73 + 1
I30: Rasputia_68
I31: Hendrix_67
I32: A3Wally_94 + 2
I33: Erasmago_85
I34: Big4_83
I35: Zooman_79
I36: Cece_77
I37: Pumpernickel_91
I38: MisoSoup_24
I39: FuzzBuster_37
I40: Taptic_19 + 4
I41: GodPhather_20 + 2
I42: OnionKnight_11
I43: Pine5_25
I44: TPA2_31
I45: Kithara_33
I46: TurkishDelight_25

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 347045 Report

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

WARNING: Pham size does not match number of genes in report. Either unphamerated genes have been added (by you) or starterator has removed genes due to invalid start codon.

Pham number 347045 has 679 members, 78 are drafts.

Phages represented in each track:
• Track 1 : Mask_22, Dori_22, Mao1_21, Sejanus_22
• Track 2 : Giraffe_25, Hetaeria_25, Oosterbaan_25, Potter_24, Usavi_25, Kikipoo_25, Pipsqueak_25, Mana_24, Scoot17C_25, LostAndPhound_24, HighStump_24, Orion_25, Megatron_25, Grand2040_24, Chorkpop_25, DoesntMatter_25, Kahve_24, LeiMonet_25, Cosmolli16_24, TallGrassMM_25, IsaacEli_25, MRabcd_24, Lasso_25, UAch1_25, Morty_25, FugateOSU_24, Vista_25, Placalicious_24, PG1_25
• Track 3 : Jiminy_24, Hekos_22, DuchessDung_23, Aleia_25, Caspiboi_24, HogWash_24, MrPhizzler_25, Oline_24, Maskar_24, Derpp_24, Cornbread_24, TyrionL_24, Zonia_25, Ashraf_24, Taraxa_25, Hocus_24, Trypo_25, Plata_24, Swiphy_25, Etaye_25, Doddsville_25, Kiwot_24, JakeO_24, Schueller_24, JDog_24, ImtiyazSitla_24, Durga_25, Karn_24, GeneCoco_25, Dati_25, DaddyDaniels_25, Duggie_24, FleetyMac_25, Longacauda_24, Wallhey_24, Kwksand96_24, Brilliant_25, Happabalu_25, Vectra_24, Struggle_24, Weher20_25, Vaishali24_24, Salazzle_25, PhatLouie_25, Jbug01_25, Melc17_25, Labeouficaum_24, CharlieGBrown_24, Pinkman_24
• Track 4 : Flake_25, SirBeauregard_24, Larson_26, Phleuron_24, MelsMeow_24, Rimu_25, BatteryCK_24, Phergie_24, Magic8_25, OSmaximus_25, Veritas_24, Coletti_25, Kailash_25, Chute_25, Windsor_24, Keitherie_25, Virgeve_24, Mag7_24, PhrankReynolds_24, Gwennie1_25, ElvisPhasley_25, PhenghisKhan_24, BlacksBerry_24, MichaelPhcott_24, Iridessa_25, Nova1_24, Apizium_24, Nehme_24, Hartsy_25, Nathan_25, Chaelin_24, Khan1_24
• Track 5 : Serpentine_0025, Haimas_25, Banjo_24, Iridoclysis_25, Mikota_25, Nacho_0025, Manad_24, Murdoc_25, Chunky_25, Adriana_25, OneBrain_25, Nicole21_25, FremontTroll_24, Kimbrough_25, Lumine_24, Septica_24, Maru_24, Burr_24, Selr12_25, Inchworm_25, OliverWalter_25, Valjean_25, Matalotodo_25, KingVeVeVe_25, SilverBell_25, Triad_25, Olive_25, Gyarad_0025, Zelda_25, EmpTee_25, Mecca_24, Eugenia_25, Mulan_24, Prickles_25, FluffyNinja_25, Thora_25, LuckyMarjie_24, ShadowBud_25, Altwerkus_24, DirtJuice_25, Basato_26, Frankicide_25, Boehler_25, KLucky39_25, Cher_24, CamL_25, Azuria_24, Gwilliam_25, Skippy_25, SDcharge11_25, Antonia_24, Gareth_24, Buckeye_25, Megamind20_25, Newman_25, Kwadwo_24, Squid_25, Daffy_25, RedRaider89_26, NiaNia_26, Cornobble_24, Freya_24, ABU_25, Numberten_25, Hamish_25,

TooFast2Furius_26, Andre_25, ThreeOh3D2_25, BlackStallion_25, Yoshand_25, Mcshane_24, HSavage_25, Schadenfreude_24, Haleema_24, Scrick_25, MitKao_25, Swish_25, Bishoperium_24, Mutante_24, BoogieWoogie_25, Serendipity_25, Sigman_25, Roy17_25, Xavier_24, CheetO_25, Emiris_25, Spartan300_25, Cobra_25, DolOn_26, Bluephacebaby_24, Dingo_25, Lulwa_25, LeeLot_25, KlimbOn_25, BlueHusk_25, PhrodoBaggins_24, PinheadLarry_25, Beaglebox_24, Jillium_24, Sophia_24, Lopsy_24, AngelCake_25, Surely_25, Slatt_25, Toni_24, Mosaic_24, ProfessorX_25, Solosis_24, Jesabah_25, Virapocalypse_25, Crownjwl_25, Mesmerelda_24, Roliet_25, Orwigg_24, Harvey_25, Plmatters_25, Telesworld_24, SassyCat97_24, Hertubise_25, QueenBeane_25, Childish_24, Fozzie_24, Omniscient_25, MiniBoss_25, CampRoach_25, Ricotta_24, Badfish_25, Held_25, JangoPhett_25, Lego3393_25, Horchata_25, Lulumae_24, Pops_25, Nyala_24, Colbert_25, Phareon_25, AbsoluteMadLad_24, Pacifista_24, Inverness_25, Fang_25, YouGoGlencoco_25, Quisquiliae_25, Waterdiva_25, UncleHowie_25, LemonSlice_25, Charles1_25, Chipette_26, DonSanchon_24, Legolas_24, Cannibal_25, EmGer13_24, Gophee_25, PallasAthena_24, Eremos_25, Morgushi_25, Dice_24, Simielle_24, Carthage_23, Riggan_25, Puhltonio_25, Dione_24, Sheila_25, Mesh1_25, Samaymay_25, Timmi_24, True_24, Katniss_25, Daka_25, Squiggle_25, Thunderbird_24, TomBombadil_25, Lehmann_25, AltPhacts_25, Phipps_25, Kloppinator_25, Craff_25, PhatCats2014_25, Zaider_26, Piglet_0024, Roscoe_26, Suffolk_25, HenryJackson_24, Phunky_25, Phamished_25, Fringe_25, Vaticameos_25, Olak_24, SallyH_25, Robyn_24, Orfeu_24, Podrick_25, GreenChile_25, FriarPreacher_25, Soto_25, Pherdinand_25, Aonishiki_25, ShiVal_25, Tooj_25, RedMaple_24, Riverton_25, JacAttac_25, Anderson_25, Aelin_24, Jiraiya_24, Tomlarah_25, Vortex_25, Vivaldi_25

- Track 6 : DelRivs_24, Soile_25
- Track 7 : LasagnaCat_25
- Track 8 : Chuni_25
- Track 9 : Imvubu_19
- Track 10 : Indlovu_23
- Track 11 : LilMcDreamy_22
- Track 12 : LittleMinkey_30, BirdsNest_28
- Track 13 : Hashim76_29
- Track 14 : Zenteno07_29
- Track 15 : Phantasmagoria_27, Allegro_27, Sabella_27, LizLemon_27, Kheth_27, Faze9_27, Brownie5_27, Coffee_27, West99_27, Kaleb_27, MasterPo_27, TA17A_28, Calamitous_27, Kolhan_27, Rhinoforte_27, Opia_27, LilSmirk_27, Tinciduntsolum_28, Arbiter_27, Tres_27, Lars_27, Bananafish_27, Eaglehorse_27, Boyle_27, Hedgerow_27, Holeinone_27, PrinceCharming_27, Rosebush_27, Glass_27, Blocker23_27, Ares_27, Qyrzula_25, Lephleur_27, FrenchFry_27, ItsyBitsy1_27
- Track 16 : Vic9_00027
- Track 17 : Laurie_27
- Track 18 : Godines_27
- Track 19 : Mulaychimus_26, Bernardo_26, Baloo_26, Briakila_26, Ben11_25, TinyTerror_26, MmasiCarm_26, Chalmers_26, GlenHope_27, Chentzyk_25, Audrey_26, Pipefish_26, Phlyer_26, Tydolla_26, SlippinJimmy_26, Marley1013_26, Heathcliff_26, Yahalom_26, Kronus_25, Halfpint_25, Gadjet_27, Gervas_26, Morty007_26, Mortcellus_25, Akoma_26
- Track 20 : OrangeOswald_26, Olivio_25, Yinz_26, RagingRooster_26, ChaChing_26, Athena_27, Glubnar_27, Neos5_26, LestyG_26, Corofin_26, Phayeta_26, Devonte_26, Abinghost_26, SwainyDoc_26, Deenasa_26, Nozo_26, Obutu_26, Shenandoah_26, SynergyX_26, Chandler_26, Rita1961_26,

Compostia_27, Casbah_25, Philly_25, Kamiyu_26
• Track 21 : HarveySr_26, RomaT_26, Daisy_26
• Track 22 : Marlia_26
• Track 23 : Hally898_22, Ahwei_22, Antihero_22, Poster_22, Lambano_22, Epah_22, GinPorsche_22, Nanao_22
• Track 24 : Magpie_22, Hangman_23, Waleliano_23, BrownCNA_24, Mithril_23, Zemanar_24, JaguarMi_23, JoyceMaria_23, Heath_22
• Track 25 : VioletZ_23
• Track 26 : Nigel_21
• Track 27 : QueenPie_22
• Track 28 : Renkei_22, ChrisnMich_22, LittleDigger_22
• Track 29 : Stinger_21
• Track 30 : Mudslide_23, RawrgerThat_23, Frederick_23, Prince_23, Fortunato_23, Apex_23, BobbyK_23, Austelle_24
• Track 31 : JAMaL_23
• Track 32 : Fanaw_22
• Track 33 : Xincheng_22
• Track 34 : Cooper_23
• Track 35 : AlanGrant_24, Vincenzo_24
• Track 36 : Hydro_23, Lolalove_23
• Track 37 : Rita130_25, Reccee_25, Acadian_25, Donny_25, Suigeneris_25, SirJeffery_25
• Track 38 : Phelemich_25, Reprobate_25
• Track 39 : Serendipitous_24
• Track 40 : StinkyVeggy_27, KarasumaRum_27
• Track 41 : Shenyu_25, DigitDog_25, Nangang_25
• Track 42 : Rich_24, Baee_24
• Track 43 : EastView9101_24
• Track 44 : Mysterious_25, Nehemiah_24
• Track 45 : KayaCho_21, Minnow_22
• Track 46 : Hosp_019
• Track 47 : 40BC_021, 39HC_021
• Track 48 : ForDig_21
• Track 49 : Jolie1_021
• Track 50 : Saguaro_26
• Track 51 : Thonko_24
• Track 52 : PenguinLover67_27
• Track 53 : Funsized_28
• Track 54 : Quesadilla_26
• Track 55 : Knocker_27
• Track 56 : CRB2_27
• Track 57 : Rinkes_28
• Track 58 : Asis_19, BayC_19, BabyGotBac_19, Maih_19, Salete_19, TP1604_19
• Track 59 : Abt2graduatex2_20
• Track 60 : Mischief19_27
• Track 61 : Xkcd426_25
• Track 62 : YDN12_20
• Track 63 : RainyPolka_20
• Track 64 : KimJongPhill_18
• Track 65 : Zuko_15
• Track 66 : Creature_16
• Track 67 : Tycho_29, Baumdotcom_29, Ashertheman_30, Tangerine_29, Gustavo_29, LilHam_27, SchottB_28, Saronaya_29, StorminNorm_29, Kroos_30,

Kwobi_31
• Track 68 : Gaea_29, Ribeye_30, Derg_25, Bizzy_30, Flatwoods_30, Baddon_29
• Track 69 : RiverRaider_30
• Track 70 : Lilbeanie_25
• Track 71 : GodonK_84, Phendrix_82
• Track 72 : CaiB_24
• Track 73 : BiggityBass_22
• Track 74 : MossRose_24, Blackpen_24, CloverMinnie_24, AnarQue_24
• Track 75 : AksarBAT_22
• Track 76 : Sisko_22, Yago84_22
• Track 77 : CharlottesWeb_22, Coco2012_22
• Track 78 : Wooper_24, TraderJ_24, Yeshua_24
• Track 79 : AnClar_23
• Track 80 : JellyBelly_22
• Track 81 : Fresco_22, Axumite_22, Shatter_22, Ligma_22
• Track 82 : Mariokart_22
• Track 83 : MakoManhole_24, FelixTres_24
• Track 84 : BobRoss2024_21
• Track 85 : Evaa_23
• Track 86 : Sour_26
• Track 87 : Coldpizza_25
• Track 88 : LittleMunchkin_24
• Track 89 : Sixama_94
• Track 90 : Mareelih_94, BlueNGold_95, Forza_96, Boopy_96
• Track 91 : GMA2_25
• Track 92 : Jollipop_33, Busephilis_32, KaiHaiDragon_33, Pulchra_34, Lucretia_33, BeagleBug_32, Honeyfin_34, EarickHC_33, PhedwardCullen_32, Scumberland_34, Antares_33, Rockwell_32, Phorgeous_32, Jefe_33, Ramiel05_32, Onika_32, Phrancesco_33, Savannah_32, Hermeonysus_32, PiperSansNom_33, Selwyn23_34, Cranjis_34, Glorp_34, CrazyRich_32, Crisis_34, PierreOrion_33, Shotgun_32, LittleFortune_34, Yeti_33, Paschalis_32, Ganandorf_32, BrazzalePHS_32, Germa_34, Piperis_33, Kowalski_32
• Track 93 : SirFrank_32
• Track 94 : Nicole72_28
• Track 95 : Zapato_32
• Track 96 : Fireman_33
• Track 97 : RobsFeet_34, Metamorphoo_33
• Track 98 : Shrubaron_33
• Track 99 : Megan_27
• Track 100 : NoodlelyBoi_33, ClearAsMud_35
• Track 101 : Skugga_31
• Track 102 : Jayden_34
• Track 103 : Merry_
• Track 104 : Sunny_
• Track 105 : Teamocil_34, Gina_34
• Track 106 : Ariadne_41, Smarties_41
• Track 107 : Quhwah_36
• Track 108 : Tyrumbra_31
• Track 109 : Margaery_28
• Track 110 : Terij_29
• Track 111 : Cressida_30
• Track 112 : Kozie_29
• Track 113 : MementoMori_29

• Track 114 : Cinna_28
• Track 115 : Matzah_29
• Track 116 : SJReid_90
• Track 117 : DunneganBoMo_77, Ellewin_76, BooTeria_78, Artu_78
• Track 118 : Rockabye_86
• Track 119 : GoldenEssence_73
• Track 120 : Talia1610_87, Patbob_86, FrostedClock_86
• Track 121 : Chilliams_84
• Track 122 : Bloom_91, Racecar_88, Mimi_87
• Track 123 : FloraSnap32_84
• Track 124 : KSunshine22_82, WaddleDee_75
• Track 125 : Phrampa_79
• Track 126 : ReginaGlobina_87, Atuin_82, LeoJr_87
• Track 127 : Panchaali_80
• Track 128 : Stewart25555_78
• Track 129 : Leaf_73, Dewdrop_73
• Track 130 : Rasputia_68
• Track 131 : Hendrix_67
• Track 132 : A3Wally_94, PauloDiaboli_94, Dodo_96
• Track 133 : Erasmago_85
• Track 134 : Big4_83
• Track 135 : Zooman_79
• Track 136 : Cece_77
• Track 137 : Pumpernickel_91
• Track 138 : MisoSoup_24
• Track 139 : FuzzBuster_37
• Track 140 : Taptic_19, PR_19, Cepens_19, D12_19, Megabear_19
• Track 141 : GodPhather_20, Argie_20, Jeon_19
• Track 142 : OnionKnight_11
• Track 143 : Pine5_25
• Track 144 : TPA2_31
• Track 145 : Kithara_33
• Track 146 : TurkishDelight_25

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

The start number called the most often in the published annotations is 59, it was called in 263 of the 601 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• ABU_25, AbsoluteMadLad_24, Adriana_25, Aelin_24, Allegro_27, AltPhacts_25, Altwerkus_24, Anderson_25, Andre_25, AngelCake_25, Antonia_24, Aonishiki_25, Arbiter_27, Ares_27, Azuria_24, Badfish_25, Bananafish_27, Banjo_24, Basato_26, Beaglebox_24, Bishoperium_24, BlackStallion_25, Blocker23_27, BlueHusk_25, Bluephacebaby_24, Boehler_25, BoogieWoogie_25, Boyle_27, Brownie5_27, Buckeye_25, Burr_24, Calamitous_27, CamL_25, CampRoach_25, Cannibal_25, Carthage_23, Charles1_25, CheetO_25, Cher_24, Childish_24, Chipette_26, Chorkpop_25, Chuni_25, Chunky_25, Cobra_25, Coffee_27, Colbert_25, Cornobble_24, Cosmolli16_24, Craff_25, Crownjwl_25, Daffy_25, Daka_25, Dice_24, Dingo_25, Dione_24, DirtJuice_25, DoesntMatter_25, DolOn_26, DonSanchon_24,

Eaglehorse_27, EmGer13_24, Emiris_25, EmpTee_25, Eremos_25, Eugenia_25, Fang_25, Faze9_27, FluffyNinja_25, Fozzie_24, Frankicide_25, FremontTroll_24, FrenchFry_27, Freya_24, FriarPreacher_25, Fringe_25, FugateOSU_24, Gareth_24, Giraffe_25, Glass_27, Godines_27, Gophee_25, Grand2040_24, GreenChile_25, Gwilliam_25, Gyarad_0025, HSavage_25, Haimas_25, Haleema_24, Hamish_25, Harvey_25, Hedgerow_27, Held_25, HenryJackson_24, Hertubise_25, Hetaeria_25, HighStump_24, Holeinone_27, Horchata_25, Inchworm_25, Inverness_25, Iridoclysis_25, IsaacEli_25, ItsyBitsy1_27, JacAttac_25, JangoPhett_25, Jesabah_25, Jillium_24, Jiraiya_24, KLucky39_25, Kahve_24, Kaleb_27, Katniss_25, Kheth_27, Kikipoo_25, Kimbrough_25, KingVeVeVe_25, KlimbOn_25, Kloppinator_25, Kolhan_27, Kwadwo_24, Lars_27, LasagnaCat_25, Lasso_25, Laurie_27, LeeLot_25, Lego3393_25, Legolas_24, Lehmann_25, LeiMonet_25, LemonSlice_25, Lephleur_27, LilSmirk_27, LizLemon_27, Lopsy_24, LostAndPhound_24, LuckyMarjie_24, Lulumae_24, Lulwa_25, Lumine_24, MRabcd_24, Mana_24, Manad_24, Maru_24, MasterPo_27, Matalotodo_25, Mcshane_24, Mecca_24, Megamind20_25, Megatron_25, Mesh1_25, Mesmerelda_24, Mikota_25, MiniBoss_25, MitKao_25, Morgushi_25, Morty_25, Mosaic_24, Mulan_24, Murdoc_25, Mutante_24, Nacho_0025, Newman_25, NiaNia_26, Nicole21_25, Numberten_25, Nyala_24, Olak_24, Olive_25, OliverWalter_25, Omniscient_25, OneBrain_25, Oosterbaan_25, Opia_27, Orfeu_24, Orion_25, Orwigg_24, PG1_25, Pacifista_24, PallasAthena_24, Phamished_25, Phantasmagoria_27, Phareon_25, PhatCats2014_25, Pherdinand_25, Phipps_25, PhrodoBaggins_24, Phunky_25, Piglet_0024, PinheadLarry_25, Pipsqueak_25, Placalicious_24, Plmatters_25, Podrick_25, Pops_25, Potter_24, Prickles_25, PrinceCharming_27, ProfessorX_25, Puhltonio_25, QueenBeane_25, Quisquiliae_25, Qyrzula_25, RedMaple_24, RedRaider89_26, Rhinoforte_27, Ricotta_24, Riggan_25, Riverton_25, Robyn_24, Roliet_25, Roscoe_26, Rosebush_27, Roy17_25, SDcharge11_25, Sabella_27, SallyH_25, Samaymay_25, SassyCat97_24, Schadenfreude_24, Scoot17C_25, Scrick_25, Selr12_25, Septica_24, Serendipity_25, Serpentine_0025, ShadowBud_25, Sheila_25, ShiVal_25, Sigman_25, SilverBell_25, Simielle_24, Skippy_25, Slatt_25, Solosis_24, Sophia_24, Soto_25, Spartan300_25, Squid_25, Squiggle_25, Suffolk_25, Surely_25, Swish_25, TA17A_28, TallGrassMM_25, Telesworld_24, Thora_25, ThreeOh3D2_25, Thunderbird_24, Timmi_24, Tinciduntsolum_28, TomBombadil_25, Tomlarah_25, Toni_24, TooFast2Furius_26, Tooj_25, Tres_27, Triad_25, True_24, UAch1_25, UncleHowie_25, Usavi_25, Valjean_25, Vaticameos_25, Vic9_00027, Virapocalypse_25, Vista_25, Vivaldi_25, Vortex_25, Waterdiva_25, West99_27, Xavier_24, Yoshand_25, YouGoGlencoco_25, Zaider_26, Zelda_25,

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

Genes that do not have the "Most Annotated" start:
• 39HC_021, 40BC_021, A3Wally_94, Abinghost_26, Abt2graduatex2_20, Acadian_25, Ahwei_22, Akoma_26, AksarBAT_22, AlanGrant_24, Aleia_25, AnClar_23, AnarQue_24, Antares_33, Antihero_22, Apex_23, Apizium_24, Argie_20, Ariadne_41, Artu_78, Ashertheman_30, Ashraf_24, Asis_19, Athena_27, Atuin_82, Audrey_26, Austelle_24, Axumite_22, BabyGotBac_19, Baddon_29, Baee_24, Baloo_26, BatteryCK_24, Baumdotcom_29, BayC_19, BeagleBug_32, Ben11_25, Bernardo_26, Big4_83, BiggityBass_22, BirdsNest_28, Bizzy_30, Blackpen_24, BlacksBerry_24, Bloom_91, BlueNGold_95, BobRoss2024_21, BobbyK_23, BooTeria_78, Boopy_96, BrazzalePHS_32, Briakila_26, Brilliant_25, BrownCNA_24, Busephilis_32, CRB2_27, CaiB_24, Casbah_25, Caspiboi_24, Cece_77, Cepens_19,

ChaChing_26, Chaelin_24, Chalmers_26, Chandler_26, CharlieGBrown_24, CharlottesWeb_22, Chentzyk_25, Chilliams_84, ChrisnMich_22, Chute_25, Cinna_28, ClearAsMud_35, CloverMinnie_24, Coco2012_22, Coldpizza_25, Coletti_25, Compostia_27, Cooper_23, Cornbread_24, Corofin_26, Cranjis_34, CrazyRich_32, Creature_16, Cressida_30, Crisis_34, D12_19, DaddyDaniels_25, Daisy_26, Dati_25, Deenasa_26, DelRivs_24, Derg_25, Derpp_24, Devonte_26, Dewdrop_73, DigitDog_25, Doddsville_25, Dodo_96, Donny_25, Dori_22, DuchessDung_23, Duggie_24, DunneganBoMo_77, Durga_25, EarickHC_33, EastView9101_24, Ellewin_76, ElvisPhasley_25, Epah_22, Erasmago_85, Etaye_25, Evaa_23, Fanaw_22, FelixTres_24, Fireman_33, Flake_25, Flatwoods_30, FleetyMac_25, FloraSnap32_84, ForDig_21, Fortunato_23, Forza_96, Frederick_23, Fresco_22, FrostedClock_86, Funsized_28, FuzzBuster_37, GMA2_25, Gadjet_27, Gaea_29, Ganandorf_32, GeneCoco_25, Germa_34, Gervas_26, GinPorsche_22, Gina_34, GlenHope_27, Glorp_34, Glubnar_27, GodPhather_20, GodonK_84, GoldenEssence_73, Gustavo_29, Gwennie1_25, Halfpint_25, Hally898_22, Hangman_23, Happabalu_25, Hartsy_25, HarveySr_26, Hashim76_29, Heath_22, Heathcliff_26, Hekos_22, Hendrix_67, Hermeonysus_32, Hocus_24, HogWash_24, Honeyfin_34, Hosp_019, Hydro_23, ImtiyazSitla_24, Imvubu_19, Indlovu_23, Iridessa_25, JAMaL_23, JDog_24, JaguarMi_23, JakeO_24, Jayden_34, Jbug01_25, Jefe_33, JellyBelly_22, Jeon_19, Jiminy_24, Jolie1_021, Jollipop_33, JoyceMaria_23, KSunshine22_82, KaiHaiDragon_33, Kailash_25, Kamiyu_26, KarasumaRum_27, Karn_24, KayaCho_21, Keitherie_25, Khan1_24, KimJongPhill_18, Kithara_33, Kiwot_24, Knocker_27, Kowalski_32, Kozie_29, Kronus_25, Kroos_30, Kwksand96_24, Kwobi_31, Labeouficaum_24, Lambano_22, Larson_26, Leaf_73, LeoJr_87, LestyG_26, Ligma_22, LilHam_27, LilMcDreamy_22, Lilbeanie_25, LittleDigger_22, LittleFortune_34, LittleMinkey_30, LittleMunchkin_24, Lolalove_23, Longacauda_24, Lucretia_33, Mag7_24, Magic8_25, Magpie_22, Maih_19, MakoManhole_24, Mao1_21, Mareelih_94, Margaery_28, Mariokart_22, Marley1013_26, Marlia_26, Mask_22, Maskar_24, Matzah_29, Megabear_19, Megan_27, Melc17_25, MelsMeow_24, MementoMori_29, Merry_, Metamorphoo_33, MichaelPhcott_24, Mimi_87, Minnow_22, Mischief19_27, MisoSoup_24, Mithril_23, MmasiCarm_26, Mortcellus_25, Morty007_26, MossRose_24, MrPhizzler_25, Mudslide_23, Mulaychimus_26, Mysterious_25, Nanao_22, Nangang_25, Nathan_25, Nehemiah_24, Nehme_24, Neos5_26, Nicole72_28, Nigel_21, NoodlelyBoi_33, Nova1_24, Nozo_26, OSmaximus_25, Obutu_26, Oline_24, Olivio_25, Onika_32, OnionKnight_11, OrangeOswald_26, PR_19, Panchaali_80, Paschalis_32, Patbob_86, PauloDiaboli_94, PenguinLover67_27, PhatLouie_25, Phayeta_26, PhedwardCullen_32, Phelemich_25, Phendrix_82, PhenghisKhan_24, Phergie_24, Philly_25, Phleuron_24, Phlyer_26, Phorgeous_32, Phrampa_79, Phrancesco_33, PhrankReynolds_24, PierreOrion_33, Pine5_25, Pinkman_24, Pipefish_26, PiperSansNom_33, Piperis_33, Plata_24, Poster_22, Prince_23, Pulchra_34, Pumpernickel_91, QueenPie_22, Quesadilla_26, Quhwah_36, Racecar_88, RagingRooster_26, RainyPolka_20, Ramiel05_32, Rasputia_68, RawrgerThat_23, Reccee_25, ReginaGlobina_87, Renkei_22, Reprobate_25, Ribeye_30, Rich_24, Rimu_25, Rinkes_28, Rita130_25, Rita1961_26, RiverRaider_30, RobsFeet_34, Rockabye_86, Rockwell_32, RomaT_26, SJReid_90, Saguaro_26, Salazzle_25, Salete_19, Saronaya_29, Savannah_32, SchottB_28, Schueller_24, Scumberland_34, Sejanus_22, Selwyn23_34, Serendipitous_24, Shatter_22, Shenandoah_26, Shenyu_25, Shotgun_32, Shrubaron_33, SirBeauregard_24, SirFrank_32, SirJeffery_25, Sisko_22, Sixama_94, Skugga_31, SlippinJimmy_26, Smarties_41, Soile_25, Sour_26, Stewart25555_78, Stinger_21, StinkyVeggy_27, StorminNorm_29, Struggle_24, Suigeneris_25, Sunny_, SwainyDoc_26, Swiphy_25, SynergyX_26, TP1604_19, TPA2_31, Talia1610_87, Tangerine_29, Taptic_19,

Taraxa_25, Teamocil_34, Terij_29, Thonko_24, TinyTerror_26, TraderJ_24, Trypo_25, TurkishDelight_25, Tycho_29, Tydolla_26, TyrionL_24, Tyrumbra_31, Vaishali24_24, Vectra_24, Veritas_24, Vincenzo_24, VioletZ_23, Virgeve_24, WaddleDee_75, Waleliano_23, Wallhey_24, Weher20_25, Windsor_24, Wooper_24, Xincheng_22, Xkcd426_25, YDN12_20, Yago84_22, Yahalom_26, Yeshua_24, Yeti_33, Yinz_26, Zapato_32, Zemanar_24, Zenteno07_29, Zonia_25, Zooman_79, Zuko_15,

Summary by start number:

Start 34:
• Found in 1 of 679 (0.1%) of genes in pham
• Manual Annotations of this start: 1 of 601
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Jayden_34 (EC),

Start 36:
• Found in 5 of 679 (0.7%) of genes in pham
• Manual Annotations of this start: 2 of 601
• Called 60.0% of time when present
• Phage (with cluster) where this start called: Gina_34 (EC), Skugga_31 (EC), Teamocil_34 (EC),

Start 39:
• Found in 1 of 679 (0.1%) of genes in pham
• Manual Annotations of this start: 1 of 601
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Lilbeanie_25 (DE5),

Start 40:
• Found in 2 of 679 (0.3%) of genes in pham
• Manual Annotations of this start: 2 of 601
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Hendrix_67 (GC), OnionKnight_11 (singleton),

Start 41:
• Found in 65 of 679 (9.6%) of genes in pham
• Manual Annotations of this start: 57 of 601
• Called 95.4% of time when present
• Phage (with cluster) where this start called: Antares_33 (EC), Ariadne_41 (EC), BeagleBug_32 (EC), BrazzalePHS_32 (EC), Busephilis_32 (EC), Cinna_28 (EI), ClearAsMud_35 (EC), Cranjis_34 (EC), CrazyRich_32 (EC), Cressida_30 (EI), Crisis_34 (EC), Dewdrop_73 (GC), EarickHC_33 (EC), Fireman_33 (EC), FuzzBuster_37 (GM), Ganandorf_32 (EC), Germa_34 (EC), Glorp_34 (EC), Hermeonysus_32 (EC), Honeyfin_34 (EC), Jefe_33 (EC), Jollipop_33 (EC), KaiHaiDragon_33 (EC), Kithara_33 (singleton), Kowalski_32 (EC), Kozie_29 (EI), Leaf_73 (GC), LittleFortune_34 (EC), Lucretia_33 (EC), Margaery_28 (EI), Matzah_29 (EI), MementoMori_29 (EI), Merry_ (EC), Metamorphoo_33 (EC), MisoSoup_24 (GM), NoodlelyBoi_33 (EC), Onika_32 (EC), Paschalis_32 (EC), PhedwardCullen_32 (EC), Phorgeous_32 (EC), Phrancesco_33 (EC), PierreOrion_33 (EC), PiperSansNom_33 (EC), Piperis_33 (EC), Pulchra_34 (EC), Quhwah_36 (EC), Ramiel05_32 (EC), Rasputia_68 (GC), RobsFeet_34 (EC), Rockwell_32 (EC),

Savannah_32 (EC), Scumberland_34 (EC), Selwyn23_34 (EC), Shotgun_32 (EC), Shrubaron_33 (EC), SirFrank_32 (EC), Smarties_41 (EC), Sunny_ (EC), Terij_29 (EI), Tyrumbra_31 (EC), Yeti_33 (EC), Zapato_32 (EC),

Start 42:
• Found in 1 of 679 (0.1%) of genes in pham
• Manual Annotations of this start: 1 of 601
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Nicole72_28 (EC),

Start 43:
• Found in 7 of 679 (1.0%) of genes in pham
• Manual Annotations of this start: 7 of 601
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Baddon_29 (DE1), Bizzy_30 (DE1), Derg_25 (DE1), Flatwoods_30 (DE1), Gaea_29 (DE1), Ribeye_30 (DE1), RiverRaider_30 (DE1),

Start 46:
• Found in 12 of 679 (1.8%) of genes in pham
• Manual Annotations of this start: 12 of 601
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Ashertheman_30 (DE1), Baumdotcom_29 (DE1), Gustavo_29 (DE1), Kroos_30 (DE1), Kwobi_31 (DE1), LilHam_27 (DE1), Megan_27 (EC), Saronaya_29 (DE1), SchottB_28 (DE1), StorminNorm_29 (DE1), Tangerine_29 (DE1), Tycho_29 (DE1),

Start 50:
• Found in 5 of 679 (0.7%) of genes in pham
• Manual Annotations of this start: 1 of 601
• Called 20.0% of time when present
• Phage (with cluster) where this start called: Sour_26 (DR),

Start 51:
• Found in 1 of 679 (0.1%) of genes in pham
• Manual Annotations of this start: 1 of 601
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Pumpernickel_91 (GD4),

Start 53:
• Found in 1 of 679 (0.1%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: TPA2_31 (singleton),

Start 55:
• Found in 5 of 679 (0.7%) of genes in pham
• Manual Annotations of this start: 5 of 601
• Called 100.0% of time when present
• Phage (with cluster) where this start called: A3Wally_94 (GD1), Dodo_96 (GD1), GodonK_84 (DK), PauloDiaboli_94 (GD1), Phendrix_82 (DK),

Start 56:

• Found in 3 of 679 (0.4%) of genes in pham
• Manual Annotations of this start: 2 of 601
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Big4_83 (GD2), Zooman_79 (GD2),

Start 57:
• Found in 1 of 679 (0.1%) of genes in pham
• Manual Annotations of this start: 1 of 601
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Cece_77 (GD3),

Start 58:
• Found in 92 of 679 (13.5%) of genes in pham
• Manual Annotations of this start: 72 of 601
• Called 98.9% of time when present
• Phage (with cluster) where this start called: 39HC_021 (B6), 40BC_021 (B6), Aleia_25 (B1), Apizium_24 (B1), Ashraf_24 (B1), BatteryCK_24 (B1), BlacksBerry_24 (B1), Brilliant_25 (B1), Caspiboi_24 (B1), Chaelin_24 (B1), CharlieGBrown_24 (B1), Chute_25 (B1), Coletti_25 (B1), Cornbread_24 (B1), DaddyDaniels_25 (B1), Dati_25 (B1), DelRivs_24 (B1), Derpp_24 (B1), Doddsville_25 (B1), DuchessDung_23 (B1), Duggie_24 (B1), Durga_25 (B1), ElvisPhasley_25 (B1), Etaye_25 (B1), Flake_25 (B1), FleetyMac_25 (B1), ForDig_21 (B6), GeneCoco_25 (B1), Gwennie1_25 (B1), Happabalu_25 (B1), Hartsy_25 (B1), Hekos_22 (B1), Hocus_24 (B1), HogWash_24 (B1), Hosp_019 (B6), ImtiyazSitla_24 (B1), Indlovu_23 (B11), Iridessa_25 (B1), JDog_24 (B1), JakeO_24 (B1), Jbug01_25 (B1), Jiminy_24 (B1), Jolie1_021 (B6), Kailash_25 (B1), Karn_24 (B1), KayaCho_21 (B6), Keitherie_25 (B1), Khan1_24 (B1), Kiwot_24 (B1), Kwksand96_24 (B1), Labeouficaum_24 (B1), Larson_26 (B1), Longacauda_24 (B1), Mag7_24 (B1), Magic8_25 (B1), Maskar_24 (B1), Melc17_25 (B1), MelsMeow_24 (B1), MichaelPhcott_24 (B1), Minnow_22 (B6), MrPhizzler_25 (B1), Nathan_25 (B1), Nehme_24 (B1), Nova1_24 (B1), OSmaximus_25 (B1), Oline_24 (B1), PhatLouie_25 (B1), PhenghisKhan_24 (B1), Phergie_24 (B1), Phleuron_24 (B1), PhrankReynolds_24 (B1), Pinkman_24 (B1), Plata_24 (B1), Rimu_25 (B1), Salazzle_25 (B1), Schueller_24 (B1), SirBeauregard_24 (B1), Soile_25 (B1), Struggle_24 (B1), Swiphy_25 (B1), Taraxa_25 (B1), Trypo_25 (B1), TyrionL_24 (B1), Vaishali24_24 (B1), Vectra_24 (B1), Veritas_24 (B1), Virgeve_24 (B1), Wallhey_24 (B1), Weher20_25 (B1), Windsor_24 (B1), Zonia_25 (B1),

Start 59:
• Found in 276 of 679 (40.6%) of genes in pham
• Manual Annotations of this start: 263 of 601
• Called 100.0% of time when present
• Phage (with cluster) where this start called: ABU_25 (B1), AbsoluteMadLad_24 (B1), Adriana_25 (B1), Aelin_24 (B1), Allegro_27 (B2), AltPhacts_25 (B1), Altwerkus_24 (B1), Anderson_25 (B1), Andre_25 (B1), AngelCake_25 (B1), Antonia_24 (B1), Aonishiki_25 (B1), Arbiter_27 (B2), Ares_27 (B2), Azuria_24 (B1), Badfish_25 (B1), Bananafish_27 (B2), Banjo_24 (B1), Basato_26 (B1), Beaglebox_24 (B1), Bishoperium_24 (B1), BlackStallion_25 (B1), Blocker23_27 (B2), BlueHusk_25 (B1), Bluephacebaby_24 (B1), Boehler_25 (B1), BoogieWoogie_25 (B1), Boyle_27 (B2), Brownie5_27 (B2), Buckeye_25 (B1), Burr_24 (B1), Calamitous_27 (B2), CamL_25 (B1), CampRoach_25 (B1), Cannibal_25 (B1), Carthage_23 (B1), Charles1_25 (B1), CheetO_25 (B1), Cher_24 (B1), Childish_24 (B1), Chipette_26 (B1), Chorkpop_25 (B1), Chuni_25 (B1), Chunky_25 (B1), Cobra_25 (B1), Coffee_27 (B2), Colbert_25 (B1), Cornobble_24 (B1), Cosmolli16_24 (B1), Craff_25 (B1), Crownjwl_25 (B1),

Daffy_25 (B1), Daka_25 (B1), Dice_24 (B1), Dingo_25 (B1), Dione_24 (B1), DirtJuice_25 (B1), DoesntMatter_25 (B1), DolOn_26 (B1), DonSanchon_24 (B1), Eaglehorse_27 (B2), EmGer13_24 (B1), Emiris_25 (B1), EmpTee_25 (B1), Eremos_25 (B1), Eugenia_25 (B1), Fang_25 (B1), Faze9_27 (B2), FluffyNinja_25 (B1), Fozzie_24 (B1), Frankicide_25 (B1), FremontTroll_24 (B1), FrenchFry_27 (B2), Freya_24 (B1), FriarPreacher_25 (B1), Fringe_25 (B1), FugateOSU_24 (B1), Gareth_24 (B1), Giraffe_25 (B1), Glass_27 (B2), Godines_27 (B2), Gophee_25 (B1), Grand2040_24 (B1), GreenChile_25 (B1), Gwilliam_25 (B1), Gyarad_0025 (B1), HSavage_25 (B1), Haimas_25 (B1), Haleema_24 (B1), Hamish_25 (B1), Harvey_25 (B1), Hedgerow_27 (B2), Held_25 (B1), HenryJackson_24 (B1), Hertubise_25 (B1), Hetaeria_25 (B1), HighStump_24 (B1), Holeinone_27 (B2), Horchata_25 (B1), Inchworm_25 (B1), Inverness_25 (B1), Iridoclysis_25 (B1), IsaacEli_25 (B1), ItsyBitsy1_27 (B2), JacAttac_25 (B1), JangoPhett_25 (B1), Jesabah_25 (B1), Jillium_24 (B1), Jiraiya_24 (B1), KLucky39_25 (B1), Kahve_24 (B1), Kaleb_27 (B2), Katniss_25 (B1), Kheth_27 (B2), Kikipoo_25 (B1), Kimbrough_25 (B1), KingVeVeVe_25 (B1), KlimbOn_25 (B1), Kloppinator_25 (B1), Kolhan_27 (B2), Kwadwo_24 (B1), Lars_27 (B2), LasagnaCat_25 (B1), Lasso_25 (B1), Laurie_27 (B2), LeeLot_25 (B1), Lego3393_25 (B1), Legolas_24 (B1), Lehmann_25 (B1), LeiMonet_25 (B1), LemonSlice_25 (B1), Lephleur_27 (B2), LilSmirk_27 (B2), LizLemon_27 (B2), Lopsy_24 (B1), LostAndPhound_24 (B1), LuckyMarjie_24 (B1), Lulumae_24 (B1), Lulwa_25 (B1), Lumine_24 (B1), MRabcd_24 (B1), Mana_24 (B1), Manad_24 (B1), Maru_24 (B1), MasterPo_27 (B2), Matalotodo_25 (B1), Mcshane_24 (B1), Mecca_24 (B1), Megamind20_25 (B1), Megatron_25 (B1), Mesh1_25 (B1), Mesmerelda_24 (B1), Mikota_25 (B1), MiniBoss_25 (B1), MitKao_25 (B1), Morgushi_25 (B1), Morty_25 (B1), Mosaic_24 (B1), Mulan_24 (B1), Murdoc_25 (B1), Mutante_24 (B1), Nacho_0025 (B1), Newman_25 (B1), NiaNia_26 (B1), Nicole21_25 (B1), Numberten_25 (B1), Nyala_24 (B1), Olak_24 (B1), Olive_25 (B1), OliverWalter_25 (B1), Omniscient_25 (B1), OneBrain_25 (B1), Oosterbaan_25 (B1), Opia_27 (B2), Orfeu_24 (B1), Orion_25 (B1), Orwigg_24 (B1), PG1_25 (B1), Pacifista_24 (B1), PallasAthena_24 (B1), Phamished_25 (B1), Phantasmagoria_27 (B2), Phareon_25 (B1), PhatCats2014_25 (B1), Pherdinand_25 (B1), Phipps_25 (B1), PhrodoBaggins_24 (B1), Phunky_25 (B1), Piglet_0024 (B1), PinheadLarry_25 (B1), Pipsqueak_25 (B1), Placalicious_24 (B1), Plmatters_25 (B1), Podrick_25 (B1), Pops_25 (B1), Potter_24 (B1), Prickles_25 (B1), PrinceCharming_27 (B2), ProfessorX_25 (B1), Puhltonio_25 (B1), QueenBeane_25 (B1), Quisquiliae_25 (B1), Qyrzula_25 (B2), RedMaple_24 (B1), RedRaider89_26 (B1), Rhinoforte_27 (B2), Ricotta_24 (B1), Riggan_25 (B1), Riverton_25 (B1), Robyn_24 (B1), Roliet_25 (B1), Roscoe_26 (B1), Rosebush_27 (B2), Roy17_25 (B1), SDcharge11_25 (B1), Sabella_27 (B2), SallyH_25 (B1), Samaymay_25 (B1), SassyCat97_24 (B1), Schadenfreude_24 (B1), Scoot17C_25 (B1), Scrick_25 (B1), Selr12_25 (B1), Septica_24 (B1), Serendipity_25 (B1), Serpentine_0025 (B1), ShadowBud_25 (B1), Sheila_25 (B1), ShiVal_25 (B1), Sigman_25 (B1), SilverBell_25 (B1), Simielle_24 (B1), Skippy_25 (B1), Slatt_25 (B1), Solosis_24 (B1), Sophia_24 (B1), Soto_25 (B1), Spartan300_25 (B1), Squid_25 (B1), Squiggle_25 (B1), Suffolk_25 (B1), Surely_25 (B1), Swish_25 (B1), TA17A_28 (B2), TallGrassMM_25 (B1), Telesworld_24 (B1), Thora_25 (B1), ThreeOh3D2_25 (B1), Thunderbird_24 (B1), Timmi_24 (B1), Tinciduntsolum_28 (B2), TomBombadil_25 (B1), Tomlarah_25 (B1), Toni_24 (B1), TooFast2Furius_26 (B1), Tooj_25 (B1), Tres_27 (B2), Triad_25 (B1), True_24 (B1), UAch1_25 (B1), UncleHowie_25 (B1), Usavi_25 (B1), Valjean_25 (B1), Vaticameos_25 (B1), Vic9_0027 (B2), Virapocalypse_25 (B1), Vista_25 (B1), Vivaldi_25 (B1), Vortex_25 (B1), Waterdiva_25 (B1), West99_27 (B2), Xavier_24 (B1), Yoshand_25 (B1), YouGoGlencoco_25 (B1), Zaider_26 (B1), Zelda_25 (B1),

Start 60:
• Found in 42 of 679 (6.2%) of genes in pham
• No Manual Annotations of this start.
• Called 2.4% of time when present
• Phage (with cluster) where this start called: Pine5_25 (singleton),

Start 61:
• Found in 30 of 679 (4.4%) of genes in pham
• Manual Annotations of this start: 24 of 601
• Called 96.7% of time when present
• Phage (with cluster) where this start called: AksarBAT_22 (DR), AnClar_23 (DR), AnarQue_24 (DR), Axumite_22 (DR), BiggityBass_22 (DR), Blackpen_24 (DR), CRB2_27 (B9), CaiB_24 (DR), CharlottesWeb_22 (DR), CloverMinnie_24 (DR), Coco2012_22 (DR), Coldpizza_25 (DR), Evaa_23 (DR), FelixTres_24 (DR), Fresco_22 (DR), JellyBelly_22 (DR), Ligma_22 (DR), LittleMunchkin_24 (DR), MakoManhole_24 (DR), Mariokart_22 (DR), MossRose_24 (DR), PenguinLover67_27 (B9), Quesadilla_26 (B9), Shatter_22 (DR), Sisko_22 (DR), TraderJ_24 (DR), Wooper_24 (DR), Yago84_22 (DR), Yeshua_24 (DR),

Start 63:
• Found in 30 of 679 (4.4%) of genes in pham
• Manual Annotations of this start: 20 of 601
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Acadian_25 (B5), Baee_24 (B5), BirdsNest_28 (B13), BobRoss2024_21 (DR), DigitDog_25 (B5), Donny_25 (B5), EastView9101_24 (B5), Funsized_28 (B9), Hashim76_29 (B13), Imvubu_19 (B10), KarasumaRum_27 (B5), Knocker_27 (B9), LilMcDreamy_22 (B12), LittleMinkey_30 (B13), Mysterious_25 (B5), Nangang_25 (B5), Nehemiah_24 (B5), Phelemich_25 (B5), Reccee_25 (B5), Reprobate_25 (B5), Rich_24 (B5), Rinkes_28 (B9), Rita130_25 (B5), Saguaro_26 (B7), Serendipitous_24 (B5), Shenyu_25 (B5), SirJeffery_25 (B5), StinkyVeggy_27 (B5), Suigeneris_25 (B5), Zenteno07_29 (B13),

Start 64:
• Found in 5 of 679 (0.7%) of genes in pham
• Manual Annotations of this start: 4 of 601
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Dori_22 (AD), GMA2_25 (DS), Mao1_21 (AD), Mask_22 (AD), Sejanus_22 (AD),

Start 66:
• Found in 41 of 679 (6.0%) of genes in pham
• Manual Annotations of this start: 30 of 601
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Ahwei_22 (B4), AlanGrant_24 (B4), Antihero_22 (B4), Apex_23 (B4), Austelle_24 (B4), BobbyK_23 (B4), BrownCNA_24 (B4), ChrisnMich_22 (B4), Cooper_23 (B4), Epah_22 (B4), Fanaw_22 (B4), Fortunato_23 (B4), Frederick_23 (B4), GinPorsche_22 (B4), Hally898_22 (B4), Hangman_23 (B4), Heath_22 (B4), Hydro_23 (B4), JAMaL_23 (B4), JaguarMi_23 (B4), JoyceMaria_23 (B4), Lambano_22 (B4), LittleDigger_22 (B4), Lolalove_23 (B4), Magpie_22 (B4), Mithril_23 (B4), Mudslide_23 (B4), Nanao_22 (B4), Nigel_21 (B4), Poster_22 (B4), Prince_23 (B4), QueenPie_22 (B4), RawrgerThat_23 (B4), Renkei_22 (B4), Stinger_21 (B4), Thonko_24 (B8), Vincenzo_24 (B4), VioletZ_23 (B4), Waleliano_23 (B4), Xincheng_22 (B4), Zemanar_24 (B4),

Start 67:
• Found in 8 of 679 (1.2%) of genes in pham
• Manual Annotations of this start: 8 of 601
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Argie_20 (W), Cepens_19 (W), D12_19 (W), GodPhather_20 (W), Jeon_19 (W), Megabear_19 (W), PR_19 (W), Taptic_19 (W),

Start 69:
• Found in 54 of 679 (8.0%) of genes in pham
• Manual Annotations of this start: 51 of 601
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Abinghost_26 (B3), Akoma_26 (B3), Athena_27 (B3), Audrey_26 (B3), Baloo_26 (B3), Ben11_25 (B3), Bernardo_26 (B3), Briakila_26 (B3), Casbah_25 (B3), ChaChing_26 (B3), Chalmers_26 (B3), Chandler_26 (B3), Chentzyk_25 (B3), Compostia_27 (B3), Corofin_26 (B3), Daisy_26 (B3), Deenasa_26 (B3), Devonte_26 (B3), Gadjet_27 (B3), Gervas_26 (B3), GlenHope_27 (B3), Glubnar_27 (B3), Halfpint_25 (B3), HarveySr_26 (B3), Heathcliff_26 (B3), Kamiyu_26 (B3), Kronus_25 (B3), LestyG_26 (B3), Marley1013_26 (B3), Marlia_26 (B3), MmasiCarm_26 (B3), Mortcellus_25 (B3), Morty007_26 (B3), Mulaychimus_26 (B3), Neos5_26 (B3), Nozo_26 (B3), Obutu_26 (B3), Olivio_25 (B3), OrangeOswald_26 (B3), Phayeta_26 (B3), Philly_25 (B3), Phlyer_26 (B3), Pipefish_26 (B3), RagingRooster_26 (B3), Rita1961_26 (B3), RomaT_26 (B3), Shenandoah_26 (B3), SlippinJimmy_26 (B3), SwainyDoc_26 (B3), SynergyX_26 (B3), TinyTerror_26 (B3), Tydolla_26 (B3), Yahalom_26 (B3), Yinz_26 (B3),

Start 71:
• Found in 14 of 679 (2.1%) of genes in pham
• Manual Annotations of this start: 8 of 601
• Called 64.3% of time when present
• Phage (with cluster) where this start called: Bloom_91 (FC), FloraSnap32_84 (FC), FrostedClock_86 (FC), GoldenEssence_73 (FC), Mimi_87 (FC), Patbob_86 (FC), Phrampa_79 (FC), Racecar_88 (FC), Talia1610_87 (FC),

Start 72:
• Found in 20 of 679 (2.9%) of genes in pham
• Manual Annotations of this start: 13 of 601
• Called 80.0% of time when present
• Phage (with cluster) where this start called: Artu_78 (FC), Atuin_82 (FC), BlueNGold_95 (DS), BooTeria_78 (FC), Boopy_96 (DS), Chilliams_84 (FC), DunneganBoMo_77 (FC), Ellewin_76 (FC), Forza_96 (DS), LeoJr_87 (FC), Mareelih_94 (DS), Panchaali_80 (FC), ReginaGlobina_87 (FC), Rockabye_86 (FC), SJReid_90 (FC), Sixama_94 (DS),

Start 73:
• Found in 3 of 679 (0.4%) of genes in pham
• No Manual Annotations of this start.
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Erasmago_85 (GD2),

Start 76:

• Found in 3 of 679 (0.4%) of genes in pham
• Manual Annotations of this start: 2 of 601
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Creature_16 (BR), KimJongPhill_18 (BR), Zuko_15 (BR),

Start 78:
• Found in 8 of 679 (1.2%) of genes in pham
• Manual Annotations of this start: 8 of 601
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Abt2graduatex2_20 (BG), Asis_19 (BG), BabyGotBac_19 (BG), BayC_19 (BG), Maih_19 (BG), RainyPolka_20 (BG), Salete_19 (BG), TP1604_19 (BG),

Start 79:
• Found in 7 of 679 (1.0%) of genes in pham
• Manual Annotations of this start: 4 of 601
• Called 57.1% of time when present
• Phage (with cluster) where this start called: Mischief19_27 (BG), TurkishDelight_25 (singleton), Xkcd426_25 (BG), YDN12_20 (BG),

Start 81:
• Found in 28 of 679 (4.1%) of genes in pham
• Manual Annotations of this start: 1 of 601
• Called 10.7% of time when present
• Phage (with cluster) where this start called: KSunshine22_82 (FC), Stewart25555_78 (FC), WaddleDee_75 (FC),

Summary by clusters:

There are 32 clusters represented in this pham: GD1, GD2, BG, GD4, DK, BR, singleton, FC, B12, B13, B10, B11, GD3, DR, DS, EI, AD, EC, GC, W, GM, DE1, DE5, B4, B5, B6, B7, B1, B2, B3, B8, B9,

Info for manual annotations of cluster AD:
•Start number 64 was manually annotated 4 times for cluster AD.

Info for manual annotations of cluster B1:
•Start number 58 was manually annotated 69 times for cluster B1.
•Start number 59 was manually annotated 226 times for cluster B1.

Info for manual annotations of cluster B10:
•Start number 63 was manually annotated 1 time for cluster B10.

Info for manual annotations of cluster B11:
•Start number 58 was manually annotated 1 time for cluster B11.

Info for manual annotations of cluster B12:
•Start number 63 was manually annotated 1 time for cluster B12.

Info for manual annotations of cluster B13:
•Start number 63 was manually annotated 3 times for cluster B13.

Info for manual annotations of cluster B2:
•Start number 59 was manually annotated 37 times for cluster B2.

Info for manual annotations of cluster B3:
•Start number 69 was manually annotated 51 times for cluster B3.

Info for manual annotations of cluster B4:
•Start number 66 was manually annotated 29 times for cluster B4.

Info for manual annotations of cluster B5:
•Start number 63 was manually annotated 11 times for cluster B5.

Info for manual annotations of cluster B6:
•Start number 58 was manually annotated 2 times for cluster B6.

Info for manual annotations of cluster B7:
•Start number 63 was manually annotated 1 time for cluster B7.

Info for manual annotations of cluster B8:
•Start number 66 was manually annotated 1 time for cluster B8.

Info for manual annotations of cluster B9:
•Start number 61 was manually annotated 3 times for cluster B9.
•Start number 63 was manually annotated 3 times for cluster B9.

Info for manual annotations of cluster BG:
•Start number 78 was manually annotated 8 times for cluster BG.
•Start number 79 was manually annotated 3 times for cluster BG.

Info for manual annotations of cluster BR:
•Start number 76 was manually annotated 2 times for cluster BR.

Info for manual annotations of cluster DE1:
•Start number 43 was manually annotated 7 times for cluster DE1.
•Start number 46 was manually annotated 11 times for cluster DE1.

Info for manual annotations of cluster DE5:
•Start number 39 was manually annotated 1 time for cluster DE5.

Info for manual annotations of cluster DK:
•Start number 55 was manually annotated 2 times for cluster DK.

Info for manual annotations of cluster DR:
•Start number 50 was manually annotated 1 time for cluster DR.
•Start number 61 was manually annotated 21 times for cluster DR.

Info for manual annotations of cluster DS:
•Start number 72 was manually annotated 5 times for cluster DS.

Info for manual annotations of cluster EC:
•Start number 34 was manually annotated 1 time for cluster EC.
•Start number 36 was manually annotated 2 times for cluster EC.
•Start number 41 was manually annotated 44 times for cluster EC.

•Start number 42 was manually annotated 1 time for cluster EC.
•Start number 46 was manually annotated 1 time for cluster EC.

Info for manual annotations of cluster EI:
•Start number 41 was manually annotated 7 times for cluster EI.

Info for manual annotations of cluster FC:
•Start number 71 was manually annotated 8 times for cluster FC.
•Start number 72 was manually annotated 8 times for cluster FC.
•Start number 81 was manually annotated 1 time for cluster FC.

Info for manual annotations of cluster GC:
•Start number 40 was manually annotated 1 time for cluster GC.
•Start number 41 was manually annotated 3 times for cluster GC.

Info for manual annotations of cluster GD1:
•Start number 55 was manually annotated 3 times for cluster GD1.

Info for manual annotations of cluster GD2:
•Start number 56 was manually annotated 2 times for cluster GD2.

Info for manual annotations of cluster GD3:
•Start number 57 was manually annotated 1 time for cluster GD3.

Info for manual annotations of cluster GD4:
•Start number 51 was manually annotated 1 time for cluster GD4.

Info for manual annotations of cluster GM:
•Start number 41 was manually annotated 2 times for cluster GM.

Info for manual annotations of cluster W:
•Start number 67 was manually annotated 8 times for cluster W.

Gene Information:

Gene: 39HC_021 Start: 17860, Stop: 18273, Start Num: 58
Candidate Starts for 39HC_021:
(Start: 58 @17860 has 72 MA's), (118, 18028), (132, 18055), (164, 18172),

Gene: 40BC_021 Start: 17860, Stop: 18273, Start Num: 58
Candidate Starts for 40BC_021:
(Start: 58 @17860 has 72 MA's), (118, 18028), (132, 18055), (164, 18172),

Gene: A3Wally_94 Start: 50689, Stop: 51099, Start Num: 55
Candidate Starts for A3Wally_94:
(Start: 55 @50689 has 5 MA's), (91, 50776), (92, 50779), (99, 50809), (165, 51019), (172, 51037),

Gene: ABU_25 Start: 18669, Stop: 19091, Start Num: 59
Candidate Starts for ABU_25:
(33, 18603), (Start: 59 @18669 has 263 MA's), (103, 18792), (105, 18798), (106, 18804), (132, 18867), (143, 18909), (165, 18987), (177, 19035), (182, 19059), (187, 19077), (189, 19083),

Gene: Abinghost_26 Start: 19363, Stop: 19776, Start Num: 69
Candidate Starts for Abinghost_26:
(Start: 69 @19363 has 51 MA's), (94, 19438), (105, 19483), (106, 19489), (149, 19621), (181, 19747),

Gene: AbsoluteMadLad_24 Start: 18670, Stop: 19092, Start Num: 59
Candidate Starts for AbsoluteMadLad_24:
(33, 18604), (Start: 59 @18670 has 263 MA's), (103, 18793), (105, 18799), (106, 18805), (132, 18868), (143, 18910), (165, 18988), (177, 19036), (182, 19060), (187, 19078), (189, 19084),

Gene: Abt2graduatex2_20 Start: 19744, Stop: 20124, Start Num: 78
Candidate Starts for Abt2graduatex2_20:
(Start: 78 @19744 has 8 MA's), (84, 19759), (97, 19801), (109, 19846), (143, 19936), (151, 19966), (165, 20017), (171, 20032), (175, 20059), (176, 20062),

Gene: Acadian_25 Start: 19389, Stop: 19805, Start Num: 63
Candidate Starts for Acadian_25:
(Start: 63 @19389 has 20 MA's), (89, 19449), (106, 19518), (143, 19623), (152, 19653), (190, 19800),

Gene: Adriana_25 Start: 18672, Stop: 19094, Start Num: 59
Candidate Starts for Adriana_25:
(33, 18606), (Start: 59 @18672 has 263 MA's), (103, 18795), (105, 18801), (106, 18807), (132, 18870), (143, 18912), (165, 18990), (177, 19038), (182, 19062), (187, 19080), (189, 19086),

Gene: Aelin_24 Start: 18235, Stop: 18657, Start Num: 59
Candidate Starts for Aelin_24:
(33, 18169), (Start: 59 @18235 has 263 MA's), (103, 18358), (105, 18364), (106, 18370), (132, 18433), (143, 18475), (165, 18553), (177, 18601), (182, 18625), (187, 18643), (189, 18649),

Gene: Ahwei_22 Start: 18304, Stop: 18717, Start Num: 66
Candidate Starts for Ahwei_22:
(Start: 66 @18304 has 30 MA's), (103, 18418), (105, 18424), (106, 18430), (118, 18466), (132, 18493), (137, 18505), (139, 18517), (143, 18535), (165, 18613), (181, 18682), (189, 18709),

Gene: Akoma_26 Start: 19364, Stop: 19777, Start Num: 69
Candidate Starts for Akoma_26:
(Start: 69 @19364 has 51 MA's), (105, 19484), (106, 19490), (123, 19538), (149, 19622), (181, 19748),

Gene: AksarBAT_22 Start: 17149, Stop: 17565, Start Num: 61
Candidate Starts for AksarBAT_22:
(Start: 61 @17149 has 24 MA's), (105, 17278), (143, 17392), (149, 17416),

Gene: AlanGrant_24 Start: 20089, Stop: 20502, Start Num: 66
Candidate Starts for AlanGrant_24:
(44, 20038), (Start: 66 @20089 has 30 MA's), (105, 20209), (106, 20215), (137, 20290), (143, 20320), (164, 20395), (171, 20413), (189, 20494),

Gene: Aleia_25 Start: 18248, Stop: 18670, Start Num: 58
Candidate Starts for Aleia_25:
(Start: 58 @18248 has 72 MA's), (103, 18371), (105, 18377), (106, 18383), (132, 18446), (143, 18488), (165, 18566), (177, 18614), (182, 18638), (187, 18656), (189, 18662),

Gene: Allegro_27 Start: 20836, Stop: 21264, Start Num: 59

Candidate Starts for Allegro_27:
(47, 20809), (Start: 59 @20836 has 263 MA's), (70, 20851), (105, 20968), (106, 20974), (113, 21001), (123, 21022), (132, 21040), (165, 21160), (168, 21166), (181, 21229), (189, 21256),

Gene: AltPhacts_25 Start: 18664, Stop: 19086, Start Num: 59
Candidate Starts for AltPhacts_25:
(33, 18598), (Start: 59 @18664 has 263 MA's), (103, 18787), (105, 18793), (106, 18799), (132, 18862), (143, 18904), (165, 18982), (177, 19030), (182, 19054), (187, 19072), (189, 19078),

Gene: Altwerkus_24 Start: 18364, Stop: 18786, Start Num: 59
Candidate Starts for Altwerkus_24:
(33, 18298), (Start: 59 @18364 has 263 MA's), (103, 18487), (105, 18493), (106, 18499), (132, 18562), (143, 18604), (165, 18682), (177, 18730), (182, 18754), (187, 18772), (189, 18778),

Gene: AnClar_23 Start: 19435, Stop: 19848, Start Num: 61
Candidate Starts for AnClar_23:
(Start: 61 @19435 has 24 MA's), (90, 19504), (106, 19570), (123, 19618), (145, 19684), (157, 19726), (181, 19825),

Gene: AnarQue_24 Start: 18618, Stop: 19028, Start Num: 61
Candidate Starts for AnarQue_24:
(Start: 61 @18618 has 24 MA's), (114, 18780), (120, 18792), (143, 18858), (149, 18882), (161, 18921), (165, 18936), (182, 19008),

Gene: Anderson_25 Start: 18662, Stop: 19084, Start Num: 59
Candidate Starts for Anderson_25:
(33, 18596), (Start: 59 @18662 has 263 MA's), (103, 18785), (105, 18791), (106, 18797), (132, 18860), (143, 18902), (165, 18980), (177, 19028), (182, 19052), (187, 19070), (189, 19076),

Gene: Andre_25 Start: 18660, Stop: 19082, Start Num: 59
Candidate Starts for Andre_25:
(33, 18594), (Start: 59 @18660 has 263 MA's), (103, 18783), (105, 18789), (106, 18795), (132, 18858), (143, 18900), (165, 18978), (177, 19026), (182, 19050), (187, 19068), (189, 19074),

Gene: AngelCake_25 Start: 18675, Stop: 19097, Start Num: 59
Candidate Starts for AngelCake_25:
(33, 18609), (Start: 59 @18675 has 263 MA's), (103, 18798), (105, 18804), (106, 18810), (132, 18873), (143, 18915), (165, 18993), (177, 19041), (182, 19065), (187, 19083), (189, 19089),

Gene: Antares_33 Start: 19596, Stop: 20000, Start Num: 41
Candidate Starts for Antares_33:
(Start: 41 @19596 has 57 MA's), (48, 19605), (60, 19632), (62, 19635), (98, 19731), (102, 19746), (105, 19758), (106, 19764), (133, 19806), (158, 19881), (168, 19914), (177, 19956), (186, 19995),

Gene: Antihero_22 Start: 18304, Stop: 18717, Start Num: 66
Candidate Starts for Antihero_22:
(Start: 66 @18304 has 30 MA's), (103, 18418), (105, 18424), (106, 18430), (118, 18466), (132, 18493), (137, 18505), (139, 18517), (143, 18535), (165, 18613), (181, 18682), (189, 18709),

Gene: Antonia_24 Start: 18235, Stop: 18657, Start Num: 59
Candidate Starts for Antonia_24:
(33, 18169), (Start: 59 @18235 has 263 MA's), (103, 18358), (105, 18364), (106, 18370), (132, 18433), (143, 18475), (165, 18553), (177, 18601), (182, 18625), (187, 18643), (189, 18649),

Gene: Aonishiki_25 Start: 18690, Stop: 19112, Start Num: 59
Candidate Starts for Aonishiki_25:
(33, 18624), (Start: 59 @18690 has 263 MA's), (103, 18813), (105, 18819), (106, 18825), (132, 18888), (143, 18930), (165, 19008), (177, 19056), (182, 19080), (187, 19098), (189, 19104),

Gene: Apex_23 Start: 19517, Stop: 19930, Start Num: 66
Candidate Starts for Apex_23:
(Start: 66 @19517 has 30 MA's), (103, 19631), (105, 19637), (106, 19643), (118, 19679), (137, 19718), (139, 19730), (143, 19748), (165, 19826), (171, 19841), (181, 19895), (182, 19898), (189, 19922),

Gene: Apizium_24 Start: 18422, Stop: 18844, Start Num: 58
Candidate Starts for Apizium_24:
(Start: 58 @18422 has 72 MA's), (91, 18494), (103, 18545), (105, 18551), (106, 18557), (132, 18620), (143, 18662), (165, 18740), (177, 18788), (182, 18812), (187, 18830), (189, 18836),

Gene: Arbiter_27 Start: 20921, Stop: 21349, Start Num: 59
Candidate Starts for Arbiter_27:
(47, 20894), (Start: 59 @20921 has 263 MA's), (70, 20936), (105, 21053), (106, 21059), (113, 21086), (123, 21107), (132, 21125), (165, 21245), (168, 21251), (181, 21314), (189, 21341),

Gene: Ares_27 Start: 20837, Stop: 21265, Start Num: 59
Candidate Starts for Ares_27:
(47, 20810), (Start: 59 @20837 has 263 MA's), (70, 20852), (105, 20969), (106, 20975), (113, 21002), (123, 21023), (132, 21041), (165, 21161), (168, 21167), (181, 21230), (189, 21257),

Gene: Argie_20 Start: 18470, Stop: 18880, Start Num: 67
Candidate Starts for Argie_20:
(Start: 67 @18470 has 8 MA's), (94, 18545), (105, 18590), (106, 18596), (120, 18638), (132, 18662), (138, 18683), (164, 18785), (177, 18830),

Gene: Ariadne_41 Start: 21286, Stop: 21693, Start Num: 41
Candidate Starts for Ariadne_41:
(Start: 41 @21286 has 57 MA's), (102, 21439), (105, 21451), (133, 21499), (157, 21571), (158, 21574), (168, 21607), (173, 21622), (177, 21649), (186, 21688),

Gene: Artu_78 Start: 49382, Stop: 49762, Start Num: 72
Candidate Starts for Artu_78:
(Start: 72 @49382 has 13 MA's), (Start: 81 @49418 has 1 MA's), (106, 49505), (131, 49568), (139, 49595), (141, 49604), (171, 49700),

Gene: Ashertheman_30 Start: 22146, Stop: 22580, Start Num: 46
Candidate Starts for Ashertheman_30:
(45, 22137), (Start: 46 @22146 has 12 MA's), (82, 22230), (104, 22305), (144, 22407), (150, 22428), (168, 22485), (173, 22500), (182, 22551),

Gene: Ashraf_24 Start: 18226, Stop: 18648, Start Num: 58
Candidate Starts for Ashraf_24:
(Start: 58 @18226 has 72 MA's), (103, 18349), (105, 18355), (106, 18361), (132, 18424), (143, 18466), (165, 18544), (177, 18592), (182, 18616), (187, 18634), (189, 18640),

Gene: Asis_19 Start: 19235, Stop: 19615, Start Num: 78
Candidate Starts for Asis_19:

(8, 18785), (23, 19067), (Start: 78 @19235 has 8 MA's), (84, 19250), (97, 19292), (109, 19337), (143, 19427), (151, 19457), (165, 19508), (171, 19523), (175, 19550), (176, 19553),

Gene: Athena_27 Start: 20126, Stop: 20539, Start Num: 69
Candidate Starts for Athena_27:
(Start: 69 @20126 has 51 MA's), (94, 20201), (105, 20246), (106, 20252), (149, 20384), (181, 20510),

Gene: Atuin_82 Start: 52030, Stop: 52410, Start Num: 72
Candidate Starts for Atuin_82:
(Start: 72 @52030 has 13 MA's), (74, 52039), (Start: 81 @52066 has 1 MA's), (126, 52207), (141, 52252), (152, 52285), (171, 52348),

Gene: Audrey_26 Start: 19363, Stop: 19776, Start Num: 69
Candidate Starts for Audrey_26:
(Start: 69 @19363 has 51 MA's), (105, 19483), (106, 19489), (123, 19537), (149, 19621), (181, 19747),

Gene: Austelle_24 Start: 19973, Stop: 20386, Start Num: 66
Candidate Starts for Austelle_24:
(Start: 66 @19973 has 30 MA's), (103, 20087), (105, 20093), (106, 20099), (118, 20135), (137, 20174), (139, 20186), (143, 20204), (165, 20282), (171, 20297), (181, 20351), (182, 20354), (189, 20378),

Gene: Axumite_22 Start: 17225, Stop: 17635, Start Num: 61
Candidate Starts for Axumite_22:
(Start: 61 @17225 has 24 MA's), (94, 17306), (103, 17345), (106, 17357), (120, 17399), (123, 17405), (132, 17423), (157, 17513),

Gene: Azuria_24 Start: 18685, Stop: 19107, Start Num: 59
Candidate Starts for Azuria_24:
(33, 18619), (Start: 59 @18685 has 263 MA's), (103, 18808), (105, 18814), (106, 18820), (132, 18883), (143, 18925), (165, 19003), (177, 19051), (182, 19075), (187, 19093), (189, 19099),

Gene: BabyGotBac_19 Start: 19235, Stop: 19615, Start Num: 78
Candidate Starts for BabyGotBac_19:
(8, 18785), (23, 19067), (Start: 78 @19235 has 8 MA's), (84, 19250), (97, 19292), (109, 19337), (143, 19427), (151, 19457), (165, 19508), (171, 19523), (175, 19550), (176, 19553),

Gene: Baddon_29 Start: 22946, Stop: 23380, Start Num: 43
Candidate Starts for Baddon_29:
(Start: 43 @22946 has 7 MA's), (74, 23000), (82, 23030), (104, 23105), (144, 23207), (150, 23228), (173, 23300), (182, 23351),

Gene: Badfish_25 Start: 18694, Stop: 19116, Start Num: 59
Candidate Starts for Badfish_25:
(33, 18628), (Start: 59 @18694 has 263 MA's), (103, 18817), (105, 18823), (106, 18829), (132, 18892), (143, 18934), (165, 19012), (177, 19060), (182, 19084), (187, 19102), (189, 19108),

Gene: Baee_24 Start: 19145, Stop: 19561, Start Num: 63
Candidate Starts for Baee_24:
(Start: 63 @19145 has 20 MA's), (103, 19262), (106, 19274), (132, 19337), (181, 19526), (190, 19556),

Gene: Baloo_26 Start: 19363, Stop: 19776, Start Num: 69
Candidate Starts for Baloo_26:
(Start: 69 @19363 has 51 MA's), (105, 19483), (106, 19489), (123, 19537), (149, 19621), (181, 19747),

Gene: Bananafish_27 Start: 20833, Stop: 21261, Start Num: 59
Candidate Starts for Bananafish_27:
(47, 20806), (Start: 59 @20833 has 263 MA's), (70, 20848), (105, 20965), (106, 20971), (113, 20998), (123, 21019), (132, 21037), (165, 21157), (168, 21163), (181, 21226), (189, 21253),

Gene: Banjo_24 Start: 18371, Stop: 18793, Start Num: 59
Candidate Starts for Banjo_24:
(33, 18305), (Start: 59 @18371 has 263 MA's), (103, 18494), (105, 18500), (106, 18506), (132, 18569), (143, 18611), (165, 18689), (177, 18737), (182, 18761), (187, 18779), (189, 18785),

Gene: Basato_26 Start: 18896, Stop: 19318, Start Num: 59
Candidate Starts for Basato_26:
(33, 18830), (Start: 59 @18896 has 263 MA's), (103, 19019), (105, 19025), (106, 19031), (132, 19094), (143, 19136), (165, 19214), (177, 19262), (182, 19286), (187, 19304), (189, 19310),

Gene: BatteryCK_24 Start: 18248, Stop: 18670, Start Num: 58
Candidate Starts for BatteryCK_24:
(Start: 58 @18248 has 72 MA's), (91, 18320), (103, 18371), (105, 18377), (106, 18383), (132, 18446), (143, 18488), (165, 18566), (177, 18614), (182, 18638), (187, 18656), (189, 18662),

Gene: Baumdotcom_29 Start: 21761, Stop: 22195, Start Num: 46
Candidate Starts for Baumdotcom_29:
(45, 21752), (Start: 46 @21761 has 12 MA's), (82, 21845), (104, 21920), (144, 22022), (150, 22043), (168, 22100), (173, 22115), (182, 22166),

Gene: BayC_19 Start: 19235, Stop: 19615, Start Num: 78
Candidate Starts for BayC_19:
(8, 18785), (23, 19067), (Start: 78 @19235 has 8 MA's), (84, 19250), (97, 19292), (109, 19337), (143, 19427), (151, 19457), (165, 19508), (171, 19523), (175, 19550), (176, 19553),

Gene: BeagleBug_32 Start: 19377, Stop: 19781, Start Num: 41
Candidate Starts for BeagleBug_32:
(Start: 41 @19377 has 57 MA's), (48, 19386), (60, 19413), (62, 19416), (98, 19512), (102, 19527), (105, 19539), (106, 19545), (133, 19587), (158, 19662), (168, 19695), (177, 19737), (186, 19776),

Gene: Beaglebox_24 Start: 18391, Stop: 18813, Start Num: 59
Candidate Starts for Beaglebox_24:
(33, 18325), (Start: 59 @18391 has 263 MA's), (103, 18514), (105, 18520), (106, 18526), (132, 18589), (143, 18631), (165, 18709), (177, 18757), (182, 18781), (187, 18799), (189, 18805),

Gene: Ben11_25 Start: 19185, Stop: 19598, Start Num: 69
Candidate Starts for Ben11_25:
(Start: 69 @19185 has 51 MA's), (105, 19305), (106, 19311), (123, 19359), (149, 19443), (181, 19569),

Gene: Bernardo_26 Start: 19363, Stop: 19776, Start Num: 69
Candidate Starts for Bernardo_26:
(Start: 69 @19363 has 51 MA's), (105, 19483), (106, 19489), (123, 19537), (149, 19621), (181, 19747),

Gene: Big4_83 Start: 49711, Stop: 50121, Start Num: 56
Candidate Starts for Big4_83:
(21, 49555), (25, 49585), (Start: 56 @49711 has 2 MA's), (Start: 81 @49771 has 1 MA's), (92, 49798), (94, 49807), (119, 49897), (172, 50059),

Gene: BiggityBass_22 Start: 19520, Stop: 19933, Start Num: 61
Candidate Starts for BiggityBass_22:
(Start: 61 @19520 has 24 MA's), (90, 19589), (123, 19703), (145, 19769), (181, 19910),

Gene: BirdsNest_28 Start: 18737, Stop: 19153, Start Num: 63
Candidate Starts for BirdsNest_28:
(Start: 63 @18737 has 20 MA's), (112, 18890), (113, 18893), (165, 19049), (171, 19064), (189, 19145),

Gene: Bishoperium_24 Start: 18377, Stop: 18799, Start Num: 59
Candidate Starts for Bishoperium_24:
(33, 18311), (Start: 59 @18377 has 263 MA's), (103, 18500), (105, 18506), (106, 18512), (132, 18575), (143, 18617), (165, 18695), (177, 18743), (182, 18767), (187, 18785), (189, 18791),

Gene: Bizzy_30 Start: 22093, Stop: 22527, Start Num: 43
Candidate Starts for Bizzy_30:
(Start: 43 @22093 has 7 MA's), (74, 22147), (82, 22177), (104, 22252), (144, 22354), (150, 22375), (173, 22447), (182, 22498),

Gene: BlackStallion_25 Start: 18682, Stop: 19104, Start Num: 59
Candidate Starts for BlackStallion_25:
(33, 18616), (Start: 59 @18682 has 263 MA's), (103, 18805), (105, 18811), (106, 18817), (132, 18880), (143, 18922), (165, 19000), (177, 19048), (182, 19072), (187, 19090), (189, 19096),

Gene: Blackpen_24 Start: 18036, Stop: 18446, Start Num: 61
Candidate Starts for Blackpen_24:
(Start: 61 @18036 has 24 MA's), (114, 18198), (120, 18210), (143, 18276), (149, 18300), (161, 18339), (165, 18354), (182, 18426),

Gene: BlacksBerry_24 Start: 18386, Stop: 18808, Start Num: 58
Candidate Starts for BlacksBerry_24:
(Start: 58 @18386 has 72 MA's), (91, 18458), (103, 18509), (105, 18515), (106, 18521), (132, 18584), (143, 18626), (165, 18704), (177, 18752), (182, 18776), (187, 18794), (189, 18800),

Gene: Blocker23_27 Start: 20954, Stop: 21382, Start Num: 59
Candidate Starts for Blocker23_27:
(47, 20927), (Start: 59 @20954 has 263 MA's), (70, 20969), (105, 21086), (106, 21092), (113, 21119), (123, 21140), (132, 21158), (165, 21278), (168, 21284), (181, 21347), (189, 21374),

Gene: Bloom_91 Start: 53421, Stop: 53804, Start Num: 71
Candidate Starts for Bloom_91:
(Start: 71 @53421 has 8 MA's), (Start: 81 @53460 has 1 MA's), (82, 53463), (110, 53562), (119, 53586), (139, 53637), (141, 53646), (158, 53700), (165, 53727), (170, 53739),

Gene: BlueHusk_25 Start: 18178, Stop: 18600, Start Num: 59
Candidate Starts for BlueHusk_25:
(33, 18112), (Start: 59 @18178 has 263 MA's), (103, 18301), (105, 18307), (106, 18313), (132, 18376), (143, 18418), (165, 18496), (177, 18544), (182, 18568), (187, 18586), (189, 18592),

Gene: BlueNGold_95 Start: 51971, Stop: 52378, Start Num: 72
Candidate Starts for BlueNGold_95:
(Start: 71 @51968 has 8 MA's), (Start: 72 @51971 has 13 MA's), (Start: 81 @52007 has 1 MA's), (98, 52061), (103, 52082), (139, 52184), (142, 52196), (146, 52238), (149, 52247), (158, 52274), (171,

52316), (177, 52349), (178, 52361), (181, 52370),

Gene: Bluephacebaby_24 Start: 18377, Stop: 18799, Start Num: 59
Candidate Starts for Bluephacebaby_24:
(33, 18311), (Start: 59 @18377 has 263 MA's), (103, 18500), (105, 18506), (106, 18512), (132, 18575), (143, 18617), (165, 18695), (177, 18743), (182, 18767), (187, 18785), (189, 18791),

Gene: BobRoss2024_21 Start: 16983, Stop: 17393, Start Num: 63
Candidate Starts for BobRoss2024_21:
(Start: 63 @16983 has 20 MA's), (125, 17166), (137, 17193), (161, 17286), (182, 17373),

Gene: BobbyK_23 Start: 19336, Stop: 19749, Start Num: 66
Candidate Starts for BobbyK_23:
(Start: 66 @19336 has 30 MA's), (103, 19450), (105, 19456), (106, 19462), (118, 19498), (137, 19537), (139, 19549), (143, 19567), (165, 19645), (171, 19660), (181, 19714), (182, 19717), (189, 19741),

Gene: Boehler_25 Start: 18687, Stop: 19109, Start Num: 59
Candidate Starts for Boehler_25:
(33, 18621), (Start: 59 @18687 has 263 MA's), (103, 18810), (105, 18816), (106, 18822), (132, 18885), (143, 18927), (165, 19005), (177, 19053), (182, 19077), (187, 19095), (189, 19101),

Gene: BooTeria_78 Start: 49450, Stop: 49830, Start Num: 72
Candidate Starts for BooTeria_78:
(Start: 72 @49450 has 13 MA's), (Start: 81 @49486 has 1 MA's), (106, 49573), (131, 49636), (139, 49663), (141, 49672), (171, 49768),

Gene: BoogieWoogie_25 Start: 18364, Stop: 18786, Start Num: 59
Candidate Starts for BoogieWoogie_25:
(33, 18298), (Start: 59 @18364 has 263 MA's), (103, 18487), (105, 18493), (106, 18499), (132, 18562), (143, 18604), (165, 18682), (177, 18730), (182, 18754), (187, 18772), (189, 18778),

Gene: Boopy_96 Start: 51983, Stop: 52390, Start Num: 72
Candidate Starts for Boopy_96:
(Start: 71 @51980 has 8 MA's), (Start: 72 @51983 has 13 MA's), (Start: 81 @52019 has 1 MA's), (98, 52073), (103, 52094), (139, 52196), (142, 52208), (146, 52250), (149, 52259), (158, 52286), (171, 52328), (177, 52361), (178, 52373), (181, 52382),

Gene: Boyle_27 Start: 20955, Stop: 21383, Start Num: 59
Candidate Starts for Boyle_27:
(47, 20928), (Start: 59 @20955 has 263 MA's), (70, 20970), (105, 21087), (106, 21093), (113, 21120), (123, 21141), (132, 21159), (165, 21279), (168, 21285), (181, 21348), (189, 21375),

Gene: BrazzalePHS_32 Start: 19391, Stop: 19795, Start Num: 41
Candidate Starts for BrazzalePHS_32:
(Start: 41 @19391 has 57 MA's), (48, 19400), (60, 19427), (62, 19430), (98, 19526), (102, 19541), (105, 19553), (106, 19559), (133, 19601), (158, 19676), (168, 19709), (177, 19751), (186, 19790),

Gene: Briakila_26 Start: 20128, Stop: 20541, Start Num: 69
Candidate Starts for Briakila_26:
(Start: 69 @20128 has 51 MA's), (105, 20248), (106, 20254), (123, 20302), (149, 20386), (181, 20512),

Gene: Brilliant_25 Start: 18382, Stop: 18804, Start Num: 58
Candidate Starts for Brilliant_25:

(Start: 58 @18382 has 72 MA's), (103, 18505), (105, 18511), (106, 18517), (132, 18580), (143, 18622), (165, 18700), (177, 18748), (182, 18772), (187, 18790), (189, 18796),

Gene: BrownCNA_24 Start: 19588, Stop: 20001, Start Num: 66
Candidate Starts for BrownCNA_24:
(Start: 66 @19588 has 30 MA's), (103, 19702), (105, 19708), (106, 19714), (118, 19750), (137, 19789), (139, 19801), (143, 19819), (165, 19897), (181, 19966), (182, 19969), (189, 19993),

Gene: Brownie5_27 Start: 20954, Stop: 21382, Start Num: 59
Candidate Starts for Brownie5_27:
(47, 20927), (Start: 59 @20954 has 263 MA's), (70, 20969), (105, 21086), (106, 21092), (113, 21119), (123, 21140), (132, 21158), (165, 21278), (168, 21284), (181, 21347), (189, 21374),

Gene: Buckeye_25 Start: 18701, Stop: 19123, Start Num: 59
Candidate Starts for Buckeye_25:
(33, 18635), (Start: 59 @18701 has 263 MA's), (103, 18824), (105, 18830), (106, 18836), (132, 18899), (143, 18941), (165, 19019), (177, 19067), (182, 19091), (187, 19109), (189, 19115),

Gene: Burr_24 Start: 18376, Stop: 18798, Start Num: 59
Candidate Starts for Burr_24:
(33, 18310), (Start: 59 @18376 has 263 MA's), (103, 18499), (105, 18505), (106, 18511), (132, 18574), (143, 18616), (165, 18694), (177, 18742), (182, 18766), (187, 18784), (189, 18790),

Gene: Busephilis_32 Start: 19326, Stop: 19730, Start Num: 41
Candidate Starts for Busephilis_32:
(Start: 41 @19326 has 57 MA's), (48, 19335), (60, 19362), (62, 19365), (98, 19461), (102, 19476), (105, 19488), (106, 19494), (133, 19536), (158, 19611), (168, 19644), (177, 19686), (186, 19725),

Gene: CRB2_27 Start: 21048, Stop: 21482, Start Num: 61
Candidate Starts for CRB2_27:
(Start: 61 @21048 has 24 MA's), (89, 21111), (90, 21114), (105, 21174), (106, 21180), (118, 21216), (132, 21243), (137, 21255), (165, 21363), (181, 21432),

Gene: CaiB_24 Start: 18604, Stop: 19014, Start Num: 61
Candidate Starts for CaiB_24:
(Start: 61 @18604 has 24 MA's), (120, 18778), (165, 18922),

Gene: Calamitous_27 Start: 20834, Stop: 21262, Start Num: 59
Candidate Starts for Calamitous_27:
(47, 20807), (Start: 59 @20834 has 263 MA's), (70, 20849), (105, 20966), (106, 20972), (113, 20999), (123, 21020), (132, 21038), (165, 21158), (168, 21164), (181, 21227), (189, 21254),

Gene: CamL_25 Start: 18675, Stop: 19097, Start Num: 59
Candidate Starts for CamL_25:
(33, 18609), (Start: 59 @18675 has 263 MA's), (103, 18798), (105, 18804), (106, 18810), (132, 18873), (143, 18915), (165, 18993), (177, 19041), (182, 19065), (187, 19083), (189, 19089),

Gene: CampRoach_25 Start: 18668, Stop: 19090, Start Num: 59
Candidate Starts for CampRoach_25:
(33, 18602), (Start: 59 @18668 has 263 MA's), (103, 18791), (105, 18797), (106, 18803), (132, 18866), (143, 18908), (165, 18986), (177, 19034), (182, 19058), (187, 19076), (189, 19082),

Gene: Cannibal_25 Start: 18661, Stop: 19083, Start Num: 59

Candidate Starts for Cannibal_25:
(33, 18595), (Start: 59 @18661 has 263 MA's), (103, 18784), (105, 18790), (106, 18796), (132, 18859), (143, 18901), (165, 18979), (177, 19027), (182, 19051), (187, 19069), (189, 19075),

Gene: Carthage_23 Start: 17587, Stop: 18009, Start Num: 59
Candidate Starts for Carthage_23:
(33, 17521), (Start: 59 @17587 has 263 MA's), (103, 17710), (105, 17716), (106, 17722), (132, 17785), (143, 17827), (165, 17905), (177, 17953), (182, 17977), (187, 17995), (189, 18001),

Gene: Casbah_25 Start: 19215, Stop: 19628, Start Num: 69
Candidate Starts for Casbah_25:
(Start: 69 @19215 has 51 MA's), (94, 19290), (105, 19335), (106, 19341), (149, 19473), (181, 19599),

Gene: Caspiboi_24 Start: 18381, Stop: 18803, Start Num: 58
Candidate Starts for Caspiboi_24:
(Start: 58 @18381 has 72 MA's), (103, 18504), (105, 18510), (106, 18516), (132, 18579), (143, 18621), (165, 18699), (177, 18747), (182, 18771), (187, 18789), (189, 18795),

Gene: Cece_77 Start: 45674, Stop: 46081, Start Num: 57
Candidate Starts for Cece_77:
(Start: 57 @45674 has 1 MA's), (77, 45725), (95, 45779), (105, 45815), (111, 45839), (119, 45860), (122, 45866), (158, 45974), (165, 46001), (172, 46019),

Gene: Cepens_19 Start: 18194, Stop: 18604, Start Num: 67
Candidate Starts for Cepens_19:
(Start: 67 @18194 has 8 MA's), (94, 18269), (105, 18314), (106, 18320), (120, 18362), (132, 18386), (138, 18407), (164, 18509), (177, 18554),

Gene: ChaChing_26 Start: 19378, Stop: 19791, Start Num: 69
Candidate Starts for ChaChing_26:
(Start: 69 @19378 has 51 MA's), (94, 19453), (105, 19498), (106, 19504), (149, 19636), (181, 19762),

Gene: Chaelin_24 Start: 18361, Stop: 18783, Start Num: 58
Candidate Starts for Chaelin_24:
(Start: 58 @18361 has 72 MA's), (91, 18433), (103, 18484), (105, 18490), (106, 18496), (132, 18559), (143, 18601), (165, 18679), (177, 18727), (182, 18751), (187, 18769), (189, 18775),

Gene: Chalmers_26 Start: 20169, Stop: 20582, Start Num: 69
Candidate Starts for Chalmers_26:
(Start: 69 @20169 has 51 MA's), (105, 20289), (106, 20295), (123, 20343), (149, 20427), (181, 20553),

Gene: Chandler_26 Start: 20137, Stop: 20550, Start Num: 69
Candidate Starts for Chandler_26:
(Start: 69 @20137 has 51 MA's), (94, 20212), (105, 20257), (106, 20263), (149, 20395), (181, 20521),

Gene: Charles1_25 Start: 18659, Stop: 19081, Start Num: 59
Candidate Starts for Charles1_25:
(33, 18593), (Start: 59 @18659 has 263 MA's), (103, 18782), (105, 18788), (106, 18794), (132, 18857), (143, 18899), (165, 18977), (177, 19025), (182, 19049), (187, 19067), (189, 19073),

Gene: CharlieGBrown_24 Start: 18246, Stop: 18668, Start Num: 58
Candidate Starts for CharlieGBrown_24:

(Start: 58 @18246 has 72 MA's), (103, 18369), (105, 18375), (106, 18381), (132, 18444), (143, 18486), (165, 18564), (177, 18612), (182, 18636), (187, 18654), (189, 18660),

Gene: CharlottesWeb_22 Start: 17120, Stop: 17533, Start Num: 61
Candidate Starts for CharlottesWeb_22:
(Start: 50 @17099 has 1 MA's), (Start: 61 @17120 has 24 MA's), (Start: 79 @17162 has 4 MA's), (94, 17201), (105, 17246), (106, 17252), (123, 17300),

Gene: CheetO_25 Start: 18674, Stop: 19096, Start Num: 59
Candidate Starts for CheetO_25:
(33, 18608), (Start: 59 @18674 has 263 MA's), (103, 18797), (105, 18803), (106, 18809), (132, 18872), (143, 18914), (165, 18992), (177, 19040), (182, 19064), (187, 19082), (189, 19088),

Gene: Chentzyk_25 Start: 19233, Stop: 19646, Start Num: 69
Candidate Starts for Chentzyk_25:
(Start: 69 @19233 has 51 MA's), (105, 19353), (106, 19359), (123, 19407), (149, 19491), (181, 19617),

Gene: Cher_24 Start: 18400, Stop: 18822, Start Num: 59
Candidate Starts for Cher_24:
(33, 18334), (Start: 59 @18400 has 263 MA's), (103, 18523), (105, 18529), (106, 18535), (132, 18598), (143, 18640), (165, 18718), (177, 18766), (182, 18790), (187, 18808), (189, 18814),

Gene: Childish_24 Start: 18388, Stop: 18810, Start Num: 59
Candidate Starts for Childish_24:
(33, 18322), (Start: 59 @18388 has 263 MA's), (103, 18511), (105, 18517), (106, 18523), (132, 18586), (143, 18628), (165, 18706), (177, 18754), (182, 18778), (187, 18796), (189, 18802),

Gene: Chilliams_84 Start: 55298, Stop: 55687, Start Num: 72
Candidate Starts for Chilliams_84:
(Start: 72 @55298 has 13 MA's), (98, 55388), (110, 55436), (141, 55520), (158, 55574), (165, 55601), (170, 55613), (178, 55661),

Gene: Chipette_26 Start: 18897, Stop: 19319, Start Num: 59
Candidate Starts for Chipette_26:
(33, 18831), (Start: 59 @18897 has 263 MA's), (103, 19020), (105, 19026), (106, 19032), (132, 19095), (143, 19137), (165, 19215), (177, 19263), (182, 19287), (187, 19305), (189, 19311),

Gene: Chorkpop_25 Start: 18399, Stop: 18821, Start Num: 59
Candidate Starts for Chorkpop_25:
(33, 18333), (Start: 59 @18399 has 263 MA's), (103, 18522), (105, 18528), (106, 18534), (132, 18597), (143, 18639), (158, 18690), (165, 18717), (177, 18765), (182, 18789), (187, 18807), (189, 18813),

Gene: ChrisnMich_22 Start: 18293, Stop: 18706, Start Num: 66
Candidate Starts for ChrisnMich_22:
(Start: 66 @18293 has 30 MA's), (103, 18407), (105, 18413), (106, 18419), (118, 18455), (137, 18494), (139, 18506), (143, 18524), (165, 18602), (181, 18671), (189, 18698),

Gene: Chuni_25 Start: 18693, Stop: 19115, Start Num: 59
Candidate Starts for Chuni_25:
(33, 18627), (Start: 59 @18693 has 263 MA's), (91, 18765), (103, 18816), (105, 18822), (106, 18828), (132, 18891), (143, 18933), (165, 19011), (177, 19059), (182, 19083), (187, 19101), (189, 19107),

Gene: Chunky_25 Start: 18687, Stop: 19109, Start Num: 59

Candidate Starts for Chunky_25:
(33, 18621), (Start: 59 @18687 has 263 MA's), (103, 18810), (105, 18816), (106, 18822), (132, 18885), (143, 18927), (165, 19005), (177, 19053), (182, 19077), (187, 19095), (189, 19101),

Gene: Chute_25 Start: 18712, Stop: 19134, Start Num: 58
Candidate Starts for Chute_25:
(Start: 58 @18712 has 72 MA's), (91, 18784), (103, 18835), (105, 18841), (106, 18847), (132, 18910), (143, 18952), (165, 19030), (177, 19078), (182, 19102), (187, 19120), (189, 19126),

Gene: Cinna_28 Start: 18809, Stop: 19213, Start Num: 41
Candidate Starts for Cinna_28:
(Start: 41 @18809 has 57 MA's), (48, 18818), (54, 18830), (62, 18848), (75, 18866), (102, 18959), (106, 18977), (107, 18983), (133, 19019), (142, 19043), (157, 19091), (158, 19094), (168, 19124), (174, 19148), (177, 19166), (178, 19178), (186, 19205),

Gene: ClearAsMud_35 Start: 20105, Stop: 20509, Start Num: 41
Candidate Starts for ClearAsMud_35:
(Start: 41 @20105 has 57 MA's), (48, 20114), (60, 20141), (62, 20144), (98, 20240), (102, 20255), (105, 20267), (106, 20273), (133, 20315), (157, 20387), (158, 20390), (168, 20423), (177, 20465), (186, 20504),

Gene: CloverMinnie_24 Start: 18544, Stop: 18954, Start Num: 61
Candidate Starts for CloverMinnie_24:
(Start: 61 @18544 has 24 MA's), (114, 18706), (120, 18718), (143, 18784), (149, 18808), (161, 18847), (165, 18862), (182, 18934),

Gene: Cobra_25 Start: 18680, Stop: 19102, Start Num: 59
Candidate Starts for Cobra_25:
(33, 18614), (Start: 59 @18680 has 263 MA's), (103, 18803), (105, 18809), (106, 18815), (132, 18878), (143, 18920), (165, 18998), (177, 19046), (182, 19070), (187, 19088), (189, 19094),

Gene: Coco2012_22 Start: 17117, Stop: 17530, Start Num: 61
Candidate Starts for Coco2012_22:
(Start: 50 @17096 has 1 MA's), (Start: 61 @17117 has 24 MA's), (Start: 79 @17159 has 4 MA's), (94, 17198), (105, 17243), (106, 17249), (123, 17297),

Gene: Coffee_27 Start: 20947, Stop: 21375, Start Num: 59
Candidate Starts for Coffee_27:
(47, 20920), (Start: 59 @20947 has 263 MA's), (70, 20962), (105, 21079), (106, 21085), (113, 21112), (123, 21133), (132, 21151), (165, 21271), (168, 21277), (181, 21340), (189, 21367),

Gene: Colbert_25 Start: 18677, Stop: 19099, Start Num: 59
Candidate Starts for Colbert_25:
(33, 18611), (Start: 59 @18677 has 263 MA's), (103, 18800), (105, 18806), (106, 18812), (132, 18875), (143, 18917), (165, 18995), (177, 19043), (182, 19067), (187, 19085), (189, 19091),

Gene: Coldpizza_25 Start: 21451, Stop: 21861, Start Num: 61
Candidate Starts for Coldpizza_25:
(Start: 61 @21451 has 24 MA's), (84, 21505), (86, 21508), (94, 21532), (106, 21583), (137, 21661),

Gene: Coletti_25 Start: 18712, Stop: 19134, Start Num: 58
Candidate Starts for Coletti_25:

(Start: 58 @18712 has 72 MA's), (91, 18784), (103, 18835), (105, 18841), (106, 18847), (132, 18910), (143, 18952), (165, 19030), (177, 19078), (182, 19102), (187, 19120), (189, 19126),

Gene: Compostia_27 Start: 19796, Stop: 20209, Start Num: 69
Candidate Starts for Compostia_27:
(Start: 69 @19796 has 51 MA's), (94, 19871), (105, 19916), (106, 19922), (149, 20054), (181, 20180),

Gene: Cooper_23 Start: 18410, Stop: 18823, Start Num: 66
Candidate Starts for Cooper_23:
(Start: 66 @18410 has 30 MA's), (105, 18530), (106, 18536), (118, 18572), (132, 18599), (139, 18623), (143, 18641), (165, 18719), (181, 18788), (189, 18815),

Gene: Cornbread_24 Start: 18393, Stop: 18815, Start Num: 58
Candidate Starts for Cornbread_24:
(Start: 58 @18393 has 72 MA's), (103, 18516), (105, 18522), (106, 18528), (132, 18591), (143, 18633), (165, 18711), (177, 18759), (182, 18783), (187, 18801), (189, 18807),

Gene: Cornobble_24 Start: 18235, Stop: 18657, Start Num: 59
Candidate Starts for Cornobble_24:
(33, 18169), (Start: 59 @18235 has 263 MA's), (103, 18358), (105, 18364), (106, 18370), (132, 18433), (143, 18475), (165, 18553), (177, 18601), (182, 18625), (187, 18643), (189, 18649),

Gene: Corofin_26 Start: 19388, Stop: 19801, Start Num: 69
Candidate Starts for Corofin_26:
(Start: 69 @19388 has 51 MA's), (94, 19463), (105, 19508), (106, 19514), (149, 19646), (181, 19772),

Gene: Cosmolli16_24 Start: 18394, Stop: 18816, Start Num: 59
Candidate Starts for Cosmolli16_24:
(33, 18328), (Start: 59 @18394 has 263 MA's), (103, 18517), (105, 18523), (106, 18529), (132, 18592), (143, 18634), (158, 18685), (165, 18712), (177, 18760), (182, 18784), (187, 18802), (189, 18808),

Gene: Craff_25 Start: 18681, Stop: 19103, Start Num: 59
Candidate Starts for Craff_25:
(33, 18615), (Start: 59 @18681 has 263 MA's), (103, 18804), (105, 18810), (106, 18816), (132, 18879), (143, 18921), (165, 18999), (177, 19047), (182, 19071), (187, 19089), (189, 19095),

Gene: Cranjis_34 Start: 19551, Stop: 19955, Start Num: 41
Candidate Starts for Cranjis_34:
(Start: 41 @19551 has 57 MA's), (48, 19560), (60, 19587), (62, 19590), (98, 19686), (102, 19701), (105, 19713), (106, 19719), (133, 19761), (158, 19836), (168, 19869), (177, 19911), (186, 19950),

Gene: CrazyRich_32 Start: 19360, Stop: 19764, Start Num: 41
Candidate Starts for CrazyRich_32:
(Start: 41 @19360 has 57 MA's), (48, 19369), (60, 19396), (62, 19399), (98, 19495), (102, 19510), (105, 19522), (106, 19528), (133, 19570), (158, 19645), (168, 19678), (177, 19720), (186, 19759),

Gene: Creature_16 Start: 12529, Stop: 12924, Start Num: 76
Candidate Starts for Creature_16:
(35, 12439), (Start: 76 @12529 has 2 MA's), (88, 12559), (100, 12607), (143, 12736), (158, 12787), (188, 12910), (191, 12919),

Gene: Cressida_30 Start: 18868, Stop: 19272, Start Num: 41
Candidate Starts for Cressida_30:

(Start: 41 @18868 has 57 MA's), (54, 18889), (62, 18907), (75, 18925), (98, 19003), (102, 19018), (106, 19036), (107, 19042), (133, 19078), (158, 19153), (174, 19207), (177, 19225), (178, 19237), (186, 19264),

Gene: Crisis_34 Start: 19345, Stop: 19749, Start Num: 41
Candidate Starts for Crisis_34:
(Start: 41 @19345 has 57 MA's), (48, 19354), (60, 19381), (62, 19384), (98, 19480), (102, 19495), (105, 19507), (106, 19513), (133, 19555), (158, 19630), (168, 19663), (177, 19705), (186, 19744),

Gene: Crownjwl_25 Start: 18448, Stop: 18870, Start Num: 59
Candidate Starts for Crownjwl_25:
(33, 18382), (Start: 59 @18448 has 263 MA's), (103, 18571), (105, 18577), (106, 18583), (132, 18646), (143, 18688), (165, 18766), (177, 18814), (182, 18838), (187, 18856), (189, 18862),

Gene: D12_19 Start: 18187, Stop: 18597, Start Num: 67
Candidate Starts for D12_19:
(Start: 67 @18187 has 8 MA's), (94, 18262), (105, 18307), (106, 18313), (120, 18355), (132, 18379), (138, 18400), (164, 18502), (177, 18547),

Gene: DaddyDaniels_25 Start: 18373, Stop: 18795, Start Num: 58
Candidate Starts for DaddyDaniels_25:
(Start: 58 @18373 has 72 MA's), (103, 18496), (105, 18502), (106, 18508), (132, 18571), (143, 18613), (165, 18691), (177, 18739), (182, 18763), (187, 18781), (189, 18787),

Gene: Daffy_25 Start: 18400, Stop: 18822, Start Num: 59
Candidate Starts for Daffy_25:
(33, 18334), (Start: 59 @18400 has 263 MA's), (103, 18523), (105, 18529), (106, 18535), (132, 18598), (143, 18640), (165, 18718), (177, 18766), (182, 18790), (187, 18808), (189, 18814),

Gene: Daisy_26 Start: 19384, Stop: 19797, Start Num: 69
Candidate Starts for Daisy_26:
(Start: 69 @19384 has 51 MA's), (105, 19504), (106, 19510), (149, 19642), (181, 19768),

Gene: Daka_25 Start: 18677, Stop: 19099, Start Num: 59
Candidate Starts for Daka_25:
(33, 18611), (Start: 59 @18677 has 263 MA's), (103, 18800), (105, 18806), (106, 18812), (132, 18875), (143, 18917), (165, 18995), (177, 19043), (182, 19067), (187, 19085), (189, 19091),

Gene: Dati_25 Start: 18390, Stop: 18812, Start Num: 58
Candidate Starts for Dati_25:
(Start: 58 @18390 has 72 MA's), (103, 18513), (105, 18519), (106, 18525), (132, 18588), (143, 18630), (165, 18708), (177, 18756), (182, 18780), (187, 18798), (189, 18804),

Gene: Deenasa_26 Start: 20126, Stop: 20539, Start Num: 69
Candidate Starts for Deenasa_26:
(Start: 69 @20126 has 51 MA's), (94, 20201), (105, 20246), (106, 20252), (149, 20384), (181, 20510),

Gene: DelRivs_24 Start: 18389, Stop: 18811, Start Num: 58
Candidate Starts for DelRivs_24:
(Start: 58 @18389 has 72 MA's), (105, 18518), (106, 18524), (132, 18587), (143, 18629), (165, 18707), (177, 18755), (182, 18779), (187, 18797), (189, 18803),

Gene: Derg_25 Start: 21689, Stop: 22123, Start Num: 43

Candidate Starts for Derg_25:
(Start: 43 @21689 has 7 MA's), (74, 21743), (82, 21773), (104, 21848), (144, 21950), (150, 21971), (173, 22043), (182, 22094),

Gene: Derpp_24 Start: 18236, Stop: 18658, Start Num: 58
Candidate Starts for Derpp_24:
(Start: 58 @18236 has 72 MA's), (103, 18359), (105, 18365), (106, 18371), (132, 18434), (143, 18476), (165, 18554), (177, 18602), (182, 18626), (187, 18644), (189, 18650),

Gene: Devonte_26 Start: 19363, Stop: 19776, Start Num: 69
Candidate Starts for Devonte_26:
(Start: 69 @19363 has 51 MA's), (94, 19438), (105, 19483), (106, 19489), (149, 19621), (181, 19747),

Gene: Dewdrop_73 Start: 39864, Stop: 40274, Start Num: 41
Candidate Starts for Dewdrop_73:
(14, 39612), (19, 39717), (24, 39774), (Start: 41 @39864 has 57 MA's), (54, 39888), (102, 40017), (109, 40044), (133, 40080), (153, 40140), (165, 40182), (177, 40227), (181, 40248),

Gene: Dice_24 Start: 18377, Stop: 18799, Start Num: 59
Candidate Starts for Dice_24:
(33, 18311), (Start: 59 @18377 has 263 MA's), (103, 18500), (105, 18506), (106, 18512), (132, 18575), (143, 18617), (165, 18695), (177, 18743), (182, 18767), (187, 18785), (189, 18791),

Gene: DigitDog_25 Start: 18981, Stop: 19397, Start Num: 63
Candidate Starts for DigitDog_25:
(Start: 63 @18981 has 20 MA's), (132, 19173), (143, 19215), (158, 19266), (190, 19392),

Gene: Dingo_25 Start: 18661, Stop: 19083, Start Num: 59
Candidate Starts for Dingo_25:
(33, 18595), (Start: 59 @18661 has 263 MA's), (103, 18784), (105, 18790), (106, 18796), (132, 18859), (143, 18901), (165, 18979), (177, 19027), (182, 19051), (187, 19069), (189, 19075),

Gene: Dione_24 Start: 18378, Stop: 18800, Start Num: 59
Candidate Starts for Dione_24:
(33, 18312), (Start: 59 @18378 has 263 MA's), (103, 18501), (105, 18507), (106, 18513), (132, 18576), (143, 18618), (165, 18696), (177, 18744), (182, 18768), (187, 18786), (189, 18792),

Gene: DirtJuice_25 Start: 18663, Stop: 19085, Start Num: 59
Candidate Starts for DirtJuice_25:
(33, 18597), (Start: 59 @18663 has 263 MA's), (103, 18786), (105, 18792), (106, 18798), (132, 18861), (143, 18903), (165, 18981), (177, 19029), (182, 19053), (187, 19071), (189, 19077),

Gene: Doddsville_25 Start: 18390, Stop: 18812, Start Num: 58
Candidate Starts for Doddsville_25:
(Start: 58 @18390 has 72 MA's), (103, 18513), (105, 18519), (106, 18525), (132, 18588), (143, 18630), (165, 18708), (177, 18756), (182, 18780), (187, 18798), (189, 18804),

Gene: Dodo_96 Start: 51011, Stop: 51421, Start Num: 55
Candidate Starts for Dodo_96:
(Start: 55 @51011 has 5 MA's), (91, 51098), (92, 51101), (99, 51131), (165, 51341), (172, 51359),

Gene: DoesntMatter_25 Start: 18659, Stop: 19081, Start Num: 59
Candidate Starts for DoesntMatter_25:

(33, 18593), (Start: 59 @18659 has 263 MA's), (103, 18782), (105, 18788), (106, 18794), (132, 18857), (143, 18899), (158, 18950), (165, 18977), (177, 19025), (182, 19049), (187, 19067), (189, 19073),

Gene: DolOn_26 Start: 18910, Stop: 19332, Start Num: 59
Candidate Starts for DolOn_26:
(33, 18844), (Start: 59 @18910 has 263 MA's), (103, 19033), (105, 19039), (106, 19045), (132, 19108), (143, 19150), (165, 19228), (177, 19276), (182, 19300), (187, 19318), (189, 19324),

Gene: DonSanchon_24 Start: 18376, Stop: 18798, Start Num: 59
Candidate Starts for DonSanchon_24:
(33, 18310), (Start: 59 @18376 has 263 MA's), (103, 18499), (105, 18505), (106, 18511), (132, 18574), (143, 18616), (165, 18694), (177, 18742), (182, 18766), (187, 18784), (189, 18790),

Gene: Donny_25 Start: 19394, Stop: 19810, Start Num: 63
Candidate Starts for Donny_25:
(Start: 63 @19394 has 20 MA's), (89, 19454), (106, 19523), (143, 19628), (152, 19658), (190, 19805),

Gene: Dori_22 Start: 16225, Stop: 16629, Start Num: 64
Candidate Starts for Dori_22:
(Start: 64 @16225 has 4 MA's), (94, 16303), (105, 16348), (106, 16354), (122, 16399), (132, 16420), (143, 16462), (149, 16486), (158, 16513), (162, 16525), (180, 16603),

Gene: DuchessDung_23 Start: 17527, Stop: 17949, Start Num: 58
Candidate Starts for DuchessDung_23:
(Start: 58 @17527 has 72 MA's), (103, 17650), (105, 17656), (106, 17662), (132, 17725), (143, 17767), (165, 17845), (177, 17893), (182, 17917), (187, 17935), (189, 17941),

Gene: Duggie_24 Start: 18392, Stop: 18814, Start Num: 58
Candidate Starts for Duggie_24:
(Start: 58 @18392 has 72 MA's), (103, 18515), (105, 18521), (106, 18527), (132, 18590), (143, 18632), (165, 18710), (177, 18758), (182, 18782), (187, 18800), (189, 18806),

Gene: DunneganBoMo_77 Start: 48875, Stop: 49255, Start Num: 72
Candidate Starts for DunneganBoMo_77:
(Start: 72 @48875 has 13 MA's), (Start: 81 @48911 has 1 MA's), (106, 48998), (131, 49061), (139, 49088), (141, 49097), (171, 49193),

Gene: Durga_25 Start: 18689, Stop: 19111, Start Num: 58
Candidate Starts for Durga_25:
(Start: 58 @18689 has 72 MA's), (103, 18812), (105, 18818), (106, 18824), (132, 18887), (143, 18929), (165, 19007), (177, 19055), (182, 19079), (187, 19097), (189, 19103),

Gene: Eaglehorse_27 Start: 20855, Stop: 21283, Start Num: 59
Candidate Starts for Eaglehorse_27:
(47, 20828), (Start: 59 @20855 has 263 MA's), (70, 20870), (105, 20987), (106, 20993), (113, 21020), (123, 21041), (132, 21059), (165, 21179), (168, 21185), (181, 21248), (189, 21275),

Gene: EarickHC_33 Start: 19271, Stop: 19675, Start Num: 41
Candidate Starts for EarickHC_33:
(Start: 41 @19271 has 57 MA's), (48, 19280), (60, 19307), (62, 19310), (98, 19406), (102, 19421), (105, 19433), (106, 19439), (133, 19481), (158, 19556), (168, 19589), (177, 19631), (186, 19670),

Gene: EastView9101_24 Start: 19041, Stop: 19457, Start Num: 63

Candidate Starts for EastView9101_24:
(Start: 63 @19041 has 20 MA's), (106, 19170), (132, 19233), (190, 19452),

Gene: Ellewin_76 Start: 48470, Stop: 48850, Start Num: 72
Candidate Starts for Ellewin_76:
(Start: 72 @48470 has 13 MA's), (Start: 81 @48506 has 1 MA's), (106, 48593), (131, 48656), (139, 48683), (141, 48692), (171, 48788),

Gene: ElvisPhasley_25 Start: 18708, Stop: 19130, Start Num: 58
Candidate Starts for ElvisPhasley_25:
(Start: 58 @18708 has 72 MA's), (91, 18780), (103, 18831), (105, 18837), (106, 18843), (132, 18906), (143, 18948), (165, 19026), (177, 19074), (182, 19098), (187, 19116), (189, 19122),

Gene: EmGer13_24 Start: 18235, Stop: 18657, Start Num: 59
Candidate Starts for EmGer13_24:
(33, 18169), (Start: 59 @18235 has 263 MA's), (103, 18358), (105, 18364), (106, 18370), (132, 18433), (143, 18475), (165, 18553), (177, 18601), (182, 18625), (187, 18643), (189, 18649),

Gene: Emiris_25 Start: 18670, Stop: 19092, Start Num: 59
Candidate Starts for Emiris_25:
(33, 18604), (Start: 59 @18670 has 263 MA's), (103, 18793), (105, 18799), (106, 18805), (132, 18868), (143, 18910), (165, 18988), (177, 19036), (182, 19060), (187, 19078), (189, 19084),

Gene: EmpTee_25 Start: 18676, Stop: 19098, Start Num: 59
Candidate Starts for EmpTee_25:
(33, 18610), (Start: 59 @18676 has 263 MA's), (103, 18799), (105, 18805), (106, 18811), (132, 18874), (143, 18916), (165, 18994), (177, 19042), (182, 19066), (187, 19084), (189, 19090),

Gene: Epah_22 Start: 18304, Stop: 18717, Start Num: 66
Candidate Starts for Epah_22:
(Start: 66 @18304 has 30 MA's), (103, 18418), (105, 18424), (106, 18430), (118, 18466), (132, 18493), (137, 18505), (139, 18517), (143, 18535), (165, 18613), (181, 18682), (189, 18709),

Gene: Erasmago_85 Start: 47346, Stop: 47723, Start Num: 73
Candidate Starts for Erasmago_85:
(Start: 56 @47316 has 2 MA's), (73, 47346), (94, 47412), (98, 47430), (165, 47643), (172, 47661),

Gene: Eremos_25 Start: 18676, Stop: 19098, Start Num: 59
Candidate Starts for Eremos_25:
(33, 18610), (Start: 59 @18676 has 263 MA's), (103, 18799), (105, 18805), (106, 18811), (132, 18874), (143, 18916), (165, 18994), (177, 19042), (182, 19066), (187, 19084), (189, 19090),

Gene: Etaye_25 Start: 18662, Stop: 19084, Start Num: 58
Candidate Starts for Etaye_25:
(Start: 58 @18662 has 72 MA's), (103, 18785), (105, 18791), (106, 18797), (132, 18860), (143, 18902), (165, 18980), (177, 19028), (182, 19052), (187, 19070), (189, 19076),

Gene: Eugenia_25 Start: 18689, Stop: 19111, Start Num: 59
Candidate Starts for Eugenia_25:
(33, 18623), (Start: 59 @18689 has 263 MA's), (103, 18812), (105, 18818), (106, 18824), (132, 18887), (143, 18929), (165, 19007), (177, 19055), (182, 19079), (187, 19097), (189, 19103),

Gene: Evaa_23 Start: 18465, Stop: 18881, Start Num: 61

Candidate Starts for Evaa_23:
(Start: 61 @18465 has 24 MA's), (94, 18549), (106, 18600), (122, 18645), (149, 18732), (157, 18756),

Gene: Fanaw_22 Start: 18998, Stop: 19411, Start Num: 66
Candidate Starts for Fanaw_22:
(Start: 66 @18998 has 30 MA's), (103, 19112), (105, 19118), (106, 19124), (118, 19160), (137, 19199), (139, 19211), (143, 19229), (165, 19307), (189, 19403),

Gene: Fang_25 Start: 18690, Stop: 19112, Start Num: 59
Candidate Starts for Fang_25:
(33, 18624), (Start: 59 @18690 has 263 MA's), (103, 18813), (105, 18819), (106, 18825), (132, 18888), (143, 18930), (165, 19008), (177, 19056), (182, 19080), (187, 19098), (189, 19104),

Gene: Faze9_27 Start: 20951, Stop: 21379, Start Num: 59
Candidate Starts for Faze9_27:
(47, 20924), (Start: 59 @20951 has 263 MA's), (70, 20966), (105, 21083), (106, 21089), (113, 21116), (123, 21137), (132, 21155), (165, 21275), (168, 21281), (181, 21344), (189, 21371),

Gene: FelixTres_24 Start: 18607, Stop: 19017, Start Num: 61
Candidate Starts for FelixTres_24:
(Start: 61 @18607 has 24 MA's), (114, 18769), (120, 18781), (143, 18847), (149, 18871), (161, 18910), (165, 18925),

Gene: Fireman_33 Start: 19161, Stop: 19565, Start Num: 41
Candidate Starts for Fireman_33:
(Start: 41 @19161 has 57 MA's), (49, 19176), (60, 19197), (62, 19200), (102, 19311), (105, 19323), (106, 19329), (133, 19371), (157, 19443), (158, 19446), (168, 19479), (177, 19521), (186, 19560),

Gene: Flake_25 Start: 18712, Stop: 19134, Start Num: 58
Candidate Starts for Flake_25:
(Start: 58 @18712 has 72 MA's), (91, 18784), (103, 18835), (105, 18841), (106, 18847), (132, 18910), (143, 18952), (165, 19030), (177, 19078), (182, 19102), (187, 19120), (189, 19126),

Gene: Flatwoods_30 Start: 22050, Stop: 22484, Start Num: 43
Candidate Starts for Flatwoods_30:
(Start: 43 @22050 has 7 MA's), (74, 22104), (82, 22134), (104, 22209), (144, 22311), (150, 22332), (173, 22404), (182, 22455),

Gene: FleetyMac_25 Start: 18675, Stop: 19097, Start Num: 58
Candidate Starts for FleetyMac_25:
(Start: 58 @18675 has 72 MA's), (103, 18798), (105, 18804), (106, 18810), (132, 18873), (143, 18915), (165, 18993), (177, 19041), (182, 19065), (187, 19083), (189, 19089),

Gene: FloraSnap32_84 Start: 52458, Stop: 52841, Start Num: 71
Candidate Starts for FloraSnap32_84:
(Start: 71 @52458 has 8 MA's), (Start: 81 @52497 has 1 MA's), (82, 52500), (110, 52599), (119, 52623), (129, 52644), (139, 52674), (141, 52683), (158, 52737), (165, 52764), (170, 52776),

Gene: FluffyNinja_25 Start: 18682, Stop: 19104, Start Num: 59
Candidate Starts for FluffyNinja_25:
(33, 18616), (Start: 59 @18682 has 263 MA's), (103, 18805), (105, 18811), (106, 18817), (132, 18880), (143, 18922), (165, 19000), (177, 19048), (182, 19072), (187, 19090), (189, 19096),

Gene: ForDig_21 Start: 17846, Stop: 18259, Start Num: 58
Candidate Starts for ForDig_21:
(Start: 58 @17846 has 72 MA's), (118, 18014), (132, 18041), (143, 18083), (164, 18158),

Gene: Fortunato_23 Start: 19330, Stop: 19743, Start Num: 66
Candidate Starts for Fortunato_23:
(Start: 66 @19330 has 30 MA's), (103, 19444), (105, 19450), (106, 19456), (118, 19492), (137, 19531), (139, 19543), (143, 19561), (165, 19639), (171, 19654), (181, 19708), (182, 19711), (189, 19735),

Gene: Forza_96 Start: 51899, Stop: 52306, Start Num: 72
Candidate Starts for Forza_96:
(Start: 71 @51896 has 8 MA's), (Start: 72 @51899 has 13 MA's), (Start: 81 @51935 has 1 MA's), (98, 51989), (103, 52010), (139, 52112), (142, 52124), (146, 52166), (149, 52175), (158, 52202), (171, 52244), (177, 52277), (178, 52289), (181, 52298),

Gene: Fozzie_24 Start: 18685, Stop: 19107, Start Num: 59
Candidate Starts for Fozzie_24:
(33, 18619), (Start: 59 @18685 has 263 MA's), (103, 18808), (105, 18814), (106, 18820), (132, 18883), (143, 18925), (165, 19003), (177, 19051), (182, 19075), (187, 19093), (189, 19099),

Gene: Frankicide_25 Start: 18676, Stop: 19098, Start Num: 59
Candidate Starts for Frankicide_25:
(33, 18610), (Start: 59 @18676 has 263 MA's), (103, 18799), (105, 18805), (106, 18811), (132, 18874), (143, 18916), (165, 18994), (177, 19042), (182, 19066), (187, 19084), (189, 19090),

Gene: Frederick_23 Start: 19339, Stop: 19752, Start Num: 66
Candidate Starts for Frederick_23:
(Start: 66 @19339 has 30 MA's), (103, 19453), (105, 19459), (106, 19465), (118, 19501), (137, 19540), (139, 19552), (143, 19570), (165, 19648), (171, 19663), (181, 19717), (182, 19720), (189, 19744),

Gene: FremontTroll_24 Start: 18373, Stop: 18795, Start Num: 59
Candidate Starts for FremontTroll_24:
(33, 18307), (Start: 59 @18373 has 263 MA's), (103, 18496), (105, 18502), (106, 18508), (132, 18571), (143, 18613), (165, 18691), (177, 18739), (182, 18763), (187, 18781), (189, 18787),

Gene: FrenchFry_27 Start: 20954, Stop: 21382, Start Num: 59
Candidate Starts for FrenchFry_27:
(47, 20927), (Start: 59 @20954 has 263 MA's), (70, 20969), (105, 21086), (106, 21092), (113, 21119), (123, 21140), (132, 21158), (165, 21278), (168, 21284), (181, 21347), (189, 21374),

Gene: Fresco_22 Start: 17225, Stop: 17635, Start Num: 61
Candidate Starts for Fresco_22:
(Start: 61 @17225 has 24 MA's), (94, 17306), (103, 17345), (106, 17357), (120, 17399), (123, 17405), (132, 17423), (157, 17513),

Gene: Freya_24 Start: 18371, Stop: 18793, Start Num: 59
Candidate Starts for Freya_24:
(33, 18305), (Start: 59 @18371 has 263 MA's), (103, 18494), (105, 18500), (106, 18506), (132, 18569), (143, 18611), (165, 18689), (177, 18737), (182, 18761), (187, 18779), (189, 18785),

Gene: FriarPreacher_25 Start: 18696, Stop: 19118, Start Num: 59
Candidate Starts for FriarPreacher_25:

(33, 18630), (Start: 59 @18696 has 263 MA's), (103, 18819), (105, 18825), (106, 18831), (132, 18894), (143, 18936), (165, 19014), (177, 19062), (182, 19086), (187, 19104), (189, 19110),

Gene: Fringe_25 Start: 18660, Stop: 19082, Start Num: 59
Candidate Starts for Fringe_25:
(33, 18594), (Start: 59 @18660 has 263 MA's), (103, 18783), (105, 18789), (106, 18795), (132, 18858), (143, 18900), (165, 18978), (177, 19026), (182, 19050), (187, 19068), (189, 19074),

Gene: FrostedClock_86 Start: 52909, Stop: 53292, Start Num: 71
Candidate Starts for FrostedClock_86:
(Start: 71 @52909 has 8 MA's), (Start: 81 @52948 has 1 MA's), (110, 53050), (119, 53074), (129, 53095), (139, 53125), (141, 53134), (158, 53188), (165, 53215), (170, 53227),

Gene: FugateOSU_24 Start: 18382, Stop: 18804, Start Num: 59
Candidate Starts for FugateOSU_24:
(33, 18316), (Start: 59 @18382 has 263 MA's), (103, 18505), (105, 18511), (106, 18517), (132, 18580), (143, 18622), (158, 18673), (165, 18700), (177, 18748), (182, 18772), (187, 18790), (189, 18796),

Gene: Funsized_28 Start: 21759, Stop: 22175, Start Num: 63
Candidate Starts for Funsized_28:
(Start: 63 @21759 has 20 MA's), (105, 21882), (106, 21888), (118, 21924), (143, 21993), (158, 22044), (165, 22071), (171, 22086), (189, 22167),

Gene: FuzzBuster_37 Start: 19497, Stop: 19925, Start Num: 41
Candidate Starts for FuzzBuster_37:
(Start: 41 @19497 has 57 MA's), (49, 19509), (62, 19533), (70, 19542), (86, 19587), (94, 19611), (102, 19644), (106, 19662), (108, 19671), (124, 19707), (156, 19791), (158, 19803), (173, 19851), (177, 19878), (183, 19905),

Gene: GMA2_25 Start: 22256, Stop: 22675, Start Num: 64
Candidate Starts for GMA2_25:
(Start: 64 @22256 has 4 MA's), (Start: 72 @22268 has 13 MA's), (90, 22325), (116, 22424), (139, 22481), (146, 22535), (149, 22544), (165, 22595), (178, 22655),

Gene: Gadjet_27 Start: 19373, Stop: 19786, Start Num: 69
Candidate Starts for Gadjet_27:
(Start: 69 @19373 has 51 MA's), (105, 19493), (106, 19499), (123, 19547), (149, 19631), (181, 19757),

Gene: Gaea_29 Start: 21701, Stop: 22135, Start Num: 43
Candidate Starts for Gaea_29:
(Start: 43 @21701 has 7 MA's), (74, 21755), (82, 21785), (104, 21860), (144, 21962), (150, 21983), (173, 22055), (182, 22106),

Gene: Ganandorf_32 Start: 19407, Stop: 19811, Start Num: 41
Candidate Starts for Ganandorf_32:
(Start: 41 @19407 has 57 MA's), (48, 19416), (60, 19443), (62, 19446), (98, 19542), (102, 19557), (105, 19569), (106, 19575), (133, 19617), (158, 19692), (168, 19725), (177, 19767), (186, 19806),

Gene: Gareth_24 Start: 18379, Stop: 18801, Start Num: 59
Candidate Starts for Gareth_24:
(33, 18313), (Start: 59 @18379 has 263 MA's), (103, 18502), (105, 18508), (106, 18514), (132, 18577), (143, 18619), (165, 18697), (177, 18745), (182, 18769), (187, 18787), (189, 18793),

Gene: GeneCoco_25 Start: 18681, Stop: 19103, Start Num: 58
Candidate Starts for GeneCoco_25:
(Start: 58 @18681 has 72 MA's), (103, 18804), (105, 18810), (106, 18816), (132, 18879), (143, 18921), (165, 18999), (177, 19047), (182, 19071), (187, 19089), (189, 19095),

Gene: Germa_34 Start: 19236, Stop: 19640, Start Num: 41
Candidate Starts for Germa_34:
(Start: 41 @19236 has 57 MA's), (48, 19245), (60, 19272), (62, 19275), (98, 19371), (102, 19386), (105, 19398), (106, 19404), (133, 19446), (158, 19521), (168, 19554), (177, 19596), (186, 19635),

Gene: Gervas_26 Start: 19347, Stop: 19760, Start Num: 69
Candidate Starts for Gervas_26:
(Start: 69 @19347 has 51 MA's), (105, 19467), (106, 19473), (123, 19521), (149, 19605), (181, 19731),

Gene: GinPorsche_22 Start: 18304, Stop: 18717, Start Num: 66
Candidate Starts for GinPorsche_22:
(Start: 66 @18304 has 30 MA's), (103, 18418), (105, 18424), (106, 18430), (118, 18466), (132, 18493), (137, 18505), (139, 18517), (143, 18535), (165, 18613), (181, 18682), (189, 18709),

Gene: Gina_34 Start: 19178, Stop: 19588, Start Num: 36
Candidate Starts for Gina_34:
(Start: 36 @19178 has 2 MA's), (Start: 41 @19184 has 57 MA's), (49, 19199), (102, 19334), (105, 19346), (133, 19394), (157, 19466), (158, 19469), (168, 19502), (173, 19517), (177, 19544), (186, 19583),

Gene: Giraffe_25 Start: 18384, Stop: 18806, Start Num: 59
Candidate Starts for Giraffe_25:
(33, 18318), (Start: 59 @18384 has 263 MA's), (103, 18507), (105, 18513), (106, 18519), (132, 18582), (143, 18624), (158, 18675), (165, 18702), (177, 18750), (182, 18774), (187, 18792), (189, 18798),

Gene: Glass_27 Start: 20954, Stop: 21382, Start Num: 59
Candidate Starts for Glass_27:
(47, 20927), (Start: 59 @20954 has 263 MA's), (70, 20969), (105, 21086), (106, 21092), (113, 21119), (123, 21140), (132, 21158), (165, 21278), (168, 21284), (181, 21347), (189, 21374),

Gene: GlenHope_27 Start: 19356, Stop: 19769, Start Num: 69
Candidate Starts for GlenHope_27:
(Start: 69 @19356 has 51 MA's), (105, 19476), (106, 19482), (123, 19530), (149, 19614), (181, 19740),

Gene: Glorp_34 Start: 19408, Stop: 19812, Start Num: 41
Candidate Starts for Glorp_34:
(Start: 41 @19408 has 57 MA's), (48, 19417), (60, 19444), (62, 19447), (98, 19543), (102, 19558), (105, 19570), (106, 19576), (133, 19618), (158, 19693), (168, 19726), (177, 19768), (186, 19807),

Gene: Glubnar_27 Start: 19368, Stop: 19781, Start Num: 69
Candidate Starts for Glubnar_27:
(Start: 69 @19368 has 51 MA's), (94, 19443), (105, 19488), (106, 19494), (149, 19626), (181, 19752),

Gene: GodPhather_20 Start: 18473, Stop: 18883, Start Num: 67
Candidate Starts for GodPhather_20:
(Start: 67 @18473 has 8 MA's), (94, 18548), (105, 18593), (106, 18599), (120, 18641), (132, 18665), (138, 18686), (164, 18788), (177, 18833),

Gene: Godines_27 Start: 20847, Stop: 21275, Start Num: 59
Candidate Starts for Godines_27:
(47, 20820), (Start: 59 @20847 has 263 MA's), (105, 20979), (106, 20985), (113, 21012), (123, 21033), (132, 21051), (165, 21171), (168, 21177), (181, 21240), (189, 21267),

Gene: GodonK_84 Start: 43620, Stop: 44033, Start Num: 55
Candidate Starts for GodonK_84:
(Start: 55 @43620 has 5 MA's), (73, 43653), (101, 43746), (106, 43770), (117, 43803), (127, 43830), (130, 43833), (152, 43905), (158, 43926), (170, 43965), (182, 44025),

Gene: GoldenEssence_73 Start: 47214, Stop: 47597, Start Num: 71
Candidate Starts for GoldenEssence_73:
(Start: 71 @47214 has 8 MA's), (Start: 81 @47253 has 1 MA's), (110, 47355), (119, 47379), (129, 47400), (141, 47439), (158, 47493), (165, 47520), (170, 47532),

Gene: Gophee_25 Start: 18662, Stop: 19084, Start Num: 59
Candidate Starts for Gophee_25:
(33, 18596), (Start: 59 @18662 has 263 MA's), (103, 18785), (105, 18791), (106, 18797), (132, 18860), (143, 18902), (165, 18980), (177, 19028), (182, 19052), (187, 19070), (189, 19076),

Gene: Grand2040_24 Start: 18399, Stop: 18821, Start Num: 59
Candidate Starts for Grand2040_24:
(33, 18333), (Start: 59 @18399 has 263 MA's), (103, 18522), (105, 18528), (106, 18534), (132, 18597), (143, 18639), (158, 18690), (165, 18717), (177, 18765), (182, 18789), (187, 18807), (189, 18813),

Gene: GreenChile_25 Start: 18676, Stop: 19098, Start Num: 59
Candidate Starts for GreenChile_25:
(33, 18610), (Start: 59 @18676 has 263 MA's), (103, 18799), (105, 18805), (106, 18811), (132, 18874), (143, 18916), (165, 18994), (177, 19042), (182, 19066), (187, 19084), (189, 19090),

Gene: Gustavo_29 Start: 21853, Stop: 22287, Start Num: 46
Candidate Starts for Gustavo_29:
(45, 21844), (Start: 46 @21853 has 12 MA's), (82, 21937), (104, 22012), (144, 22114), (150, 22135), (168, 22192), (173, 22207), (182, 22258),

Gene: Gwennie1_25 Start: 18721, Stop: 19143, Start Num: 58
Candidate Starts for Gwennie1_25:
(Start: 58 @18721 has 72 MA's), (91, 18793), (103, 18844), (105, 18850), (106, 18856), (132, 18919), (143, 18961), (165, 19039), (177, 19087), (182, 19111), (187, 19129), (189, 19135),

Gene: Gwilliam_25 Start: 18672, Stop: 19094, Start Num: 59
Candidate Starts for Gwilliam_25:
(33, 18606), (Start: 59 @18672 has 263 MA's), (103, 18795), (105, 18801), (106, 18807), (132, 18870), (143, 18912), (165, 18990), (177, 19038), (182, 19062), (187, 19080), (189, 19086),

Gene: Gyarad_0025 Start: 18674, Stop: 19096, Start Num: 59
Candidate Starts for Gyarad_0025:
(33, 18608), (Start: 59 @18674 has 263 MA's), (103, 18797), (105, 18803), (106, 18809), (132, 18872), (143, 18914), (165, 18992), (177, 19040), (182, 19064), (187, 19082), (189, 19088),

Gene: HSavage_25 Start: 18682, Stop: 19104, Start Num: 59
Candidate Starts for HSavage_25:

(33, 18616), (Start: 59 @18682 has 263 MA's), (103, 18805), (105, 18811), (106, 18817), (132, 18880), (143, 18922), (165, 19000), (177, 19048), (182, 19072), (187, 19090), (189, 19096),

Gene: Haimas_25 Start: 18677, Stop: 19099, Start Num: 59
Candidate Starts for Haimas_25:
(33, 18611), (Start: 59 @18677 has 263 MA's), (103, 18800), (105, 18806), (106, 18812), (132, 18875), (143, 18917), (165, 18995), (177, 19043), (182, 19067), (187, 19085), (189, 19091),

Gene: Haleema_24 Start: 18399, Stop: 18821, Start Num: 59
Candidate Starts for Haleema_24:
(33, 18333), (Start: 59 @18399 has 263 MA's), (103, 18522), (105, 18528), (106, 18534), (132, 18597), (143, 18639), (165, 18717), (177, 18765), (182, 18789), (187, 18807), (189, 18813),

Gene: Halfpint_25 Start: 19188, Stop: 19601, Start Num: 69
Candidate Starts for Halfpint_25:
(Start: 69 @19188 has 51 MA's), (105, 19308), (106, 19314), (123, 19362), (149, 19446), (181, 19572),

Gene: Hally898_22 Start: 18304, Stop: 18717, Start Num: 66
Candidate Starts for Hally898_22:
(Start: 66 @18304 has 30 MA's), (103, 18418), (105, 18424), (106, 18430), (118, 18466), (132, 18493), (137, 18505), (139, 18517), (143, 18535), (165, 18613), (181, 18682), (189, 18709),

Gene: Hamish_25 Start: 18669, Stop: 19091, Start Num: 59
Candidate Starts for Hamish_25:
(33, 18603), (Start: 59 @18669 has 263 MA's), (103, 18792), (105, 18798), (106, 18804), (132, 18867), (143, 18909), (165, 18987), (177, 19035), (182, 19059), (187, 19077), (189, 19083),

Gene: Hangman_23 Start: 19331, Stop: 19744, Start Num: 66
Candidate Starts for Hangman_23:
(Start: 66 @19331 has 30 MA's), (103, 19445), (105, 19451), (106, 19457), (118, 19493), (137, 19532), (139, 19544), (143, 19562), (165, 19640), (181, 19709), (182, 19712), (189, 19736),

Gene: Happabalu_25 Start: 18391, Stop: 18813, Start Num: 58
Candidate Starts for Happabalu_25:
(Start: 58 @18391 has 72 MA's), (103, 18514), (105, 18520), (106, 18526), (132, 18589), (143, 18631), (165, 18709), (177, 18757), (182, 18781), (187, 18799), (189, 18805),

Gene: Hartsy_25 Start: 18692, Stop: 19114, Start Num: 58
Candidate Starts for Hartsy_25:
(Start: 58 @18692 has 72 MA's), (91, 18764), (103, 18815), (105, 18821), (106, 18827), (132, 18890), (143, 18932), (165, 19010), (177, 19058), (182, 19082), (187, 19100), (189, 19106),

Gene: Harvey_25 Start: 18698, Stop: 19120, Start Num: 59
Candidate Starts for Harvey_25:
(33, 18632), (Start: 59 @18698 has 263 MA's), (103, 18821), (105, 18827), (106, 18833), (132, 18896), (143, 18938), (165, 19016), (177, 19064), (182, 19088), (187, 19106), (189, 19112),

Gene: HarveySr_26 Start: 19343, Stop: 19756, Start Num: 69
Candidate Starts for HarveySr_26:
(Start: 69 @19343 has 51 MA's), (105, 19463), (106, 19469), (149, 19601), (181, 19727),

Gene: Hashim76_29 Start: 19154, Stop: 19570, Start Num: 63
Candidate Starts for Hashim76_29:

(Start: 63 @19154 has 20 MA's), (105, 19277), (112, 19307), (165, 19466), (171, 19481), (189, 19562),

Gene: Heath_22 Start: 18962, Stop: 19375, Start Num: 66
Candidate Starts for Heath_22:
(Start: 66 @18962 has 30 MA's), (103, 19076), (105, 19082), (106, 19088), (118, 19124), (137, 19163), (139, 19175), (143, 19193), (165, 19271), (181, 19340), (182, 19343), (189, 19367),

Gene: Heathcliff_26 Start: 19325, Stop: 19738, Start Num: 69
Candidate Starts for Heathcliff_26:
(Start: 69 @19325 has 51 MA's), (105, 19445), (106, 19451), (123, 19499), (149, 19583), (181, 19709),

Gene: Hedgerow_27 Start: 20936, Stop: 21364, Start Num: 59
Candidate Starts for Hedgerow_27:
(47, 20909), (Start: 59 @20936 has 263 MA's), (70, 20951), (105, 21068), (106, 21074), (113, 21101), (123, 21122), (132, 21140), (165, 21260), (168, 21266), (181, 21329), (189, 21356),

Gene: Hekos_22 Start: 17227, Stop: 17649, Start Num: 58
Candidate Starts for Hekos_22:
(Start: 58 @17227 has 72 MA's), (103, 17350), (105, 17356), (106, 17362), (132, 17425), (143, 17467), (165, 17545), (177, 17593), (182, 17617), (187, 17635), (189, 17641),

Gene: Held_25 Start: 18383, Stop: 18805, Start Num: 59
Candidate Starts for Held_25:
(33, 18317), (Start: 59 @18383 has 263 MA's), (103, 18506), (105, 18512), (106, 18518), (132, 18581), (143, 18623), (165, 18701), (177, 18749), (182, 18773), (187, 18791), (189, 18797),

Gene: Hendrix_67 Start: 39133, Stop: 39537, Start Num: 40
Candidate Starts for Hendrix_67:
(Start: 40 @39133 has 2 MA's), (98, 39268), (102, 39283), (177, 39493), (181, 39514), (183, 39520), (186, 39532),

Gene: HenryJackson_24 Start: 18399, Stop: 18821, Start Num: 59
Candidate Starts for HenryJackson_24:
(33, 18333), (Start: 59 @18399 has 263 MA's), (103, 18522), (105, 18528), (106, 18534), (132, 18597), (143, 18639), (165, 18717), (177, 18765), (182, 18789), (187, 18807), (189, 18813),

Gene: Hermeonysus_32 Start: 19280, Stop: 19684, Start Num: 41
Candidate Starts for Hermeonysus_32:
(Start: 41 @19280 has 57 MA's), (48, 19289), (60, 19316), (62, 19319), (98, 19415), (102, 19430), (105, 19442), (106, 19448), (133, 19490), (158, 19565), (168, 19598), (177, 19640), (186, 19679),

Gene: Hertubise_25 Start: 18691, Stop: 19113, Start Num: 59
Candidate Starts for Hertubise_25:
(33, 18625), (Start: 59 @18691 has 263 MA's), (103, 18814), (105, 18820), (106, 18826), (132, 18889), (143, 18931), (165, 19009), (177, 19057), (182, 19081), (187, 19099), (189, 19105),

Gene: Hetaeria_25 Start: 18692, Stop: 19114, Start Num: 59
Candidate Starts for Hetaeria_25:
(33, 18626), (Start: 59 @18692 has 263 MA's), (103, 18815), (105, 18821), (106, 18827), (132, 18890), (143, 18932), (158, 18983), (165, 19010), (177, 19058), (182, 19082), (187, 19100), (189, 19106),

Gene: HighStump_24 Start: 18382, Stop: 18804, Start Num: 59
Candidate Starts for HighStump_24:

(33, 18316), (Start: 59 @18382 has 263 MA's), (103, 18505), (105, 18511), (106, 18517), (132, 18580), (143, 18622), (158, 18673), (165, 18700), (177, 18748), (182, 18772), (187, 18790), (189, 18796),

Gene: Hocus_24 Start: 18385, Stop: 18807, Start Num: 58
Candidate Starts for Hocus_24:
(Start: 58 @18385 has 72 MA's), (103, 18508), (105, 18514), (106, 18520), (132, 18583), (143, 18625), (165, 18703), (177, 18751), (182, 18775), (187, 18793), (189, 18799),

Gene: HogWash_24 Start: 18679, Stop: 19101, Start Num: 58
Candidate Starts for HogWash_24:
(Start: 58 @18679 has 72 MA's), (103, 18802), (105, 18808), (106, 18814), (132, 18877), (143, 18919), (165, 18997), (177, 19045), (182, 19069), (187, 19087), (189, 19093),

Gene: Holeinone_27 Start: 20832, Stop: 21260, Start Num: 59
Candidate Starts for Holeinone_27:
(47, 20805), (Start: 59 @20832 has 263 MA's), (70, 20847), (105, 20964), (106, 20970), (113, 20997), (123, 21018), (132, 21036), (165, 21156), (168, 21162), (181, 21225), (189, 21252),

Gene: Honeyfin_34 Start: 19595, Stop: 19999, Start Num: 41
Candidate Starts for Honeyfin_34:
(Start: 41 @19595 has 57 MA's), (48, 19604), (60, 19631), (62, 19634), (98, 19730), (102, 19745), (105, 19757), (106, 19763), (133, 19805), (158, 19880), (168, 19913), (177, 19955), (186, 19994),

Gene: Horchata_25 Start: 18661, Stop: 19083, Start Num: 59
Candidate Starts for Horchata_25:
(33, 18595), (Start: 59 @18661 has 263 MA's), (103, 18784), (105, 18790), (106, 18796), (132, 18859), (143, 18901), (165, 18979), (177, 19027), (182, 19051), (187, 19069), (189, 19075),

Gene: Hosp_019 Start: 16062, Stop: 16475, Start Num: 58
Candidate Starts for Hosp_019:
(Start: 58 @16062 has 72 MA's), (95, 16152), (118, 16230), (132, 16257), (143, 16299), (164, 16374),

Gene: Hydro_23 Start: 19336, Stop: 19749, Start Num: 66
Candidate Starts for Hydro_23:
(Start: 66 @19336 has 30 MA's), (103, 19450), (105, 19456), (106, 19462), (118, 19498), (137, 19537), (139, 19549), (143, 19567), (165, 19645), (177, 19693), (181, 19714), (182, 19717), (189, 19741),

Gene: ImtiyazSitla_24 Start: 18226, Stop: 18648, Start Num: 58
Candidate Starts for ImtiyazSitla_24:
(Start: 58 @18226 has 72 MA's), (103, 18349), (105, 18355), (106, 18361), (132, 18424), (143, 18466), (165, 18544), (177, 18592), (182, 18616), (187, 18634), (189, 18640),

Gene: Imvubu_19 Start: 16429, Stop: 16845, Start Num: 63
Candidate Starts for Imvubu_19:
(Start: 63 @16429 has 20 MA's), (70, 16438), (105, 16552), (137, 16633), (160, 16723), (187, 16831), (189, 16837),

Gene: Inchworm_25 Start: 18668, Stop: 19090, Start Num: 59
Candidate Starts for Inchworm_25:
(33, 18602), (Start: 59 @18668 has 263 MA's), (103, 18791), (105, 18797), (106, 18803), (132, 18866), (143, 18908), (165, 18986), (177, 19034), (182, 19058), (187, 19076), (189, 19082),

Gene: Indlovu_23 Start: 19044, Stop: 19460, Start Num: 58

Candidate Starts for Indlovu_23:
(Start: 58 @19044 has 72 MA's), (118, 19212), (143, 19281), (165, 19359), (181, 19428), (182, 19431),

Gene: Inverness_25 Start: 18682, Stop: 19104, Start Num: 59
Candidate Starts for Inverness_25:
(33, 18616), (Start: 59 @18682 has 263 MA's), (103, 18805), (105, 18811), (106, 18817), (132, 18880), (143, 18922), (165, 19000), (177, 19048), (182, 19072), (187, 19090), (189, 19096),

Gene: Iridessa_25 Start: 18368, Stop: 18790, Start Num: 58
Candidate Starts for Iridessa_25:
(Start: 58 @18368 has 72 MA's), (91, 18440), (103, 18491), (105, 18497), (106, 18503), (132, 18566), (143, 18608), (165, 18686), (177, 18734), (182, 18758), (187, 18776), (189, 18782),

Gene: Iridoclysis_25 Start: 18656, Stop: 19078, Start Num: 59
Candidate Starts for Iridoclysis_25:
(33, 18590), (Start: 59 @18656 has 263 MA's), (103, 18779), (105, 18785), (106, 18791), (132, 18854), (143, 18896), (165, 18974), (177, 19022), (182, 19046), (187, 19064), (189, 19070),

Gene: IsaacEli_25 Start: 18686, Stop: 19108, Start Num: 59
Candidate Starts for IsaacEli_25:
(33, 18620), (Start: 59 @18686 has 263 MA's), (103, 18809), (105, 18815), (106, 18821), (132, 18884), (143, 18926), (158, 18977), (165, 19004), (177, 19052), (182, 19076), (187, 19094), (189, 19100),

Gene: ItsyBitsy1_27 Start: 20825, Stop: 21253, Start Num: 59
Candidate Starts for ItsyBitsy1_27:
(47, 20798), (Start: 59 @20825 has 263 MA's), (70, 20840), (105, 20957), (106, 20963), (113, 20990), (123, 21011), (132, 21029), (165, 21149), (168, 21155), (181, 21218), (189, 21245),

Gene: JAMaL_23 Start: 19500, Stop: 19913, Start Num: 66
Candidate Starts for JAMaL_23:
(Start: 66 @19500 has 30 MA's), (Start: 81 @19539 has 1 MA's), (106, 19626), (132, 19689), (137, 19701), (143, 19731), (189, 19905),

Gene: JDog_24 Start: 18392, Stop: 18814, Start Num: 58
Candidate Starts for JDog_24:
(Start: 58 @18392 has 72 MA's), (103, 18515), (105, 18521), (106, 18527), (132, 18590), (143, 18632), (165, 18710), (177, 18758), (182, 18782), (187, 18800), (189, 18806),

Gene: JacAttac_25 Start: 18668, Stop: 19090, Start Num: 59
Candidate Starts for JacAttac_25:
(33, 18602), (Start: 59 @18668 has 263 MA's), (103, 18791), (105, 18797), (106, 18803), (132, 18866), (143, 18908), (165, 18986), (177, 19034), (182, 19058), (187, 19076), (189, 19082),

Gene: JaguarMi_23 Start: 18798, Stop: 19211, Start Num: 66
Candidate Starts for JaguarMi_23:
(Start: 66 @18798 has 30 MA's), (103, 18912), (105, 18918), (106, 18924), (118, 18960), (137, 18999), (139, 19011), (143, 19029), (165, 19107), (181, 19176), (182, 19179), (189, 19203),

Gene: JakeO_24 Start: 18392, Stop: 18814, Start Num: 58
Candidate Starts for JakeO_24:
(Start: 58 @18392 has 72 MA's), (103, 18515), (105, 18521), (106, 18527), (132, 18590), (143, 18632), (165, 18710), (177, 18758), (182, 18782), (187, 18800), (189, 18806),

Gene: JangoPhett_25 Start: 18666, Stop: 19088, Start Num: 59
Candidate Starts for JangoPhett_25:
(33, 18600), (Start: 59 @18666 has 263 MA's), (103, 18789), (105, 18795), (106, 18801), (132, 18864), (143, 18906), (165, 18984), (177, 19032), (182, 19056), (187, 19074), (189, 19080),

Gene: Jayden_34 Start: 19325, Stop: 19741, Start Num: 34
Candidate Starts for Jayden_34:
(Start: 34 @19325 has 1 MA's), (Start: 36 @19331 has 2 MA's), (102, 19487), (105, 19499), (106, 19505), (133, 19547), (157, 19619), (158, 19622), (168, 19655), (173, 19670), (177, 19697), (186, 19736),

Gene: Jbug01_25 Start: 18255, Stop: 18677, Start Num: 58
Candidate Starts for Jbug01_25:
(Start: 58 @18255 has 72 MA's), (103, 18378), (105, 18384), (106, 18390), (132, 18453), (143, 18495), (165, 18573), (177, 18621), (182, 18645), (187, 18663), (189, 18669),

Gene: Jefe_33 Start: 19332, Stop: 19736, Start Num: 41
Candidate Starts for Jefe_33:
(Start: 41 @19332 has 57 MA's), (48, 19341), (60, 19368), (62, 19371), (98, 19467), (102, 19482), (105, 19494), (106, 19500), (133, 19542), (158, 19617), (168, 19650), (177, 19692), (186, 19731),

Gene: JellyBelly_22 Start: 17123, Stop: 17536, Start Num: 61
Candidate Starts for JellyBelly_22:
(29, 17024), (Start: 50 @17102 has 1 MA's), (Start: 61 @17123 has 24 MA's), (Start: 79 @17165 has 4 MA's), (94, 17204), (105, 17249), (106, 17255), (123, 17303), (143, 17363),

Gene: Jeon_19 Start: 18215, Stop: 18625, Start Num: 67
Candidate Starts for Jeon_19:
(Start: 67 @18215 has 8 MA's), (94, 18290), (105, 18335), (106, 18341), (120, 18383), (132, 18407), (138, 18428), (164, 18530), (177, 18575),

Gene: Jesabah_25 Start: 18394, Stop: 18816, Start Num: 59
Candidate Starts for Jesabah_25:
(33, 18328), (Start: 59 @18394 has 263 MA's), (103, 18517), (105, 18523), (106, 18529), (132, 18592), (143, 18634), (165, 18712), (177, 18760), (182, 18784), (187, 18802), (189, 18808),

Gene: Jillium_24 Start: 18392, Stop: 18814, Start Num: 59
Candidate Starts for Jillium_24:
(33, 18326), (Start: 59 @18392 has 263 MA's), (103, 18515), (105, 18521), (106, 18527), (132, 18590), (143, 18632), (165, 18710), (177, 18758), (182, 18782), (187, 18800), (189, 18806),

Gene: Jiminy_24 Start: 18230, Stop: 18652, Start Num: 58
Candidate Starts for Jiminy_24:
(Start: 58 @18230 has 72 MA's), (103, 18353), (105, 18359), (106, 18365), (132, 18428), (143, 18470), (165, 18548), (177, 18596), (182, 18620), (187, 18638), (189, 18644),

Gene: Jiraiya_24 Start: 18390, Stop: 18812, Start Num: 59
Candidate Starts for Jiraiya_24:
(33, 18324), (Start: 59 @18390 has 263 MA's), (103, 18513), (105, 18519), (106, 18525), (132, 18588), (143, 18630), (165, 18708), (177, 18756), (182, 18780), (187, 18798), (189, 18804),

Gene: Jolie1_021 Start: 17832, Stop: 18245, Start Num: 58
Candidate Starts for Jolie1_021:

(Start: 58 @17832 has 72 MA's), (118, 18000), (122, 18009), (132, 18027), (164, 18144),

Gene: Jollipop_33 Start: 19677, Stop: 20081, Start Num: 41
Candidate Starts for Jollipop_33:
(Start: 41 @19677 has 57 MA's), (48, 19686), (60, 19713), (62, 19716), (98, 19812), (102, 19827), (105, 19839), (106, 19845), (133, 19887), (158, 19962), (168, 19995), (177, 20037), (186, 20076),

Gene: JoyceMaria_23 Start: 19337, Stop: 19750, Start Num: 66
Candidate Starts for JoyceMaria_23:
(Start: 66 @19337 has 30 MA's), (103, 19451), (105, 19457), (106, 19463), (118, 19499), (137, 19538), (139, 19550), (143, 19568), (165, 19646), (181, 19715), (182, 19718), (189, 19742),

Gene: KLucky39_25 Start: 18674, Stop: 19096, Start Num: 59
Candidate Starts for KLucky39_25:
(33, 18608), (Start: 59 @18674 has 263 MA's), (103, 18797), (105, 18803), (106, 18809), (132, 18872), (143, 18914), (165, 18992), (177, 19040), (182, 19064), (187, 19082), (189, 19088),

Gene: KSunshine22_82 Start: 50145, Stop: 50489, Start Num: 81
Candidate Starts for KSunshine22_82:
(Start: 72 @50109 has 13 MA's), (Start: 81 @50145 has 1 MA's), (106, 50232), (131, 50295), (139, 50322), (141, 50331), (171, 50427),

Gene: Kahve_24 Start: 18396, Stop: 18818, Start Num: 59
Candidate Starts for Kahve_24:
(33, 18330), (Start: 59 @18396 has 263 MA's), (103, 18519), (105, 18525), (106, 18531), (132, 18594), (143, 18636), (158, 18687), (165, 18714), (177, 18762), (182, 18786), (187, 18804), (189, 18810),

Gene: KaiHaiDragon_33 Start: 19271, Stop: 19675, Start Num: 41
Candidate Starts for KaiHaiDragon_33:
(Start: 41 @19271 has 57 MA's), (48, 19280), (60, 19307), (62, 19310), (98, 19406), (102, 19421), (105, 19433), (106, 19439), (133, 19481), (158, 19556), (168, 19589), (177, 19631), (186, 19670),

Gene: Kailash_25 Start: 18704, Stop: 19126, Start Num: 58
Candidate Starts for Kailash_25:
(Start: 58 @18704 has 72 MA's), (91, 18776), (103, 18827), (105, 18833), (106, 18839), (132, 18902), (143, 18944), (165, 19022), (177, 19070), (182, 19094), (187, 19112), (189, 19118),

Gene: Kaleb_27 Start: 20951, Stop: 21379, Start Num: 59
Candidate Starts for Kaleb_27:
(47, 20924), (Start: 59 @20951 has 263 MA's), (70, 20966), (105, 21083), (106, 21089), (113, 21116), (123, 21137), (132, 21155), (165, 21275), (168, 21281), (181, 21344), (189, 21371),

Gene: Kamiyu_26 Start: 19332, Stop: 19745, Start Num: 69
Candidate Starts for Kamiyu_26:
(Start: 69 @19332 has 51 MA's), (94, 19407), (105, 19452), (106, 19458), (149, 19590), (181, 19716),

Gene: KarasumaRum_27 Start: 19514, Stop: 19930, Start Num: 63
Candidate Starts for KarasumaRum_27:
(Start: 63 @19514 has 20 MA's), (132, 19706), (158, 19799), (190, 19925),

Gene: Karn_24 Start: 18390, Stop: 18812, Start Num: 58
Candidate Starts for Karn_24:

(Start: 58 @18390 has 72 MA's), (103, 18513), (105, 18519), (106, 18525), (132, 18588), (143, 18630), (165, 18708), (177, 18756), (182, 18780), (187, 18798), (189, 18804),

Gene: Katniss_25 Start: 18694, Stop: 19116, Start Num: 59
Candidate Starts for Katniss_25:
(33, 18628), (Start: 59 @18694 has 263 MA's), (103, 18817), (105, 18823), (106, 18829), (132, 18892), (143, 18934), (165, 19012), (177, 19060), (182, 19084), (187, 19102), (189, 19108),

Gene: KayaCho_21 Start: 17836, Stop: 18249, Start Num: 58
Candidate Starts for KayaCho_21:
(Start: 58 @17836 has 72 MA's), (106, 17968), (118, 18004), (132, 18031), (143, 18073), (164, 18148), (165, 18151),

Gene: Keitherie_25 Start: 18714, Stop: 19136, Start Num: 58
Candidate Starts for Keitherie_25:
(Start: 58 @18714 has 72 MA's), (91, 18786), (103, 18837), (105, 18843), (106, 18849), (132, 18912), (143, 18954), (165, 19032), (177, 19080), (182, 19104), (187, 19122), (189, 19128),

Gene: Khan1_24 Start: 18410, Stop: 18832, Start Num: 58
Candidate Starts for Khan1_24:
(Start: 58 @18410 has 72 MA's), (91, 18482), (103, 18533), (105, 18539), (106, 18545), (132, 18608), (143, 18650), (165, 18728), (177, 18776), (182, 18800), (187, 18818), (189, 18824),

Gene: Kheth_27 Start: 20837, Stop: 21265, Start Num: 59
Candidate Starts for Kheth_27:
(47, 20810), (Start: 59 @20837 has 263 MA's), (70, 20852), (105, 20969), (106, 20975), (113, 21002), (123, 21023), (132, 21041), (165, 21161), (168, 21167), (181, 21230), (189, 21257),

Gene: Kikipoo_25 Start: 18686, Stop: 19108, Start Num: 59
Candidate Starts for Kikipoo_25:
(33, 18620), (Start: 59 @18686 has 263 MA's), (103, 18809), (105, 18815), (106, 18821), (132, 18884), (143, 18926), (158, 18977), (165, 19004), (177, 19052), (182, 19076), (187, 19094), (189, 19100),

Gene: KimJongPhill_18 Start: 13783, Stop: 14178, Start Num: 76
Candidate Starts for KimJongPhill_18:
(35, 13690), (Start: 76 @13783 has 2 MA's), (85, 13807), (88, 13813), (100, 13861), (121, 13930), (143, 13990), (156, 14029), (188, 14164), (191, 14173),

Gene: Kimbrough_25 Start: 18388, Stop: 18810, Start Num: 59
Candidate Starts for Kimbrough_25:
(33, 18322), (Start: 59 @18388 has 263 MA's), (103, 18511), (105, 18517), (106, 18523), (132, 18586), (143, 18628), (165, 18706), (177, 18754), (182, 18778), (187, 18796), (189, 18802),

Gene: KingVeVeVe_25 Start: 18665, Stop: 19087, Start Num: 59
Candidate Starts for KingVeVeVe_25:
(33, 18599), (Start: 59 @18665 has 263 MA's), (103, 18788), (105, 18794), (106, 18800), (132, 18863), (143, 18905), (165, 18983), (177, 19031), (182, 19055), (187, 19073), (189, 19079),

Gene: Kithara_33 Start: 23575, Stop: 23991, Start Num: 41
Candidate Starts for Kithara_33:
(Start: 41 @23575 has 57 MA's), (75, 23635), (80, 23656), (168, 23896), (177, 23938),

Gene: Kiwot_24 Start: 18236, Stop: 18658, Start Num: 58

Candidate Starts for Kiwot_24:
(Start: 58 @18236 has 72 MA's), (103, 18359), (105, 18365), (106, 18371), (132, 18434), (143, 18476), (165, 18554), (177, 18602), (182, 18626), (187, 18644), (189, 18650),

Gene: KlimbOn_25 Start: 18674, Stop: 19096, Start Num: 59
Candidate Starts for KlimbOn_25:
(33, 18608), (Start: 59 @18674 has 263 MA's), (103, 18797), (105, 18803), (106, 18809), (132, 18872), (143, 18914), (165, 18992), (177, 19040), (182, 19064), (187, 19082), (189, 19088),

Gene: Kloppinator_25 Start: 18694, Stop: 19116, Start Num: 59
Candidate Starts for Kloppinator_25:
(33, 18628), (Start: 59 @18694 has 263 MA's), (103, 18817), (105, 18823), (106, 18829), (132, 18892), (143, 18934), (165, 19012), (177, 19060), (182, 19084), (187, 19102), (189, 19108),

Gene: Knocker_27 Start: 21795, Stop: 22214, Start Num: 63
Candidate Starts for Knocker_27:
(Start: 63 @21795 has 20 MA's), (106, 21924), (118, 21960), (139, 22011), (143, 22029), (158, 22080), (165, 22107), (171, 22122), (182, 22179), (187, 22197), (189, 22203),

Gene: Kolhan_27 Start: 20834, Stop: 21262, Start Num: 59
Candidate Starts for Kolhan_27:
(47, 20807), (Start: 59 @20834 has 263 MA's), (70, 20849), (105, 20966), (106, 20972), (113, 20999), (123, 21020), (132, 21038), (165, 21158), (168, 21164), (181, 21227), (189, 21254),

Gene: Kowalski_32 Start: 19387, Stop: 19791, Start Num: 41
Candidate Starts for Kowalski_32:
(Start: 41 @19387 has 57 MA's), (48, 19396), (60, 19423), (62, 19426), (98, 19522), (102, 19537), (105, 19549), (106, 19555), (133, 19597), (158, 19672), (168, 19705), (177, 19747), (186, 19786),

Gene: Kozie_29 Start: 19096, Stop: 19503, Start Num: 41
Candidate Starts for Kozie_29:
(Start: 41 @19096 has 57 MA's), (49, 19111), (75, 19153), (92, 19204), (102, 19246), (106, 19264), (142, 19330), (157, 19378), (158, 19381), (159, 19384), (168, 19414), (173, 19429), (177, 19456), (186, 19495),

Gene: Kronus_25 Start: 19946, Stop: 20359, Start Num: 69
Candidate Starts for Kronus_25:
(Start: 69 @19946 has 51 MA's), (105, 20066), (106, 20072), (123, 20120), (149, 20204), (181, 20330),

Gene: Kroos_30 Start: 22606, Stop: 23040, Start Num: 46
Candidate Starts for Kroos_30:
(45, 22597), (Start: 46 @22606 has 12 MA's), (82, 22690), (104, 22765), (144, 22867), (150, 22888), (168, 22945), (173, 22960), (182, 23011),

Gene: Kwadwo_24 Start: 18378, Stop: 18800, Start Num: 59
Candidate Starts for Kwadwo_24:
(33, 18312), (Start: 59 @18378 has 263 MA's), (103, 18501), (105, 18507), (106, 18513), (132, 18576), (143, 18618), (165, 18696), (177, 18744), (182, 18768), (187, 18786), (189, 18792),

Gene: Kwksand96_24 Start: 18240, Stop: 18662, Start Num: 58
Candidate Starts for Kwksand96_24:
(Start: 58 @18240 has 72 MA's), (103, 18363), (105, 18369), (106, 18375), (132, 18438), (143, 18480), (165, 18558), (177, 18606), (182, 18630), (187, 18648), (189, 18654),

Gene: Kwobi_31 Start: 22592, Stop: 23026, Start Num: 46
Candidate Starts for Kwobi_31:
(45, 22583), (Start: 46 @22592 has 12 MA's), (82, 22676), (104, 22751), (144, 22853), (150, 22874), (168, 22931), (173, 22946), (182, 22997),

Gene: Labeouficaum_24 Start: 18236, Stop: 18658, Start Num: 58
Candidate Starts for Labeouficaum_24:
(Start: 58 @18236 has 72 MA's), (103, 18359), (105, 18365), (106, 18371), (132, 18434), (143, 18476), (165, 18554), (177, 18602), (182, 18626), (187, 18644), (189, 18650),

Gene: Lambano_22 Start: 18304, Stop: 18717, Start Num: 66
Candidate Starts for Lambano_22:
(Start: 66 @18304 has 30 MA's), (103, 18418), (105, 18424), (106, 18430), (118, 18466), (132, 18493), (137, 18505), (139, 18517), (143, 18535), (165, 18613), (181, 18682), (189, 18709),

Gene: Lars_27 Start: 20954, Stop: 21382, Start Num: 59
Candidate Starts for Lars_27:
(47, 20927), (Start: 59 @20954 has 263 MA's), (70, 20969), (105, 21086), (106, 21092), (113, 21119), (123, 21140), (132, 21158), (165, 21278), (168, 21284), (181, 21347), (189, 21374),

Gene: Larson_26 Start: 18712, Stop: 19134, Start Num: 58
Candidate Starts for Larson_26:
(Start: 58 @18712 has 72 MA's), (91, 18784), (103, 18835), (105, 18841), (106, 18847), (132, 18910), (143, 18952), (165, 19030), (177, 19078), (182, 19102), (187, 19120), (189, 19126),

Gene: LasagnaCat_25 Start: 18680, Stop: 19102, Start Num: 59
Candidate Starts for LasagnaCat_25:
(31, 18590), (33, 18614), (Start: 59 @18680 has 263 MA's), (103, 18803), (105, 18809), (106, 18815), (132, 18878), (143, 18920), (165, 18998), (177, 19046), (182, 19070), (187, 19088), (189, 19094),

Gene: Lasso_25 Start: 18653, Stop: 19075, Start Num: 59
Candidate Starts for Lasso_25:
(33, 18587), (Start: 59 @18653 has 263 MA's), (103, 18776), (105, 18782), (106, 18788), (132, 18851), (143, 18893), (158, 18944), (165, 18971), (177, 19019), (182, 19043), (187, 19061), (189, 19067),

Gene: Laurie_27 Start: 20832, Stop: 21260, Start Num: 59
Candidate Starts for Laurie_27:
(47, 20805), (Start: 59 @20832 has 263 MA's), (70, 20847), (105, 20964), (106, 20970), (113, 20997), (123, 21018), (132, 21036), (143, 21078), (165, 21156), (168, 21162), (181, 21225), (189, 21252),

Gene: Leaf_73 Start: 39864, Stop: 40274, Start Num: 41
Candidate Starts for Leaf_73:
(14, 39612), (19, 39717), (24, 39774), (Start: 41 @39864 has 57 MA's), (54, 39888), (102, 40017), (109, 40044), (133, 40080), (153, 40140), (165, 40182), (177, 40227), (181, 40248),

Gene: LeeLot_25 Start: 18678, Stop: 19100, Start Num: 59
Candidate Starts for LeeLot_25:
(33, 18612), (Start: 59 @18678 has 263 MA's), (103, 18801), (105, 18807), (106, 18813), (132, 18876), (143, 18918), (165, 18996), (177, 19044), (182, 19068), (187, 19086), (189, 19092),

Gene: Lego3393_25 Start: 18690, Stop: 19112, Start Num: 59
Candidate Starts for Lego3393_25:

(33, 18624), (Start: 59 @18690 has 263 MA's), (103, 18813), (105, 18819), (106, 18825), (132, 18888), (143, 18930), (165, 19008), (177, 19056), (182, 19080), (187, 19098), (189, 19104),

Gene: Legolas_24 Start: 18394, Stop: 18816, Start Num: 59
Candidate Starts for Legolas_24:
(33, 18328), (Start: 59 @18394 has 263 MA's), (103, 18517), (105, 18523), (106, 18529), (132, 18592), (143, 18634), (165, 18712), (177, 18760), (182, 18784), (187, 18802), (189, 18808),

Gene: Lehmann_25 Start: 18220, Stop: 18642, Start Num: 59
Candidate Starts for Lehmann_25:
(33, 18154), (Start: 59 @18220 has 263 MA's), (103, 18343), (105, 18349), (106, 18355), (132, 18418), (143, 18460), (165, 18538), (177, 18586), (182, 18610), (187, 18628), (189, 18634),

Gene: LeiMonet_25 Start: 18385, Stop: 18807, Start Num: 59
Candidate Starts for LeiMonet_25:
(33, 18319), (Start: 59 @18385 has 263 MA's), (103, 18508), (105, 18514), (106, 18520), (132, 18583), (143, 18625), (158, 18676), (165, 18703), (177, 18751), (182, 18775), (187, 18793), (189, 18799),

Gene: LemonSlice_25 Start: 18385, Stop: 18807, Start Num: 59
Candidate Starts for LemonSlice_25:
(33, 18319), (Start: 59 @18385 has 263 MA's), (103, 18508), (105, 18514), (106, 18520), (132, 18583), (143, 18625), (165, 18703), (177, 18751), (182, 18775), (187, 18793), (189, 18799),

Gene: LeoJr_87 Start: 52158, Stop: 52538, Start Num: 72
Candidate Starts for LeoJr_87:
(Start: 72 @52158 has 13 MA's), (74, 52167), (Start: 81 @52194 has 1 MA's), (126, 52335), (141, 52380), (152, 52413), (171, 52476),

Gene: Lephleur_27 Start: 20837, Stop: 21265, Start Num: 59
Candidate Starts for Lephleur_27:
(47, 20810), (Start: 59 @20837 has 263 MA's), (70, 20852), (105, 20969), (106, 20975), (113, 21002), (123, 21023), (132, 21041), (165, 21161), (168, 21167), (181, 21230), (189, 21257),

Gene: LestyG_26 Start: 19367, Stop: 19780, Start Num: 69
Candidate Starts for LestyG_26:
(Start: 69 @19367 has 51 MA's), (94, 19442), (105, 19487), (106, 19493), (149, 19625), (181, 19751),

Gene: Ligma_22 Start: 17225, Stop: 17635, Start Num: 61
Candidate Starts for Ligma_22:
(Start: 61 @17225 has 24 MA's), (94, 17306), (103, 17345), (106, 17357), (120, 17399), (123, 17405), (132, 17423), (157, 17513),

Gene: LilHam_27 Start: 21186, Stop: 21620, Start Num: 46
Candidate Starts for LilHam_27:
(45, 21177), (Start: 46 @21186 has 12 MA's), (82, 21270), (104, 21345), (144, 21447), (150, 21468), (168, 21525), (173, 21540), (182, 21591),

Gene: LilMcDreamy_22 Start: 19306, Stop: 19722, Start Num: 63
Candidate Starts for LilMcDreamy_22:
(Start: 63 @19306 has 20 MA's), (95, 19393), (105, 19429), (106, 19435), (152, 19570), (165, 19618),

Gene: LilSmirk_27 Start: 20834, Stop: 21262, Start Num: 59
Candidate Starts for LilSmirk_27:

(47, 20807), (Start: 59 @20834 has 263 MA's), (70, 20849), (105, 20966), (106, 20972), (113, 20999), (123, 21020), (132, 21038), (165, 21158), (168, 21164), (181, 21227), (189, 21254),

Gene: Lilbeanie_25 Start: 16498, Stop: 16914, Start Num: 39
Candidate Starts for Lilbeanie_25:
(Start: 39 @16498 has 1 MA's), (82, 16585), (156, 16795), (182, 16888),

Gene: LittleDigger_22 Start: 18311, Stop: 18724, Start Num: 66
Candidate Starts for LittleDigger_22:
(Start: 66 @18311 has 30 MA's), (103, 18425), (105, 18431), (106, 18437), (118, 18473), (137, 18512), (139, 18524), (143, 18542), (165, 18620), (181, 18689), (189, 18716),

Gene: LittleFortune_34 Start: 19637, Stop: 20041, Start Num: 41
Candidate Starts for LittleFortune_34:
(Start: 41 @19637 has 57 MA's), (48, 19646), (60, 19673), (62, 19676), (98, 19772), (102, 19787), (105, 19799), (106, 19805), (133, 19847), (158, 19922), (168, 19955), (177, 19997), (186, 20036),

Gene: LittleMinkey_30 Start: 19265, Stop: 19681, Start Num: 63
Candidate Starts for LittleMinkey_30:
(Start: 63 @19265 has 20 MA's), (112, 19418), (113, 19421), (165, 19577), (171, 19592), (189, 19673),

Gene: LittleMunchkin_24 Start: 20052, Stop: 20465, Start Num: 61
Candidate Starts for LittleMunchkin_24:
(Start: 61 @20052 has 24 MA's), (91, 20121), (94, 20133), (106, 20184), (123, 20232), (165, 20370), (181, 20439),

Gene: LizLemon_27 Start: 20954, Stop: 21382, Start Num: 59
Candidate Starts for LizLemon_27:
(47, 20927), (Start: 59 @20954 has 263 MA's), (70, 20969), (105, 21086), (106, 21092), (113, 21119), (123, 21140), (132, 21158), (165, 21278), (168, 21284), (181, 21347), (189, 21374),

Gene: Lolalove_23 Start: 19333, Stop: 19746, Start Num: 66
Candidate Starts for Lolalove_23:
(Start: 66 @19333 has 30 MA's), (103, 19447), (105, 19453), (106, 19459), (118, 19495), (137, 19534), (139, 19546), (143, 19564), (165, 19642), (177, 19690), (181, 19711), (182, 19714), (189, 19738),

Gene: Longacauda_24 Start: 18380, Stop: 18802, Start Num: 58
Candidate Starts for Longacauda_24:
(Start: 58 @18380 has 72 MA's), (103, 18503), (105, 18509), (106, 18515), (132, 18578), (143, 18620), (165, 18698), (177, 18746), (182, 18770), (187, 18788), (189, 18794),

Gene: Lopsy_24 Start: 18236, Stop: 18658, Start Num: 59
Candidate Starts for Lopsy_24:
(33, 18170), (Start: 59 @18236 has 263 MA's), (103, 18359), (105, 18365), (106, 18371), (132, 18434), (143, 18476), (165, 18554), (177, 18602), (182, 18626), (187, 18644), (189, 18650),

Gene: LostAndPhound_24 Start: 18387, Stop: 18809, Start Num: 59
Candidate Starts for LostAndPhound_24:
(33, 18321), (Start: 59 @18387 has 263 MA's), (103, 18510), (105, 18516), (106, 18522), (132, 18585), (143, 18627), (158, 18678), (165, 18705), (177, 18753), (182, 18777), (187, 18795), (189, 18801),

Gene: LuckyMarjie_24 Start: 18400, Stop: 18822, Start Num: 59
Candidate Starts for LuckyMarjie_24:

(33, 18334), (Start: 59 @18400 has 263 MA's), (103, 18523), (105, 18529), (106, 18535), (132, 18598), (143, 18640), (165, 18718), (177, 18766), (182, 18790), (187, 18808), (189, 18814),

Gene: Lucretia_33 Start: 19324, Stop: 19728, Start Num: 41
Candidate Starts for Lucretia_33:
(Start: 41 @19324 has 57 MA's), (48, 19333), (60, 19360), (62, 19363), (98, 19459), (102, 19474), (105, 19486), (106, 19492), (133, 19534), (158, 19609), (168, 19642), (177, 19684), (186, 19723),

Gene: Lulumae_24 Start: 18378, Stop: 18800, Start Num: 59
Candidate Starts for Lulumae_24:
(33, 18312), (Start: 59 @18378 has 263 MA's), (103, 18501), (105, 18507), (106, 18513), (132, 18576), (143, 18618), (165, 18696), (177, 18744), (182, 18768), (187, 18786), (189, 18792),

Gene: Lulwa_25 Start: 18665, Stop: 19087, Start Num: 59
Candidate Starts for Lulwa_25:
(33, 18599), (Start: 59 @18665 has 263 MA's), (103, 18788), (105, 18794), (106, 18800), (132, 18863), (143, 18905), (165, 18983), (177, 19031), (182, 19055), (187, 19073), (189, 19079),

Gene: Lumine_24 Start: 18374, Stop: 18796, Start Num: 59
Candidate Starts for Lumine_24:
(33, 18308), (Start: 59 @18374 has 263 MA's), (103, 18497), (105, 18503), (106, 18509), (132, 18572), (143, 18614), (165, 18692), (177, 18740), (182, 18764), (187, 18782), (189, 18788),

Gene: MRabcd_24 Start: 18379, Stop: 18801, Start Num: 59
Candidate Starts for MRabcd_24:
(33, 18313), (Start: 59 @18379 has 263 MA's), (103, 18502), (105, 18508), (106, 18514), (132, 18577), (143, 18619), (158, 18670), (165, 18697), (177, 18745), (182, 18769), (187, 18787), (189, 18793),

Gene: Mag7_24 Start: 18254, Stop: 18676, Start Num: 58
Candidate Starts for Mag7_24:
(Start: 58 @18254 has 72 MA's), (91, 18326), (103, 18377), (105, 18383), (106, 18389), (132, 18452), (143, 18494), (165, 18572), (177, 18620), (182, 18644), (187, 18662), (189, 18668),

Gene: Magic8_25 Start: 18692, Stop: 19114, Start Num: 58
Candidate Starts for Magic8_25:
(Start: 58 @18692 has 72 MA's), (91, 18764), (103, 18815), (105, 18821), (106, 18827), (132, 18890), (143, 18932), (165, 19010), (177, 19058), (182, 19082), (187, 19100), (189, 19106),

Gene: Magpie_22 Start: 19156, Stop: 19569, Start Num: 66
Candidate Starts for Magpie_22:
(Start: 66 @19156 has 30 MA's), (103, 19270), (105, 19276), (106, 19282), (118, 19318), (137, 19357), (139, 19369), (143, 19387), (165, 19465), (181, 19534), (182, 19537), (189, 19561),

Gene: Maih_19 Start: 19234, Stop: 19614, Start Num: 78
Candidate Starts for Maih_19:
(8, 18784), (23, 19066), (Start: 78 @19234 has 8 MA's), (84, 19249), (97, 19291), (109, 19336), (143, 19426), (151, 19456), (165, 19507), (171, 19522), (175, 19549), (176, 19552),

Gene: MakoManhole_24 Start: 18622, Stop: 19032, Start Num: 61
Candidate Starts for MakoManhole_24:
(Start: 61 @18622 has 24 MA's), (114, 18784), (120, 18796), (143, 18862), (149, 18886), (161, 18925), (165, 18940),

Gene: Mana_24 Start: 18381, Stop: 18803, Start Num: 59
Candidate Starts for Mana_24:
(33, 18315), (Start: 59 @18381 has 263 MA's), (103, 18504), (105, 18510), (106, 18516), (132, 18579), (143, 18621), (158, 18672), (165, 18699), (177, 18747), (182, 18771), (187, 18789), (189, 18795),

Gene: Manad_24 Start: 18231, Stop: 18653, Start Num: 59
Candidate Starts for Manad_24:
(33, 18165), (Start: 59 @18231 has 263 MA's), (103, 18354), (105, 18360), (106, 18366), (132, 18429), (143, 18471), (165, 18549), (177, 18597), (182, 18621), (187, 18639), (189, 18645),

Gene: Mao1_21 Start: 16621, Stop: 17025, Start Num: 64
Candidate Starts for Mao1_21:
(Start: 64 @16621 has 4 MA's), (94, 16699), (105, 16744), (106, 16750), (122, 16795), (132, 16816), (143, 16858), (149, 16882), (158, 16909), (162, 16921), (180, 16999),

Gene: Mareelih_94 Start: 51401, Stop: 51808, Start Num: 72
Candidate Starts for Mareelih_94:
(Start: 71 @51398 has 8 MA's), (Start: 72 @51401 has 13 MA's), (Start: 81 @51437 has 1 MA's), (98, 51491), (103, 51512), (139, 51614), (142, 51626), (146, 51668), (149, 51677), (158, 51704), (171, 51746), (177, 51779), (178, 51791), (181, 51800),

Gene: Margaery_28 Start: 18750, Stop: 19154, Start Num: 41
Candidate Starts for Margaery_28:
(15, 18570), (Start: 41 @18750 has 57 MA's), (49, 18765), (54, 18771), (75, 18807), (98, 18885), (102, 18900), (106, 18918), (158, 19035), (159, 19038), (168, 19065), (174, 19089), (177, 19107), (186, 19146),

Gene: Mariokart_22 Start: 17119, Stop: 17532, Start Num: 61
Candidate Starts for Mariokart_22:
(1, 16399), (2, 16444), (3, 16510), (4, 16582), (6, 16648), (29, 17020), (Start: 50 @17098 has 1 MA's), (Start: 61 @17119 has 24 MA's), (94, 17200), (95, 17209), (105, 17245), (106, 17251), (123, 17299), (143, 17359),

Gene: Marley1013_26 Start: 20148, Stop: 20561, Start Num: 69
Candidate Starts for Marley1013_26:
(Start: 69 @20148 has 51 MA's), (105, 20268), (106, 20274), (123, 20322), (149, 20406), (181, 20532),

Gene: Marlia_26 Start: 19347, Stop: 19760, Start Num: 69
Candidate Starts for Marlia_26:
(Start: 69 @19347 has 51 MA's), (94, 19422), (105, 19467), (106, 19473), (123, 19521), (149, 19605), (181, 19731),

Gene: Maru_24 Start: 18380, Stop: 18802, Start Num: 59
Candidate Starts for Maru_24:
(33, 18314), (Start: 59 @18380 has 263 MA's), (103, 18503), (105, 18509), (106, 18515), (132, 18578), (143, 18620), (165, 18698), (177, 18746), (182, 18770), (187, 18788), (189, 18794),

Gene: Mask_22 Start: 16622, Stop: 17026, Start Num: 64
Candidate Starts for Mask_22:
(Start: 64 @16622 has 4 MA's), (94, 16700), (105, 16745), (106, 16751), (122, 16796), (132, 16817), (143, 16859), (149, 16883), (158, 16910), (162, 16922), (180, 17000),

Gene: Maskar_24 Start: 18226, Stop: 18648, Start Num: 58

Candidate Starts for Maskar_24:
(Start: 58 @18226 has 72 MA's), (103, 18349), (105, 18355), (106, 18361), (132, 18424), (143, 18466), (165, 18544), (177, 18592), (182, 18616), (187, 18634), (189, 18640),

Gene: MasterPo_27 Start: 20834, Stop: 21262, Start Num: 59
Candidate Starts for MasterPo_27:
(47, 20807), (Start: 59 @20834 has 263 MA's), (70, 20849), (105, 20966), (106, 20972), (113, 20999), (123, 21020), (132, 21038), (165, 21158), (168, 21164), (181, 21227), (189, 21254),

Gene: Matalotodo_25 Start: 18673, Stop: 19095, Start Num: 59
Candidate Starts for Matalotodo_25:
(33, 18607), (Start: 59 @18673 has 263 MA's), (103, 18796), (105, 18802), (106, 18808), (132, 18871), (143, 18913), (165, 18991), (177, 19039), (182, 19063), (187, 19081), (189, 19087),

Gene: Matzah_29 Start: 18786, Stop: 19190, Start Num: 41
Candidate Starts for Matzah_29:
(27, 18723), (Start: 41 @18786 has 57 MA's), (48, 18795), (54, 18807), (62, 18825), (75, 18843), (102, 18936), (106, 18954), (107, 18960), (133, 18996), (142, 19020), (157, 19068), (158, 19071), (167, 19098), (168, 19101), (174, 19125), (177, 19143), (178, 19155), (186, 19182),

Gene: Mcshane_24 Start: 18376, Stop: 18798, Start Num: 59
Candidate Starts for Mcshane_24:
(33, 18310), (Start: 59 @18376 has 263 MA's), (103, 18499), (105, 18505), (106, 18511), (132, 18574), (143, 18616), (165, 18694), (177, 18742), (182, 18766), (187, 18784), (189, 18790),

Gene: Mecca_24 Start: 18373, Stop: 18795, Start Num: 59
Candidate Starts for Mecca_24:
(33, 18307), (Start: 59 @18373 has 263 MA's), (103, 18496), (105, 18502), (106, 18508), (132, 18571), (143, 18613), (165, 18691), (177, 18739), (182, 18763), (187, 18781), (189, 18787),

Gene: Megabear_19 Start: 18137, Stop: 18547, Start Num: 67
Candidate Starts for Megabear_19:
(Start: 67 @18137 has 8 MA's), (94, 18212), (105, 18257), (106, 18263), (120, 18305), (132, 18329), (138, 18350), (164, 18452), (177, 18497),

Gene: Megamind20_25 Start: 18394, Stop: 18816, Start Num: 59
Candidate Starts for Megamind20_25:
(33, 18328), (Start: 59 @18394 has 263 MA's), (103, 18517), (105, 18523), (106, 18529), (132, 18592), (143, 18634), (165, 18712), (177, 18760), (182, 18784), (187, 18802), (189, 18808),

Gene: Megan_27 Start: 20591, Stop: 20995, Start Num: 46
Candidate Starts for Megan_27:
(13, 20315), (Start: 46 @20591 has 12 MA's), (60, 20624), (98, 20723), (102, 20738), (106, 20756), (133, 20798), (142, 20822), (158, 20873), (159, 20876), (168, 20906), (173, 20921), (174, 20930), (177, 20948), (178, 20960), (181, 20969), (183, 20975), (186, 20987),

Gene: Megatron_25 Start: 18677, Stop: 19099, Start Num: 59
Candidate Starts for Megatron_25:
(33, 18611), (Start: 59 @18677 has 263 MA's), (103, 18800), (105, 18806), (106, 18812), (132, 18875), (143, 18917), (158, 18968), (165, 18995), (177, 19043), (182, 19067), (187, 19085), (189, 19091),

Gene: Melc17_25 Start: 18668, Stop: 19090, Start Num: 58
Candidate Starts for Melc17_25:

(Start: 58 @18668 has 72 MA's), (103, 18791), (105, 18797), (106, 18803), (132, 18866), (143, 18908), (165, 18986), (177, 19034), (182, 19058), (187, 19076), (189, 19082),

Gene: MelsMeow_24 Start: 18254, Stop: 18676, Start Num: 58
Candidate Starts for MelsMeow_24:
(Start: 58 @18254 has 72 MA's), (91, 18326), (103, 18377), (105, 18383), (106, 18389), (132, 18452), (143, 18494), (165, 18572), (177, 18620), (182, 18644), (187, 18662), (189, 18668),

Gene: MementoMori_29 Start: 18515, Stop: 18919, Start Num: 41
Candidate Starts for MementoMori_29:
(Start: 41 @18515 has 57 MA's), (48, 18524), (54, 18536), (62, 18554), (75, 18572), (98, 18650), (102, 18665), (106, 18683), (107, 18689), (133, 18725), (142, 18749), (157, 18797), (158, 18800), (168, 18830), (174, 18854), (177, 18872), (178, 18884), (186, 18911),

Gene: Merry_ Start: 21444, Stop: 21854, Start Num: 41
Candidate Starts for Merry_:
(Start: 36 @21438 has 2 MA's), (Start: 41 @21444 has 57 MA's), (98, 21585), (102, 21600), (105, 21612), (106, 21618), (133, 21660), (168, 21768), (177, 21810), (181, 21831),

Gene: Mesh1_25 Start: 18685, Stop: 19107, Start Num: 59
Candidate Starts for Mesh1_25:
(33, 18619), (Start: 59 @18685 has 263 MA's), (103, 18808), (105, 18814), (106, 18820), (132, 18883), (143, 18925), (165, 19003), (177, 19051), (182, 19075), (187, 19093), (189, 19099),

Gene: Mesmerelda_24 Start: 18379, Stop: 18801, Start Num: 59
Candidate Starts for Mesmerelda_24:
(33, 18313), (Start: 59 @18379 has 263 MA's), (103, 18502), (105, 18508), (106, 18514), (132, 18577), (143, 18619), (165, 18697), (177, 18745), (182, 18769), (187, 18787), (189, 18793),

Gene: Metamorphoo_33 Start: 19183, Stop: 19590, Start Num: 41
Candidate Starts for Metamorphoo_33:
(Start: 41 @19183 has 57 MA's), (102, 19336), (105, 19348), (106, 19354), (133, 19396), (157, 19468), (158, 19471), (168, 19504), (173, 19519), (177, 19546), (186, 19585),

Gene: MichaelPhcott_24 Start: 18254, Stop: 18676, Start Num: 58
Candidate Starts for MichaelPhcott_24:
(Start: 58 @18254 has 72 MA's), (91, 18326), (103, 18377), (105, 18383), (106, 18389), (132, 18452), (143, 18494), (165, 18572), (177, 18620), (182, 18644), (187, 18662), (189, 18668),

Gene: Mikota_25 Start: 18661, Stop: 19083, Start Num: 59
Candidate Starts for Mikota_25:
(33, 18595), (Start: 59 @18661 has 263 MA's), (103, 18784), (105, 18790), (106, 18796), (132, 18859), (143, 18901), (165, 18979), (177, 19027), (182, 19051), (187, 19069), (189, 19075),

Gene: Mimi_87 Start: 52768, Stop: 53151, Start Num: 71
Candidate Starts for Mimi_87:
(Start: 71 @52768 has 8 MA's), (Start: 81 @52807 has 1 MA's), (82, 52810), (110, 52909), (119, 52933), (139, 52984), (141, 52993), (158, 53047), (165, 53074), (170, 53086),

Gene: MiniBoss_25 Start: 18664, Stop: 19086, Start Num: 59
Candidate Starts for MiniBoss_25:
(33, 18598), (Start: 59 @18664 has 263 MA's), (103, 18787), (105, 18793), (106, 18799), (132, 18862), (143, 18904), (165, 18982), (177, 19030), (182, 19054), (187, 19072), (189, 19078),

Gene: Minnow_22 Start: 17844, Stop: 18257, Start Num: 58
Candidate Starts for Minnow_22:
(Start: 58 @17844 has 72 MA's), (106, 17976), (118, 18012), (132, 18039), (143, 18081), (164, 18156), (165, 18159),

Gene: Mischief19_27 Start: 29157, Stop: 29531, Start Num: 79
Candidate Starts for Mischief19_27:
(Start: 79 @29157 has 4 MA's), (109, 29256), (137, 29316), (143, 29346), (148, 29370),

Gene: MisoSoup_24 Start: 15370, Stop: 15780, Start Num: 41
Candidate Starts for MisoSoup_24:
(Start: 41 @15370 has 57 MA's), (86, 15463), (92, 15478), (102, 15520), (106, 15538), (133, 15583), (154, 15643), (166, 15688), (177, 15733), (178, 15745),

Gene: MitKao_25 Start: 18382, Stop: 18804, Start Num: 59
Candidate Starts for MitKao_25:
(33, 18316), (Start: 59 @18382 has 263 MA's), (103, 18505), (105, 18511), (106, 18517), (132, 18580), (143, 18622), (165, 18700), (177, 18748), (182, 18772), (187, 18790), (189, 18796),

Gene: Mithril_23 Start: 19337, Stop: 19750, Start Num: 66
Candidate Starts for Mithril_23:
(Start: 66 @19337 has 30 MA's), (103, 19451), (105, 19457), (106, 19463), (118, 19499), (137, 19538), (139, 19550), (143, 19568), (165, 19646), (181, 19715), (182, 19718), (189, 19742),

Gene: MmasiCarm_26 Start: 19358, Stop: 19771, Start Num: 69
Candidate Starts for MmasiCarm_26:
(Start: 69 @19358 has 51 MA's), (105, 19478), (106, 19484), (123, 19532), (149, 19616), (181, 19742),

Gene: Morgushi_25 Start: 18387, Stop: 18809, Start Num: 59
Candidate Starts for Morgushi_25:
(33, 18321), (Start: 59 @18387 has 263 MA's), (103, 18510), (105, 18516), (106, 18522), (132, 18585), (143, 18627), (165, 18705), (177, 18753), (182, 18777), (187, 18795), (189, 18801),

Gene: Mortcellus_25 Start: 20001, Stop: 20414, Start Num: 69
Candidate Starts for Mortcellus_25:
(Start: 69 @20001 has 51 MA's), (105, 20121), (106, 20127), (123, 20175), (149, 20259), (181, 20385),

Gene: Morty_25 Start: 18686, Stop: 19108, Start Num: 59
Candidate Starts for Morty_25:
(33, 18620), (Start: 59 @18686 has 263 MA's), (103, 18809), (105, 18815), (106, 18821), (132, 18884), (143, 18926), (158, 18977), (165, 19004), (177, 19052), (182, 19076), (187, 19094), (189, 19100),

Gene: Morty007_26 Start: 20148, Stop: 20561, Start Num: 69
Candidate Starts for Morty007_26:
(Start: 69 @20148 has 51 MA's), (105, 20268), (106, 20274), (123, 20322), (149, 20406), (181, 20532),

Gene: Mosaic_24 Start: 18388, Stop: 18810, Start Num: 59
Candidate Starts for Mosaic_24:
(33, 18322), (Start: 59 @18388 has 263 MA's), (103, 18511), (105, 18517), (106, 18523), (132, 18586), (143, 18628), (165, 18706), (177, 18754), (182, 18778), (187, 18796), (189, 18802),

Gene: MossRose_24 Start: 18601, Stop: 19011, Start Num: 61

Candidate Starts for MossRose_24:
(Start: 61 @18601 has 24 MA's), (114, 18763), (120, 18775), (143, 18841), (149, 18865), (161, 18904), (165, 18919), (182, 18991),

Gene: MrPhizzler_25 Start: 18387, Stop: 18809, Start Num: 58
Candidate Starts for MrPhizzler_25:
(Start: 58 @18387 has 72 MA's), (103, 18510), (105, 18516), (106, 18522), (132, 18585), (143, 18627), (165, 18705), (177, 18753), (182, 18777), (187, 18795), (189, 18801),

Gene: Mudslide_23 Start: 19584, Stop: 19997, Start Num: 66
Candidate Starts for Mudslide_23:
(Start: 66 @19584 has 30 MA's), (103, 19698), (105, 19704), (106, 19710), (118, 19746), (137, 19785), (139, 19797), (143, 19815), (165, 19893), (171, 19908), (181, 19962), (182, 19965), (189, 19989),

Gene: Mulan_24 Start: 18382, Stop: 18804, Start Num: 59
Candidate Starts for Mulan_24:
(33, 18316), (Start: 59 @18382 has 263 MA's), (103, 18505), (105, 18511), (106, 18517), (132, 18580), (143, 18622), (165, 18700), (177, 18748), (182, 18772), (187, 18790), (189, 18796),

Gene: Mulaychimus_26 Start: 19340, Stop: 19753, Start Num: 69
Candidate Starts for Mulaychimus_26:
(Start: 69 @19340 has 51 MA's), (105, 19460), (106, 19466), (123, 19514), (149, 19598), (181, 19724),

Gene: Murdoc_25 Start: 18675, Stop: 19097, Start Num: 59
Candidate Starts for Murdoc_25:
(33, 18609), (Start: 59 @18675 has 263 MA's), (103, 18798), (105, 18804), (106, 18810), (132, 18873), (143, 18915), (165, 18993), (177, 19041), (182, 19065), (187, 19083), (189, 19089),

Gene: Mutante_24 Start: 18385, Stop: 18807, Start Num: 59
Candidate Starts for Mutante_24:
(33, 18319), (Start: 59 @18385 has 263 MA's), (103, 18508), (105, 18514), (106, 18520), (132, 18583), (143, 18625), (165, 18703), (177, 18751), (182, 18775), (187, 18793), (189, 18799),

Gene: Mysterious_25 Start: 19640, Stop: 20056, Start Num: 63
Candidate Starts for Mysterious_25:
(Start: 63 @19640 has 20 MA's), (89, 19700), (105, 19763), (106, 19769), (143, 19874), (152, 19904), (165, 19952),

Gene: Nacho_0025 Start: 18674, Stop: 19096, Start Num: 59
Candidate Starts for Nacho_0025:
(33, 18608), (Start: 59 @18674 has 263 MA's), (103, 18797), (105, 18803), (106, 18809), (132, 18872), (143, 18914), (165, 18992), (177, 19040), (182, 19064), (187, 19082), (189, 19088),

Gene: Nanao_22 Start: 18303, Stop: 18716, Start Num: 66
Candidate Starts for Nanao_22:
(Start: 66 @18303 has 30 MA's), (103, 18417), (105, 18423), (106, 18429), (118, 18465), (132, 18492), (137, 18504), (139, 18516), (143, 18534), (165, 18612), (181, 18681), (189, 18708),

Gene: Nangang_25 Start: 19342, Stop: 19758, Start Num: 63
Candidate Starts for Nangang_25:
(Start: 63 @19342 has 20 MA's), (132, 19534), (143, 19576), (158, 19627), (190, 19753),

Gene: Nathan_25 Start: 18704, Stop: 19126, Start Num: 58

Candidate Starts for Nathan_25:
(Start: 58 @18704 has 72 MA's), (91, 18776), (103, 18827), (105, 18833), (106, 18839), (132, 18902), (143, 18944), (165, 19022), (177, 19070), (182, 19094), (187, 19112), (189, 19118),

Gene: Nehemiah_24 Start: 19640, Stop: 20056, Start Num: 63
Candidate Starts for Nehemiah_24:
(Start: 63 @19640 has 20 MA's), (89, 19700), (105, 19763), (106, 19769), (143, 19874), (152, 19904), (165, 19952),

Gene: Nehme_24 Start: 18400, Stop: 18822, Start Num: 58
Candidate Starts for Nehme_24:
(Start: 58 @18400 has 72 MA's), (91, 18472), (103, 18523), (105, 18529), (106, 18535), (132, 18598), (143, 18640), (165, 18718), (177, 18766), (182, 18790), (187, 18808), (189, 18814),

Gene: Neos5_26 Start: 20155, Stop: 20568, Start Num: 69
Candidate Starts for Neos5_26:
(Start: 69 @20155 has 51 MA's), (94, 20230), (105, 20275), (106, 20281), (149, 20413), (181, 20539),

Gene: Newman_25 Start: 18674, Stop: 19096, Start Num: 59
Candidate Starts for Newman_25:
(33, 18608), (Start: 59 @18674 has 263 MA's), (103, 18797), (105, 18803), (106, 18809), (132, 18872), (143, 18914), (165, 18992), (177, 19040), (182, 19064), (187, 19082), (189, 19088),

Gene: NiaNia_26 Start: 18401, Stop: 18823, Start Num: 59
Candidate Starts for NiaNia_26:
(33, 18335), (Start: 59 @18401 has 263 MA's), (103, 18524), (105, 18530), (106, 18536), (132, 18599), (143, 18641), (165, 18719), (177, 18767), (182, 18791), (187, 18809), (189, 18815),

Gene: Nicole21_25 Start: 18666, Stop: 19088, Start Num: 59
Candidate Starts for Nicole21_25:
(33, 18600), (Start: 59 @18666 has 263 MA's), (103, 18789), (105, 18795), (106, 18801), (132, 18864), (143, 18906), (165, 18984), (177, 19032), (182, 19056), (187, 19074), (189, 19080),

Gene: Nicole72_28 Start: 20957, Stop: 21364, Start Num: 42
Candidate Starts for Nicole72_28:
(Start: 42 @20957 has 1 MA's), (91, 21062), (92, 21065), (98, 21092), (102, 21107), (105, 21119), (106, 21125), (123, 21152), (133, 21167), (158, 21242), (159, 21245), (168, 21275), (177, 21317), (181, 21338), (186, 21356),

Gene: Nigel_21 Start: 18187, Stop: 18600, Start Num: 66
Candidate Starts for Nigel_21:
(Start: 66 @18187 has 30 MA's), (106, 18313), (132, 18376), (137, 18388), (143, 18418), (189, 18592),

Gene: NoodlelyBoi_33 Start: 19715, Stop: 20119, Start Num: 41
Candidate Starts for NoodlelyBoi_33:
(Start: 41 @19715 has 57 MA's), (48, 19724), (60, 19751), (62, 19754), (98, 19850), (102, 19865), (105, 19877), (106, 19883), (133, 19925), (157, 19997), (158, 20000), (168, 20033), (177, 20075), (186, 20114),

Gene: Nova1_24 Start: 18267, Stop: 18689, Start Num: 58
Candidate Starts for Nova1_24:
(Start: 58 @18267 has 72 MA's), (91, 18339), (103, 18390), (105, 18396), (106, 18402), (132, 18465), (143, 18507), (165, 18585), (177, 18633), (182, 18657), (187, 18675), (189, 18681),

Gene: Nozo_26 Start: 20125, Stop: 20538, Start Num: 69
Candidate Starts for Nozo_26:
(Start: 69 @20125 has 51 MA's), (94, 20200), (105, 20245), (106, 20251), (149, 20383), (181, 20509),

Gene: Numberten_25 Start: 18679, Stop: 19101, Start Num: 59
Candidate Starts for Numberten_25:
(33, 18613), (Start: 59 @18679 has 263 MA's), (103, 18802), (105, 18808), (106, 18814), (132, 18877), (143, 18919), (165, 18997), (177, 19045), (182, 19069), (187, 19087), (189, 19093),

Gene: Nyala_24 Start: 18377, Stop: 18799, Start Num: 59
Candidate Starts for Nyala_24:
(33, 18311), (Start: 59 @18377 has 263 MA's), (103, 18500), (105, 18506), (106, 18512), (132, 18575), (143, 18617), (165, 18695), (177, 18743), (182, 18767), (187, 18785), (189, 18791),

Gene: OSmaximus_25 Start: 18703, Stop: 19125, Start Num: 58
Candidate Starts for OSmaximus_25:
(Start: 58 @18703 has 72 MA's), (91, 18775), (103, 18826), (105, 18832), (106, 18838), (132, 18901), (143, 18943), (165, 19021), (177, 19069), (182, 19093), (187, 19111), (189, 19117),

Gene: Obutu_26 Start: 19358, Stop: 19771, Start Num: 69
Candidate Starts for Obutu_26:
(Start: 69 @19358 has 51 MA's), (94, 19433), (105, 19478), (106, 19484), (149, 19616), (181, 19742),

Gene: Olak_24 Start: 18378, Stop: 18800, Start Num: 59
Candidate Starts for Olak_24:
(33, 18312), (Start: 59 @18378 has 263 MA's), (103, 18501), (105, 18507), (106, 18513), (132, 18576), (143, 18618), (165, 18696), (177, 18744), (182, 18768), (187, 18786), (189, 18792),

Gene: Oline_24 Start: 18240, Stop: 18662, Start Num: 58
Candidate Starts for Oline_24:
(Start: 58 @18240 has 72 MA's), (103, 18363), (105, 18369), (106, 18375), (132, 18438), (143, 18480), (165, 18558), (177, 18606), (182, 18630), (187, 18648), (189, 18654),

Gene: Olive_25 Start: 18667, Stop: 19089, Start Num: 59
Candidate Starts for Olive_25:
(33, 18601), (Start: 59 @18667 has 263 MA's), (103, 18790), (105, 18796), (106, 18802), (132, 18865), (143, 18907), (165, 18985), (177, 19033), (182, 19057), (187, 19075), (189, 19081),

Gene: OliverWalter_25 Start: 18683, Stop: 19105, Start Num: 59
Candidate Starts for OliverWalter_25:
(33, 18617), (Start: 59 @18683 has 263 MA's), (103, 18806), (105, 18812), (106, 18818), (132, 18881), (143, 18923), (165, 19001), (177, 19049), (182, 19073), (187, 19091), (189, 19097),

Gene: Olivio_25 Start: 19212, Stop: 19625, Start Num: 69
Candidate Starts for Olivio_25:
(Start: 69 @19212 has 51 MA's), (94, 19287), (105, 19332), (106, 19338), (149, 19470), (181, 19596),

Gene: Omniscient_25 Start: 18686, Stop: 19108, Start Num: 59
Candidate Starts for Omniscient_25:
(33, 18620), (Start: 59 @18686 has 263 MA's), (103, 18809), (105, 18815), (106, 18821), (132, 18884), (143, 18926), (165, 19004), (177, 19052), (182, 19076), (187, 19094), (189, 19100),

Gene: OneBrain_25 Start: 18379, Stop: 18801, Start Num: 59
Candidate Starts for OneBrain_25:
(33, 18313), (Start: 59 @18379 has 263 MA's), (103, 18502), (105, 18508), (106, 18514), (132, 18577), (143, 18619), (165, 18697), (177, 18745), (182, 18769), (187, 18787), (189, 18793),

Gene: Onika_32 Start: 19362, Stop: 19766, Start Num: 41
Candidate Starts for Onika_32:
(Start: 41 @19362 has 57 MA's), (48, 19371), (60, 19398), (62, 19401), (98, 19497), (102, 19512), (105, 19524), (106, 19530), (133, 19572), (158, 19647), (168, 19680), (177, 19722), (186, 19761),

Gene: OnionKnight_11 Start: 8126, Stop: 8596, Start Num: 40
Candidate Starts for OnionKnight_11:
(38, 8123), (Start: 40 @8126 has 2 MA's), (83, 8231), (88, 8243), (96, 8276), (115, 8336), (135, 8375), (143, 8408), (155, 8444), (169, 8495), (175, 8528), (179, 8546),

Gene: Oosterbaan_25 Start: 18678, Stop: 19100, Start Num: 59
Candidate Starts for Oosterbaan_25:
(33, 18612), (Start: 59 @18678 has 263 MA's), (103, 18801), (105, 18807), (106, 18813), (132, 18876), (143, 18918), (158, 18969), (165, 18996), (177, 19044), (182, 19068), (187, 19086), (189, 19092),

Gene: Opia_27 Start: 20834, Stop: 21262, Start Num: 59
Candidate Starts for Opia_27:
(47, 20807), (Start: 59 @20834 has 263 MA's), (70, 20849), (105, 20966), (106, 20972), (113, 20999), (123, 21020), (132, 21038), (165, 21158), (168, 21164), (181, 21227), (189, 21254),

Gene: OrangeOswald_26 Start: 19363, Stop: 19776, Start Num: 69
Candidate Starts for OrangeOswald_26:
(Start: 69 @19363 has 51 MA's), (94, 19438), (105, 19483), (106, 19489), (149, 19621), (181, 19747),

Gene: Orfeu_24 Start: 18379, Stop: 18801, Start Num: 59
Candidate Starts for Orfeu_24:
(33, 18313), (Start: 59 @18379 has 263 MA's), (103, 18502), (105, 18508), (106, 18514), (132, 18577), (143, 18619), (165, 18697), (177, 18745), (182, 18769), (187, 18787), (189, 18793),

Gene: Orion_25 Start: 18675, Stop: 19097, Start Num: 59
Candidate Starts for Orion_25:
(33, 18609), (Start: 59 @18675 has 263 MA's), (103, 18798), (105, 18804), (106, 18810), (132, 18873), (143, 18915), (158, 18966), (165, 18993), (177, 19041), (182, 19065), (187, 19083), (189, 19089),

Gene: Orwigg_24 Start: 18372, Stop: 18794, Start Num: 59
Candidate Starts for Orwigg_24:
(33, 18306), (Start: 59 @18372 has 263 MA's), (103, 18495), (105, 18501), (106, 18507), (132, 18570), (143, 18612), (165, 18690), (177, 18738), (182, 18762), (187, 18780), (189, 18786),

Gene: PG1_25 Start: 18688, Stop: 19110, Start Num: 59
Candidate Starts for PG1_25:
(33, 18622), (Start: 59 @18688 has 263 MA's), (103, 18811), (105, 18817), (106, 18823), (132, 18886), (143, 18928), (158, 18979), (165, 19006), (177, 19054), (182, 19078), (187, 19096), (189, 19102),

Gene: PR_19 Start: 18164, Stop: 18574, Start Num: 67
Candidate Starts for PR_19:
(Start: 67 @18164 has 8 MA's), (94, 18239), (105, 18284), (106, 18290), (120, 18332), (132, 18356), (138, 18377), (164, 18479), (177, 18524),

Gene: Pacifista_24 Start: 18379, Stop: 18801, Start Num: 59
Candidate Starts for Pacifista_24:
(33, 18313), (Start: 59 @18379 has 263 MA's), (103, 18502), (105, 18508), (106, 18514), (132, 18577), (143, 18619), (165, 18697), (177, 18745), (182, 18769), (187, 18787), (189, 18793),

Gene: PallasAthena_24 Start: 18386, Stop: 18808, Start Num: 59
Candidate Starts for PallasAthena_24:
(33, 18320), (Start: 59 @18386 has 263 MA's), (103, 18509), (105, 18515), (106, 18521), (132, 18584), (143, 18626), (165, 18704), (177, 18752), (182, 18776), (187, 18794), (189, 18800),

Gene: Panchaali_80 Start: 49870, Stop: 50250, Start Num: 72
Candidate Starts for Panchaali_80:
(Start: 72 @49870 has 13 MA's), (74, 49879), (Start: 81 @49906 has 1 MA's), (82, 49909), (134, 50062), (141, 50092), (171, 50188),

Gene: Paschalis_32 Start: 19375, Stop: 19779, Start Num: 41
Candidate Starts for Paschalis_32:
(Start: 41 @19375 has 57 MA's), (48, 19384), (60, 19411), (62, 19414), (98, 19510), (102, 19525), (105, 19537), (106, 19543), (133, 19585), (158, 19660), (168, 19693), (177, 19735), (186, 19774),

Gene: Patbob_86 Start: 53640, Stop: 54023, Start Num: 71
Candidate Starts for Patbob_86:
(Start: 71 @53640 has 8 MA's), (Start: 81 @53679 has 1 MA's), (110, 53781), (119, 53805), (129, 53826), (139, 53856), (141, 53865), (158, 53919), (165, 53946), (170, 53958),

Gene: PauloDiaboli_94 Start: 50046, Stop: 50456, Start Num: 55
Candidate Starts for PauloDiaboli_94:
(Start: 55 @50046 has 5 MA's), (91, 50133), (92, 50136), (99, 50166), (165, 50376), (172, 50394),

Gene: PenguinLover67_27 Start: 20904, Stop: 21338, Start Num: 61
Candidate Starts for PenguinLover67_27:
(Start: 61 @20904 has 24 MA's), (90, 20970), (95, 20994), (105, 21030), (106, 21036), (118, 21072), (132, 21099), (181, 21288),

Gene: Phamished_25 Start: 18683, Stop: 19105, Start Num: 59
Candidate Starts for Phamished_25:
(33, 18617), (Start: 59 @18683 has 263 MA's), (103, 18806), (105, 18812), (106, 18818), (132, 18881), (143, 18923), (165, 19001), (177, 19049), (182, 19073), (187, 19091), (189, 19097),

Gene: Phantasmagoria_27 Start: 20830, Stop: 21258, Start Num: 59
Candidate Starts for Phantasmagoria_27:
(47, 20803), (Start: 59 @20830 has 263 MA's), (70, 20845), (105, 20962), (106, 20968), (113, 20995), (123, 21016), (132, 21034), (165, 21154), (168, 21160), (181, 21223), (189, 21250),

Gene: Phareon_25 Start: 18383, Stop: 18805, Start Num: 59
Candidate Starts for Phareon_25:
(33, 18317), (Start: 59 @18383 has 263 MA's), (103, 18506), (105, 18512), (106, 18518), (132, 18581), (143, 18623), (165, 18701), (177, 18749), (182, 18773), (187, 18791), (189, 18797),

Gene: PhatCats2014_25 Start: 18693, Stop: 19115, Start Num: 59
Candidate Starts for PhatCats2014_25:

(33, 18627), (Start: 59 @18693 has 263 MA's), (103, 18816), (105, 18822), (106, 18828), (132, 18891), (143, 18933), (165, 19011), (177, 19059), (182, 19083), (187, 19101), (189, 19107),

Gene: PhatLouie_25 Start: 18675, Stop: 19097, Start Num: 58
Candidate Starts for PhatLouie_25:
(Start: 58 @18675 has 72 MA's), (103, 18798), (105, 18804), (106, 18810), (132, 18873), (143, 18915), (165, 18993), (177, 19041), (182, 19065), (187, 19083), (189, 19089),

Gene: Phayeta_26 Start: 19239, Stop: 19652, Start Num: 69
Candidate Starts for Phayeta_26:
(Start: 69 @19239 has 51 MA's), (94, 19314), (105, 19359), (106, 19365), (149, 19497), (181, 19623),

Gene: PhedwardCullen_32 Start: 19120, Stop: 19524, Start Num: 41
Candidate Starts for PhedwardCullen_32:
(Start: 41 @19120 has 57 MA's), (48, 19129), (60, 19156), (62, 19159), (98, 19255), (102, 19270), (105, 19282), (106, 19288), (133, 19330), (158, 19405), (168, 19438), (177, 19480), (186, 19519),

Gene: Phelemich_25 Start: 19636, Stop: 20052, Start Num: 63
Candidate Starts for Phelemich_25:
(Start: 63 @19636 has 20 MA's), (89, 19696), (105, 19759), (106, 19765), (143, 19870), (152, 19900), (165, 19948), (190, 20047),

Gene: Phendrix_82 Start: 43488, Stop: 43901, Start Num: 55
Candidate Starts for Phendrix_82:
(Start: 55 @43488 has 5 MA's), (73, 43521), (101, 43614), (106, 43638), (117, 43671), (127, 43698), (130, 43701), (152, 43773), (158, 43794), (170, 43833), (182, 43893),

Gene: PhenghisKhan_24 Start: 18254, Stop: 18676, Start Num: 58
Candidate Starts for PhenghisKhan_24:
(Start: 58 @18254 has 72 MA's), (91, 18326), (103, 18377), (105, 18383), (106, 18389), (132, 18452), (143, 18494), (165, 18572), (177, 18620), (182, 18644), (187, 18662), (189, 18668),

Gene: Pherdinand_25 Start: 18683, Stop: 19105, Start Num: 59
Candidate Starts for Pherdinand_25:
(33, 18617), (Start: 59 @18683 has 263 MA's), (103, 18806), (105, 18812), (106, 18818), (132, 18881), (143, 18923), (165, 19001), (177, 19049), (182, 19073), (187, 19091), (189, 19097),

Gene: Phergie_24 Start: 18248, Stop: 18670, Start Num: 58
Candidate Starts for Phergie_24:
(Start: 58 @18248 has 72 MA's), (91, 18320), (103, 18371), (105, 18377), (106, 18383), (132, 18446), (143, 18488), (165, 18566), (177, 18614), (182, 18638), (187, 18656), (189, 18662),

Gene: Philly_25 Start: 19229, Stop: 19642, Start Num: 69
Candidate Starts for Philly_25:
(Start: 69 @19229 has 51 MA's), (94, 19304), (105, 19349), (106, 19355), (149, 19487), (181, 19613),

Gene: Phipps_25 Start: 18653, Stop: 19075, Start Num: 59
Candidate Starts for Phipps_25:
(33, 18587), (Start: 59 @18653 has 263 MA's), (103, 18776), (105, 18782), (106, 18788), (132, 18851), (143, 18893), (165, 18971), (177, 19019), (182, 19043), (187, 19061), (189, 19067),

Gene: Phleuron_24 Start: 18254, Stop: 18676, Start Num: 58
Candidate Starts for Phleuron_24:

(Start: 58 @18254 has 72 MA's), (91, 18326), (103, 18377), (105, 18383), (106, 18389), (132, 18452), (143, 18494), (165, 18572), (177, 18620), (182, 18644), (187, 18662), (189, 18668),

Gene: Phlyer_26 Start: 20098, Stop: 20511, Start Num: 69
Candidate Starts for Phlyer_26:
(Start: 69 @20098 has 51 MA's), (105, 20218), (106, 20224), (123, 20272), (149, 20356), (181, 20482),

Gene: Phorgeous_32 Start: 19229, Stop: 19633, Start Num: 41
Candidate Starts for Phorgeous_32:
(Start: 41 @19229 has 57 MA's), (48, 19238), (60, 19265), (62, 19268), (98, 19364), (102, 19379), (105, 19391), (106, 19397), (133, 19439), (158, 19514), (168, 19547), (177, 19589), (186, 19628),

Gene: Phrampa_79 Start: 50368, Stop: 50751, Start Num: 71
Candidate Starts for Phrampa_79:
(Start: 71 @50368 has 8 MA's), (Start: 81 @50407 has 1 MA's), (105, 50488), (110, 50509), (119, 50533), (140, 50590), (141, 50593), (158, 50647), (165, 50674),

Gene: Phrancesco_33 Start: 19507, Stop: 19911, Start Num: 41
Candidate Starts for Phrancesco_33:
(Start: 41 @19507 has 57 MA's), (48, 19516), (60, 19543), (62, 19546), (98, 19642), (102, 19657), (105, 19669), (106, 19675), (133, 19717), (158, 19792), (168, 19825), (177, 19867), (186, 19906),

Gene: PhrankReynolds_24 Start: 18254, Stop: 18676, Start Num: 58
Candidate Starts for PhrankReynolds_24:
(Start: 58 @18254 has 72 MA's), (91, 18326), (103, 18377), (105, 18383), (106, 18389), (132, 18452), (143, 18494), (165, 18572), (177, 18620), (182, 18644), (187, 18662), (189, 18668),

Gene: PhrodoBaggins_24 Start: 18671, Stop: 19093, Start Num: 59
Candidate Starts for PhrodoBaggins_24:
(33, 18605), (Start: 59 @18671 has 263 MA's), (103, 18794), (105, 18800), (106, 18806), (132, 18869), (143, 18911), (165, 18989), (177, 19037), (182, 19061), (187, 19079), (189, 19085),

Gene: Phunky_25 Start: 18677, Stop: 19099, Start Num: 59
Candidate Starts for Phunky_25:
(33, 18611), (Start: 59 @18677 has 263 MA's), (103, 18800), (105, 18806), (106, 18812), (132, 18875), (143, 18917), (165, 18995), (177, 19043), (182, 19067), (187, 19085), (189, 19091),

Gene: PierreOrion_33 Start: 19530, Stop: 19934, Start Num: 41
Candidate Starts for PierreOrion_33:
(Start: 41 @19530 has 57 MA's), (48, 19539), (60, 19566), (62, 19569), (98, 19665), (102, 19680), (105, 19692), (106, 19698), (133, 19740), (158, 19815), (168, 19848), (177, 19890), (186, 19929),

Gene: Piglet_0024 Start: 18677, Stop: 19099, Start Num: 59
Candidate Starts for Piglet_0024:
(33, 18611), (Start: 59 @18677 has 263 MA's), (103, 18800), (105, 18806), (106, 18812), (132, 18875), (143, 18917), (165, 18995), (177, 19043), (182, 19067), (187, 19085), (189, 19091),

Gene: Pine5_25 Start: 19604, Stop: 20017, Start Num: 60
Candidate Starts for Pine5_25:
(60, 19604), (62, 19607), (103, 19727), (132, 19805), (185, 20009),

Gene: PinheadLarry_25 Start: 18394, Stop: 18816, Start Num: 59
Candidate Starts for PinheadLarry_25:

(33, 18328), (Start: 59 @18394 has 263 MA's), (103, 18517), (105, 18523), (106, 18529), (132, 18592), (143, 18634), (165, 18712), (177, 18760), (182, 18784), (187, 18802), (189, 18808),

Gene: Pinkman_24 Start: 18234, Stop: 18656, Start Num: 58
Candidate Starts for Pinkman_24:
(Start: 58 @18234 has 72 MA's), (103, 18357), (105, 18363), (106, 18369), (132, 18432), (143, 18474), (165, 18552), (177, 18600), (182, 18624), (187, 18642), (189, 18648),

Gene: Pipefish_26 Start: 20248, Stop: 20661, Start Num: 69
Candidate Starts for Pipefish_26:
(Start: 69 @20248 has 51 MA's), (105, 20368), (106, 20374), (123, 20422), (149, 20506), (181, 20632),

Gene: PiperSansNom_33 Start: 19682, Stop: 20086, Start Num: 41
Candidate Starts for PiperSansNom_33:
(Start: 41 @19682 has 57 MA's), (48, 19691), (60, 19718), (62, 19721), (98, 19817), (102, 19832), (105, 19844), (106, 19850), (133, 19892), (158, 19967), (168, 20000), (177, 20042), (186, 20081),

Gene: Piperis_33 Start: 19352, Stop: 19756, Start Num: 41
Candidate Starts for Piperis_33:
(Start: 41 @19352 has 57 MA's), (48, 19361), (60, 19388), (62, 19391), (98, 19487), (102, 19502), (105, 19514), (106, 19520), (133, 19562), (158, 19637), (168, 19670), (177, 19712), (186, 19751),

Gene: Pipsqueak_25 Start: 18683, Stop: 19105, Start Num: 59
Candidate Starts for Pipsqueak_25:
(33, 18617), (Start: 59 @18683 has 263 MA's), (103, 18806), (105, 18812), (106, 18818), (132, 18881), (143, 18923), (158, 18974), (165, 19001), (177, 19049), (182, 19073), (187, 19091), (189, 19097),

Gene: Placalicious_24 Start: 18376, Stop: 18798, Start Num: 59
Candidate Starts for Placalicious_24:
(33, 18310), (Start: 59 @18376 has 263 MA's), (103, 18499), (105, 18505), (106, 18511), (132, 18574), (143, 18616), (158, 18667), (165, 18694), (177, 18742), (182, 18766), (187, 18784), (189, 18790),

Gene: Plata_24 Start: 18390, Stop: 18812, Start Num: 58
Candidate Starts for Plata_24:
(Start: 58 @18390 has 72 MA's), (103, 18513), (105, 18519), (106, 18525), (132, 18588), (143, 18630), (165, 18708), (177, 18756), (182, 18780), (187, 18798), (189, 18804),

Gene: Plmatters_25 Start: 18680, Stop: 19102, Start Num: 59
Candidate Starts for Plmatters_25:
(33, 18614), (Start: 59 @18680 has 263 MA's), (103, 18803), (105, 18809), (106, 18815), (132, 18878), (143, 18920), (165, 18998), (177, 19046), (182, 19070), (187, 19088), (189, 19094),

Gene: Podrick_25 Start: 18672, Stop: 19094, Start Num: 59
Candidate Starts for Podrick_25:
(33, 18606), (Start: 59 @18672 has 263 MA's), (103, 18795), (105, 18801), (106, 18807), (132, 18870), (143, 18912), (165, 18990), (177, 19038), (182, 19062), (187, 19080), (189, 19086),

Gene: Pops_25 Start: 18680, Stop: 19102, Start Num: 59
Candidate Starts for Pops_25:
(33, 18614), (Start: 59 @18680 has 263 MA's), (103, 18803), (105, 18809), (106, 18815), (132, 18878), (143, 18920), (165, 18998), (177, 19046), (182, 19070), (187, 19088), (189, 19094),

Gene: Poster_22 Start: 18304, Stop: 18717, Start Num: 66

Candidate Starts for Poster_22:
(Start: 66 @18304 has 30 MA's), (103, 18418), (105, 18424), (106, 18430), (118, 18466), (132, 18493), (137, 18505), (139, 18517), (143, 18535), (165, 18613), (181, 18682), (189, 18709),

Gene: Potter_24 Start: 18390, Stop: 18812, Start Num: 59
Candidate Starts for Potter_24:
(33, 18324), (Start: 59 @18390 has 263 MA's), (103, 18513), (105, 18519), (106, 18525), (132, 18588), (143, 18630), (158, 18681), (165, 18708), (177, 18756), (182, 18780), (187, 18798), (189, 18804),

Gene: Prickles_25 Start: 18669, Stop: 19091, Start Num: 59
Candidate Starts for Prickles_25:
(33, 18603), (Start: 59 @18669 has 263 MA's), (103, 18792), (105, 18798), (106, 18804), (132, 18867), (143, 18909), (165, 18987), (177, 19035), (182, 19059), (187, 19077), (189, 19083),

Gene: Prince_23 Start: 19496, Stop: 19909, Start Num: 66
Candidate Starts for Prince_23:
(Start: 66 @19496 has 30 MA's), (103, 19610), (105, 19616), (106, 19622), (118, 19658), (137, 19697), (139, 19709), (143, 19727), (165, 19805), (171, 19820), (181, 19874), (182, 19877), (189, 19901),

Gene: PrinceCharming_27 Start: 20950, Stop: 21378, Start Num: 59
Candidate Starts for PrinceCharming_27:
(47, 20923), (Start: 59 @20950 has 263 MA's), (70, 20965), (105, 21082), (106, 21088), (113, 21115), (123, 21136), (132, 21154), (165, 21274), (168, 21280), (181, 21343), (189, 21370),

Gene: ProfessorX_25 Start: 18667, Stop: 19089, Start Num: 59
Candidate Starts for ProfessorX_25:
(33, 18601), (Start: 59 @18667 has 263 MA's), (103, 18790), (105, 18796), (106, 18802), (132, 18865), (143, 18907), (165, 18985), (177, 19033), (182, 19057), (187, 19075), (189, 19081),

Gene: Puhltonio_25 Start: 18683, Stop: 19105, Start Num: 59
Candidate Starts for Puhltonio_25:
(33, 18617), (Start: 59 @18683 has 263 MA's), (103, 18806), (105, 18812), (106, 18818), (132, 18881), (143, 18923), (165, 19001), (177, 19049), (182, 19073), (187, 19091), (189, 19097),

Gene: Pulchra_34 Start: 19752, Stop: 20156, Start Num: 41
Candidate Starts for Pulchra_34:
(Start: 41 @19752 has 57 MA's), (48, 19761), (60, 19788), (62, 19791), (98, 19887), (102, 19902), (105, 19914), (106, 19920), (133, 19962), (158, 20037), (168, 20070), (177, 20112), (186, 20151),

Gene: Pumpernickel_91 Start: 51418, Stop: 51831, Start Num: 51
Candidate Starts for Pumpernickel_91:
(Start: 51 @51418 has 1 MA's), (91, 51508), (99, 51541), (105, 51565), (110, 51586), (141, 51670), (164, 51748), (171, 51766), (172, 51769),

Gene: QueenBeane_25 Start: 18675, Stop: 19097, Start Num: 59
Candidate Starts for QueenBeane_25:
(33, 18609), (Start: 59 @18675 has 263 MA's), (103, 18798), (105, 18804), (106, 18810), (132, 18873), (143, 18915), (165, 18993), (177, 19041), (182, 19065), (187, 19083), (189, 19089),

Gene: QueenPie_22 Start: 19500, Stop: 19913, Start Num: 66
Candidate Starts for QueenPie_22:
(Start: 66 @19500 has 30 MA's), (105, 19620), (106, 19626), (118, 19662), (137, 19701), (139, 19713), (143, 19731), (165, 19809), (181, 19878), (189, 19905),

Gene: Quesadilla_26 Start: 20803, Stop: 21240, Start Num: 61
Candidate Starts for Quesadilla_26:
(Start: 61 @20803 has 24 MA's), (105, 20929), (106, 20935), (118, 20971), (132, 20998), (165, 21118), (174, 21148), (181, 21187),

Gene: Quhwah_36 Start: 19978, Stop: 20382, Start Num: 41
Candidate Starts for Quhwah_36:
(Start: 41 @19978 has 57 MA's), (48, 19987), (60, 20014), (62, 20017), (102, 20128), (105, 20140), (106, 20146), (133, 20188), (158, 20263), (168, 20296), (177, 20338), (186, 20377),

Gene: Quisquiliae_25 Start: 18690, Stop: 19112, Start Num: 59
Candidate Starts for Quisquiliae_25:
(33, 18624), (Start: 59 @18690 has 263 MA's), (103, 18813), (105, 18819), (106, 18825), (132, 18888), (143, 18930), (165, 19008), (177, 19056), (182, 19080), (187, 19098), (189, 19104),

Gene: Qyrzula_25 Start: 20920, Stop: 21348, Start Num: 59
Candidate Starts for Qyrzula_25:
(47, 20893), (Start: 59 @20920 has 263 MA's), (70, 20935), (105, 21052), (106, 21058), (113, 21085), (123, 21106), (132, 21124), (165, 21244), (168, 21250), (181, 21313), (189, 21340),

Gene: Racecar_88 Start: 53421, Stop: 53804, Start Num: 71
Candidate Starts for Racecar_88:
(Start: 71 @53421 has 8 MA's), (Start: 81 @53460 has 1 MA's), (82, 53463), (110, 53562), (119, 53586), (139, 53637), (141, 53646), (158, 53700), (165, 53727), (170, 53739),

Gene: RagingRooster_26 Start: 19364, Stop: 19777, Start Num: 69
Candidate Starts for RagingRooster_26:
(Start: 69 @19364 has 51 MA's), (94, 19439), (105, 19484), (106, 19490), (149, 19622), (181, 19748),

Gene: RainyPolka_20 Start: 19600, Stop: 19980, Start Num: 78
Candidate Starts for RainyPolka_20:
(16, 19327), (23, 19408), (Start: 78 @19600 has 8 MA's), (84, 19615), (97, 19657), (109, 19702), (128, 19744), (151, 19822), (165, 19873), (171, 19888), (175, 19915), (176, 19918),

Gene: Ramiel05_32 Start: 19387, Stop: 19791, Start Num: 41
Candidate Starts for Ramiel05_32:
(Start: 41 @19387 has 57 MA's), (48, 19396), (60, 19423), (62, 19426), (98, 19522), (102, 19537), (105, 19549), (106, 19555), (133, 19597), (158, 19672), (168, 19705), (177, 19747), (186, 19786),

Gene: Rasputia_68 Start: 39096, Stop: 39503, Start Num: 41
Candidate Starts for Rasputia_68:
(24, 39006), (32, 39072), (Start: 41 @39096 has 57 MA's), (49, 39111), (87, 39192), (94, 39213), (98, 39231), (102, 39246), (109, 39273), (133, 39309), (177, 39459), (181, 39480), (183, 39486), (186, 39498),

Gene: RawrgerThat_23 Start: 19333, Stop: 19746, Start Num: 66
Candidate Starts for RawrgerThat_23:
(Start: 66 @19333 has 30 MA's), (103, 19447), (105, 19453), (106, 19459), (118, 19495), (137, 19534), (139, 19546), (143, 19564), (165, 19642), (171, 19657), (181, 19711), (182, 19714), (189, 19738),

Gene: Reccee_25 Start: 19570, Stop: 19986, Start Num: 63
Candidate Starts for Reccee_25:

(Start: 63 @19570 has 20 MA's), (89, 19630), (106, 19699), (143, 19804), (152, 19834), (190, 19981),

Gene: RedMaple_24 Start: 18686, Stop: 19108, Start Num: 59
Candidate Starts for RedMaple_24:
(33, 18620), (Start: 59 @18686 has 263 MA's), (103, 18809), (105, 18815), (106, 18821), (132, 18884), (143, 18926), (165, 19004), (177, 19052), (182, 19076), (187, 19094), (189, 19100),

Gene: RedRaider89_26 Start: 18906, Stop: 19328, Start Num: 59
Candidate Starts for RedRaider89_26:
(33, 18840), (Start: 59 @18906 has 263 MA's), (103, 19029), (105, 19035), (106, 19041), (132, 19104), (143, 19146), (165, 19224), (177, 19272), (182, 19296), (187, 19314), (189, 19320),

Gene: ReginaGlobina_87 Start: 52911, Stop: 53291, Start Num: 72
Candidate Starts for ReginaGlobina_87:
(Start: 72 @52911 has 13 MA's), (74, 52920), (Start: 81 @52947 has 1 MA's), (126, 53088), (141, 53133), (152, 53166), (171, 53229),

Gene: Renkei_22 Start: 18311, Stop: 18724, Start Num: 66
Candidate Starts for Renkei_22:
(Start: 66 @18311 has 30 MA's), (103, 18425), (105, 18431), (106, 18437), (118, 18473), (137, 18512), (139, 18524), (143, 18542), (165, 18620), (181, 18689), (189, 18716),

Gene: Reprobate_25 Start: 19641, Stop: 20057, Start Num: 63
Candidate Starts for Reprobate_25:
(Start: 63 @19641 has 20 MA's), (89, 19701), (105, 19764), (106, 19770), (143, 19875), (152, 19905), (165, 19953), (190, 20052),

Gene: Rhinoforte_27 Start: 20951, Stop: 21379, Start Num: 59
Candidate Starts for Rhinoforte_27:
(47, 20924), (Start: 59 @20951 has 263 MA's), (70, 20966), (105, 21083), (106, 21089), (113, 21116), (123, 21137), (132, 21155), (165, 21275), (168, 21281), (181, 21344), (189, 21371),

Gene: Ribeye_30 Start: 23007, Stop: 23441, Start Num: 43
Candidate Starts for Ribeye_30:
(Start: 43 @23007 has 7 MA's), (74, 23061), (82, 23091), (104, 23166), (144, 23268), (150, 23289), (173, 23361), (182, 23412),

Gene: Rich_24 Start: 19142, Stop: 19558, Start Num: 63
Candidate Starts for Rich_24:
(Start: 63 @19142 has 20 MA's), (103, 19259), (106, 19271), (132, 19334), (181, 19523), (190, 19553),

Gene: Ricotta_24 Start: 18398, Stop: 18820, Start Num: 59
Candidate Starts for Ricotta_24:
(33, 18332), (Start: 59 @18398 has 263 MA's), (103, 18521), (105, 18527), (106, 18533), (132, 18596), (143, 18638), (165, 18716), (177, 18764), (182, 18788), (187, 18806), (189, 18812),

Gene: Riggan_25 Start: 18658, Stop: 19080, Start Num: 59
Candidate Starts for Riggan_25:
(33, 18592), (Start: 59 @18658 has 263 MA's), (103, 18781), (105, 18787), (106, 18793), (132, 18856), (143, 18898), (165, 18976), (177, 19024), (182, 19048), (187, 19066), (189, 19072),

Gene: Rimu_25 Start: 18407, Stop: 18829, Start Num: 58
Candidate Starts for Rimu_25:

(Start: 58 @18407 has 72 MA's), (91, 18479), (103, 18530), (105, 18536), (106, 18542), (132, 18605), (143, 18647), (165, 18725), (177, 18773), (182, 18797), (187, 18815), (189, 18821),

Gene: Rinkes_28 Start: 21670, Stop: 22086, Start Num: 63
Candidate Starts for Rinkes_28:
(Start: 63 @21670 has 20 MA's), (105, 21793), (106, 21799), (118, 21835), (143, 21904), (165, 21982), (171, 21997), (181, 22051), (182, 22054), (189, 22078),

Gene: Rita130_25 Start: 19390, Stop: 19806, Start Num: 63
Candidate Starts for Rita130_25:
(Start: 63 @19390 has 20 MA's), (89, 19450), (106, 19519), (143, 19624), (152, 19654), (190, 19801),

Gene: Rita1961_26 Start: 19359, Stop: 19772, Start Num: 69
Candidate Starts for Rita1961_26:
(Start: 69 @19359 has 51 MA's), (94, 19434), (105, 19479), (106, 19485), (149, 19617), (181, 19743),

Gene: RiverRaider_30 Start: 21439, Stop: 21873, Start Num: 43
Candidate Starts for RiverRaider_30:
(Start: 43 @21439 has 7 MA's), (82, 21523), (144, 21700), (150, 21721), (168, 21778), (173, 21793), (182, 21844),

Gene: Riverton_25 Start: 18682, Stop: 19104, Start Num: 59
Candidate Starts for Riverton_25:
(33, 18616), (Start: 59 @18682 has 263 MA's), (103, 18805), (105, 18811), (106, 18817), (132, 18880), (143, 18922), (165, 19000), (177, 19048), (182, 19072), (187, 19090), (189, 19096),

Gene: RobsFeet_34 Start: 19464, Stop: 19871, Start Num: 41
Candidate Starts for RobsFeet_34:
(Start: 41 @19464 has 57 MA's), (102, 19617), (105, 19629), (106, 19635), (133, 19677), (157, 19749), (158, 19752), (168, 19785), (173, 19800), (177, 19827), (186, 19866),

Gene: Robyn_24 Start: 18249, Stop: 18671, Start Num: 59
Candidate Starts for Robyn_24:
(33, 18183), (Start: 59 @18249 has 263 MA's), (103, 18372), (105, 18378), (106, 18384), (132, 18447), (143, 18489), (165, 18567), (177, 18615), (182, 18639), (187, 18657), (189, 18663),

Gene: Rockabye_86 Start: 55651, Stop: 56040, Start Num: 72
Candidate Starts for Rockabye_86:
(Start: 72 @55651 has 13 MA's), (91, 55711), (98, 55741), (106, 55774), (141, 55873), (158, 55927), (165, 55954), (170, 55966), (178, 56014),

Gene: Rockwell_32 Start: 19387, Stop: 19791, Start Num: 41
Candidate Starts for Rockwell_32:
(Start: 41 @19387 has 57 MA's), (48, 19396), (60, 19423), (62, 19426), (98, 19522), (102, 19537), (105, 19549), (106, 19555), (133, 19597), (158, 19672), (168, 19705), (177, 19747), (186, 19786),

Gene: Roliet_25 Start: 18674, Stop: 19096, Start Num: 59
Candidate Starts for Roliet_25:
(33, 18608), (Start: 59 @18674 has 263 MA's), (103, 18797), (105, 18803), (106, 18809), (132, 18872), (143, 18914), (165, 18992), (177, 19040), (182, 19064), (187, 19082), (189, 19088),

Gene: RomaT_26 Start: 20149, Stop: 20562, Start Num: 69
Candidate Starts for RomaT_26:

(Start: 69 @20149 has 51 MA's), (105, 20269), (106, 20275), (149, 20407), (181, 20533),

Gene: Roscoe_26 Start: 18916, Stop: 19338, Start Num: 59
Candidate Starts for Roscoe_26:
(33, 18850), (Start: 59 @18916 has 263 MA's), (103, 19039), (105, 19045), (106, 19051), (132, 19114), (143, 19156), (165, 19234), (177, 19282), (182, 19306), (187, 19324), (189, 19330),

Gene: Rosebush_27 Start: 20951, Stop: 21379, Start Num: 59
Candidate Starts for Rosebush_27:
(47, 20924), (Start: 59 @20951 has 263 MA's), (70, 20966), (105, 21083), (106, 21089), (113, 21116), (123, 21137), (132, 21155), (165, 21275), (168, 21281), (181, 21344), (189, 21371),

Gene: Roy17_25 Start: 18378, Stop: 18800, Start Num: 59
Candidate Starts for Roy17_25:
(33, 18312), (Start: 59 @18378 has 263 MA's), (103, 18501), (105, 18507), (106, 18513), (132, 18576), (143, 18618), (165, 18696), (177, 18744), (182, 18768), (187, 18786), (189, 18792),

Gene: SDcharge11_25 Start: 18656, Stop: 19078, Start Num: 59
Candidate Starts for SDcharge11_25:
(33, 18590), (Start: 59 @18656 has 263 MA's), (103, 18779), (105, 18785), (106, 18791), (132, 18854), (143, 18896), (165, 18974), (177, 19022), (182, 19046), (187, 19064), (189, 19070),

Gene: SJReid_90 Start: 54733, Stop: 55122, Start Num: 72
Candidate Starts for SJReid_90:
(Start: 72 @54733 has 13 MA's), (90, 54790), (119, 54895), (120, 54898), (141, 54955), (158, 55009), (165, 55036), (170, 55048), (178, 55096),

Gene: Sabella_27 Start: 20837, Stop: 21265, Start Num: 59
Candidate Starts for Sabella_27:
(47, 20810), (Start: 59 @20837 has 263 MA's), (70, 20852), (105, 20969), (106, 20975), (113, 21002), (123, 21023), (132, 21041), (165, 21161), (168, 21167), (181, 21230), (189, 21257),

Gene: Saguaro_26 Start: 20711, Stop: 21127, Start Num: 63
Candidate Starts for Saguaro_26:
(Start: 63 @20711 has 20 MA's), (105, 20834), (165, 21023), (171, 21038), (174, 21053),

Gene: Salazzle_25 Start: 18248, Stop: 18670, Start Num: 58
Candidate Starts for Salazzle_25:
(Start: 58 @18248 has 72 MA's), (103, 18371), (105, 18377), (106, 18383), (132, 18446), (143, 18488), (165, 18566), (177, 18614), (182, 18638), (187, 18656), (189, 18662),

Gene: Salete_19 Start: 19235, Stop: 19615, Start Num: 78
Candidate Starts for Salete_19:
(8, 18785), (23, 19067), (Start: 78 @19235 has 8 MA's), (84, 19250), (97, 19292), (109, 19337), (143, 19427), (151, 19457), (165, 19508), (171, 19523), (175, 19550), (176, 19553),

Gene: SallyH_25 Start: 18688, Stop: 19110, Start Num: 59
Candidate Starts for SallyH_25:
(33, 18622), (Start: 59 @18688 has 263 MA's), (103, 18811), (105, 18817), (106, 18823), (132, 18886), (143, 18928), (165, 19006), (177, 19054), (182, 19078), (187, 19096), (189, 19102),

Gene: Samaymay_25 Start: 18675, Stop: 19097, Start Num: 59
Candidate Starts for Samaymay_25:

(33, 18609), (Start: 59 @18675 has 263 MA's), (103, 18798), (105, 18804), (106, 18810), (132, 18873), (143, 18915), (165, 18993), (177, 19041), (182, 19065), (187, 19083), (189, 19089),

Gene: Saronaya_29 Start: 21853, Stop: 22287, Start Num: 46
Candidate Starts for Saronaya_29:
(45, 21844), (Start: 46 @21853 has 12 MA's), (82, 21937), (104, 22012), (144, 22114), (150, 22135), (168, 22192), (173, 22207), (182, 22258),

Gene: SassyCat97_24 Start: 18384, Stop: 18806, Start Num: 59
Candidate Starts for SassyCat97_24:
(33, 18318), (Start: 59 @18384 has 263 MA's), (103, 18507), (105, 18513), (106, 18519), (132, 18582), (143, 18624), (165, 18702), (177, 18750), (182, 18774), (187, 18792), (189, 18798),

Gene: Savannah_32 Start: 19414, Stop: 19818, Start Num: 41
Candidate Starts for Savannah_32:
(Start: 41 @19414 has 57 MA's), (48, 19423), (60, 19450), (62, 19453), (98, 19549), (102, 19564), (105, 19576), (106, 19582), (133, 19624), (158, 19699), (168, 19732), (177, 19774), (186, 19813),

Gene: Schadenfreude_24 Start: 18232, Stop: 18654, Start Num: 59
Candidate Starts for Schadenfreude_24:
(33, 18166), (Start: 59 @18232 has 263 MA's), (103, 18355), (105, 18361), (106, 18367), (132, 18430), (143, 18472), (165, 18550), (177, 18598), (182, 18622), (187, 18640), (189, 18646),

Gene: SchottB_28 Start: 22865, Stop: 23299, Start Num: 46
Candidate Starts for SchottB_28:
(45, 22856), (Start: 46 @22865 has 12 MA's), (82, 22949), (104, 23024), (144, 23126), (150, 23147), (168, 23204), (173, 23219), (182, 23270),

Gene: Schueller_24 Start: 18375, Stop: 18797, Start Num: 58
Candidate Starts for Schueller_24:
(Start: 58 @18375 has 72 MA's), (103, 18498), (105, 18504), (106, 18510), (132, 18573), (143, 18615), (165, 18693), (177, 18741), (182, 18765), (187, 18783), (189, 18789),

Gene: Scoot17C_25 Start: 18677, Stop: 19099, Start Num: 59
Candidate Starts for Scoot17C_25:
(33, 18611), (Start: 59 @18677 has 263 MA's), (103, 18800), (105, 18806), (106, 18812), (132, 18875), (143, 18917), (158, 18968), (165, 18995), (177, 19043), (182, 19067), (187, 19085), (189, 19091),

Gene: Scrick_25 Start: 18402, Stop: 18824, Start Num: 59
Candidate Starts for Scrick_25:
(33, 18336), (Start: 59 @18402 has 263 MA's), (103, 18525), (105, 18531), (106, 18537), (132, 18600), (143, 18642), (165, 18720), (177, 18768), (182, 18792), (187, 18810), (189, 18816),

Gene: Scumberland_34 Start: 19603, Stop: 20007, Start Num: 41
Candidate Starts for Scumberland_34:
(Start: 41 @19603 has 57 MA's), (48, 19612), (60, 19639), (62, 19642), (98, 19738), (102, 19753), (105, 19765), (106, 19771), (133, 19813), (158, 19888), (168, 19921), (177, 19963), (186, 20002),

Gene: Sejanus_22 Start: 17555, Stop: 17959, Start Num: 64
Candidate Starts for Sejanus_22:
(Start: 64 @17555 has 4 MA's), (94, 17633), (105, 17678), (106, 17684), (122, 17729), (132, 17750), (143, 17792), (149, 17816), (158, 17843), (162, 17855), (180, 17933),

Gene: Selr12_25 Start: 18399, Stop: 18821, Start Num: 59
Candidate Starts for Selr12_25:
(33, 18333), (Start: 59 @18399 has 263 MA's), (103, 18522), (105, 18528), (106, 18534), (132, 18597), (143, 18639), (165, 18717), (177, 18765), (182, 18789), (187, 18807), (189, 18813),

Gene: Selwyn23_34 Start: 19580, Stop: 19984, Start Num: 41
Candidate Starts for Selwyn23_34:
(Start: 41 @19580 has 57 MA's), (48, 19589), (60, 19616), (62, 19619), (98, 19715), (102, 19730), (105, 19742), (106, 19748), (133, 19790), (158, 19865), (168, 19898), (177, 19940), (186, 19979),

Gene: Septica_24 Start: 18685, Stop: 19107, Start Num: 59
Candidate Starts for Septica_24:
(33, 18619), (Start: 59 @18685 has 263 MA's), (103, 18808), (105, 18814), (106, 18820), (132, 18883), (143, 18925), (165, 19003), (177, 19051), (182, 19075), (187, 19093), (189, 19099),

Gene: Serendipitous_24 Start: 19199, Stop: 19615, Start Num: 63
Candidate Starts for Serendipitous_24:
(Start: 63 @19199 has 20 MA's), (110, 19343), (118, 19364), (139, 19415), (158, 19484), (181, 19580), (190, 19610),

Gene: Serendipity_25 Start: 18697, Stop: 19119, Start Num: 59
Candidate Starts for Serendipity_25:
(33, 18631), (Start: 59 @18697 has 263 MA's), (103, 18820), (105, 18826), (106, 18832), (132, 18895), (143, 18937), (165, 19015), (177, 19063), (182, 19087), (187, 19105), (189, 19111),

Gene: Serpentine_0025 Start: 18677, Stop: 19099, Start Num: 59
Candidate Starts for Serpentine_0025:
(33, 18611), (Start: 59 @18677 has 263 MA's), (103, 18800), (105, 18806), (106, 18812), (132, 18875), (143, 18917), (165, 18995), (177, 19043), (182, 19067), (187, 19085), (189, 19091),

Gene: ShadowBud_25 Start: 18690, Stop: 19112, Start Num: 59
Candidate Starts for ShadowBud_25:
(33, 18624), (Start: 59 @18690 has 263 MA's), (103, 18813), (105, 18819), (106, 18825), (132, 18888), (143, 18930), (165, 19008), (177, 19056), (182, 19080), (187, 19098), (189, 19104),

Gene: Shatter_22 Start: 17225, Stop: 17635, Start Num: 61
Candidate Starts for Shatter_22:
(Start: 61 @17225 has 24 MA's), (94, 17306), (103, 17345), (106, 17357), (120, 17399), (123, 17405), (132, 17423), (157, 17513),

Gene: Sheila_25 Start: 18669, Stop: 19091, Start Num: 59
Candidate Starts for Sheila_25:
(33, 18603), (Start: 59 @18669 has 263 MA's), (103, 18792), (105, 18798), (106, 18804), (132, 18867), (143, 18909), (165, 18987), (177, 19035), (182, 19059), (187, 19077), (189, 19083),

Gene: Shenandoah_26 Start: 19342, Stop: 19755, Start Num: 69
Candidate Starts for Shenandoah_26:
(Start: 69 @19342 has 51 MA's), (94, 19417), (105, 19462), (106, 19468), (149, 19600), (181, 19726),

Gene: Shenyu_25 Start: 19342, Stop: 19758, Start Num: 63
Candidate Starts for Shenyu_25:
(Start: 63 @19342 has 20 MA's), (132, 19534), (143, 19576), (158, 19627), (190, 19753),

Gene: ShiVal_25 Start: 18669, Stop: 19091, Start Num: 59
Candidate Starts for ShiVal_25:
(33, 18603), (Start: 59 @18669 has 263 MA's), (103, 18792), (105, 18798), (106, 18804), (132, 18867), (143, 18909), (165, 18987), (177, 19035), (182, 19059), (187, 19077), (189, 19083),

Gene: Shotgun_32 Start: 19213, Stop: 19617, Start Num: 41
Candidate Starts for Shotgun_32:
(Start: 41 @19213 has 57 MA's), (48, 19222), (60, 19249), (62, 19252), (98, 19348), (102, 19363), (105, 19375), (106, 19381), (133, 19423), (158, 19498), (168, 19531), (177, 19573), (186, 19612),

Gene: Shrubaron_33 Start: 19098, Stop: 19505, Start Num: 41
Candidate Starts for Shrubaron_33:
(Start: 41 @19098 has 57 MA's), (60, 19137), (102, 19251), (105, 19263), (106, 19269), (133, 19311), (157, 19383), (158, 19386), (168, 19419), (173, 19434), (177, 19461), (186, 19500),

Gene: Sigman_25 Start: 18668, Stop: 19090, Start Num: 59
Candidate Starts for Sigman_25:
(33, 18602), (Start: 59 @18668 has 263 MA's), (103, 18791), (105, 18797), (106, 18803), (132, 18866), (143, 18908), (165, 18986), (177, 19034), (182, 19058), (187, 19076), (189, 19082),

Gene: SilverBell_25 Start: 18692, Stop: 19114, Start Num: 59
Candidate Starts for SilverBell_25:
(33, 18626), (Start: 59 @18692 has 263 MA's), (103, 18815), (105, 18821), (106, 18827), (132, 18890), (143, 18932), (165, 19010), (177, 19058), (182, 19082), (187, 19100), (189, 19106),

Gene: Simielle_24 Start: 18367, Stop: 18789, Start Num: 59
Candidate Starts for Simielle_24:
(33, 18301), (Start: 59 @18367 has 263 MA's), (103, 18490), (105, 18496), (106, 18502), (132, 18565), (143, 18607), (165, 18685), (177, 18733), (182, 18757), (187, 18775), (189, 18781),

Gene: SirBeauregard_24 Start: 18361, Stop: 18783, Start Num: 58
Candidate Starts for SirBeauregard_24:
(Start: 58 @18361 has 72 MA's), (91, 18433), (103, 18484), (105, 18490), (106, 18496), (132, 18559), (143, 18601), (165, 18679), (177, 18727), (182, 18751), (187, 18769), (189, 18775),

Gene: SirFrank_32 Start: 19315, Stop: 19719, Start Num: 41
Candidate Starts for SirFrank_32:
(Start: 41 @19315 has 57 MA's), (48, 19324), (62, 19354), (98, 19450), (102, 19465), (105, 19477), (106, 19483), (158, 19600), (168, 19633), (177, 19675), (186, 19714),

Gene: SirJeffery_25 Start: 19385, Stop: 19801, Start Num: 63
Candidate Starts for SirJeffery_25:
(Start: 63 @19385 has 20 MA's), (89, 19445), (106, 19514), (143, 19619), (152, 19649), (190, 19796),

Gene: Sisko_22 Start: 17508, Stop: 17921, Start Num: 61
Candidate Starts for Sisko_22:
(Start: 61 @17508 has 24 MA's), (90, 17577), (106, 17643), (123, 17691), (157, 17799), (181, 17898),

Gene: Sixama_94 Start: 51509, Stop: 51916, Start Num: 72
Candidate Starts for Sixama_94:
(Start: 71 @51506 has 8 MA's), (Start: 72 @51509 has 13 MA's), (Start: 81 @51545 has 1 MA's), (99, 51602), (146, 51776), (149, 51785), (160, 51821), (163, 51833), (171, 51854), (177, 51887), (178, 51899), (181, 51908),

Gene: Skippy_25 Start: 18662, Stop: 19084, Start Num: 59
Candidate Starts for Skippy_25:
(33, 18596), (Start: 59 @18662 has 263 MA's), (103, 18785), (105, 18791), (106, 18797), (132, 18860), (143, 18902), (165, 18980), (177, 19028), (182, 19052), (187, 19070), (189, 19076),

Gene: Skugga_31 Start: 19196, Stop: 19606, Start Num: 36
Candidate Starts for Skugga_31:
(Start: 36 @19196 has 2 MA's), (Start: 41 @19202 has 57 MA's), (49, 19217), (102, 19352), (105, 19364), (106, 19370), (122, 19394), (133, 19412), (157, 19484), (168, 19520), (177, 19562), (186, 19601),

Gene: Slatt_25 Start: 18691, Stop: 19113, Start Num: 59
Candidate Starts for Slatt_25:
(33, 18625), (Start: 59 @18691 has 263 MA's), (103, 18814), (105, 18820), (106, 18826), (132, 18889), (143, 18931), (165, 19009), (177, 19057), (182, 19081), (187, 19099), (189, 19105),

Gene: SlippinJimmy_26 Start: 20128, Stop: 20541, Start Num: 69
Candidate Starts for SlippinJimmy_26:
(Start: 69 @20128 has 51 MA's), (105, 20248), (106, 20254), (123, 20302), (149, 20386), (181, 20512),

Gene: Smarties_41 Start: 21286, Stop: 21693, Start Num: 41
Candidate Starts for Smarties_41:
(Start: 41 @21286 has 57 MA's), (102, 21439), (105, 21451), (133, 21499), (157, 21571), (158, 21574), (168, 21607), (173, 21622), (177, 21649), (186, 21688),

Gene: Soile_25 Start: 18389, Stop: 18811, Start Num: 58
Candidate Starts for Soile_25:
(Start: 58 @18389 has 72 MA's), (105, 18518), (106, 18524), (132, 18587), (143, 18629), (165, 18707), (177, 18755), (182, 18779), (187, 18797), (189, 18803),

Gene: Solosis_24 Start: 18394, Stop: 18816, Start Num: 59
Candidate Starts for Solosis_24:
(33, 18328), (Start: 59 @18394 has 263 MA's), (103, 18517), (105, 18523), (106, 18529), (132, 18592), (143, 18634), (165, 18712), (177, 18760), (182, 18784), (187, 18802), (189, 18808),

Gene: Sophia_24 Start: 18387, Stop: 18809, Start Num: 59
Candidate Starts for Sophia_24:
(33, 18321), (Start: 59 @18387 has 263 MA's), (103, 18510), (105, 18516), (106, 18522), (132, 18585), (143, 18627), (165, 18705), (177, 18753), (182, 18777), (187, 18795), (189, 18801),

Gene: Soto_25 Start: 18671, Stop: 19093, Start Num: 59
Candidate Starts for Soto_25:
(33, 18605), (Start: 59 @18671 has 263 MA's), (103, 18794), (105, 18800), (106, 18806), (132, 18869), (143, 18911), (165, 18989), (177, 19037), (182, 19061), (187, 19079), (189, 19085),

Gene: Sour_26 Start: 21204, Stop: 21638, Start Num: 50
Candidate Starts for Sour_26:
(Start: 50 @21204 has 1 MA's), (Start: 61 @21225 has 24 MA's), (90, 21294), (120, 21402), (123, 21408), (143, 21468), (145, 21474), (157, 21516),

Gene: Spartan300_25 Start: 18672, Stop: 19094, Start Num: 59
Candidate Starts for Spartan300_25:

(33, 18606), (Start: 59 @18672 has 263 MA's), (103, 18795), (105, 18801), (106, 18807), (132, 18870), (143, 18912), (165, 18990), (177, 19038), (182, 19062), (187, 19080), (189, 19086),

Gene: Squid_25 Start: 18384, Stop: 18806, Start Num: 59
Candidate Starts for Squid_25:
(33, 18318), (Start: 59 @18384 has 263 MA's), (103, 18507), (105, 18513), (106, 18519), (132, 18582), (143, 18624), (165, 18702), (177, 18750), (182, 18774), (187, 18792), (189, 18798),

Gene: Squiggle_25 Start: 18381, Stop: 18803, Start Num: 59
Candidate Starts for Squiggle_25:
(33, 18315), (Start: 59 @18381 has 263 MA's), (103, 18504), (105, 18510), (106, 18516), (132, 18579), (143, 18621), (165, 18699), (177, 18747), (182, 18771), (187, 18789), (189, 18795),

Gene: Stewart25555_78 Start: 49328, Stop: 49672, Start Num: 81
Candidate Starts for Stewart25555_78:
(Start: 72 @49292 has 13 MA's), (74, 49301), (Start: 81 @49328 has 1 MA's), (141, 49514), (171, 49610),

Gene: Stinger_21 Start: 17880, Stop: 18293, Start Num: 66
Candidate Starts for Stinger_21:
(Start: 66 @17880 has 30 MA's), (105, 18000), (106, 18006), (118, 18042), (132, 18069), (137, 18081), (139, 18093), (143, 18111), (165, 18189), (181, 18258), (182, 18261), (189, 18285),

Gene: StinkyVeggy_27 Start: 19514, Stop: 19930, Start Num: 63
Candidate Starts for StinkyVeggy_27:
(Start: 63 @19514 has 20 MA's), (132, 19706), (158, 19799), (190, 19925),

Gene: StorminNorm_29 Start: 21732, Stop: 22166, Start Num: 46
Candidate Starts for StorminNorm_29:
(45, 21723), (Start: 46 @21732 has 12 MA's), (82, 21816), (104, 21891), (144, 21993), (150, 22014), (168, 22071), (173, 22086), (182, 22137),

Gene: Struggle_24 Start: 18228, Stop: 18650, Start Num: 58
Candidate Starts for Struggle_24:
(Start: 58 @18228 has 72 MA's), (103, 18351), (105, 18357), (106, 18363), (132, 18426), (143, 18468), (165, 18546), (177, 18594), (182, 18618), (187, 18636), (189, 18642),

Gene: Suffolk_25 Start: 18674, Stop: 19096, Start Num: 59
Candidate Starts for Suffolk_25:
(33, 18608), (Start: 59 @18674 has 263 MA's), (103, 18797), (105, 18803), (106, 18809), (132, 18872), (143, 18914), (165, 18992), (177, 19040), (182, 19064), (187, 19082), (189, 19088),

Gene: Suigeneris_25 Start: 19394, Stop: 19810, Start Num: 63
Candidate Starts for Suigeneris_25:
(Start: 63 @19394 has 20 MA's), (89, 19454), (106, 19523), (143, 19628), (152, 19658), (190, 19805),

Gene: Sunny_ Start: 21449, Stop: 21856, Start Num: 41
Candidate Starts for Sunny_:
(Start: 41 @21449 has 57 MA's), (98, 21587), (102, 21602), (105, 21614), (106, 21620), (133, 21662), (168, 21770), (177, 21812), (181, 21833),

Gene: Surely_25 Start: 18686, Stop: 19108, Start Num: 59
Candidate Starts for Surely_25:

(33, 18620), (Start: 59 @18686 has 263 MA's), (103, 18809), (105, 18815), (106, 18821), (132, 18884), (143, 18926), (165, 19004), (177, 19052), (182, 19076), (187, 19094), (189, 19100),

Gene: SwainyDoc_26 Start: 19361, Stop: 19774, Start Num: 69
Candidate Starts for SwainyDoc_26:
(Start: 69 @19361 has 51 MA's), (94, 19436), (105, 19481), (106, 19487), (149, 19619), (181, 19745),

Gene: Swiphy_25 Start: 18675, Stop: 19097, Start Num: 58
Candidate Starts for Swiphy_25:
(Start: 58 @18675 has 72 MA's), (103, 18798), (105, 18804), (106, 18810), (132, 18873), (143, 18915), (165, 18993), (177, 19041), (182, 19065), (187, 19083), (189, 19089),

Gene: Swish_25 Start: 18669, Stop: 19091, Start Num: 59
Candidate Starts for Swish_25:
(33, 18603), (Start: 59 @18669 has 263 MA's), (103, 18792), (105, 18798), (106, 18804), (132, 18867), (143, 18909), (165, 18987), (177, 19035), (182, 19059), (187, 19077), (189, 19083),

Gene: SynergyX_26 Start: 19364, Stop: 19777, Start Num: 69
Candidate Starts for SynergyX_26:
(Start: 69 @19364 has 51 MA's), (94, 19439), (105, 19484), (106, 19490), (149, 19622), (181, 19748),

Gene: TA17A_28 Start: 20831, Stop: 21259, Start Num: 59
Candidate Starts for TA17A_28:
(47, 20804), (Start: 59 @20831 has 263 MA's), (70, 20846), (105, 20963), (106, 20969), (113, 20996), (123, 21017), (132, 21035), (165, 21155), (168, 21161), (181, 21224), (189, 21251),

Gene: TP1604_19 Start: 19235, Stop: 19615, Start Num: 78
Candidate Starts for TP1604_19:
(8, 18785), (23, 19067), (Start: 78 @19235 has 8 MA's), (84, 19250), (97, 19292), (109, 19337), (143, 19427), (151, 19457), (165, 19508), (171, 19523), (175, 19550), (176, 19553),

Gene: TPA2_31 Start: 19553, Stop: 19993, Start Num: 53
Candidate Starts for TPA2_31:
(53, 19553), (105, 19697), (106, 19703), (132, 19769), (165, 19892), (181, 19961), (186, 19979),

Gene: Talia1610_87 Start: 52786, Stop: 53169, Start Num: 71
Candidate Starts for Talia1610_87:
(Start: 71 @52786 has 8 MA's), (Start: 81 @52825 has 1 MA's), (110, 52927), (119, 52951), (129, 52972), (139, 53002), (141, 53011), (158, 53065), (165, 53092), (170, 53104),

Gene: TallGrassMM_25 Start: 18401, Stop: 18823, Start Num: 59
Candidate Starts for TallGrassMM_25:
(33, 18335), (Start: 59 @18401 has 263 MA's), (103, 18524), (105, 18530), (106, 18536), (132, 18599), (143, 18641), (158, 18692), (165, 18719), (177, 18767), (182, 18791), (187, 18809), (189, 18815),

Gene: Tangerine_29 Start: 21738, Stop: 22172, Start Num: 46
Candidate Starts for Tangerine_29:
(45, 21729), (Start: 46 @21738 has 12 MA's), (82, 21822), (104, 21897), (144, 21999), (150, 22020), (168, 22077), (173, 22092), (182, 22143),

Gene: Taptic_19 Start: 18137, Stop: 18547, Start Num: 67
Candidate Starts for Taptic_19:

(Start: 67 @18137 has 8 MA's), (94, 18212), (105, 18257), (106, 18263), (120, 18305), (132, 18329), (138, 18350), (164, 18452), (177, 18497),

Gene: Taraxa_25 Start: 18255, Stop: 18677, Start Num: 58
Candidate Starts for Taraxa_25:
(Start: 58 @18255 has 72 MA's), (103, 18378), (105, 18384), (106, 18390), (132, 18453), (143, 18495), (165, 18573), (177, 18621), (182, 18645), (187, 18663), (189, 18669),

Gene: Teamocil_34 Start: 19277, Stop: 19687, Start Num: 36
Candidate Starts for Teamocil_34:
(Start: 36 @19277 has 2 MA's), (Start: 41 @19283 has 57 MA's), (49, 19298), (102, 19433), (105, 19445), (133, 19493), (157, 19565), (158, 19568), (168, 19601), (173, 19616), (177, 19643), (186, 19682),

Gene: Telesworld_24 Start: 18380, Stop: 18802, Start Num: 59
Candidate Starts for Telesworld_24:
(33, 18314), (Start: 59 @18380 has 263 MA's), (103, 18503), (105, 18509), (106, 18515), (132, 18578), (143, 18620), (165, 18698), (177, 18746), (182, 18770), (187, 18788), (189, 18794),

Gene: Terij_29 Start: 18831, Stop: 19235, Start Num: 41
Candidate Starts for Terij_29:
(5, 18411), (7, 18423), (10, 18513), (12, 18546), (17, 18663), (18, 18672), (20, 18699), (22, 18741), (28, 18774), (30, 18792), (Start: 41 @18831 has 57 MA's), (54, 18852), (65, 18873), (75, 18888), (98, 18966), (102, 18981), (158, 19116), (159, 19119), (168, 19146), (177, 19188), (178, 19200),

Gene: Thonko_24 Start: 17161, Stop: 17574, Start Num: 66
Candidate Starts for Thonko_24:
(9, 16762), (11, 16798), (26, 17026), (Start: 66 @17161 has 30 MA's), (105, 17281), (106, 17287), (112, 17311), (113, 17314), (143, 17392), (171, 17485),

Gene: Thora_25 Start: 18685, Stop: 19107, Start Num: 59
Candidate Starts for Thora_25:
(33, 18619), (Start: 59 @18685 has 263 MA's), (103, 18808), (105, 18814), (106, 18820), (132, 18883), (143, 18925), (165, 19003), (177, 19051), (182, 19075), (187, 19093), (189, 19099),

Gene: ThreeOh3D2_25 Start: 18684, Stop: 19106, Start Num: 59
Candidate Starts for ThreeOh3D2_25:
(33, 18618), (Start: 59 @18684 has 263 MA's), (103, 18807), (105, 18813), (106, 18819), (132, 18882), (143, 18924), (165, 19002), (177, 19050), (182, 19074), (187, 19092), (189, 19098),

Gene: Thunderbird_24 Start: 18384, Stop: 18806, Start Num: 59
Candidate Starts for Thunderbird_24:
(33, 18318), (Start: 59 @18384 has 263 MA's), (103, 18507), (105, 18513), (106, 18519), (132, 18582), (143, 18624), (165, 18702), (177, 18750), (182, 18774), (187, 18792), (189, 18798),

Gene: Timmi_24 Start: 18395, Stop: 18817, Start Num: 59
Candidate Starts for Timmi_24:
(33, 18329), (Start: 59 @18395 has 263 MA's), (103, 18518), (105, 18524), (106, 18530), (132, 18593), (143, 18635), (165, 18713), (177, 18761), (182, 18785), (187, 18803), (189, 18809),

Gene: Tinciduntsolum_28 Start: 20953, Stop: 21381, Start Num: 59
Candidate Starts for Tinciduntsolum_28:

(47, 20926), (Start: 59 @20953 has 263 MA's), (70, 20968), (105, 21085), (106, 21091), (113, 21118), (123, 21139), (132, 21157), (165, 21277), (168, 21283), (181, 21346), (189, 21373),

Gene: TinyTerror_26 Start: 19361, Stop: 19774, Start Num: 69
Candidate Starts for TinyTerror_26:
(Start: 69 @19361 has 51 MA's), (105, 19481), (106, 19487), (123, 19535), (149, 19619), (181, 19745),

Gene: TomBombadil_25 Start: 18680, Stop: 19102, Start Num: 59
Candidate Starts for TomBombadil_25:
(33, 18614), (Start: 59 @18680 has 263 MA's), (103, 18803), (105, 18809), (106, 18815), (132, 18878), (143, 18920), (165, 18998), (177, 19046), (182, 19070), (187, 19088), (189, 19094),

Gene: Tomlarah_25 Start: 18670, Stop: 19092, Start Num: 59
Candidate Starts for Tomlarah_25:
(33, 18604), (Start: 59 @18670 has 263 MA's), (103, 18793), (105, 18799), (106, 18805), (132, 18868), (143, 18910), (165, 18988), (177, 19036), (182, 19060), (187, 19078), (189, 19084),

Gene: Toni_24 Start: 18379, Stop: 18801, Start Num: 59
Candidate Starts for Toni_24:
(33, 18313), (Start: 59 @18379 has 263 MA's), (103, 18502), (105, 18508), (106, 18514), (132, 18577), (143, 18619), (165, 18697), (177, 18745), (182, 18769), (187, 18787), (189, 18793),

Gene: TooFast2Furius_26 Start: 18916, Stop: 19338, Start Num: 59
Candidate Starts for TooFast2Furius_26:
(33, 18850), (Start: 59 @18916 has 263 MA's), (103, 19039), (105, 19045), (106, 19051), (132, 19114), (143, 19156), (165, 19234), (177, 19282), (182, 19306), (187, 19324), (189, 19330),

Gene: Tooj_25 Start: 18681, Stop: 19103, Start Num: 59
Candidate Starts for Tooj_25:
(33, 18615), (Start: 59 @18681 has 263 MA's), (103, 18804), (105, 18810), (106, 18816), (132, 18879), (143, 18921), (165, 18999), (177, 19047), (182, 19071), (187, 19089), (189, 19095),

Gene: TraderJ_24 Start: 18607, Stop: 19017, Start Num: 61
Candidate Starts for TraderJ_24:
(Start: 61 @18607 has 24 MA's), (114, 18769), (120, 18781), (165, 18925),

Gene: Tres_27 Start: 20834, Stop: 21262, Start Num: 59
Candidate Starts for Tres_27:
(47, 20807), (Start: 59 @20834 has 263 MA's), (70, 20849), (105, 20966), (106, 20972), (113, 20999), (123, 21020), (132, 21038), (165, 21158), (168, 21164), (181, 21227), (189, 21254),

Gene: Triad_25 Start: 17550, Stop: 17972, Start Num: 59
Candidate Starts for Triad_25:
(33, 17484), (Start: 59 @17550 has 263 MA's), (103, 17673), (105, 17679), (106, 17685), (132, 17748), (143, 17790), (165, 17868), (177, 17916), (182, 17940), (187, 17958), (189, 17964),

Gene: True_24 Start: 18383, Stop: 18805, Start Num: 59
Candidate Starts for True_24:
(33, 18317), (Start: 59 @18383 has 263 MA's), (103, 18506), (105, 18512), (106, 18518), (132, 18581), (143, 18623), (165, 18701), (177, 18749), (182, 18773), (187, 18791), (189, 18797),

Gene: Trypo_25 Start: 18672, Stop: 19094, Start Num: 58
Candidate Starts for Trypo_25:

(Start: 58 @18672 has 72 MA's), (103, 18795), (105, 18801), (106, 18807), (132, 18870), (143, 18912), (165, 18990), (177, 19038), (182, 19062), (187, 19080), (189, 19086),

Gene: TurkishDelight_25 Start: 21435, Stop: 21812, Start Num: 79
Candidate Starts for TurkishDelight_25:
(23, 21273), (37, 21360), (Start: 58 @21411 has 72 MA's), (Start: 79 @21435 has 4 MA's), (82, 21441), (84, 21447), (87, 21453), (109, 21534), (123, 21570), (131, 21582), (136, 21594), (147, 21648), (174, 21735), (175, 21747), (184, 21783),

Gene: Tycho_29 Start: 21827, Stop: 22261, Start Num: 46
Candidate Starts for Tycho_29:
(45, 21818), (Start: 46 @21827 has 12 MA's), (82, 21911), (104, 21986), (144, 22088), (150, 22109), (168, 22166), (173, 22181), (182, 22232),

Gene: Tydolla_26 Start: 20101, Stop: 20514, Start Num: 69
Candidate Starts for Tydolla_26:
(Start: 69 @20101 has 51 MA's), (105, 20221), (106, 20227), (123, 20275), (149, 20359), (181, 20485),

Gene: TyrionL_24 Start: 18236, Stop: 18658, Start Num: 58
Candidate Starts for TyrionL_24:
(Start: 58 @18236 has 72 MA's), (103, 18359), (105, 18365), (106, 18371), (132, 18434), (143, 18476), (165, 18554), (177, 18602), (182, 18626), (187, 18644), (189, 18650),

Gene: Tyrumbra_31 Start: 18504, Stop: 18908, Start Num: 41
Candidate Starts for Tyrumbra_31:
(Start: 41 @18504 has 57 MA's), (49, 18519), (62, 18543), (102, 18654), (105, 18666), (106, 18672), (133, 18714), (157, 18786), (158, 18789), (168, 18822), (177, 18864), (186, 18903),

Gene: UAch1_25 Start: 18692, Stop: 19114, Start Num: 59
Candidate Starts for UAch1_25:
(33, 18626), (Start: 59 @18692 has 263 MA's), (103, 18815), (105, 18821), (106, 18827), (132, 18890), (143, 18932), (158, 18983), (165, 19010), (177, 19058), (182, 19082), (187, 19100), (189, 19106),

Gene: UncleHowie_25 Start: 18382, Stop: 18804, Start Num: 59
Candidate Starts for UncleHowie_25:
(33, 18316), (Start: 59 @18382 has 263 MA's), (103, 18505), (105, 18511), (106, 18517), (132, 18580), (143, 18622), (165, 18700), (177, 18748), (182, 18772), (187, 18790), (189, 18796),

Gene: Usavi_25 Start: 18683, Stop: 19105, Start Num: 59
Candidate Starts for Usavi_25:
(33, 18617), (Start: 59 @18683 has 263 MA's), (103, 18806), (105, 18812), (106, 18818), (132, 18881), (143, 18923), (158, 18974), (165, 19001), (177, 19049), (182, 19073), (187, 19091), (189, 19097),

Gene: Vaishali24_24 Start: 18341, Stop: 18763, Start Num: 58
Candidate Starts for Vaishali24_24:
(Start: 58 @18341 has 72 MA's), (103, 18464), (105, 18470), (106, 18476), (132, 18539), (143, 18581), (165, 18659), (177, 18707), (182, 18731), (187, 18749), (189, 18755),

Gene: Valjean_25 Start: 18675, Stop: 19097, Start Num: 59
Candidate Starts for Valjean_25:
(33, 18609), (Start: 59 @18675 has 263 MA's), (103, 18798), (105, 18804), (106, 18810), (132, 18873), (143, 18915), (165, 18993), (177, 19041), (182, 19065), (187, 19083), (189, 19089),

Gene: Vaticameos_25 Start: 18373, Stop: 18795, Start Num: 59
Candidate Starts for Vaticameos_25:
(33, 18307), (Start: 59 @18373 has 263 MA's), (103, 18496), (105, 18502), (106, 18508), (132, 18571), (143, 18613), (165, 18691), (177, 18739), (182, 18763), (187, 18781), (189, 18787),

Gene: Vectra_24 Start: 18239, Stop: 18661, Start Num: 58
Candidate Starts for Vectra_24:
(Start: 58 @18239 has 72 MA's), (103, 18362), (105, 18368), (106, 18374), (132, 18437), (143, 18479), (165, 18557), (177, 18605), (182, 18629), (187, 18647), (189, 18653),

Gene: Veritas_24 Start: 18242, Stop: 18664, Start Num: 58
Candidate Starts for Veritas_24:
(Start: 58 @18242 has 72 MA's), (91, 18314), (103, 18365), (105, 18371), (106, 18377), (132, 18440), (143, 18482), (165, 18560), (177, 18608), (182, 18632), (187, 18650), (189, 18656),

Gene: Vic9_00027 Start: 21282, Stop: 21710, Start Num: 59
Candidate Starts for Vic9_00027:
(47, 21255), (Start: 59 @21282 has 263 MA's), (70, 21297), (106, 21420), (113, 21447), (123, 21468), (132, 21486), (143, 21528), (165, 21606), (168, 21612), (181, 21675), (189, 21702),

Gene: Vincenzo_24 Start: 20089, Stop: 20502, Start Num: 66
Candidate Starts for Vincenzo_24:
(44, 20038), (Start: 66 @20089 has 30 MA's), (105, 20209), (106, 20215), (137, 20290), (143, 20320), (164, 20395), (171, 20413), (189, 20494),

Gene: VioletZ_23 Start: 19392, Stop: 19805, Start Num: 66
Candidate Starts for VioletZ_23:
(Start: 66 @19392 has 30 MA's), (103, 19506), (105, 19512), (106, 19518), (118, 19554), (137, 19593), (139, 19605), (143, 19623), (181, 19770), (189, 19797),

Gene: Virapocalypse_25 Start: 18666, Stop: 19088, Start Num: 59
Candidate Starts for Virapocalypse_25:
(33, 18600), (Start: 59 @18666 has 263 MA's), (103, 18789), (105, 18795), (106, 18801), (132, 18864), (143, 18906), (165, 18984), (177, 19032), (182, 19056), (187, 19074), (189, 19080),

Gene: Virgeve_24 Start: 18408, Stop: 18830, Start Num: 58
Candidate Starts for Virgeve_24:
(Start: 58 @18408 has 72 MA's), (91, 18480), (103, 18531), (105, 18537), (106, 18543), (132, 18606), (143, 18648), (165, 18726), (177, 18774), (182, 18798), (187, 18816), (189, 18822),

Gene: Vista_25 Start: 18680, Stop: 19102, Start Num: 59
Candidate Starts for Vista_25:
(33, 18614), (Start: 59 @18680 has 263 MA's), (103, 18803), (105, 18809), (106, 18815), (132, 18878), (143, 18920), (158, 18971), (165, 18998), (177, 19046), (182, 19070), (187, 19088), (189, 19094),

Gene: Vivaldi_25 Start: 18710, Stop: 19132, Start Num: 59
Candidate Starts for Vivaldi_25:
(33, 18644), (Start: 59 @18710 has 263 MA's), (103, 18833), (105, 18839), (106, 18845), (132, 18908), (143, 18950), (165, 19028), (177, 19076), (182, 19100), (187, 19118), (189, 19124),

Gene: Vortex_25 Start: 18390, Stop: 18812, Start Num: 59
Candidate Starts for Vortex_25:

(33, 18324), (Start: 59 @18390 has 263 MA's), (103, 18513), (105, 18519), (106, 18525), (132, 18588), (143, 18630), (165, 18708), (177, 18756), (182, 18780), (187, 18798), (189, 18804),

Gene: WaddleDee_75 Start: 48766, Stop: 49110, Start Num: 81
Candidate Starts for WaddleDee_75:
(Start: 72 @48730 has 13 MA's), (Start: 81 @48766 has 1 MA's), (106, 48853), (131, 48916), (139, 48943), (141, 48952), (171, 49048),

Gene: Waleliano_23 Start: 19331, Stop: 19744, Start Num: 66
Candidate Starts for Waleliano_23:
(Start: 66 @19331 has 30 MA's), (103, 19445), (105, 19451), (106, 19457), (118, 19493), (137, 19532), (139, 19544), (143, 19562), (165, 19640), (181, 19709), (182, 19712), (189, 19736),

Gene: Wallhey_24 Start: 18240, Stop: 18662, Start Num: 58
Candidate Starts for Wallhey_24:
(Start: 58 @18240 has 72 MA's), (103, 18363), (105, 18369), (106, 18375), (132, 18438), (143, 18480), (165, 18558), (177, 18606), (182, 18630), (187, 18648), (189, 18654),

Gene: Waterdiva_25 Start: 18675, Stop: 19097, Start Num: 59
Candidate Starts for Waterdiva_25:
(33, 18609), (Start: 59 @18675 has 263 MA's), (103, 18798), (105, 18804), (106, 18810), (132, 18873), (143, 18915), (165, 18993), (177, 19041), (182, 19065), (187, 19083), (189, 19089),

Gene: Weher20_25 Start: 18668, Stop: 19090, Start Num: 58
Candidate Starts for Weher20_25:
(Start: 58 @18668 has 72 MA's), (103, 18791), (105, 18797), (106, 18803), (132, 18866), (143, 18908), (165, 18986), (177, 19034), (182, 19058), (187, 19076), (189, 19082),

Gene: West99_27 Start: 20954, Stop: 21382, Start Num: 59
Candidate Starts for West99_27:
(47, 20927), (Start: 59 @20954 has 263 MA's), (70, 20969), (105, 21086), (106, 21092), (113, 21119), (123, 21140), (132, 21158), (165, 21278), (168, 21284), (181, 21347), (189, 21374),

Gene: Windsor_24 Start: 18360, Stop: 18782, Start Num: 58
Candidate Starts for Windsor_24:
(Start: 58 @18360 has 72 MA's), (91, 18432), (103, 18483), (105, 18489), (106, 18495), (132, 18558), (143, 18600), (165, 18678), (177, 18726), (182, 18750), (187, 18768), (189, 18774),

Gene: Wooper_24 Start: 18613, Stop: 19023, Start Num: 61
Candidate Starts for Wooper_24:
(Start: 61 @18613 has 24 MA's), (114, 18775), (120, 18787), (165, 18931),

Gene: Xavier_24 Start: 18393, Stop: 18815, Start Num: 59
Candidate Starts for Xavier_24:
(33, 18327), (Start: 59 @18393 has 263 MA's), (103, 18516), (105, 18522), (106, 18528), (132, 18591), (143, 18633), (165, 18711), (177, 18759), (182, 18783), (187, 18801), (189, 18807),

Gene: Xincheng_22 Start: 18792, Stop: 19205, Start Num: 66
Candidate Starts for Xincheng_22:
(Start: 66 @18792 has 30 MA's), (103, 18906), (105, 18912), (106, 18918), (118, 18954), (137, 18993), (139, 19005), (143, 19023), (158, 19074), (165, 19101), (181, 19170), (182, 19173), (189, 19197),

Gene: Xkcd426_25 Start: 26648, Stop: 27025, Start Num: 79

Candidate Starts for Xkcd426_25:
(52, 26606), (Start: 79 @26648 has 4 MA's), (84, 26660), (109, 26747), (137, 26807), (151, 26867), (165, 26918), (175, 26960), (184, 26996),

Gene: YDN12_20 Start: 19174, Stop: 19551, Start Num: 79
Candidate Starts for YDN12_20:
(23, 19003), (Start: 79 @19174 has 4 MA's), (84, 19186), (93, 19207), (97, 19228), (109, 19273), (143, 19363), (151, 19393), (165, 19444), (171, 19459), (175, 19486), (176, 19489),

Gene: Yago84_22 Start: 17516, Stop: 17929, Start Num: 61
Candidate Starts for Yago84_22:
(Start: 61 @17516 has 24 MA's), (90, 17585), (106, 17651), (123, 17699), (157, 17807), (181, 17906),

Gene: Yahalom_26 Start: 19376, Stop: 19789, Start Num: 69
Candidate Starts for Yahalom_26:
(Start: 69 @19376 has 51 MA's), (105, 19496), (106, 19502), (123, 19550), (149, 19634), (181, 19760),

Gene: Yeshua_24 Start: 18590, Stop: 19000, Start Num: 61
Candidate Starts for Yeshua_24:
(Start: 61 @18590 has 24 MA's), (114, 18752), (120, 18764), (165, 18908),

Gene: Yeti_33 Start: 19382, Stop: 19786, Start Num: 41
Candidate Starts for Yeti_33:
(Start: 41 @19382 has 57 MA's), (48, 19391), (60, 19418), (62, 19421), (98, 19517), (102, 19532), (105, 19544), (106, 19550), (133, 19592), (158, 19667), (168, 19700), (177, 19742), (186, 19781),

Gene: Yinz_26 Start: 19402, Stop: 19815, Start Num: 69
Candidate Starts for Yinz_26:
(Start: 69 @19402 has 51 MA's), (94, 19477), (105, 19522), (106, 19528), (149, 19660), (181, 19786),

Gene: Yoshand_25 Start: 18682, Stop: 19104, Start Num: 59
Candidate Starts for Yoshand_25:
(33, 18616), (Start: 59 @18682 has 263 MA's), (103, 18805), (105, 18811), (106, 18817), (132, 18880), (143, 18922), (165, 19000), (177, 19048), (182, 19072), (187, 19090), (189, 19096),

Gene: YouGoGlencoco_25 Start: 18671, Stop: 19093, Start Num: 59
Candidate Starts for YouGoGlencoco_25:
(33, 18605), (Start: 59 @18671 has 263 MA's), (103, 18794), (105, 18800), (106, 18806), (132, 18869), (143, 18911), (165, 18989), (177, 19037), (182, 19061), (187, 19079), (189, 19085),

Gene: Zaider_26 Start: 18907, Stop: 19329, Start Num: 59
Candidate Starts for Zaider_26:
(33, 18841), (Start: 59 @18907 has 263 MA's), (103, 19030), (105, 19036), (106, 19042), (132, 19105), (143, 19147), (165, 19225), (177, 19273), (182, 19297), (187, 19315), (189, 19321),

Gene: Zapato_32 Start: 19227, Stop: 19631, Start Num: 41
Candidate Starts for Zapato_32:
(Start: 41 @19227 has 57 MA's), (68, 19272), (102, 19377), (105, 19389), (106, 19395), (133, 19437), (157, 19509), (158, 19512), (168, 19545), (177, 19587), (186, 19626),

Gene: Zelda_25 Start: 18676, Stop: 19098, Start Num: 59
Candidate Starts for Zelda_25:

(33, 18610), (Start: 59 @18676 has 263 MA's), (103, 18799), (105, 18805), (106, 18811), (132, 18874), (143, 18916), (165, 18994), (177, 19042), (182, 19066), (187, 19084), (189, 19090),

Gene: Zemanar_24 Start: 19331, Stop: 19744, Start Num: 66
Candidate Starts for Zemanar_24:
(Start: 66 @19331 has 30 MA's), (103, 19445), (105, 19451), (106, 19457), (118, 19493), (137, 19532), (139, 19544), (143, 19562), (165, 19640), (181, 19709), (182, 19712), (189, 19736),

Gene: Zenteno07_29 Start: 19112, Stop: 19528, Start Num: 63
Candidate Starts for Zenteno07_29:
(Start: 63 @19112 has 20 MA's), (105, 19235), (112, 19265), (113, 19268), (165, 19424), (171, 19439), (189, 19520),

Gene: Zonia_25 Start: 18690, Stop: 19112, Start Num: 58
Candidate Starts for Zonia_25:
(Start: 58 @18690 has 72 MA's), (103, 18813), (105, 18819), (106, 18825), (132, 18888), (143, 18930), (165, 19008), (177, 19056), (182, 19080), (187, 19098), (189, 19104),

Gene: Zooman_79 Start: 48365, Stop: 48775, Start Num: 56
Candidate Starts for Zooman_79:
(Start: 56 @48365 has 2 MA's), (70, 48386), (Start: 81 @48425 has 1 MA's), (92, 48452), (94, 48461), (98, 48479), (119, 48551), (164, 48692), (172, 48713),

Gene: Zuko_15 Start: 11717, Stop: 12112, Start Num: 76
Candidate Starts for Zuko_15:
(Start: 76 @11717 has 2 MA's), (88, 11747), (100, 11795), (102, 11804), (156, 11963), (188, 12098),