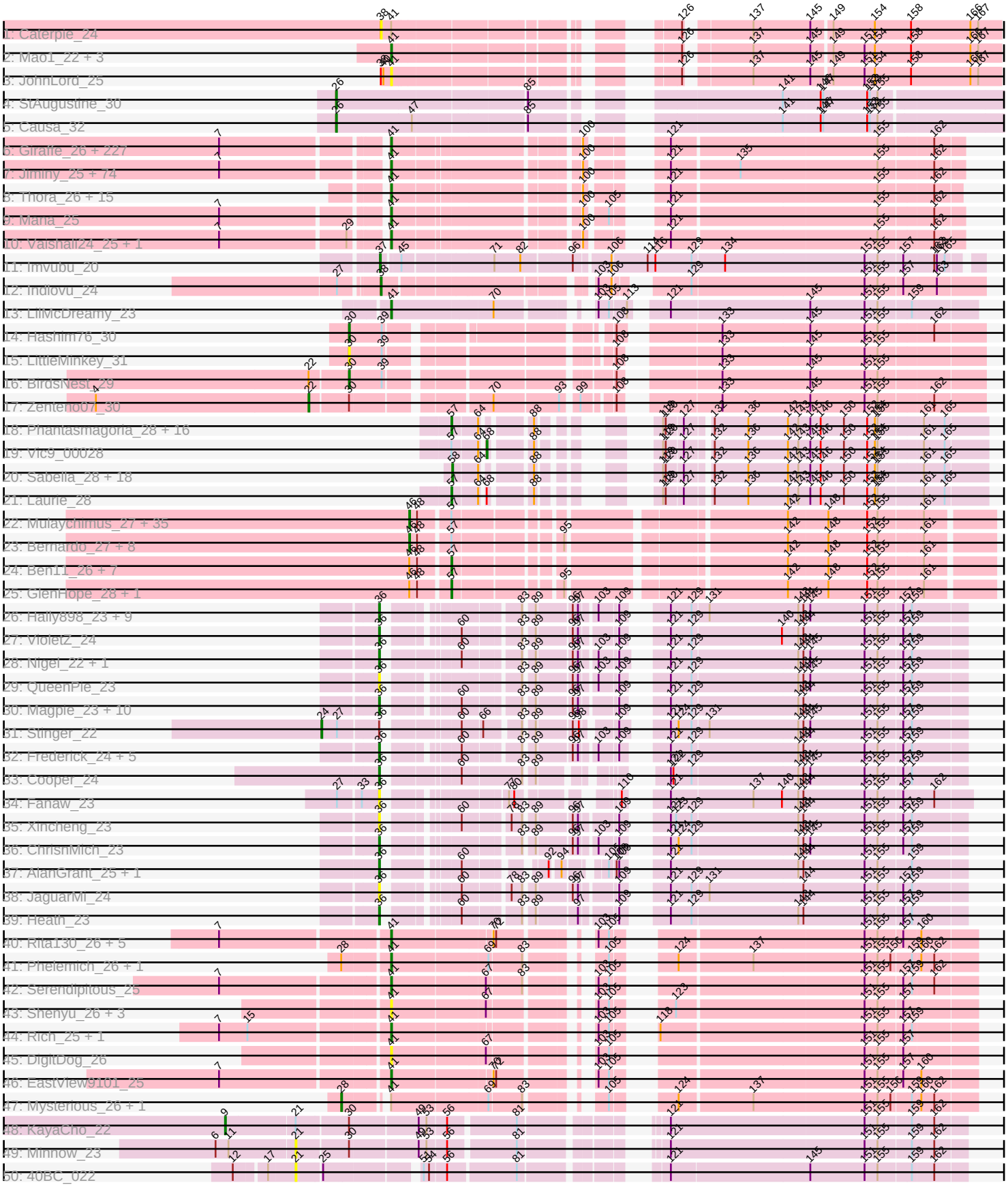
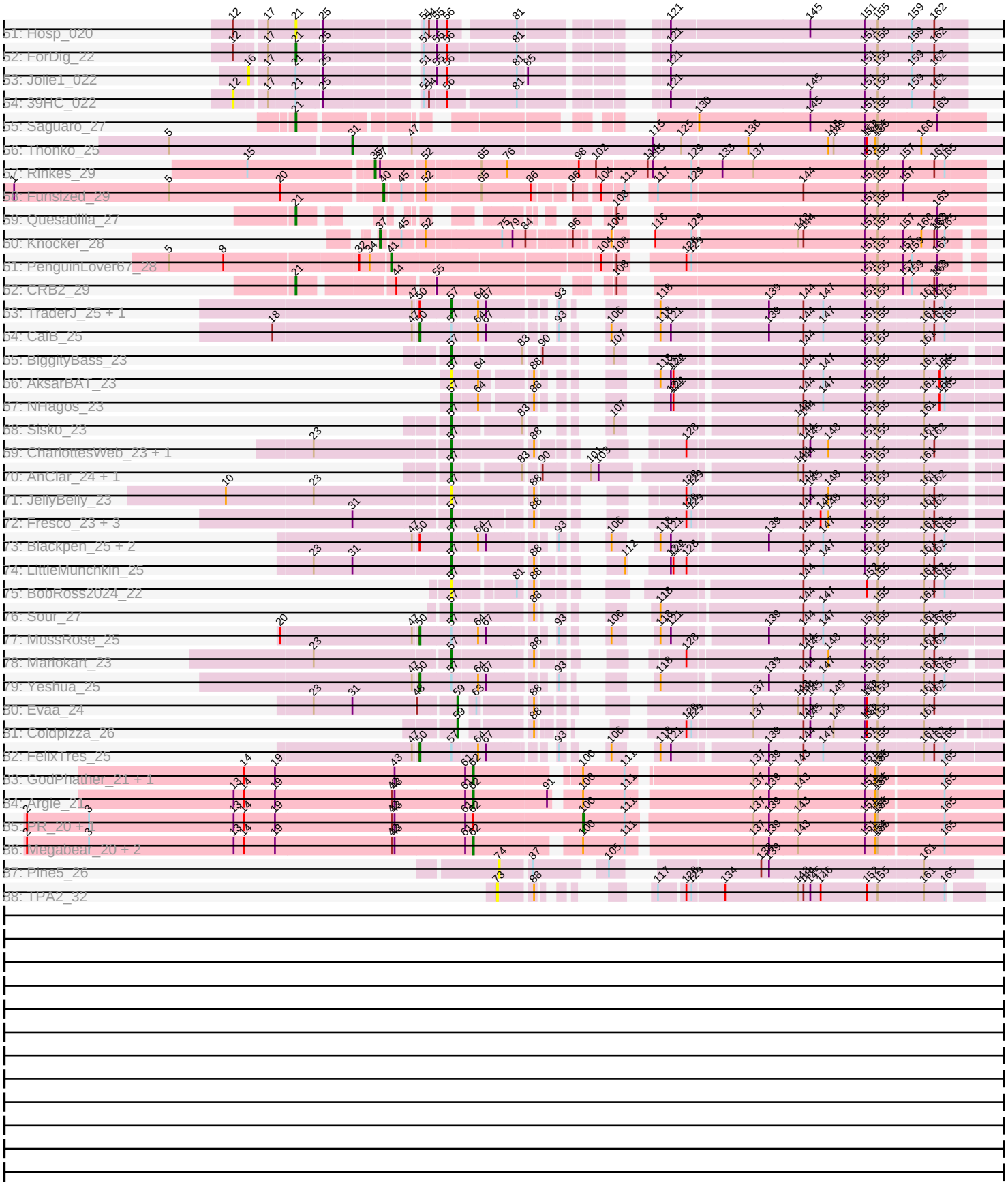
Pham 347065


1: Caterpie_24
2: Mac1_22 + 3
3: JohnLord_25
4: StAugustine_30
5: Causa_32
6: Giraffe_26 + 227
7: Jiminy_25 + 74
8: Thora_26 + 15
9: Mana_25
10: Vaishali24_25 + 1
11: Imvubu_20
12: Indiovu_24
13: LilMcDreamy_23
14: Hashim76_30
15: LittleMinkey_31
16: BirdsNest_29
17: Zenteno07_30
18: Phantasmagoria_28 + 16
19: Vic9_00028
20: Sabella_28 + 18
21: Laurie_28
22: Mulaychimus_27 + 35
23: Bernardo_27 + 8
24: Ben11_26 + 7
25: GlenHope_28 + 1
26: Hally898_23 + 9
27: VioletZ_24
28: Nigel_22 + 1
29: QueenPie_23
30: Magpie_23 + 10
31: Stinger_22
32: Frederick_24 + 5
33: Cooper_24
34: Fanaw_23
35: Xincheng_23
36: ChrishMich_23
37: AlanGrant_25 + 1
38: JaguarMI_24
39: Heath_23
40: Rita130_26 + 5
41: Phelemich_26 + 1
42: Serendipitous_25
43: Shenyu_26 + 3
44: Rich_25 + 1
45: DigitDog_26
46: EastView9101_25
47: Mysterious_26 + 1
48: KayaCho_22
49: Minnow_23
50: 40BC_022

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51: Hosp_020
52: ForDig_22
53: Jolie1_022
54: 39HC_022
55: Saguaro_27
56: Thonko_25
57: Rinkes_29
58: Funsized_29
59: Quesadilla_27
60: Knocker_28
61: PenguinLover67_28
62: CRB2_29
63: TraderJ_25 + 1
64: CalB_25
65: BiggityBass_23
66: AksarBAT_23
67: NHagos_23
68: Sisko_23
69: CharlottesWeb_23 + 1
70: AnClar_24 + 1
71: JellyBelly_23
72: Fresco_23 + 3
73: Blackpen_25 + 2
74: LittleMunchkin_25
75: BobRoss2024_22
76: Sour_27
77: MossRose_25
78: Manokan_23
79: Yeshua_25
80: Evaa_24
81: Coldpizza_26
82: FelixTres_25
83: GodPhather_21 + 1
84: Argie_21
85: PR_20 + 1
86: Megabear_20 + 2
87: Pine5_26
88: TPA2_32

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 347065 Report

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

Pham number 347065 has 542 members, 65 are drafts.

Phages represented in each track:
• Track 1 : Caterpie_24
• Track 2 : Mao1_22, Mask_23, Dori_23, Sejanus_23
• Track 3 : JohnLord_25
• Track 4 : StAugustine_30
• Track 5 : Causa_32
• Track 6 : Giraffe_26, Haimas_26, Serpentine_0026, Banjo_25, Iridoclysis_26, Mikota_26, Nacho_0026, Pops_26, Chunky_26, Adriana_26, Nicole21_26, FremontTroll_25, Hetaeria_26, Kimbrough_26, Lumine_25, Potter_25, Oosterbaan_26, Septica_25, Selr12_26, Burr_25, Inchworm_26, Matalotodo_26, DirtJuice_26, Valjean_26, KingVeVeVe_26, SilverBell_26, Triad_26, Olive_26, UncleHowie_26, Usavi_26, Gyarad_0026, EmpTee_26, Eugenia_26, Mulan_25, Prickles_26, Mcshane_25, Pherdinand_26, LuckyMarjie_25, AngelCake_26, Altwerkus_25, Basato_27, Frankicide_26, Toni_25, Morty_26, EmGer13_25, Thunderbird_25, Boehler_26, KLucky39_26, Cher_25, HenryJackson_25, Buckeye_26, Azuria_25, Gwilliam_26, Pipsqueak_26, SDcharge11_26, Etaye_26, Antonia_25, Gareth_25, Plmatters_26, Newman_26, Waterdiva_26, Kwadwo_25, Schueller_25, Manad_25, Squid_26, RedRaider89_27, Cornobble_25, Freya_25, Olak_25, ABU_26, Hamish_26, TooFast2Furius_27, NiaNia_27, Scoot17C_26, ThreeOh3D2_26, BlackStallion_26, Murdoc_26, Mecca_25, Yoshand_26, LostAndPhound_25, Schadenfreude_25, Haleema_25, MitKao_26, Swish_26, DolOn_27, Lulumae_25, Bishoperium_25, Mutante_25, Serendipity_26, BoogieWoogie_26, Orion_26, Sigman_26, Roy17_26, Lulwa_26, Xavier_25, CheetO_26, Emiris_26, Spartan300_26, Cobra_26, Megatron_26, Bluephacebaby_25, Dingo_26, LeeLot_26, KlimbOn_26, PhrodoBaggins_25, PinheadLarry_26, Beaglebox_25, Sophia_25, Jillium_25, Lopsy_25, Grand2040_25, Chorkpop_26, Mosaic_25, ProfessorX_26, Solosis_25, Jesabah_26, Maru_25, Virapocalypse_26, Crownjwl_26, Roliet_26, Mesmerelda_25, Harvey_26, Kikipoo_26, Telesworld_25, SassyCat97_25, Hertubise_26, Dati_26, QueenBeane_26, DaddyDaniels_26, Childish_25, Fozzie_25, MiniBoss_26, Omniscient_26, Ricotta_25, Badfish_26, Held_26, JangoPhett_26, Lego3393_26, Horchata_26, FleetyMac_26, Nyala_25, Colbert_26, Phareon_26, AbsoluteMadLad_25, Kahve_25, Fang_26, LeiMonet_26, Inverness_26, YouGoGlencoco_26, ShiVal_26, Cosmolli16_25, LemonSlice_26, Chipette_27, DonSanchon_25, Legolas_25, Cannibal_26, HSavage_26, HighStump_25, TallGrassMM_26, Eremos_26, Morgushi_26, IsaacEli_26, Dice_25, Simielle_25, OliverWalter_26, LasagnaCat_26, Carthage_24, Zelda_26, JacAttac_26, MRabcd_25, Riggan_26, Dione_25, Lasso_26, UAch1_26, Mesh1_26, Sheila_26, Samaymay_26, Happabalu_26, Timmi_25, True_25,

Katniss_26, Squiggle_26, TomBombadil_26, FluffyNinja_26, Lehmann_26, Phipps_26, AltPhacts_26, Daffy_26, Craff_26, Kloppinator_26, PhatCats2014_26, Soto_26, DoesntMatter_26, Zaider_27, Piglet_0025, Daka_26, Scrick_26, Roscoe_27, CamL_26, Phunky_26, Phamished_26, Weher20_26, Suffolk_26, FugateOSU_25, Vaticameos_26, SallyH_26, Orfeu_25, GreenChile_26, Podrick_26, FriarPreacher_26, Vista_26, CampRoach_26, Tooj_26, RedMaple_25, Pacifista_25, Riverton_26, Melc17_26, Surely_26, Aelin_25, Jiraiya_25, Tomlarah_26, Placalicious_25, Slatt_26, PG1_26, Chuni_26, Vortex_26, Chah_27, Vivaldi_26
• Track 7 : Jiminy_25, Flake_26, SirBeauregard_25, Larson_27, OneBrain_26, DuchessDung_24, DelRivs_25, Hekos_23, Phleuron_25, Rimu_26, Aleia_26, Caspiboi_25, MrPhizzler_26, Oline_25, Maskar_25, Nathan_26, Derpp_25, Cornbread_25, Magic8_26, TyrionL_25, Zonia_26, Taraxa_26, Ashraf_25, Hocus_25, Trypo_26, OSmaximus_26, Plata_25, Swiphy_26, Doddsville_26, Kiwot_25, Duggie_25, Chute_26, MichaelPhcott_25, Kailash_26, JakeO_25, JDog_25, Pinkman_25, PhrankReynolds_25, MelsMeow_25, Windsor_25, Keitherie_26, ImtiyazSitla_25, Virgeve_25, Mag7_25, Durga_26, Gwennie1_26, HogWash_25, ElvisPhasley_26, Phergie_25, Karn_25, PhenghisKhan_25, Coletti_26, BlacksBerry_25, GeneCoco_26, Soile_26, Iridessa_26, Longacauda_25, Nova1_25, Wallhey_25, BatteryCK_25, Apizium_25, Kwksand96_25, Nehme_25, Brilliant_26, Hartsy_26, Vectra_25, Struggle_25, Salazzle_26, PhatLouie_26, Jbug01_26, Chaelin_25, Khan1_25, Labeouficaum_25, CharlieGBrown_25, Veritas_25
• Track 8 : Thora_26, ShadowBud_26, Megamind20_26, Numberten_26, Andre_26, Charles1_26, Quisquiliae_26, Gophee_26, PallasAthena_25, Puhltonio_26, Skippy_26, Fringe_26, BlueHusk_26, Aonishiki_26, Orwigg_25, Anderson_26
• Track 9 : Mana_25
• Track 10 : Vaishali24_25, Robyn_25
• Track 11 : Imvubu_20
• Track 12 : Indlovu_24
• Track 13 : LilMcDreamy_23
• Track 14 : Hashim76_30
• Track 15 : LittleMinkey_31
• Track 16 : BirdsNest_29
• Track 17 : Zenteno07_30
• Track 18 : Phantasmagoria_28, Allegro_28, LizLemon_28, Godines_28, Kheth_28, Coffee_28, TA17A_29, Kolhan_28, Rhinoforte_28, Opia_28, Lars_28, Bananafish_28, Boyle_28, Holeinone_28, Blocker23_28, Qyrzula_26, ItsyBitsy1_28
• Track 19 : Vic9_00028
• Track 20 : Sabella_28, Faze9_28, Brownie5_28, Rosebush_28, Kaleb_28, West99_28, Calamitous_28, LilSmirk_28, Tinciduntsolum_29, Tres_28, Arbiter_28, MasterPo_28, Eaglehorse_28, Hedgerow_28, PrinceCharming_28, Glass_28, Ares_28, Lephleur_28, FrenchFry_28
• Track 21 : Laurie_28
• Track 22 : Mulaychimus_27, Casbah_26, Baloo_27, Briakila_27, SwainyDoc_27, TinyTerror_27, LestyG_27, Yinz_27, MmasiCarm_27, Chalmers_27, RagingRooster_27, RomaT_27, Audrey_27, Phaedrus_25, ChaChing_27, Athena_28, Glubnar_28, Corofin_27, Phayeta_27, Tydolla_27, HarveySr_27, Marley1013_27, Daisy_27, Devonte_27, Philly_26, Gervas_27, Halfpint_26, OrangeOswald_27, Abinghost_27, Deenasa_27, Nozo_27, Obutu_27, Morty007_27, Mortcellus_26, SynergyX_27, Kamiyu_27
• Track 23 : Bernardo_27, Phlyer_27, Neos5_27, Heathcliff_27, Yahalom_27, Akoma_27, Gadjet_28, Shenandoah_27, Pipefish_27
• Track 24 : Ben11_26, Olivio_26, Marlia_27, Chandler_27, Chentzyk_26, SlippinJimmy_27, Rita1961_27, Compostia_28

• Track 25 : GlenHope_28, Kronus_26
• Track 26 : Hally898_23, Antihero_23, Renkei_23, Ahwei_23, Poster_23, Lambano_23, Epah_23, GinPorsche_23, LittleDigger_23, Nanao_23
• Track 27 : VioletZ_24
• Track 28 : Nigel_22, JAMaL_24
• Track 29 : QueenPie_23
• Track 30 : Magpie_23, Hangman_24, Waleliano_24, BrownCNA_25, Mudslide_24, Mithril_24, Hydro_24, Lolalove_24, JoyceMaria_24, Zemanar_25, Austelle_25
• Track 31 : Stinger_22
• Track 32 : Frederick_24, RawrgerThat_24, Prince_24, Fortunato_24, Apex_24, BobbyK_24
• Track 33 : Cooper_24
• Track 34 : Fanaw_23
• Track 35 : Xincheng_23
• Track 36 : ChrisnMich_23
• Track 37 : AlanGrant_25, Vincenzo_25
• Track 38 : JaguarMi_24
• Track 39 : Heath_23
• Track 40 : Rita130_26, Reccee_26, Acadian_26, Donny_26, Suigeneris_26, SirJeffery_26
• Track 41 : Phelemich_26, Nehemiah_25
• Track 42 : Serendipitous_25
• Track 43 : Shenyu_26, KarasumaRum_28, Nangang_26, StinkyVeggy_28
• Track 44 : Rich_25, Baee_25
• Track 45 : DigitDog_26
• Track 46 : EastView9101_25
• Track 47 : Mysterious_26, Reprobate_26
• Track 48 : KayaCho_22
• Track 49 : Minnow_23
• Track 50 : 40BC_022
• Track 51 : Hosp_020
• Track 52 : ForDig_22
• Track 53 : Jolie1_022
• Track 54 : 39HC_022
• Track 55 : Saguaro_27
• Track 56 : Thonko_25
• Track 57 : Rinkes_29
• Track 58 : Funsized_29
• Track 59 : Quesadilla_27
• Track 60 : Knocker_28
• Track 61 : PenguinLover67_28
• Track 62 : CRB2_29
• Track 63 : TraderJ_25, Wooper_25
• Track 64 : CaiB_25
• Track 65 : BiggityBass_23
• Track 66 : AksarBAT_23
• Track 67 : NHagos_23
• Track 68 : Sisko_23
• Track 69 : CharlottesWeb_23, Coco2012_23
• Track 70 : AnClar_24, Yago84_23
• Track 71 : JellyBelly_23
• Track 72 : Fresco_23, Axumite_23, Shatter_23, Ligma_23
• Track 73 : Blackpen_25, MakoManhole_25, AnarQue_25

• Track 74 : LittleMunchkin_25
• Track 75 : BobRoss2024_22
• Track 76 : Sour_27
• Track 77 : MossRose_25
• Track 78 : Mariokart_23
• Track 79 : Yeshua_25
• Track 80 : Evaa_24
• Track 81 : Coldpizza_26
• Track 82 : FelixTres_25
• Track 83 : GodPhather_21, Jeon_20
• Track 84 : Argie_21
• Track 85 : PR_20, D12_20
• Track 86 : Megabear_20, Taptic_20, Cepens_20
• Track 87 : Pine5_26
• Track 88 : TPA2_32

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

The start number called the most often in the published annotations is 41, it was called in 311 of the 477 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• ABU_26, AbsoluteMadLad_25, Acadian_26, Adriana_26, Aelin_25, Aleia_26, AltPhacts_26, Altwerkus_25, Anderson_26, Andre_26, AngelCake_26, Antonia_25, Aonishiki_26, Apizium_25, Ashraf_25, Azuria_25, Badfish_26, Baee_25, Banjo_25, Basato_27, BatteryCK_25, Beaglebox_25, Bishoperium_25, BlackStallion_26, BlacksBerry_25, BlueHusk_26, Bluephacebaby_25, Boehler_26, BoogieWoogie_26, Brilliant_26, Buckeye_26, Burr_25, CamL_26, CampRoach_26, Cannibal_26, Carthage_24, Caspiboi_25, Chaelin_25, Chah_27, Charles1_26, CharlieGBrown_25, CheetO_26, Cher_25, Childish_25, Chipette_27, Chorkpop_26, Chuni_26, Chunky_26, Chute_26, Cobra_26, Colbert_26, Coletti_26, Cornbread_25, Cornobble_25, Cosmolli16_25, Craff_26, Crownjwl_26, DaddyDaniels_26, Daffy_26, Daka_26, Dati_26, DelRivs_25, Derpp_25, Dice_25, DigitDog_26, Dingo_26, Dione_25, DirtJuice_26, Doddsville_26, DoesntMatter_26, DolOn_27, DonSanchon_25, Donny_26, Dori_23, DuchessDung_24, Duggie_25, Durga_26, EastView9101_25, ElvisPhasley_26, EmGer13_25, Emiris_26, EmpTee_26, Eremos_26, Etaye_26, Eugenia_26, Fang_26, Flake_26, FleetyMac_26, FluffyNinja_26, Fozzie_25, Frankicide_26, FremontTroll_25, Freya_25, FriarPreacher_26, Fringe_26, FugateOSU_25, Gareth_25, GeneCoco_26, Giraffe_26, Gophee_26, Grand2040_25, GreenChile_26, Gwennie1_26, Gwilliam_26, Gyarad_0026, HSavage_26, Haimas_26, Haleema_25, Hamish_26, Happabalu_26, Hartsy_26, Harvey_26, Hekos_23, Held_26, HenryJackson_25, Hertubise_26, Hetaeria_26, HighStump_25, Hocus_25, HogWash_25, Horchata_26, ImtiyazSitla_25, Inchworm_26, Inverness_26, Iridessa_26, Iridoclysis_26, IsaacEli_26, JDog_25, JacAttac_26, JakeO_25, JangoPhett_26, Jbug01_26, Jesabah_26, Jillium_25, Jiminy_25, Jiraiya_25, JohnLord_25, KLucky39_26, Kahve_25, Kailash_26, KarasumaRum_28, Karn_25, Katniss_26, Keitherie_26, Khan1_25, Kikipoo_26, Kimbrough_26, KingVeVeVe_26, Kiwot_25, KlimbOn_26, Kloppinator_26, Kwadwo_25, Kwksand96_25, Labeouficaum_25, Larson_27, LasagnaCat_26, Lasso_26, LeeLot_26, Lego3393_26, Legolas_25, Lehmann_26,

LeiMonet_26, LemonSlice_26, LilMcDreamy_23, Longacauda_25, Lopsy_25, LostAndPhound_25, LuckyMarjie_25, Lulumae_25, Lulwa_26, Lumine_25, MRabcd_25, Mag7_25, Magic8_26, Mana_25, Manad_25, Mao1_22, Maru_25, Mask_23, Maskar_25, Matalotodo_26, Mcshane_25, Mecca_25, Megamind20_26, Megatron_26, Melc17_26, MelsMeow_25, Mesh1_26, Mesmerelda_25, MichaelPhcott_25, Mikota_26, MiniBoss_26, MitKao_26, Morgushi_26, Morty_26, Mosaic_25, MrPhizzler_26, Mulan_25, Murdoc_26, Mutante_25, Nacho_0026, Nangang_26, Nathan_26, Nehemiah_25, Nehme_25, Newman_26, NiaNia_27, Nicole21_26, Nova1_25, Numberten_26, Nyala_25, OSmaximus_26, Olak_25, Oline_25, Olive_26, OliverWalter_26, Omniscient_26, OneBrain_26, Oosterbaan_26, Orfeu_25, Orion_26, Orwigg_25, PG1_26, Pacifista_25, PallasAthena_25, PenguinLover67_28, Phamished_26, Phareon_26, PhatCats2014_26, PhatLouie_26, Phelemich_26, PhenghisKhan_25, Pherdinand_26, Phergie_25, Phipps_26, Phleuron_25, PhrankReynolds_25, PhrodoBaggins_25, Phunky_26, Piglet_0025, PinheadLarry_26, Pinkman_25, Pipsqueak_26, Placalicious_25, Plata_25, Plmatters_26, Podrick_26, Pops_26, Potter_25, Prickles_26, ProfessorX_26, Puhltonio_26, QueenBeane_26, Quisquiliae_26, Reccee_26, RedMaple_25, RedRaider89_27, Rich_25, Ricotta_25, Riggan_26, Rimu_26, Rita130_26, Riverton_26, Robyn_25, Roliet_26, Roscoe_27, Roy17_26, SDcharge11_26, Salazzle_26, SallyH_26, Samaymay_26, SassyCat97_25, Schadenfreude_25, Schueller_25, Scoot17C_26, Scrick_26, Sejanus_23, Selr12_26, Septica_25, Serendipitous_25, Serendipity_26, Serpentine_0026, ShadowBud_26, Sheila_26, Shenyu_26, ShiVal_26, Sigman_26, SilverBell_26, Simielle_25, SirBeauregard_25, SirJeffery_26, Skippy_26, Slatt_26, Soile_26, Solosis_25, Sophia_25, Soto_26, Spartan300_26, Squid_26, Squiggle_26, StinkyVeggy_28, Struggle_25, Suffolk_26, Suigeneris_26, Surely_26, Swiphy_26, Swish_26, TallGrassMM_26, Taraxa_26, Telesworld_25, Thora_26, ThreeOh3D2_26, Thunderbird_25, Timmi_25, TomBombadil_26, Tomlarah_26, Toni_25, TooFast2Furius_27, Tooj_26, Triad_26, True_25, Trypo_26, TyrionL_25, UAch1_26, UncleHowie_26, Usavi_26, Vaishali24_25, Valjean_26, Vaticameos_26, Vectra_25, Veritas_25, Virapocalypse_26, Virgeve_25, Vista_26, Vivaldi_26, Vortex_26, Wallhey_25, Waterdiva_26, Weher20_26, Windsor_25, Xavier_25, Yoshand_26, YouGoGlencoco_26, Zaider_27, Zelda_26, Zonia_26,

Genes that have the "Most Annotated" start but do not call it:
• Caterpie_24, Mysterious_26, Reprobate_26,

Genes that do not have the "Most Annotated" start:
• 39HC_022, 40BC_022, Abinghost_27, Ahwei_23, Akoma_27, AksarBAT_23, AlanGrant_25, Allegro_28, AnClar_24, AnarQue_25, Antihero_23, Apex_24, Arbiter_28, Ares_28, Argie_21, Athena_28, Audrey_27, Austelle_25, Axumite_23, Baloo_27, Bananafish_28, Ben11_26, Bernardo_27, BiggityBass_23, BirdsNest_29, Blackpen_25, Blocker23_28, BobRoss2024_22, BobbyK_24, Boyle_28, Briakila_27, BrownCNA_25, Brownie5_28, CRB2_29, CaiB_25, Calamitous_28, Casbah_26, Causa_32, Cepens_20, ChaChing_27, Chalmers_27, Chandler_27, CharlottesWeb_23, Chentzyk_26, ChrisnMich_23, Coco2012_23, Coffee_28, Coldpizza_26, Compostia_28, Cooper_24, Corofin_27, D12_20, Daisy_27, Deenasa_27, Devonte_27, Eaglehorse_28, Epah_23, Evaa_24, Fanaw_23, Faze9_28, FelixTres_25, ForDig_22, Fortunato_24, Frederick_24, FrenchFry_28, Fresco_23, Funsized_29, Gadjet_28, Gervas_27, GinPorsche_23, Glass_28, GlenHope_28, Glubnar_28, GodPhather_21, Godines_28, Halfpint_26, Hally898_23, Hangman_24, HarveySr_27, Hashim76_30, Heath_23, Heathcliff_27, Hedgerow_28, Holeinone_28, Hosp_020, Hydro_24, Imvubu_20, Indlovu_24, ItsyBitsy1_28,

JAMaL_24, JaguarMi_24, JellyBelly_23, Jeon_20, Jolie1_022, JoyceMaria_24, Kaleb_28, Kamiyu_27, KayaCho_22, Kheth_28, Knocker_28, Kolhan_28, Kronus_26, Lambano_23, Lars_28, Laurie_28, Lephleur_28, LestyG_27, Ligma_23, LilSmirk_28, LittleDigger_23, LittleMinkey_31, LittleMunchkin_25, LizLemon_28, Lolalove_24, Magpie_23, MakoManhole_25, Mariokart_23, Marley1013_27, Marlia_27, MasterPo_28, Megabear_20, Minnow_23, Mithril_24, MmasiCarm_27, Mortcellus_26, Morty007_27, MossRose_25, Mudslide_24, Mulaychimus_27, NHagos_23, Nanao_23, Neos5_27, Nigel_22, Nozo_27, Obutu_27, Olivio_26, Opia_28, OrangeOswald_27, PR_20, Phaedrus_25, Phantasmagoria_28, Phayeta_27, Philly_26, Phlyer_27, Pine5_26, Pipefish_27, Poster_23, PrinceCharming_28, Prince_24, QueenPie_23, Quesadilla_27, Qyrzula_26, RagingRooster_27, RawrgerThat_24, Renkei_23, Rhinoforte_28, Rinkes_29, Rita1961_27, RomaT_27, Rosebush_28, Sabella_28, Saguaro_27, Shatter_23, Shenandoah_27, Sisko_23, SlippinJimmy_27, Sour_27, StAugustine_30, Stinger_22, SwainyDoc_27, SynergyX_27, TA17A_29, TPA2_32, Taptic_20, Thonko_25, Tinciduntsolum_29, TinyTerror_27, TraderJ_25, Tres_28, Tydolla_27, Vic9_00028, Vincenzo_25, VioletZ_24, Waleliano_24, West99_28, Wooper_25, Xincheng_23, Yago84_23, Yahalom_27, Yeshua_25, Yinz_27, Zemanar_25, Zenteno07_30,

Summary by start number:

Start 9:
• Found in 1 of 542 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 477
• Called 100.0% of time when present
• Phage (with cluster) where this start called: KayaCho_22 (B6),

Start 12:
• Found in 4 of 542 (0.7%) of genes in pham
• No Manual Annotations of this start.
• Called 25.0% of time when present
• Phage (with cluster) where this start called: 39HC_022 (B6),

Start 16:
• Found in 1 of 542 (0.2%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Jolie1_022 (B6),

Start 21:
• Found in 10 of 542 (1.8%) of genes in pham
• Manual Annotations of this start: 4 of 477
• Called 70.0% of time when present
• Phage (with cluster) where this start called: 40BC_022 (B6), CRB2_29 (B9), ForDig_22 (B6), Hosp_020 (B6), Minnow_23 (B6), Quesadilla_27 (B9), Saguaro_27 (B7),

Start 22:
• Found in 2 of 542 (0.4%) of genes in pham
• Manual Annotations of this start: 1 of 477
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Zenteno07_30 (B13),

Start 24:
• Found in 1 of 542 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 477
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Stinger_22 (B4),

Start 26:
• Found in 2 of 542 (0.4%) of genes in pham
• Manual Annotations of this start: 2 of 477
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Causa_32 (AI), StAugustine_30 (AI),

Start 28:
• Found in 4 of 542 (0.7%) of genes in pham
• Manual Annotations of this start: 2 of 477
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Mysterious_26 (B5), Reprobate_26 (B5),

Start 30:
• Found in 6 of 542 (1.1%) of genes in pham
• Manual Annotations of this start: 2 of 477
• Called 50.0% of time when present
• Phage (with cluster) where this start called: BirdsNest_29 (B13), Hashim76_30 (B13), LittleMinkey_31 (B13),

Start 31:
• Found in 7 of 542 (1.3%) of genes in pham
• Manual Annotations of this start: 1 of 477
• Called 14.3% of time when present
• Phage (with cluster) where this start called: Thonko_25 (B8),

Start 35:
• Found in 1 of 542 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 477
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Rinkes_29 (B9),

Start 36:
• Found in 40 of 542 (7.4%) of genes in pham
• Manual Annotations of this start: 28 of 477
• Called 97.5% of time when present
• Phage (with cluster) where this start called: Ahwei_23 (B4), AlanGrant_25 (B4), Antihero_23 (B4), Apex_24 (B4), Austelle_25 (B4), BobbyK_24 (B4), BrownCNA_25 (B4), ChrisnMich_23 (B4), Cooper_24 (B4), Epah_23 (B4), Fanaw_23 (B4), Fortunato_24 (B4), Frederick_24 (B4), GinPorsche_23 (B4), Hally898_23 (B4), Hangman_24 (B4), Heath_23 (B4), Hydro_24 (B4), JAMaL_24 (B4), JaguarMi_24 (B4), JoyceMaria_24 (B4), Lambano_23 (B4), LittleDigger_23 (B4), Lolalove_24 (B4), Magpie_23 (B4), Mithril_24 (B4), Mudslide_24 (B4), Nanao_23 (B4), Nigel_22 (B4), Poster_23 (B4), Prince_24 (B4), QueenPie_23 (B4), RawrgerThat_24 (B4), Renkei_23 (B4), Vincenzo_25 (B4), VioletZ_24 (B4), Waleliano_24 (B4), Xincheng_23 (B4), Zemanar_25 (B4),

Start 37:

• Found in 3 of 542 (0.6%) of genes in pham
• Manual Annotations of this start: 2 of 477
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Imvubu_20 (B10), Knocker_28 (B9),

Start 38:
• Found in 3 of 542 (0.6%) of genes in pham
• Manual Annotations of this start: 1 of 477
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Caterpie_24 (AD), Indlovu_24 (B11),

Start 40:
• Found in 2 of 542 (0.4%) of genes in pham
• Manual Annotations of this start: 1 of 477
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Funsized_29 (B9),

Start 41:
• Found in 349 of 542 (64.4%) of genes in pham
• Manual Annotations of this start: 311 of 477
• Called 99.1% of time when present
• Phage (with cluster) where this start called: ABU_26 (B1), AbsoluteMadLad_25 (B1), Acadian_26 (B5), Adriana_26 (B1), Aelin_25 (B1), Aleia_26 (B1), AltPhacts_26 (B1), Altwerkus_25 (B1), Anderson_26 (B1), Andre_26 (B1), AngelCake_26 (B1), Antonia_25 (B1), Aonishiki_26 (B1), Apizium_25 (B1), Ashraf_25 (B1), Azuria_25 (B1), Badfish_26 (B1), Baee_25 (B5), Banjo_25 (B1), Basato_27 (B1), BatteryCK_25 (B1), Beaglebox_25 (B1), Bishoperium_25 (B1), BlackStallion_26 (B1), BlacksBerry_25 (B1), BlueHusk_26 (B1), Bluephacebaby_25 (B1), Boehler_26 (B1), BoogieWoogie_26 (B1), Brilliant_26 (B1), Buckeye_26 (B1), Burr_25 (B1), CamL_26 (B1), CampRoach_26 (B1), Cannibal_26 (B1), Carthage_24 (B1), Caspiboi_25 (B1), Chaelin_25 (B1), Chah_27 (B1), Charles1_26 (B1), CharlieGBrown_25 (B1), CheetO_26 (B1), Cher_25 (B1), Childish_25 (B1), Chipette_27 (B1), Chorkpop_26 (B1), Chuni_26 (B1), Chunky_26 (B1), Chute_26 (B1), Cobra_26 (B1), Colbert_26 (B1), Coletti_26 (B1), Cornbread_25 (B1), Cornobble_25 (B1), Cosmolli16_25 (B1), Craff_26 (B1), Crownjwl_26 (B1), DaddyDaniels_26 (B1), Daffy_26 (B1), Daka_26 (B1), Dati_26 (B1), DelRivs_25 (B1), Derpp_25 (B1), Dice_25 (B1), DigitDog_26 (B5), Dingo_26 (B1), Dione_25 (B1), DirtJuice_26 (B1), Doddsville_26 (B1), DoesntMatter_26 (B1), DolOn_27 (B1), DonSanchon_25 (B1), Donny_26 (B5), Dori_23 (AD), DuchessDung_24 (B1), Duggie_25 (B1), Durga_26 (B1), EastView9101_25 (B5), ElvisPhasley_26 (B1), EmGer13_25 (B1), Emiris_26 (B1), EmpTee_26 (B1), Eremos_26 (B1), Etaye_26 (B1), Eugenia_26 (B1), Fang_26 (B1), Flake_26 (B1), FleetyMac_26 (B1), FluffyNinja_26 (B1), Fozzie_25 (B1), Frankicide_26 (B1), FremontTroll_25 (B1), Freya_25 (B1), FriarPreacher_26 (B1), Fringe_26 (B1), FugateOSU_25 (B1), Gareth_25 (B1), GeneCoco_26 (B1), Giraffe_26 (B1), Gophee_26 (B1), Grand2040_25 (B1), GreenChile_26 (B1), Gwennie1_26 (B1), Gwilliam_26 (B1), Gyarad_0026 (B1), HSavage_26 (B1), Haimas_26 (B1), Haleema_25 (B1), Hamish_26 (B1), Happabalu_26 (B1), Hartsy_26 (B1), Harvey_26 (B1), Hekos_23 (B1), Held_26 (B1), HenryJackson_25 (B1), Hertubise_26 (B1), Hetaeria_26 (B1), HighStump_25 (B1), Hocus_25 (B1), HogWash_25 (B1), Horchata_26 (B1), ImtiyazSitla_25 (B1), Inchworm_26 (B1), Inverness_26 (B1), Iridessa_26 (B1), Iridoclysis_26 (B1), IsaacEli_26 (B1), JDog_25 (B1), JacAttac_26 (B1), JakeO_25 (B1), JangoPhett_26 (B1), Jbug01_26 (B1), Jesabah_26 (B1), Jillium_25 (B1), Jiminy_25 (B1), Jiraiya_25 (B1), JohnLord_25

(AD), KLucky39_26 (B1), Kahve_25 (B1), Kailash_26 (B1), KarasumaRum_28 (B5), Karn_25 (B1), Katniss_26 (B1), Keitherie_26 (B1), Khan1_25 (B1), Kikipoo_26 (B1), Kimbrough_26 (B1), KingVeVeVe_26 (B1), Kiwot_25 (B1), KlimbOn_26 (B1), Kloppinator_26 (B1), Kwadwo_25 (B1), Kwksand96_25 (B1), Labeouficaum_25 (B1), Larson_27 (B1), LasagnaCat_26 (B1), Lasso_26 (B1), LeeLot_26 (B1), Lego3393_26 (B1), Legolas_25 (B1), Lehmann_26 (B1), LeiMonet_26 (B1), LemonSlice_26 (B1), LilMcDreamy_23 (B12), Longacauda_25 (B1), Lopsy_25 (B1), LostAndPhound_25 (B1), LuckyMarjie_25 (B1), Lulumae_25 (B1), Lulwa_26 (B1), Lumine_25 (B1), MRabcd_25 (B1), Mag7_25 (B1), Magic8_26 (B1), Mana_25 (B1), Manad_25 (B1), Mao1_22 (AD), Maru_25 (B1), Mask_23 (AD), Maskar_25 (B1), Matalotodo_26 (B1), Mcshane_25 (B1), Mecca_25 (B1), Megamind20_26 (B1), Megatron_26 (B1), Melc17_26 (B1), MelsMeow_25 (B1), Mesh1_26 (B1), Mesmerelda_25 (B1), MichaelPhcott_25 (B1), Mikota_26 (B1), MiniBoss_26 (B1), MitKao_26 (B1), Morgushi_26 (B1), Morty_26 (B1), Mosaic_25 (B1), MrPhizzler_26 (B1), Mulan_25 (B1), Murdoc_26 (B1), Mutante_25 (B1), Nacho_0026 (B1), Nangang_26 (B5), Nathan_26 (B1), Nehemiah_25 (B5), Nehme_25 (B1), Newman_26 (B1), NiaNia_27 (B1), Nicole21_26 (B1), Nova1_25 (B1), Numberten_26 (B1), Nyala_25 (B1), OSmaximus_26 (B1), Olak_25 (B1), Oline_25 (B1), Olive_26 (B1), OliverWalter_26 (B1), Omniscient_26 (B1), OneBrain_26 (B1), Oosterbaan_26 (B1), Orfeu_25 (B1), Orion_26 (B1), Orwigg_25 (B1), PG1_26 (B1), Pacifista_25 (B1), PallasAthena_25 (B1), PenguinLover67_28 (B9), Phamished_26 (B1), Phareon_26 (B1), PhatCats2014_26 (B1), PhatLouie_26 (B1), Phelemich_26 (B5), PhenghisKhan_25 (B1), Pherdinand_26 (B1), Phergie_25 (B1), Phipps_26 (B1), Phleuron_25 (B1), PhrankReynolds_25 (B1), PhrodoBaggins_25 (B1), Phunky_26 (B1), Piglet_0025 (B1), PinheadLarry_26 (B1), Pinkman_25 (B1), Pipsqueak_26 (B1), Placalicious_25 (B1), Plata_25 (B1), Plmatters_26 (B1), Podrick_26 (B1), Pops_26 (B1), Potter_25 (B1), Prickles_26 (B1), ProfessorX_26 (B1), Puhltonio_26 (B1), QueenBeane_26 (B1), Quisquiliae_26 (B1), Reccee_26 (B5), RedMaple_25 (B1), RedRaider89_27 (B1), Rich_25 (B5), Ricotta_25 (B1), Riggan_26 (B1), Rimu_26 (B1), Rita130_26 (B5), Riverton_26 (B1), Robyn_25 (B1), Roliet_26 (B1), Roscoe_27 (B1), Roy17_26 (B1), SDcharge11_26 (B1), Salazzle_26 (B1), SallyH_26 (B1), Samaymay_26 (B1), SassyCat97_25 (B1), Schadenfreude_25 (B1), Schueller_25 (B1), Scoot17C_26 (B1), Scrick_26 (B1), Sejanus_23 (AD), Selr12_26 (B1), Septica_25 (B1), Serendipitous_25 (B5), Serendipity_26 (B1), Serpentine_0026 (B1), ShadowBud_26 (B1), Sheila_26 (B1), Shenyu_26 (B5), ShiVal_26 (B1), Sigman_26 (B1), SilverBell_26 (B1), Simielle_25 (B1), SirBeauregard_25 (B1), SirJeffery_26 (B5), Skippy_26 (B1), Slatt_26 (B1), Soile_26 (B1), Solosis_25 (B1), Sophia_25 (B1), Soto_26 (B1), Spartan300_26 (B1), Squid_26 (B1), Squiggle_26 (B1), StinkyVeggy_28 (B5), Struggle_25 (B1), Suffolk_26 (B1), Suigeneris_26 (B5), Surely_26 (B1), Swiphy_26 (B1), Swish_26 (B1), TallGrassMM_26 (B1), Taraxa_26 (B1), Telesworld_25 (B1), Thora_26 (B1), ThreeOh3D2_26 (B1), Thunderbird_25 (B1), Timmi_25 (B1), TomBombadil_26 (B1), Tomlarah_26 (B1), Toni_25 (B1), TooFast2Furius_27 (B1), Tooj_26 (B1), Triad_26 (B1), True_25 (B1), Trypo_26 (B1), TyrionL_25 (B1), UAch1_26 (B1), UncleHowie_26 (B1), Usavi_26 (B1), Vaishali24_25 (B1), Valjean_26 (B1), Vaticameos_26 (B1), Vectra_25 (B1), Veritas_25 (B1), Virapocalypse_26 (B1), Virgeve_25 (B1), Vista_26 (B1), Vivaldi_26 (B1), Vortex_26 (B1), Wallhey_25 (B1), Waterdiva_26 (B1), Weher20_26 (B1), Windsor_25 (B1), Xavier_25 (B1), Yoshand_26 (B1), YouGoGlencoco_26 (B1), Zaider_27 (B1), Zelda_26 (B1), Zonia_26 (B1),

Start 46:
• Found in 55 of 542 (10.1%) of genes in pham
• Manual Annotations of this start: 45 of 477

• Called 81.8% of time when present
• Phage (with cluster) where this start called: Abinghost_27 (B3), Akoma_27 (B3), Athena_28 (B3), Audrey_27 (B3), Baloo_27 (B3), Bernardo_27 (B3), Briakila_27 (B3), Casbah_26 (B3), ChaChing_27 (B3), Chalmers_27 (B3), Corofin_27 (B3), Daisy_27 (B3), Deenasa_27 (B3), Devonte_27 (B3), Gadjet_28 (B3), Gervas_27 (B3), Glubnar_28 (B3), Halfpint_26 (B3), HarveySr_27 (B3), Heathcliff_27 (B3), Kamiyu_27 (B3), LestyG_27 (B3), Marley1013_27 (B3), MmasiCarm_27 (B3), Mortcellus_26 (B3), Morty007_27 (B3), Mulaychimus_27 (B3), Neos5_27 (B3), Nozo_27 (B3), Obutu_27 (B3), OrangeOswald_27 (B3), Phaedrus_25 (B3), Phayeta_27 (B3), Philly_26 (B3), Phlyer_27 (B3), Pipefish_27 (B3), RagingRooster_27 (B3), RomaT_27 (B3), Shenandoah_27 (B3), SwainyDoc_27 (B3), SynergyX_27 (B3), TinyTerror_27 (B3), Tydolla_27 (B3), Yahalom_27 (B3), Yinz_27 (B3),

Start 50:
• Found in 9 of 542 (1.7%) of genes in pham
• Manual Annotations of this start: 4 of 477
• Called 44.4% of time when present
• Phage (with cluster) where this start called: CaiB_25 (DR), FelixTres_25 (DR), MossRose_25 (DR), Yeshua_25 (DR),

Start 57:
• Found in 100 of 542 (18.5%) of genes in pham
• Manual Annotations of this start: 41 of 477
• Called 50.0% of time when present
• Phage (with cluster) where this start called: AksarBAT_23 (DR), Allegro_28 (B2), AnClar_24 (DR), AnarQue_25 (DR), Axumite_23 (DR), Bananafish_28 (B2), Ben11_26 (B3), BiggityBass_23 (DR), Blackpen_25 (DR), Blocker23_28 (B2), BobRoss2024_22 (DR), Boyle_28 (B2), Chandler_27 (B3), CharlottesWeb_23 (DR), Chentzyk_26 (B3), Coco2012_23 (DR), Coffee_28 (B2), Compostia_28 (B3), Fresco_23 (DR), GlenHope_28 (B3), Godines_28 (B2), Holeinone_28 (B2), ItsyBitsy1_28 (B2), JellyBelly_23 (DR), Kheth_28 (B2), Kolhan_28 (B2), Kronus_26 (B3), Lars_28 (B2), Laurie_28 (B2), Ligma_23 (DR), LittleMunchkin_25 (DR), LizLemon_28 (B2), MakoManhole_25 (DR), Mariokart_23 (DR), Marlia_27 (B3), NHagos_23 (DR), Olivio_26 (B3), Opia_28 (B2), Phantasmagoria_28 (B2), Qyrzula_26 (B2), Rhinoforte_28 (B2), Rita1961_27 (B3), Shatter_23 (DR), Sisko_23 (DR), SlippinJimmy_27 (B3), Sour_27 (DR), TA17A_29 (B2), TraderJ_25 (DR), Wooper_25 (DR), Yago84_23 (DR),

Start 58:
• Found in 19 of 542 (3.5%) of genes in pham
• Manual Annotations of this start: 18 of 477
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Arbiter_28 (B2), Ares_28 (B2), Brownie5_28 (B2), Calamitous_28 (B2), Eaglehorse_28 (B2), Faze9_28 (B2), FrenchFry_28 (B2), Glass_28 (B2), Hedgerow_28 (B2), Kaleb_28 (B2), Lephleur_28 (B2), LilSmirk_28 (B2), MasterPo_28 (B2), PrinceCharming_28 (B2), Rosebush_28 (B2), Sabella_28 (B2), Tinciduntsolum_29 (B2), Tres_28 (B2), West99_28 (B2),

Start 59:
• Found in 2 of 542 (0.4%) of genes in pham
• Manual Annotations of this start: 2 of 477
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Coldpizza_26 (DR), Evaa_24 (DR),

Start 62:
• Found in 8 of 542 (1.5%) of genes in pham
• Manual Annotations of this start: 6 of 477
• Called 75.0% of time when present
• Phage (with cluster) where this start called: Argie_21 (W), Cepens_20 (W), GodPhather_21 (W), Jeon_20 (W), Megabear_20 (W), Taptic_20 (W),

Start 68:
• Found in 2 of 542 (0.4%) of genes in pham
• Manual Annotations of this start: 1 of 477
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Vic9_00028 (B2),

Start 73:
• Found in 1 of 542 (0.2%) 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_32 (singleton),

Start 74:
• Found in 1 of 542 (0.2%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Pine5_26 (singleton),

Start 100:
• Found in 330 of 542 (60.9%) of genes in pham
• Manual Annotations of this start: 2 of 477
• Called 0.6% of time when present
• Phage (with cluster) where this start called: D12_20 (W), PR_20 (W),

Summary by clusters:

There are 18 clusters represented in this pham: singleton, AD, B10, AI, B8, B11, B2, B4, B5, B6, B7, B12, B1, W, B3, DR, B9, B13,

Info for manual annotations of cluster AD:
•Start number 41 was manually annotated 4 times for cluster AD.

Info for manual annotations of cluster AI:
•Start number 26 was manually annotated 2 times for cluster AI.

Info for manual annotations of cluster B1:
•Start number 41 was manually annotated 296 times for cluster B1.

Info for manual annotations of cluster B10:
•Start number 37 was manually annotated 1 time for cluster B10.

Info for manual annotations of cluster B11:
•Start number 38 was manually annotated 1 time for cluster B11.

Info for manual annotations of cluster B12:

•Start number 41 was manually annotated 1 time for cluster B12.

Info for manual annotations of cluster B13:
•Start number 22 was manually annotated 1 time for cluster B13.
•Start number 30 was manually annotated 2 times for cluster B13.

Info for manual annotations of cluster B2:
•Start number 57 was manually annotated 18 times for cluster B2.
•Start number 58 was manually annotated 18 times for cluster B2.
•Start number 68 was manually annotated 1 time for cluster B2.

Info for manual annotations of cluster B3:
•Start number 46 was manually annotated 45 times for cluster B3.
•Start number 57 was manually annotated 7 times for cluster B3.

Info for manual annotations of cluster B4:
•Start number 24 was manually annotated 1 time for cluster B4.
•Start number 36 was manually annotated 28 times for cluster B4.

Info for manual annotations of cluster B5:
•Start number 28 was manually annotated 2 times for cluster B5.
•Start number 41 was manually annotated 9 times for cluster B5.

Info for manual annotations of cluster B6:
•Start number 9 was manually annotated 1 time for cluster B6.
•Start number 21 was manually annotated 1 time for cluster B6.

Info for manual annotations of cluster B7:
•Start number 21 was manually annotated 1 time for cluster B7.

Info for manual annotations of cluster B8:
•Start number 31 was manually annotated 1 time for cluster B8.

Info for manual annotations of cluster B9:
•Start number 21 was manually annotated 2 times for cluster B9.
•Start number 35 was manually annotated 1 time for cluster B9.
•Start number 37 was manually annotated 1 time for cluster B9.
•Start number 40 was manually annotated 1 time for cluster B9.
•Start number 41 was manually annotated 1 time for cluster B9.

Info for manual annotations of cluster DR:
•Start number 50 was manually annotated 4 times for cluster DR.
•Start number 57 was manually annotated 16 times for cluster DR.
•Start number 59 was manually annotated 2 times for cluster DR.

Info for manual annotations of cluster W:
•Start number 62 was manually annotated 6 times for cluster W.
•Start number 100 was manually annotated 2 times for cluster W.

Gene Information:

Gene: 39HC_022 Start: 18307, Stop: 19038, Start Num: 12
Candidate Starts for 39HC_022:
(12, 18307), (17, 18340), (Start: 21 @18370 has 4 MA's), (25, 18397), (51, 18490), (54, 18496), (56, 18514), (81, 18589), (121, 18709), (145, 18865), (151, 18928), (155, 18943), (159, 18979), (162, 19003),

Gene: 40BC_022 Start: 18370, Stop: 19038, Start Num: 21
Candidate Starts for 40BC_022:
(12, 18307), (17, 18340), (Start: 21 @18370 has 4 MA's), (25, 18397), (51, 18490), (54, 18496), (56, 18514), (81, 18589), (121, 18709), (145, 18865), (151, 18928), (155, 18943), (159, 18979), (162, 19003),

Gene: ABU_26 Start: 19142, Stop: 19705, Start Num: 41
Candidate Starts for ABU_26:
(7, 18971), (Start: 41 @19142 has 311 MA's), (Start: 100 @19328 has 2 MA's), (121, 19382), (155, 19613), (162, 19673),

Gene: Abinghost_27 Start: 19776, Stop: 20369, Start Num: 46
Candidate Starts for Abinghost_27:
(Start: 46 @19776 has 45 MA's), (48, 19782), (Start: 57 @19815 has 41 MA's), (142, 20145), (148, 20190), (152, 20235), (155, 20247), (161, 20295),

Gene: AbsoluteMadLad_25 Start: 19143, Stop: 19706, Start Num: 41
Candidate Starts for AbsoluteMadLad_25:
(7, 18972), (Start: 41 @19143 has 311 MA's), (Start: 100 @19329 has 2 MA's), (121, 19383), (155, 19614), (162, 19674),

Gene: Acadian_26 Start: 19859, Stop: 20425, Start Num: 41
Candidate Starts for Acadian_26:
(7, 19685), (Start: 41 @19859 has 311 MA's), (70, 19964), (72, 19967), (103, 20045), (105, 20057), (151, 20303), (155, 20318), (157, 20345), (160, 20363),

Gene: Adriana_26 Start: 19145, Stop: 19705, Start Num: 41
Candidate Starts for Adriana_26:
(7, 18974), (Start: 41 @19145 has 311 MA's), (Start: 100 @19331 has 2 MA's), (121, 19385), (155, 19616), (162, 19676),

Gene: Aelin_25 Start: 18708, Stop: 19268, Start Num: 41
Candidate Starts for Aelin_25:
(7, 18537), (Start: 41 @18708 has 311 MA's), (Start: 100 @18894 has 2 MA's), (121, 18948), (155, 19179), (162, 19239),

Gene: Ahwei_23 Start: 18773, Stop: 19333, Start Num: 36
Candidate Starts for Ahwei_23:
(Start: 36 @18773 has 28 MA's), (83, 18890), (89, 18899), (96, 18935), (97, 18941), (103, 18956), (109, 18974), (121, 19004), (129, 19028), (131, 19046), (143, 19148), (144, 19154), (145, 19160), (151, 19223), (155, 19238), (157, 19265), (159, 19274),

Gene: Akoma_27 Start: 19777, Stop: 20370, Start Num: 46
Candidate Starts for Akoma_27:
(Start: 46 @19777 has 45 MA's), (48, 19783), (Start: 57 @19816 has 41 MA's), (95, 19921), (142, 20146), (148, 20191), (152, 20236), (155, 20248), (161, 20296),

Gene: AksarBAT_23 Start: 17612, Stop: 18112, Start Num: 57
Candidate Starts for AksarBAT_23:
(Start: 57 @17612 has 41 MA's), (64, 17639), (88, 17687), (118, 17744), (121, 17756), (122, 17759), (144, 17897), (147, 17918), (151, 17966), (155, 17981), (161, 18029), (164, 18047), (165, 18053),

Gene: AlanGrant_25 Start: 20564, Stop: 21106, Start Num: 36
Candidate Starts for AlanGrant_25:
(Start: 36 @20564 has 28 MA's), (60, 20627), (92, 20696), (94, 20705), (105, 20738), (108, 20744), (109, 20747), (121, 20777), (143, 20921), (144, 20927), (151, 20996), (155, 21011), (159, 21047),

Gene: Aleia_26 Start: 18721, Stop: 19284, Start Num: 41
Candidate Starts for Aleia_26:
(7, 18550), (Start: 41 @18721 has 311 MA's), (Start: 100 @18907 has 2 MA's), (121, 18961), (135, 19036), (155, 19192), (162, 19252),

Gene: Allegro_28 Start: 21319, Stop: 21804, Start Num: 57
Candidate Starts for Allegro_28:
(Start: 57 @21319 has 41 MA's), (64, 21346), (88, 21388), (119, 21454), (120, 21457), (127, 21475), (132, 21499), (136, 21538), (142, 21583), (143, 21595), (145, 21607), (146, 21619), (150, 21646), (152, 21673), (154, 21682), (155, 21685), (161, 21733), (165, 21757),

Gene: AltPhacts_26 Start: 19137, Stop: 19697, Start Num: 41
Candidate Starts for AltPhacts_26:
(7, 18966), (Start: 41 @19137 has 311 MA's), (Start: 100 @19323 has 2 MA's), (121, 19377), (155, 19608), (162, 19668),

Gene: Altwerkus_25 Start: 18837, Stop: 19397, Start Num: 41
Candidate Starts for Altwerkus_25:
(7, 18666), (Start: 41 @18837 has 311 MA's), (Start: 100 @19023 has 2 MA's), (121, 19077), (155, 19308), (162, 19368),

Gene: AnClar_24 Start: 19894, Stop: 20457, Start Num: 57
Candidate Starts for AnClar_24:
(Start: 57 @19894 has 41 MA's), (83, 19966), (90, 19978), (101, 20026), (103, 20035), (143, 20242), (144, 20248), (151, 20317), (155, 20332), (161, 20380),

Gene: AnarQue_25 Start: 19081, Stop: 19596, Start Num: 57
Candidate Starts for AnarQue_25:
(47, 19039), (Start: 50 @19045 has 4 MA's), (Start: 57 @19081 has 41 MA's), (64, 19108), (67, 19117), (93, 19174), (106, 19195), (118, 19219), (121, 19231), (139, 19333), (144, 19372), (147, 19393), (151, 19441), (155, 19456), (161, 19504), (162, 19516), (165, 19528),

Gene: Anderson_26 Start: 19136, Stop: 19699, Start Num: 41
Candidate Starts for Anderson_26:
(Start: 41 @19136 has 311 MA's), (Start: 100 @19322 has 2 MA's), (121, 19376), (155, 19607), (162, 19667),

Gene: Andre_26 Start: 19134, Stop: 19697, Start Num: 41
Candidate Starts for Andre_26:
(Start: 41 @19134 has 311 MA's), (Start: 100 @19320 has 2 MA's), (121, 19374), (155, 19605), (162, 19665),

Gene: AngelCake_26 Start: 19148, Stop: 19711, Start Num: 41

Candidate Starts for AngelCake_26:
(7, 18977), (Start: 41 @19148 has 311 MA's), (Start: 100 @19334 has 2 MA's), (121, 19388), (155, 19619), (162, 19679),

Gene: Antihero_23 Start: 18773, Stop: 19333, Start Num: 36
Candidate Starts for Antihero_23:
(Start: 36 @18773 has 28 MA's), (83, 18890), (89, 18899), (96, 18935), (97, 18941), (103, 18956), (109, 18974), (121, 19004), (129, 19028), (131, 19046), (143, 19148), (144, 19154), (145, 19160), (151, 19223), (155, 19238), (157, 19265), (159, 19274),

Gene: Antonia_25 Start: 18708, Stop: 19268, Start Num: 41
Candidate Starts for Antonia_25:
(7, 18537), (Start: 41 @18708 has 311 MA's), (Start: 100 @18894 has 2 MA's), (121, 18948), (155, 19179), (162, 19239),

Gene: Aonishiki_26 Start: 19164, Stop: 19727, Start Num: 41
Candidate Starts for Aonishiki_26:
(Start: 41 @19164 has 311 MA's), (Start: 100 @19350 has 2 MA's), (121, 19404), (155, 19635), (162, 19695),

Gene: Apex_24 Start: 19986, Stop: 20546, Start Num: 36
Candidate Starts for Apex_24:
(Start: 36 @19986 has 28 MA's), (60, 20046), (83, 20103), (89, 20112), (96, 20148), (97, 20154), (103, 20169), (109, 20187), (121, 20217), (129, 20241), (143, 20361), (144, 20367), (151, 20436), (155, 20451), (157, 20478), (159, 20487),

Gene: Apizium_25 Start: 18895, Stop: 19458, Start Num: 41
Candidate Starts for Apizium_25:
(7, 18724), (Start: 41 @18895 has 311 MA's), (Start: 100 @19081 has 2 MA's), (121, 19135), (135, 19210), (155, 19366), (162, 19426),

Gene: Arbiter_28 Start: 21405, Stop: 21890, Start Num: 58
Candidate Starts for Arbiter_28:
(Start: 58 @21405 has 18 MA's), (64, 21432), (88, 21474), (119, 21540), (120, 21543), (127, 21561), (132, 21585), (136, 21624), (142, 21669), (143, 21681), (145, 21693), (146, 21705), (150, 21732), (152, 21759), (154, 21768), (155, 21771), (161, 21819), (165, 21843),

Gene: Ares_28 Start: 21321, Stop: 21806, Start Num: 58
Candidate Starts for Ares_28:
(Start: 58 @21321 has 18 MA's), (64, 21348), (88, 21390), (119, 21456), (120, 21459), (127, 21477), (132, 21501), (136, 21540), (142, 21585), (143, 21597), (145, 21609), (146, 21621), (150, 21648), (152, 21675), (154, 21684), (155, 21687), (161, 21735), (165, 21759),

Gene: Argie_21 Start: 18900, Stop: 19478, Start Num: 62
Candidate Starts for Argie_21:
(13, 18624), (14, 18636), (19, 18672), (42, 18807), (43, 18810), (61, 18891), (Start: 62 @18900 has 6 MA's), (91, 18984), (Start: 100 @19011 has 2 MA's), (111, 19059), (137, 19194), (139, 19212), (143, 19245), (151, 19320), (154, 19332), (155, 19335), (165, 19404),

Gene: Ashraf_25 Start: 18699, Stop: 19262, Start Num: 41
Candidate Starts for Ashraf_25:
(7, 18528), (Start: 41 @18699 has 311 MA's), (Start: 100 @18885 has 2 MA's), (121, 18939), (135, 19014), (155, 19170), (162, 19230),

Gene: Athena_28 Start: 20539, Stop: 21132, Start Num: 46
Candidate Starts for Athena_28:
(Start: 46 @20539 has 45 MA's), (48, 20545), (Start: 57 @20578 has 41 MA's), (142, 20908), (148, 20953), (152, 20998), (155, 21010), (161, 21058),

Gene: Audrey_27 Start: 19776, Stop: 20369, Start Num: 46
Candidate Starts for Audrey_27:
(Start: 46 @19776 has 45 MA's), (48, 19782), (Start: 57 @19815 has 41 MA's), (142, 20145), (148, 20190), (152, 20235), (155, 20247), (161, 20295),

Gene: Austelle_25 Start: 20442, Stop: 21002, Start Num: 36
Candidate Starts for Austelle_25:
(Start: 36 @20442 has 28 MA's), (60, 20502), (83, 20559), (89, 20568), (96, 20604), (97, 20610), (109, 20643), (121, 20673), (129, 20697), (143, 20817), (144, 20823), (151, 20892), (155, 20907), (157, 20934), (159, 20943),

Gene: Axumite_23 Start: 17682, Stop: 18221, Start Num: 57
Candidate Starts for Axumite_23:
(Start: 31 @17577 has 1 MA's), (Start: 57 @17682 has 41 MA's), (88, 17760), (128, 17868), (129, 17874), (144, 17997), (146, 18015), (148, 18024), (151, 18066), (155, 18081), (161, 18129), (162, 18141),

Gene: Azuria_25 Start: 19158, Stop: 19721, Start Num: 41
Candidate Starts for Azuria_25:
(7, 18987), (Start: 41 @19158 has 311 MA's), (Start: 100 @19344 has 2 MA's), (121, 19398), (155, 19629), (162, 19689),

Gene: Badfish_26 Start: 19167, Stop: 19727, Start Num: 41
Candidate Starts for Badfish_26:
(7, 18996), (Start: 41 @19167 has 311 MA's), (Start: 100 @19353 has 2 MA's), (121, 19407), (155, 19638), (162, 19698),

Gene: Baee_25 Start: 19615, Stop: 20181, Start Num: 41
Candidate Starts for Baee_25:
(7, 19441), (15, 19474), (Start: 41 @19615 has 311 MA's), (103, 19801), (105, 19813), (118, 19831), (151, 20059), (155, 20074), (157, 20101), (159, 20110),

Gene: Baloo_27 Start: 19776, Stop: 20369, Start Num: 46
Candidate Starts for Baloo_27:
(Start: 46 @19776 has 45 MA's), (48, 19782), (Start: 57 @19815 has 41 MA's), (142, 20145), (148, 20190), (152, 20235), (155, 20247), (161, 20295),

Gene: Bananafish_28 Start: 21316, Stop: 21801, Start Num: 57
Candidate Starts for Bananafish_28:
(Start: 57 @21316 has 41 MA's), (64, 21343), (88, 21385), (119, 21451), (120, 21454), (127, 21472), (132, 21496), (136, 21535), (142, 21580), (143, 21592), (145, 21604), (146, 21616), (150, 21643), (152, 21670), (154, 21679), (155, 21682), (161, 21730), (165, 21754),

Gene: Banjo_25 Start: 18844, Stop: 19407, Start Num: 41
Candidate Starts for Banjo_25:
(7, 18673), (Start: 41 @18844 has 311 MA's), (Start: 100 @19030 has 2 MA's), (121, 19084), (155, 19315), (162, 19375),

Gene: Basato_27 Start: 19369, Stop: 19932, Start Num: 41
Candidate Starts for Basato_27:
(7, 19198), (Start: 41 @19369 has 311 MA's), (Start: 100 @19555 has 2 MA's), (121, 19609), (155, 19840), (162, 19900),

Gene: BatteryCK_25 Start: 18721, Stop: 19284, Start Num: 41
Candidate Starts for BatteryCK_25:
(7, 18550), (Start: 41 @18721 has 311 MA's), (Start: 100 @18907 has 2 MA's), (121, 18961), (135, 19036), (155, 19192), (162, 19252),

Gene: Beaglebox_25 Start: 18864, Stop: 19427, Start Num: 41
Candidate Starts for Beaglebox_25:
(7, 18693), (Start: 41 @18864 has 311 MA's), (Start: 100 @19050 has 2 MA's), (121, 19104), (155, 19335), (162, 19395),

Gene: Ben11_26 Start: 19637, Stop: 20191, Start Num: 57
Candidate Starts for Ben11_26:
(Start: 46 @19598 has 45 MA's), (48, 19604), (Start: 57 @19637 has 41 MA's), (142, 19967), (148, 20012), (152, 20057), (155, 20069), (161, 20117),

Gene: Bernardo_27 Start: 19776, Stop: 20369, Start Num: 46
Candidate Starts for Bernardo_27:
(Start: 46 @19776 has 45 MA's), (48, 19782), (Start: 57 @19815 has 41 MA's), (95, 19920), (142, 20145), (148, 20190), (152, 20235), (155, 20247), (161, 20295),

Gene: BiggityBass_23 Start: 19979, Stop: 20494, Start Num: 57
Candidate Starts for BiggityBass_23:
(Start: 57 @19979 has 41 MA's), (83, 20051), (90, 20063), (107, 20105), (144, 20285), (151, 20354), (155, 20369), (161, 20417),

Gene: BirdsNest_29 Start: 19215, Stop: 19856, Start Num: 30
Candidate Starts for BirdsNest_29:
(Start: 22 @19173 has 1 MA's), (Start: 30 @19215 has 2 MA's), (39, 19251), (108, 19473), (133, 19563), (145, 19662), (151, 19725), (155, 19740),

Gene: Bishoperium_25 Start: 18850, Stop: 19413, Start Num: 41
Candidate Starts for Bishoperium_25:
(7, 18679), (Start: 41 @18850 has 311 MA's), (Start: 100 @19036 has 2 MA's), (121, 19090), (155, 19321), (162, 19381),

Gene: BlackStallion_26 Start: 19155, Stop: 19718, Start Num: 41
Candidate Starts for BlackStallion_26:
(7, 18984), (Start: 41 @19155 has 311 MA's), (Start: 100 @19341 has 2 MA's), (121, 19395), (155, 19626), (162, 19686),

Gene: Blackpen_25 Start: 18499, Stop: 19014, Start Num: 57
Candidate Starts for Blackpen_25:
(47, 18457), (Start: 50 @18463 has 4 MA's), (Start: 57 @18499 has 41 MA's), (64, 18526), (67, 18535), (93, 18592), (106, 18613), (118, 18637), (121, 18649), (139, 18751), (144, 18790), (147, 18811), (151, 18859), (155, 18874), (161, 18922), (162, 18934), (165, 18946),

Gene: BlacksBerry_25 Start: 18859, Stop: 19422, Start Num: 41

Candidate Starts for BlacksBerry_25:
(7, 18688), (Start: 41 @18859 has 311 MA's), (Start: 100 @19045 has 2 MA's), (121, 19099), (135, 19174), (155, 19330), (162, 19390),

Gene: Blocker23_28 Start: 21437, Stop: 21922, Start Num: 57
Candidate Starts for Blocker23_28:
(Start: 57 @21437 has 41 MA's), (64, 21464), (88, 21506), (119, 21572), (120, 21575), (127, 21593), (132, 21617), (136, 21656), (142, 21701), (143, 21713), (145, 21725), (146, 21737), (150, 21764), (152, 21791), (154, 21800), (155, 21803), (161, 21851), (165, 21875),

Gene: BlueHusk_26 Start: 18652, Stop: 19215, Start Num: 41
Candidate Starts for BlueHusk_26:
(Start: 41 @18652 has 311 MA's), (Start: 100 @18838 has 2 MA's), (121, 18892), (155, 19123), (162, 19183),

Gene: Bluephacebaby_25 Start: 18850, Stop: 19413, Start Num: 41
Candidate Starts for Bluephacebaby_25:
(7, 18679), (Start: 41 @18850 has 311 MA's), (Start: 100 @19036 has 2 MA's), (121, 19090), (155, 19321), (162, 19381),

Gene: BobRoss2024_22 Start: 17442, Stop: 17978, Start Num: 57
Candidate Starts for BobRoss2024_22:
(Start: 57 @17442 has 41 MA's), (81, 17505), (88, 17517), (144, 17754), (152, 17826), (155, 17838), (161, 17886), (162, 17898), (165, 17910),

Gene: BobbyK_24 Start: 19805, Stop: 20365, Start Num: 36
Candidate Starts for BobbyK_24:
(Start: 36 @19805 has 28 MA's), (60, 19865), (83, 19922), (89, 19931), (96, 19967), (97, 19973), (103, 19988), (109, 20006), (121, 20036), (129, 20060), (143, 20180), (144, 20186), (151, 20255), (155, 20270), (157, 20297), (159, 20306),

Gene: Boehler_26 Start: 19160, Stop: 19720, Start Num: 41
Candidate Starts for Boehler_26:
(7, 18989), (Start: 41 @19160 has 311 MA's), (Start: 100 @19346 has 2 MA's), (121, 19400), (155, 19631), (162, 19691),

Gene: BoogieWoogie_26 Start: 18837, Stop: 19400, Start Num: 41
Candidate Starts for BoogieWoogie_26:
(7, 18666), (Start: 41 @18837 has 311 MA's), (Start: 100 @19023 has 2 MA's), (121, 19077), (155, 19308), (162, 19368),

Gene: Boyle_28 Start: 21438, Stop: 21923, Start Num: 57
Candidate Starts for Boyle_28:
(Start: 57 @21438 has 41 MA's), (64, 21465), (88, 21507), (119, 21573), (120, 21576), (127, 21594), (132, 21618), (136, 21657), (142, 21702), (143, 21714), (145, 21726), (146, 21738), (150, 21765), (152, 21792), (154, 21801), (155, 21804), (161, 21852), (165, 21876),

Gene: Briakila_27 Start: 20541, Stop: 21134, Start Num: 46
Candidate Starts for Briakila_27:
(Start: 46 @20541 has 45 MA's), (48, 20547), (Start: 57 @20580 has 41 MA's), (142, 20910), (148, 20955), (152, 21000), (155, 21012), (161, 21060),

Gene: Brilliant_26 Start: 18855, Stop: 19418, Start Num: 41

Candidate Starts for Brilliant_26:
(7, 18684), (Start: 41 @18855 has 311 MA's), (Start: 100 @19041 has 2 MA's), (121, 19095), (135, 19170), (155, 19326), (162, 19386),

Gene: BrownCNA_25 Start: 20057, Stop: 20617, Start Num: 36
Candidate Starts for BrownCNA_25:
(Start: 36 @20057 has 28 MA's), (60, 20117), (83, 20174), (89, 20183), (96, 20219), (97, 20225), (109, 20258), (121, 20288), (129, 20312), (143, 20432), (144, 20438), (151, 20507), (155, 20522), (157, 20549), (159, 20558),

Gene: Brownie5_28 Start: 21438, Stop: 21923, Start Num: 58
Candidate Starts for Brownie5_28:
(Start: 58 @21438 has 18 MA's), (64, 21465), (88, 21507), (119, 21573), (120, 21576), (127, 21594), (132, 21618), (136, 21657), (142, 21702), (143, 21714), (145, 21726), (146, 21738), (150, 21765), (152, 21792), (154, 21801), (155, 21804), (161, 21852), (165, 21876),

Gene: Buckeye_26 Start: 19174, Stop: 19734, Start Num: 41
Candidate Starts for Buckeye_26:
(7, 19003), (Start: 41 @19174 has 311 MA's), (Start: 100 @19360 has 2 MA's), (121, 19414), (155, 19645), (162, 19705),

Gene: Burr_25 Start: 18849, Stop: 19412, Start Num: 41
Candidate Starts for Burr_25:
(7, 18678), (Start: 41 @18849 has 311 MA's), (Start: 100 @19035 has 2 MA's), (121, 19089), (155, 19320), (162, 19380),

Gene: CRB2_29 Start: 21997, Stop: 22677, Start Num: 21
Candidate Starts for CRB2_29:
(Start: 21 @21997 has 4 MA's), (44, 22096), (55, 22132), (108, 22300), (151, 22549), (155, 22564), (157, 22591), (159, 22600), (162, 22624), (163, 22627),

Gene: CaiB_25 Start: 19031, Stop: 19582, Start Num: 50
Candidate Starts for CaiB_25:
(18, 18866), (47, 19025), (Start: 50 @19031 has 4 MA's), (Start: 57 @19067 has 41 MA's), (64, 19094), (67, 19103), (93, 19160), (106, 19181), (118, 19205), (121, 19217), (139, 19319), (144, 19358), (147, 19379), (151, 19427), (155, 19442), (161, 19490), (162, 19502), (165, 19514),

Gene: Calamitous_28 Start: 21318, Stop: 21803, Start Num: 58
Candidate Starts for Calamitous_28:
(Start: 58 @21318 has 18 MA's), (64, 21345), (88, 21387), (119, 21453), (120, 21456), (127, 21474), (132, 21498), (136, 21537), (142, 21582), (143, 21594), (145, 21606), (146, 21618), (150, 21645), (152, 21672), (154, 21681), (155, 21684), (161, 21732), (165, 21756),

Gene: CamL_26 Start: 19148, Stop: 19711, Start Num: 41
Candidate Starts for CamL_26:
(7, 18977), (Start: 41 @19148 has 311 MA's), (Start: 100 @19334 has 2 MA's), (121, 19388), (155, 19619), (162, 19679),

Gene: CampRoach_26 Start: 19141, Stop: 19704, Start Num: 41
Candidate Starts for CampRoach_26:
(7, 18970), (Start: 41 @19141 has 311 MA's), (Start: 100 @19327 has 2 MA's), (121, 19381), (155, 19612), (162, 19672),

Gene: Cannibal_26 Start: 19134, Stop: 19697, Start Num: 41
Candidate Starts for Cannibal_26:
(7, 18963), (Start: 41 @19134 has 311 MA's), (Start: 100 @19320 has 2 MA's), (121, 19374), (155, 19605), (162, 19665),

Gene: Carthage_24 Start: 18060, Stop: 18623, Start Num: 41
Candidate Starts for Carthage_24:
(7, 17889), (Start: 41 @18060 has 311 MA's), (Start: 100 @18246 has 2 MA's), (121, 18300), (155, 18531), (162, 18591),

Gene: Casbah_26 Start: 19628, Stop: 20221, Start Num: 46
Candidate Starts for Casbah_26:
(Start: 46 @19628 has 45 MA's), (48, 19634), (Start: 57 @19667 has 41 MA's), (142, 19997), (148, 20042), (152, 20087), (155, 20099), (161, 20147),

Gene: Caspiboi_25 Start: 18854, Stop: 19417, Start Num: 41
Candidate Starts for Caspiboi_25:
(7, 18683), (Start: 41 @18854 has 311 MA's), (Start: 100 @19040 has 2 MA's), (121, 19094), (135, 19169), (155, 19325), (162, 19385),

Gene: Caterpie_24 Start: 17888, Stop: 18493, Start Num: 38
Candidate Starts for Caterpie_24:
(Start: 38 @17888 has 1 MA's), (Start: 41 @17900 has 311 MA's), (126, 18149), (137, 18212), (145, 18278), (149, 18299), (154, 18347), (158, 18389), (166, 18458), (167, 18467),

Gene: Causa_32 Start: 22117, Stop: 22809, Start Num: 26
Candidate Starts for Causa_32:
(Start: 26 @22117 has 2 MA's), (47, 22204), (85, 22327), (141, 22558), (146, 22600), (147, 22603), (152, 22654), (153, 22657), (155, 22666),

Gene: Cepens_20 Start: 18624, Stop: 19199, Start Num: 62
Candidate Starts for Cepens_20:
(2, 18108), (3, 18180), (13, 18348), (14, 18360), (19, 18396), (42, 18531), (43, 18534), (61, 18615), (Start: 62 @18624 has 6 MA's), (Start: 100 @18732 has 2 MA's), (111, 18780), (137, 18915), (139, 18933), (143, 18966), (151, 19041), (154, 19053), (155, 19056), (165, 19125),

Gene: ChaChing_27 Start: 19791, Stop: 20384, Start Num: 46
Candidate Starts for ChaChing_27:
(Start: 46 @19791 has 45 MA's), (48, 19797), (Start: 57 @19830 has 41 MA's), (142, 20160), (148, 20205), (152, 20250), (155, 20262), (161, 20310),

Gene: Chaelin_25 Start: 18834, Stop: 19397, Start Num: 41
Candidate Starts for Chaelin_25:
(7, 18663), (Start: 41 @18834 has 311 MA's), (Start: 100 @19020 has 2 MA's), (121, 19074), (135, 19149), (155, 19305), (162, 19365),

Gene: Chah_27 Start: 19168, Stop: 19731, Start Num: 41
Candidate Starts for Chah_27:
(7, 18997), (Start: 41 @19168 has 311 MA's), (Start: 100 @19354 has 2 MA's), (121, 19408), (155, 19639), (162, 19699),

Gene: Chalmers_27 Start: 20582, Stop: 21175, Start Num: 46
Candidate Starts for Chalmers_27:

(Start: 46 @20582 has 45 MA's), (48, 20588), (Start: 57 @20621 has 41 MA's), (142, 20951), (148, 20996), (152, 21041), (155, 21053), (161, 21101),

Gene: Chandler_27 Start: 20589, Stop: 21143, Start Num: 57
Candidate Starts for Chandler_27:
(Start: 46 @20550 has 45 MA's), (48, 20556), (Start: 57 @20589 has 41 MA's), (142, 20919), (148, 20964), (152, 21009), (155, 21021), (161, 21069),

Gene: Charles1_26 Start: 19133, Stop: 19696, Start Num: 41
Candidate Starts for Charles1_26:
(Start: 41 @19133 has 311 MA's), (Start: 100 @19319 has 2 MA's), (121, 19373), (155, 19604), (162, 19664),

Gene: CharlieGBrown_25 Start: 18719, Stop: 19282, Start Num: 41
Candidate Starts for CharlieGBrown_25:
(7, 18548), (Start: 41 @18719 has 311 MA's), (Start: 100 @18905 has 2 MA's), (121, 18959), (135, 19034), (155, 19190), (162, 19250),

Gene: CharlottesWeb_23 Start: 17577, Stop: 18101, Start Num: 57
Candidate Starts for CharlottesWeb_23:
(23, 17427), (Start: 57 @17577 has 41 MA's), (88, 17661), (128, 17763), (144, 17892), (145, 17898), (148, 17919), (151, 17961), (155, 17976), (161, 18024), (162, 18036),

Gene: CheetO_26 Start: 19147, Stop: 19710, Start Num: 41
Candidate Starts for CheetO_26:
(7, 18976), (Start: 41 @19147 has 311 MA's), (Start: 100 @19333 has 2 MA's), (121, 19387), (155, 19618), (162, 19678),

Gene: Chentzyk_26 Start: 19685, Stop: 20239, Start Num: 57
Candidate Starts for Chentzyk_26:
(Start: 46 @19646 has 45 MA's), (48, 19652), (Start: 57 @19685 has 41 MA's), (142, 20015), (148, 20060), (152, 20105), (155, 20117), (161, 20165),

Gene: Cher_25 Start: 18873, Stop: 19436, Start Num: 41
Candidate Starts for Cher_25:
(7, 18702), (Start: 41 @18873 has 311 MA's), (Start: 100 @19059 has 2 MA's), (121, 19113), (155, 19344), (162, 19404),

Gene: Childish_25 Start: 18861, Stop: 19424, Start Num: 41
Candidate Starts for Childish_25:
(7, 18690), (Start: 41 @18861 has 311 MA's), (Start: 100 @19047 has 2 MA's), (121, 19101), (155, 19332), (162, 19392),

Gene: Chipette_27 Start: 19370, Stop: 19930, Start Num: 41
Candidate Starts for Chipette_27:
(7, 19199), (Start: 41 @19370 has 311 MA's), (Start: 100 @19556 has 2 MA's), (121, 19610), (155, 19841), (162, 19901),

Gene: Chorkpop_26 Start: 18872, Stop: 19435, Start Num: 41
Candidate Starts for Chorkpop_26:
(7, 18701), (Start: 41 @18872 has 311 MA's), (Start: 100 @19058 has 2 MA's), (121, 19112), (155, 19343), (162, 19403),

Gene: ChrisnMich_23 Start: 18762, Stop: 19322, Start Num: 36
Candidate Starts for ChrisnMich_23:
(Start: 36 @18762 has 28 MA's), (83, 18879), (89, 18888), (96, 18924), (97, 18930), (103, 18945), (109, 18963), (121, 18993), (124, 19002), (129, 19017), (143, 19137), (144, 19143), (145, 19149), (151, 19212), (155, 19227), (157, 19254), (159, 19263),

Gene: Chuni_26 Start: 19166, Stop: 19729, Start Num: 41
Candidate Starts for Chuni_26:
(7, 18995), (Start: 41 @19166 has 311 MA's), (Start: 100 @19352 has 2 MA's), (121, 19406), (155, 19637), (162, 19697),

Gene: Chunky_26 Start: 19160, Stop: 19720, Start Num: 41
Candidate Starts for Chunky_26:
(7, 18989), (Start: 41 @19160 has 311 MA's), (Start: 100 @19346 has 2 MA's), (121, 19400), (155, 19631), (162, 19691),

Gene: Chute_26 Start: 19185, Stop: 19748, Start Num: 41
Candidate Starts for Chute_26:
(7, 19014), (Start: 41 @19185 has 311 MA's), (Start: 100 @19371 has 2 MA's), (121, 19425), (135, 19500), (155, 19656), (162, 19716),

Gene: Cobra_26 Start: 19153, Stop: 19716, Start Num: 41
Candidate Starts for Cobra_26:
(7, 18982), (Start: 41 @19153 has 311 MA's), (Start: 100 @19339 has 2 MA's), (121, 19393), (155, 19624), (162, 19684),

Gene: Coco2012_23 Start: 17574, Stop: 18098, Start Num: 57
Candidate Starts for Coco2012_23:
(23, 17424), (Start: 57 @17574 has 41 MA's), (88, 17658), (128, 17760), (144, 17889), (145, 17895), (148, 17916), (151, 17958), (155, 17973), (161, 18021), (162, 18033),

Gene: Coffee_28 Start: 21430, Stop: 21915, Start Num: 57
Candidate Starts for Coffee_28:
(Start: 57 @21430 has 41 MA's), (64, 21457), (88, 21499), (119, 21565), (120, 21568), (127, 21586), (132, 21610), (136, 21649), (142, 21694), (143, 21706), (145, 21718), (146, 21730), (150, 21757), (152, 21784), (154, 21793), (155, 21796), (161, 21844), (165, 21868),

Gene: Colbert_26 Start: 19150, Stop: 19713, Start Num: 41
Candidate Starts for Colbert_26:
(7, 18979), (Start: 41 @19150 has 311 MA's), (Start: 100 @19336 has 2 MA's), (121, 19390), (155, 19621), (162, 19681),

Gene: Coldpizza_26 Start: 21916, Stop: 22410, Start Num: 59
Candidate Starts for Coldpizza_26:
(Start: 59 @21916 has 2 MA's), (88, 21979), (128, 22066), (129, 22072), (137, 22138), (144, 22195), (145, 22201), (149, 22228), (151, 22264), (152, 22267), (155, 22279), (161, 22327),

Gene: Coletti_26 Start: 19185, Stop: 19748, Start Num: 41
Candidate Starts for Coletti_26:
(7, 19014), (Start: 41 @19185 has 311 MA's), (Start: 100 @19371 has 2 MA's), (121, 19425), (135, 19500), (155, 19656), (162, 19716),

Gene: Compostia_28 Start: 20248, Stop: 20802, Start Num: 57

Candidate Starts for Compostia_28:
(Start: 46 @20209 has 45 MA's), (48, 20215), (Start: 57 @20248 has 41 MA's), (142, 20578), (148, 20623), (152, 20668), (155, 20680), (161, 20728),

Gene: Cooper_24 Start: 18981, Stop: 19541, Start Num: 36
Candidate Starts for Cooper_24:
(Start: 36 @18981 has 28 MA's), (60, 19050), (83, 19116), (89, 19125), (121, 19212), (122, 19215), (129, 19236), (143, 19356), (144, 19362), (145, 19368), (151, 19431), (155, 19446), (157, 19473), (159, 19482),

Gene: Cornbread_25 Start: 18866, Stop: 19429, Start Num: 41
Candidate Starts for Cornbread_25:
(7, 18695), (Start: 41 @18866 has 311 MA's), (Start: 100 @19052 has 2 MA's), (121, 19106), (135, 19181), (155, 19337), (162, 19397),

Gene: Cornobble_25 Start: 18708, Stop: 19271, Start Num: 41
Candidate Starts for Cornobble_25:
(7, 18537), (Start: 41 @18708 has 311 MA's), (Start: 100 @18894 has 2 MA's), (121, 18948), (155, 19179), (162, 19239),

Gene: Corofin_27 Start: 19801, Stop: 20394, Start Num: 46
Candidate Starts for Corofin_27:
(Start: 46 @19801 has 45 MA's), (48, 19807), (Start: 57 @19840 has 41 MA's), (142, 20170), (148, 20215), (152, 20260), (155, 20272), (161, 20320),

Gene: Cosmolli16_25 Start: 18867, Stop: 19430, Start Num: 41
Candidate Starts for Cosmolli16_25:
(7, 18696), (Start: 41 @18867 has 311 MA's), (Start: 100 @19053 has 2 MA's), (121, 19107), (155, 19338), (162, 19398),

Gene: Craff_26 Start: 19154, Stop: 19717, Start Num: 41
Candidate Starts for Craff_26:
(7, 18983), (Start: 41 @19154 has 311 MA's), (Start: 100 @19340 has 2 MA's), (121, 19394), (155, 19625), (162, 19685),

Gene: Crownjwl_26 Start: 18921, Stop: 19481, Start Num: 41
Candidate Starts for Crownjwl_26:
(7, 18750), (Start: 41 @18921 has 311 MA's), (Start: 100 @19107 has 2 MA's), (121, 19161), (155, 19392), (162, 19452),

Gene: D12_20 Start: 18743, Stop: 19213, Start Num: 100
Candidate Starts for D12_20:
(2, 18101), (3, 18173), (13, 18341), (14, 18353), (19, 18389), (42, 18524), (43, 18527), (61, 18608), (Start: 62 @18617 has 6 MA's), (Start: 100 @18743 has 2 MA's), (111, 18791), (137, 18929), (139, 18947), (143, 18980), (151, 19055), (154, 19067), (155, 19070), (165, 19139),

Gene: DaddyDaniels_26 Start: 18846, Stop: 19406, Start Num: 41
Candidate Starts for DaddyDaniels_26:
(7, 18675), (Start: 41 @18846 has 311 MA's), (Start: 100 @19032 has 2 MA's), (121, 19086), (155, 19317), (162, 19377),

Gene: Daffy_26 Start: 18873, Stop: 19436, Start Num: 41
Candidate Starts for Daffy_26:

(7, 18702), (Start: 41 @18873 has 311 MA's), (Start: 100 @19059 has 2 MA's), (121, 19113), (155, 19344), (162, 19404),

Gene: Daisy_27 Start: 19797, Stop: 20390, Start Num: 46
Candidate Starts for Daisy_27:
(Start: 46 @19797 has 45 MA's), (48, 19803), (Start: 57 @19836 has 41 MA's), (142, 20166), (148, 20211), (152, 20256), (155, 20268), (161, 20316),

Gene: Daka_26 Start: 19150, Stop: 19713, Start Num: 41
Candidate Starts for Daka_26:
(7, 18979), (Start: 41 @19150 has 311 MA's), (Start: 100 @19336 has 2 MA's), (121, 19390), (155, 19621), (162, 19681),

Gene: Dati_26 Start: 18863, Stop: 19426, Start Num: 41
Candidate Starts for Dati_26:
(7, 18692), (Start: 41 @18863 has 311 MA's), (Start: 100 @19049 has 2 MA's), (121, 19103), (155, 19334), (162, 19394),

Gene: Deenasa_27 Start: 20539, Stop: 21132, Start Num: 46
Candidate Starts for Deenasa_27:
(Start: 46 @20539 has 45 MA's), (48, 20545), (Start: 57 @20578 has 41 MA's), (142, 20908), (148, 20953), (152, 20998), (155, 21010), (161, 21058),

Gene: DelRivs_25 Start: 18862, Stop: 19425, Start Num: 41
Candidate Starts for DelRivs_25:
(7, 18691), (Start: 41 @18862 has 311 MA's), (Start: 100 @19048 has 2 MA's), (121, 19102), (135, 19177), (155, 19333), (162, 19393),

Gene: Derpp_25 Start: 18709, Stop: 19272, Start Num: 41
Candidate Starts for Derpp_25:
(7, 18538), (Start: 41 @18709 has 311 MA's), (Start: 100 @18895 has 2 MA's), (121, 18949), (135, 19024), (155, 19180), (162, 19240),

Gene: Devonte_27 Start: 19776, Stop: 20369, Start Num: 46
Candidate Starts for Devonte_27:
(Start: 46 @19776 has 45 MA's), (48, 19782), (Start: 57 @19815 has 41 MA's), (142, 20145), (148, 20190), (152, 20235), (155, 20247), (161, 20295),

Gene: Dice_25 Start: 18850, Stop: 19413, Start Num: 41
Candidate Starts for Dice_25:
(7, 18679), (Start: 41 @18850 has 311 MA's), (Start: 100 @19036 has 2 MA's), (121, 19090), (155, 19321), (162, 19381),

Gene: DigitDog_26 Start: 19451, Stop: 20020, Start Num: 41
Candidate Starts for DigitDog_26:
(Start: 41 @19451 has 311 MA's), (67, 19553), (103, 19640), (105, 19652), (151, 19898), (155, 19913), (157, 19940),

Gene: Dingo_26 Start: 19134, Stop: 19694, Start Num: 41
Candidate Starts for Dingo_26:
(7, 18963), (Start: 41 @19134 has 311 MA's), (Start: 100 @19320 has 2 MA's), (121, 19374), (155, 19605), (162, 19665),

Gene: Dione_25 Start: 18851, Stop: 19414, Start Num: 41
Candidate Starts for Dione_25:
(7, 18680), (Start: 41 @18851 has 311 MA's), (Start: 100 @19037 has 2 MA's), (121, 19091), (155, 19322), (162, 19382),

Gene: DirtJuice_26 Start: 19136, Stop: 19699, Start Num: 41
Candidate Starts for DirtJuice_26:
(7, 18965), (Start: 41 @19136 has 311 MA's), (Start: 100 @19322 has 2 MA's), (121, 19376), (155, 19607), (162, 19667),

Gene: Doddsville_26 Start: 18863, Stop: 19426, Start Num: 41
Candidate Starts for Doddsville_26:
(7, 18692), (Start: 41 @18863 has 311 MA's), (Start: 100 @19049 has 2 MA's), (121, 19103), (135, 19178), (155, 19334), (162, 19394),

Gene: DoesntMatter_26 Start: 19132, Stop: 19695, Start Num: 41
Candidate Starts for DoesntMatter_26:
(7, 18961), (Start: 41 @19132 has 311 MA's), (Start: 100 @19318 has 2 MA's), (121, 19372), (155, 19603), (162, 19663),

Gene: DolOn_27 Start: 19383, Stop: 19943, Start Num: 41
Candidate Starts for DolOn_27:
(7, 19212), (Start: 41 @19383 has 311 MA's), (Start: 100 @19569 has 2 MA's), (121, 19623), (155, 19854), (162, 19914),

Gene: DonSanchon_25 Start: 18849, Stop: 19412, Start Num: 41
Candidate Starts for DonSanchon_25:
(7, 18678), (Start: 41 @18849 has 311 MA's), (Start: 100 @19035 has 2 MA's), (121, 19089), (155, 19320), (162, 19380),

Gene: Donny_26 Start: 19864, Stop: 20430, Start Num: 41
Candidate Starts for Donny_26:
(7, 19690), (Start: 41 @19864 has 311 MA's), (70, 19969), (72, 19972), (103, 20050), (105, 20062), (151, 20308), (155, 20323), (157, 20350), (160, 20368),

Gene: Dori_23 Start: 16796, Stop: 17389, Start Num: 41
Candidate Starts for Dori_23:
(Start: 41 @16796 has 311 MA's), (126, 17045), (137, 17108), (145, 17174), (149, 17195), (151, 17231), (154, 17243), (158, 17285), (166, 17354), (167, 17363),

Gene: DuchessDung_24 Start: 18000, Stop: 18563, Start Num: 41
Candidate Starts for DuchessDung_24:
(7, 17829), (Start: 41 @18000 has 311 MA's), (Start: 100 @18186 has 2 MA's), (121, 18240), (135, 18315), (155, 18471), (162, 18531),

Gene: Duggie_25 Start: 18865, Stop: 19428, Start Num: 41
Candidate Starts for Duggie_25:
(7, 18694), (Start: 41 @18865 has 311 MA's), (Start: 100 @19051 has 2 MA's), (121, 19105), (135, 19180), (155, 19336), (162, 19396),

Gene: Durga_26 Start: 19162, Stop: 19725, Start Num: 41
Candidate Starts for Durga_26:

(7, 18991), (Start: 41 @19162 has 311 MA's), (Start: 100 @19348 has 2 MA's), (121, 19402), (135, 19477), (155, 19633), (162, 19693),

Gene: Eaglehorse_28 Start: 21339, Stop: 21824, Start Num: 58
Candidate Starts for Eaglehorse_28:
(Start: 58 @21339 has 18 MA's), (64, 21366), (88, 21408), (119, 21474), (120, 21477), (127, 21495), (132, 21519), (136, 21558), (142, 21603), (143, 21615), (145, 21627), (146, 21639), (150, 21666), (152, 21693), (154, 21702), (155, 21705), (161, 21753), (165, 21777),

Gene: EastView9101_25 Start: 19511, Stop: 20077, Start Num: 41
Candidate Starts for EastView9101_25:
(7, 19337), (Start: 41 @19511 has 311 MA's), (70, 19616), (72, 19619), (103, 19697), (105, 19709), (151, 19955), (155, 19970), (157, 19997), (160, 20015),

Gene: ElvisPhasley_26 Start: 19181, Stop: 19744, Start Num: 41
Candidate Starts for ElvisPhasley_26:
(7, 19010), (Start: 41 @19181 has 311 MA's), (Start: 100 @19367 has 2 MA's), (121, 19421), (135, 19496), (155, 19652), (162, 19712),

Gene: EmGer13_25 Start: 18708, Stop: 19268, Start Num: 41
Candidate Starts for EmGer13_25:
(7, 18537), (Start: 41 @18708 has 311 MA's), (Start: 100 @18894 has 2 MA's), (121, 18948), (155, 19179), (162, 19239),

Gene: Emiris_26 Start: 19143, Stop: 19703, Start Num: 41
Candidate Starts for Emiris_26:
(7, 18972), (Start: 41 @19143 has 311 MA's), (Start: 100 @19329 has 2 MA's), (121, 19383), (155, 19614), (162, 19674),

Gene: EmpTee_26 Start: 19149, Stop: 19712, Start Num: 41
Candidate Starts for EmpTee_26:
(7, 18978), (Start: 41 @19149 has 311 MA's), (Start: 100 @19335 has 2 MA's), (121, 19389), (155, 19620), (162, 19680),

Gene: Epah_23 Start: 18773, Stop: 19333, Start Num: 36
Candidate Starts for Epah_23:
(Start: 36 @18773 has 28 MA's), (83, 18890), (89, 18899), (96, 18935), (97, 18941), (103, 18956), (109, 18974), (121, 19004), (129, 19028), (131, 19046), (143, 19148), (144, 19154), (145, 19160), (151, 19223), (155, 19238), (157, 19265), (159, 19274),

Gene: Eremos_26 Start: 19149, Stop: 19709, Start Num: 41
Candidate Starts for Eremos_26:
(7, 18978), (Start: 41 @19149 has 311 MA's), (Start: 100 @19335 has 2 MA's), (121, 19389), (155, 19620), (162, 19680),

Gene: Etaye_26 Start: 19135, Stop: 19698, Start Num: 41
Candidate Starts for Etaye_26:
(7, 18964), (Start: 41 @19135 has 311 MA's), (Start: 100 @19321 has 2 MA's), (121, 19375), (155, 19606), (162, 19666),

Gene: Eugenia_26 Start: 19162, Stop: 19722, Start Num: 41
Candidate Starts for Eugenia_26:

(7, 18991), (Start: 41 @19162 has 311 MA's), (Start: 100 @19348 has 2 MA's), (121, 19402), (155, 19633), (162, 19693),

Gene: Evaa_24 Start: 18931, Stop: 19455, Start Num: 59
Candidate Starts for Evaa_24:
(23, 18775), (Start: 31 @18820 has 1 MA's), (48, 18892), (Start: 59 @18931 has 2 MA's), (63, 18940), (88, 18994), (137, 19171), (143, 19222), (144, 19228), (145, 19234), (149, 19261), (151, 19297), (152, 19300), (155, 19312), (161, 19360), (162, 19372),

Gene: Fanaw_23 Start: 19468, Stop: 20022, Start Num: 36
Candidate Starts for Fanaw_23:
(27, 19426), (33, 19450), (Start: 36 @19468 has 28 MA's), (77, 19573), (80, 19579), (110, 19660), (121, 19687), (137, 19780), (140, 19813), (143, 19831), (144, 19837), (151, 19906), (155, 19921), (157, 19948), (162, 19981),

Gene: Fang_26 Start: 19163, Stop: 19723, Start Num: 41
Candidate Starts for Fang_26:
(7, 18992), (Start: 41 @19163 has 311 MA's), (Start: 100 @19349 has 2 MA's), (121, 19403), (155, 19634), (162, 19694),

Gene: Faze9_28 Start: 21435, Stop: 21920, Start Num: 58
Candidate Starts for Faze9_28:
(Start: 58 @21435 has 18 MA's), (64, 21462), (88, 21504), (119, 21570), (120, 21573), (127, 21591), (132, 21615), (136, 21654), (142, 21699), (143, 21711), (145, 21723), (146, 21735), (150, 21762), (152, 21789), (154, 21798), (155, 21801), (161, 21849), (165, 21873),

Gene: FelixTres_25 Start: 19034, Stop: 19585, Start Num: 50
Candidate Starts for FelixTres_25:
(47, 19028), (Start: 50 @19034 has 4 MA's), (Start: 57 @19070 has 41 MA's), (64, 19097), (67, 19106), (93, 19163), (106, 19184), (118, 19208), (121, 19220), (139, 19322), (144, 19361), (147, 19382), (151, 19430), (155, 19445), (161, 19493), (162, 19505), (165, 19517),

Gene: Flake_26 Start: 19185, Stop: 19748, Start Num: 41
Candidate Starts for Flake_26:
(7, 19014), (Start: 41 @19185 has 311 MA's), (Start: 100 @19371 has 2 MA's), (121, 19425), (135, 19500), (155, 19656), (162, 19716),

Gene: FleetyMac_26 Start: 19148, Stop: 19711, Start Num: 41
Candidate Starts for FleetyMac_26:
(7, 18977), (Start: 41 @19148 has 311 MA's), (Start: 100 @19334 has 2 MA's), (121, 19388), (155, 19619), (162, 19679),

Gene: FluffyNinja_26 Start: 19155, Stop: 19718, Start Num: 41
Candidate Starts for FluffyNinja_26:
(7, 18984), (Start: 41 @19155 has 311 MA's), (Start: 100 @19341 has 2 MA's), (121, 19395), (155, 19626), (162, 19686),

Gene: ForDig_22 Start: 18356, Stop: 19030, Start Num: 21
Candidate Starts for ForDig_22:
(12, 18293), (17, 18326), (Start: 21 @18356 has 4 MA's), (25, 18383), (51, 18476), (55, 18488), (56, 18500), (81, 18578), (121, 18698), (151, 18920), (155, 18935), (159, 18971), (162, 18995),

Gene: Fortunato_24 Start: 19799, Stop: 20359, Start Num: 36

Candidate Starts for Fortunato_24:
(Start: 36 @19799 has 28 MA's), (60, 19859), (83, 19916), (89, 19925), (96, 19961), (97, 19967), (103, 19982), (109, 20000), (121, 20030), (129, 20054), (143, 20174), (144, 20180), (151, 20249), (155, 20264), (157, 20291), (159, 20300),

Gene: Fozzie_25 Start: 19158, Stop: 19721, Start Num: 41
Candidate Starts for Fozzie_25:
(7, 18987), (Start: 41 @19158 has 311 MA's), (Start: 100 @19344 has 2 MA's), (121, 19398), (155, 19629), (162, 19689),

Gene: Frankicide_26 Start: 19149, Stop: 19712, Start Num: 41
Candidate Starts for Frankicide_26:
(7, 18978), (Start: 41 @19149 has 311 MA's), (Start: 100 @19335 has 2 MA's), (121, 19389), (155, 19620), (162, 19680),

Gene: Frederick_24 Start: 19808, Stop: 20368, Start Num: 36
Candidate Starts for Frederick_24:
(Start: 36 @19808 has 28 MA's), (60, 19868), (83, 19925), (89, 19934), (96, 19970), (97, 19976), (103, 19991), (109, 20009), (121, 20039), (129, 20063), (143, 20183), (144, 20189), (151, 20258), (155, 20273), (157, 20300), (159, 20309),

Gene: FremontTroll_25 Start: 18846, Stop: 19409, Start Num: 41
Candidate Starts for FremontTroll_25:
(7, 18675), (Start: 41 @18846 has 311 MA's), (Start: 100 @19032 has 2 MA's), (121, 19086), (155, 19317), (162, 19377),

Gene: FrenchFry_28 Start: 21438, Stop: 21923, Start Num: 58
Candidate Starts for FrenchFry_28:
(Start: 58 @21438 has 18 MA's), (64, 21465), (88, 21507), (119, 21573), (120, 21576), (127, 21594), (132, 21618), (136, 21657), (142, 21702), (143, 21714), (145, 21726), (146, 21738), (150, 21765), (152, 21792), (154, 21801), (155, 21804), (161, 21852), (165, 21876),

Gene: Fresco_23 Start: 17682, Stop: 18221, Start Num: 57
Candidate Starts for Fresco_23:
(Start: 31 @17577 has 1 MA's), (Start: 57 @17682 has 41 MA's), (88, 17760), (128, 17868), (129, 17874), (144, 17997), (146, 18015), (148, 18024), (151, 18066), (155, 18081), (161, 18129), (162, 18141),

Gene: Freya_25 Start: 18844, Stop: 19404, Start Num: 41
Candidate Starts for Freya_25:
(7, 18673), (Start: 41 @18844 has 311 MA's), (Start: 100 @19030 has 2 MA's), (121, 19084), (155, 19315), (162, 19375),

Gene: FriarPreacher_26 Start: 19169, Stop: 19732, Start Num: 41
Candidate Starts for FriarPreacher_26:
(7, 18998), (Start: 41 @19169 has 311 MA's), (Start: 100 @19355 has 2 MA's), (121, 19409), (155, 19640), (162, 19700),

Gene: Fringe_26 Start: 19134, Stop: 19697, Start Num: 41
Candidate Starts for Fringe_26:
(Start: 41 @19134 has 311 MA's), (Start: 100 @19320 has 2 MA's), (121, 19374), (155, 19605), (162, 19665),

Gene: FugateOSU_25 Start: 18855, Stop: 19415, Start Num: 41
Candidate Starts for FugateOSU_25:
(7, 18684), (Start: 41 @18855 has 311 MA's), (Start: 100 @19041 has 2 MA's), (121, 19095), (155, 19326), (162, 19386),

Gene: Funsized_29 Start: 22234, Stop: 22848, Start Num: 40
Candidate Starts for Funsized_29:
(1, 21817), (5, 21997), (20, 22126), (Start: 40 @22234 has 1 MA's), (45, 22249), (52, 22273), (65, 22330), (86, 22387), (96, 22420), (104, 22444), (111, 22468), (117, 22483), (129, 22522), (144, 22648), (151, 22717), (155, 22732), (157, 22759),

Gene: Gadjet_28 Start: 19786, Stop: 20379, Start Num: 46
Candidate Starts for Gadjet_28:
(Start: 46 @19786 has 45 MA's), (48, 19792), (Start: 57 @19825 has 41 MA's), (95, 19930), (142, 20155), (148, 20200), (152, 20245), (155, 20257), (161, 20305),

Gene: Gareth_25 Start: 18852, Stop: 19415, Start Num: 41
Candidate Starts for Gareth_25:
(7, 18681), (Start: 41 @18852 has 311 MA's), (Start: 100 @19038 has 2 MA's), (121, 19092), (155, 19323), (162, 19383),

Gene: GeneCoco_26 Start: 19154, Stop: 19717, Start Num: 41
Candidate Starts for GeneCoco_26:
(7, 18983), (Start: 41 @19154 has 311 MA's), (Start: 100 @19340 has 2 MA's), (121, 19394), (135, 19469), (155, 19625), (162, 19685),

Gene: Gervas_27 Start: 19760, Stop: 20353, Start Num: 46
Candidate Starts for Gervas_27:
(Start: 46 @19760 has 45 MA's), (48, 19766), (Start: 57 @19799 has 41 MA's), (142, 20129), (148, 20174), (152, 20219), (155, 20231), (161, 20279),

Gene: GinPorsche_23 Start: 18773, Stop: 19333, Start Num: 36
Candidate Starts for GinPorsche_23:
(Start: 36 @18773 has 28 MA's), (83, 18890), (89, 18899), (96, 18935), (97, 18941), (103, 18956), (109, 18974), (121, 19004), (129, 19028), (131, 19046), (143, 19148), (144, 19154), (145, 19160), (151, 19223), (155, 19238), (157, 19265), (159, 19274),

Gene: Giraffe_26 Start: 18857, Stop: 19420, Start Num: 41
Candidate Starts for Giraffe_26:
(7, 18686), (Start: 41 @18857 has 311 MA's), (Start: 100 @19043 has 2 MA's), (121, 19097), (155, 19328), (162, 19388),

Gene: Glass_28 Start: 21438, Stop: 21923, Start Num: 58
Candidate Starts for Glass_28:
(Start: 58 @21438 has 18 MA's), (64, 21465), (88, 21507), (119, 21573), (120, 21576), (127, 21594), (132, 21618), (136, 21657), (142, 21702), (143, 21714), (145, 21726), (146, 21738), (150, 21765), (152, 21792), (154, 21801), (155, 21804), (161, 21852), (165, 21876),

Gene: GlenHope_28 Start: 19808, Stop: 20362, Start Num: 57
Candidate Starts for GlenHope_28:
(Start: 46 @19769 has 45 MA's), (48, 19775), (Start: 57 @19808 has 41 MA's), (95, 19913), (142, 20138), (148, 20183), (152, 20228), (155, 20240), (161, 20288),

Gene: Glubnar_28 Start: 19781, Stop: 20374, Start Num: 46
Candidate Starts for Glubnar_28:
(Start: 46 @19781 has 45 MA's), (48, 19787), (Start: 57 @19820 has 41 MA's), (142, 20150), (148, 20195), (152, 20240), (155, 20252), (161, 20300),

Gene: GodPhather_21 Start: 18903, Stop: 19472, Start Num: 62
Candidate Starts for GodPhather_21:
(14, 18639), (19, 18675), (43, 18813), (61, 18894), (Start: 62 @18903 has 6 MA's), (Start: 100 @19008 has 2 MA's), (111, 19056), (137, 19188), (139, 19206), (143, 19239), (151, 19314), (154, 19326), (155, 19329), (165, 19398),

Gene: Godines_28 Start: 21330, Stop: 21815, Start Num: 57
Candidate Starts for Godines_28:
(Start: 57 @21330 has 41 MA's), (64, 21357), (88, 21399), (119, 21465), (120, 21468), (127, 21486), (132, 21510), (136, 21549), (142, 21594), (143, 21606), (145, 21618), (146, 21630), (150, 21657), (152, 21684), (154, 21693), (155, 21696), (161, 21744), (165, 21768),

Gene: Gophee_26 Start: 19136, Stop: 19699, Start Num: 41
Candidate Starts for Gophee_26:
(Start: 41 @19136 has 311 MA's), (Start: 100 @19322 has 2 MA's), (121, 19376), (155, 19607), (162, 19667),

Gene: Grand2040_25 Start: 18872, Stop: 19435, Start Num: 41
Candidate Starts for Grand2040_25:
(7, 18701), (Start: 41 @18872 has 311 MA's), (Start: 100 @19058 has 2 MA's), (121, 19112), (155, 19343), (162, 19403),

Gene: GreenChile_26 Start: 19149, Stop: 19709, Start Num: 41
Candidate Starts for GreenChile_26:
(7, 18978), (Start: 41 @19149 has 311 MA's), (Start: 100 @19335 has 2 MA's), (121, 19389), (155, 19620), (162, 19680),

Gene: Gwennie1_26 Start: 19194, Stop: 19757, Start Num: 41
Candidate Starts for Gwennie1_26:
(7, 19023), (Start: 41 @19194 has 311 MA's), (Start: 100 @19380 has 2 MA's), (121, 19434), (135, 19509), (155, 19665), (162, 19725),

Gene: Gwilliam_26 Start: 19145, Stop: 19708, Start Num: 41
Candidate Starts for Gwilliam_26:
(7, 18974), (Start: 41 @19145 has 311 MA's), (Start: 100 @19331 has 2 MA's), (121, 19385), (155, 19616), (162, 19676),

Gene: Gyarad_0026 Start: 19147, Stop: 19710, Start Num: 41
Candidate Starts for Gyarad_0026:
(7, 18976), (Start: 41 @19147 has 311 MA's), (Start: 100 @19333 has 2 MA's), (121, 19387), (155, 19618), (162, 19678),

Gene: HSavage_26 Start: 19155, Stop: 19718, Start Num: 41
Candidate Starts for HSavage_26:
(7, 18984), (Start: 41 @19155 has 311 MA's), (Start: 100 @19341 has 2 MA's), (121, 19395), (155, 19626), (162, 19686),

Gene: Haimas_26 Start: 19150, Stop: 19710, Start Num: 41

Candidate Starts for Haimas_26:
(7, 18979), (Start: 41 @19150 has 311 MA's), (Start: 100 @19336 has 2 MA's), (121, 19390), (155, 19621), (162, 19681),

Gene: Haleema_25 Start: 18872, Stop: 19435, Start Num: 41
Candidate Starts for Haleema_25:
(7, 18701), (Start: 41 @18872 has 311 MA's), (Start: 100 @19058 has 2 MA's), (121, 19112), (155, 19343), (162, 19403),

Gene: Halfpint_26 Start: 19601, Stop: 20194, Start Num: 46
Candidate Starts for Halfpint_26:
(Start: 46 @19601 has 45 MA's), (48, 19607), (Start: 57 @19640 has 41 MA's), (142, 19970), (148, 20015), (152, 20060), (155, 20072), (161, 20120),

Gene: Hally898_23 Start: 18773, Stop: 19333, Start Num: 36
Candidate Starts for Hally898_23:
(Start: 36 @18773 has 28 MA's), (83, 18890), (89, 18899), (96, 18935), (97, 18941), (103, 18956), (109, 18974), (121, 19004), (129, 19028), (131, 19046), (143, 19148), (144, 19154), (145, 19160), (151, 19223), (155, 19238), (157, 19265), (159, 19274),

Gene: Hamish_26 Start: 19142, Stop: 19702, Start Num: 41
Candidate Starts for Hamish_26:
(7, 18971), (Start: 41 @19142 has 311 MA's), (Start: 100 @19328 has 2 MA's), (121, 19382), (155, 19613), (162, 19673),

Gene: Hangman_24 Start: 19800, Stop: 20360, Start Num: 36
Candidate Starts for Hangman_24:
(Start: 36 @19800 has 28 MA's), (60, 19860), (83, 19917), (89, 19926), (96, 19962), (97, 19968), (109, 20001), (121, 20031), (129, 20055), (143, 20175), (144, 20181), (151, 20250), (155, 20265), (157, 20292), (159, 20301),

Gene: Happabalu_26 Start: 18864, Stop: 19427, Start Num: 41
Candidate Starts for Happabalu_26:
(7, 18693), (Start: 41 @18864 has 311 MA's), (Start: 100 @19050 has 2 MA's), (121, 19104), (155, 19335), (162, 19395),

Gene: Hartsy_26 Start: 19165, Stop: 19728, Start Num: 41
Candidate Starts for Hartsy_26:
(7, 18994), (Start: 41 @19165 has 311 MA's), (Start: 100 @19351 has 2 MA's), (121, 19405), (135, 19480), (155, 19636), (162, 19696),

Gene: Harvey_26 Start: 19171, Stop: 19731, Start Num: 41
Candidate Starts for Harvey_26:
(7, 19000), (Start: 41 @19171 has 311 MA's), (Start: 100 @19357 has 2 MA's), (121, 19411), (155, 19642), (162, 19702),

Gene: HarveySr_27 Start: 19756, Stop: 20349, Start Num: 46
Candidate Starts for HarveySr_27:
(Start: 46 @19756 has 45 MA's), (48, 19762), (Start: 57 @19795 has 41 MA's), (142, 20125), (148, 20170), (152, 20215), (155, 20227), (161, 20275),

Gene: Hashim76_30 Start: 19673, Stop: 20305, Start Num: 30
Candidate Starts for Hashim76_30:

(Start: 30 @19673 has 2 MA's), (39, 19709), (108, 19919), (133, 20012), (145, 20111), (151, 20174), (155, 20189), (162, 20249),

Gene: Heath_23 Start: 19431, Stop: 19991, Start Num: 36
Candidate Starts for Heath_23:
(Start: 36 @19431 has 28 MA's), (60, 19491), (83, 19548), (89, 19557), (97, 19599), (109, 19632), (121, 19662), (129, 19686), (143, 19806), (144, 19812), (151, 19881), (155, 19896), (157, 19923), (159, 19932),

Gene: Heathcliff_27 Start: 19738, Stop: 20331, Start Num: 46
Candidate Starts for Heathcliff_27:
(Start: 46 @19738 has 45 MA's), (48, 19744), (Start: 57 @19777 has 41 MA's), (95, 19882), (142, 20107), (148, 20152), (152, 20197), (155, 20209), (161, 20257),

Gene: Hedgerow_28 Start: 21420, Stop: 21905, Start Num: 58
Candidate Starts for Hedgerow_28:
(Start: 58 @21420 has 18 MA's), (64, 21447), (88, 21489), (119, 21555), (120, 21558), (127, 21576), (132, 21600), (136, 21639), (142, 21684), (143, 21696), (145, 21708), (146, 21720), (150, 21747), (152, 21774), (154, 21783), (155, 21786), (161, 21834), (165, 21858),

Gene: Hekos_23 Start: 17700, Stop: 18263, Start Num: 41
Candidate Starts for Hekos_23:
(7, 17529), (Start: 41 @17700 has 311 MA's), (Start: 100 @17886 has 2 MA's), (121, 17940), (135, 18015), (155, 18171), (162, 18231),

Gene: Held_26 Start: 18856, Stop: 19419, Start Num: 41
Candidate Starts for Held_26:
(7, 18685), (Start: 41 @18856 has 311 MA's), (Start: 100 @19042 has 2 MA's), (121, 19096), (155, 19327), (162, 19387),

Gene: HenryJackson_25 Start: 18872, Stop: 19435, Start Num: 41
Candidate Starts for HenryJackson_25:
(7, 18701), (Start: 41 @18872 has 311 MA's), (Start: 100 @19058 has 2 MA's), (121, 19112), (155, 19343), (162, 19403),

Gene: Hertubise_26 Start: 19164, Stop: 19724, Start Num: 41
Candidate Starts for Hertubise_26:
(7, 18993), (Start: 41 @19164 has 311 MA's), (Start: 100 @19350 has 2 MA's), (121, 19404), (155, 19635), (162, 19695),

Gene: Hetaeria_26 Start: 19165, Stop: 19728, Start Num: 41
Candidate Starts for Hetaeria_26:
(7, 18994), (Start: 41 @19165 has 311 MA's), (Start: 100 @19351 has 2 MA's), (121, 19405), (155, 19636), (162, 19696),

Gene: HighStump_25 Start: 18855, Stop: 19418, Start Num: 41
Candidate Starts for HighStump_25:
(7, 18684), (Start: 41 @18855 has 311 MA's), (Start: 100 @19041 has 2 MA's), (121, 19095), (155, 19326), (162, 19386),

Gene: Hocus_25 Start: 18858, Stop: 19421, Start Num: 41
Candidate Starts for Hocus_25:

(7, 18687), (Start: 41 @18858 has 311 MA's), (Start: 100 @19044 has 2 MA's), (121, 19098), (135, 19173), (155, 19329), (162, 19389),

Gene: HogWash_25 Start: 19152, Stop: 19715, Start Num: 41
Candidate Starts for HogWash_25:
(7, 18981), (Start: 41 @19152 has 311 MA's), (Start: 100 @19338 has 2 MA's), (121, 19392), (135, 19467), (155, 19623), (162, 19683),

Gene: Holeinone_28 Start: 21315, Stop: 21800, Start Num: 57
Candidate Starts for Holeinone_28:
(Start: 57 @21315 has 41 MA's), (64, 21342), (88, 21384), (119, 21450), (120, 21453), (127, 21471), (132, 21495), (136, 21534), (142, 21579), (143, 21591), (145, 21603), (146, 21615), (150, 21642), (152, 21669), (154, 21678), (155, 21681), (161, 21729), (165, 21753),

Gene: Horchata_26 Start: 19134, Stop: 19697, Start Num: 41
Candidate Starts for Horchata_26:
(7, 18963), (Start: 41 @19134 has 311 MA's), (Start: 100 @19320 has 2 MA's), (121, 19374), (155, 19605), (162, 19665),

Gene: Hosp_020 Start: 16572, Stop: 17234, Start Num: 21
Candidate Starts for Hosp_020:
(12, 16509), (17, 16542), (Start: 21 @16572 has 4 MA's), (25, 16599), (51, 16692), (54, 16698), (55, 16704), (56, 16716), (81, 16785), (121, 16905), (145, 17061), (151, 17124), (155, 17139), (159, 17175), (162, 17199),

Gene: Hydro_24 Start: 19805, Stop: 20365, Start Num: 36
Candidate Starts for Hydro_24:
(Start: 36 @19805 has 28 MA's), (60, 19865), (83, 19922), (89, 19931), (96, 19967), (97, 19973), (109, 20006), (121, 20036), (129, 20060), (143, 20180), (144, 20186), (151, 20255), (155, 20270), (157, 20297), (159, 20306),

Gene: ImtiyazSitla_25 Start: 18699, Stop: 19262, Start Num: 41
Candidate Starts for ImtiyazSitla_25:
(7, 18528), (Start: 41 @18699 has 311 MA's), (Start: 100 @18885 has 2 MA's), (121, 18939), (135, 19014), (155, 19170), (162, 19230),

Gene: Imvubu_20 Start: 16898, Stop: 17533, Start Num: 37
Candidate Starts for Imvubu_20:
(Start: 37 @16898 has 2 MA's), (45, 16913), (71, 17009), (82, 17039), (96, 17093), (106, 17129), (114, 17168), (116, 17177), (129, 17219), (134, 17255), (151, 17414), (155, 17429), (157, 17456), (162, 17489), (163, 17492), (165, 17501),

Gene: Inchworm_26 Start: 19141, Stop: 19704, Start Num: 41
Candidate Starts for Inchworm_26:
(7, 18970), (Start: 41 @19141 has 311 MA's), (Start: 100 @19327 has 2 MA's), (121, 19381), (155, 19612), (162, 19672),

Gene: Indlovu_24 Start: 19514, Stop: 20113, Start Num: 38
Candidate Starts for Indlovu_24:
(27, 19475), (Start: 38 @19514 has 1 MA's), (103, 19715), (106, 19730), (129, 19787), (151, 19982), (155, 19997), (157, 20024), (163, 20060),

Gene: Inverness_26 Start: 19155, Stop: 19718, Start Num: 41

Candidate Starts for Inverness_26:
(7, 18984), (Start: 41 @19155 has 311 MA's), (Start: 100 @19341 has 2 MA's), (121, 19395), (155, 19626), (162, 19686),

Gene: Iridessa_26 Start: 18841, Stop: 19404, Start Num: 41
Candidate Starts for Iridessa_26:
(7, 18670), (Start: 41 @18841 has 311 MA's), (Start: 100 @19027 has 2 MA's), (121, 19081), (135, 19156), (155, 19312), (162, 19372),

Gene: Iridoclysis_26 Start: 19129, Stop: 19692, Start Num: 41
Candidate Starts for Iridoclysis_26:
(7, 18958), (Start: 41 @19129 has 311 MA's), (Start: 100 @19315 has 2 MA's), (121, 19369), (155, 19600), (162, 19660),

Gene: IsaacEli_26 Start: 19159, Stop: 19722, Start Num: 41
Candidate Starts for IsaacEli_26:
(7, 18988), (Start: 41 @19159 has 311 MA's), (Start: 100 @19345 has 2 MA's), (121, 19399), (155, 19630), (162, 19690),

Gene: ItsyBitsy1_28 Start: 21308, Stop: 21793, Start Num: 57
Candidate Starts for ItsyBitsy1_28:
(Start: 57 @21308 has 41 MA's), (64, 21335), (88, 21377), (119, 21443), (120, 21446), (127, 21464), (132, 21488), (136, 21527), (142, 21572), (143, 21584), (145, 21596), (146, 21608), (150, 21635), (152, 21662), (154, 21671), (155, 21674), (161, 21722), (165, 21746),

Gene: JAMaL_24 Start: 19969, Stop: 20541, Start Num: 36
Candidate Starts for JAMaL_24:
(Start: 36 @19969 has 28 MA's), (60, 20038), (83, 20095), (89, 20104), (96, 20140), (97, 20146), (103, 20161), (109, 20179), (121, 20212), (129, 20236), (143, 20356), (144, 20362), (145, 20368), (151, 20431), (155, 20446), (157, 20473), (159, 20482),

Gene: JDog_25 Start: 18865, Stop: 19428, Start Num: 41
Candidate Starts for JDog_25:
(7, 18694), (Start: 41 @18865 has 311 MA's), (Start: 100 @19051 has 2 MA's), (121, 19105), (135, 19180), (155, 19336), (162, 19396),

Gene: JacAttac_26 Start: 19141, Stop: 19704, Start Num: 41
Candidate Starts for JacAttac_26:
(7, 18970), (Start: 41 @19141 has 311 MA's), (Start: 100 @19327 has 2 MA's), (121, 19381), (155, 19612), (162, 19672),

Gene: JaguarMi_24 Start: 19267, Stop: 19827, Start Num: 36
Candidate Starts for JaguarMi_24:
(Start: 36 @19267 has 28 MA's), (60, 19327), (78, 19372), (83, 19384), (89, 19393), (96, 19429), (97, 19435), (109, 19468), (121, 19498), (129, 19522), (131, 19540), (144, 19648), (151, 19717), (155, 19732), (157, 19759), (159, 19768),

Gene: JakeO_25 Start: 18865, Stop: 19428, Start Num: 41
Candidate Starts for JakeO_25:
(7, 18694), (Start: 41 @18865 has 311 MA's), (Start: 100 @19051 has 2 MA's), (121, 19105), (135, 19180), (155, 19336), (162, 19396),

Gene: JangoPhett_26 Start: 19139, Stop: 19702, Start Num: 41

Candidate Starts for JangoPhett_26:
(7, 18968), (Start: 41 @19139 has 311 MA's), (Start: 100 @19325 has 2 MA's), (121, 19379), (155, 19610), (162, 19670),

Gene: Jbug01_26 Start: 18728, Stop: 19291, Start Num: 41
Candidate Starts for Jbug01_26:
(7, 18557), (Start: 41 @18728 has 311 MA's), (Start: 100 @18914 has 2 MA's), (121, 18968), (135, 19043), (155, 19199), (162, 19259),

Gene: JellyBelly_23 Start: 17580, Stop: 18104, Start Num: 57
Candidate Starts for JellyBelly_23:
(10, 17331), (23, 17430), (Start: 57 @17580 has 41 MA's), (88, 17664), (128, 17766), (129, 17772), (144, 17895), (145, 17901), (148, 17922), (151, 17964), (155, 17979), (161, 18027), (162, 18039),

Gene: Jeon_20 Start: 18645, Stop: 19214, Start Num: 62
Candidate Starts for Jeon_20:
(14, 18381), (19, 18417), (43, 18555), (61, 18636), (Start: 62 @18645 has 6 MA's), (Start: 100 @18750 has 2 MA's), (111, 18798), (137, 18930), (139, 18948), (143, 18981), (151, 19056), (154, 19068), (155, 19071), (165, 19140),

Gene: Jesabah_26 Start: 18867, Stop: 19430, Start Num: 41
Candidate Starts for Jesabah_26:
(7, 18696), (Start: 41 @18867 has 311 MA's), (Start: 100 @19053 has 2 MA's), (121, 19107), (155, 19338), (162, 19398),

Gene: Jillium_25 Start: 18865, Stop: 19428, Start Num: 41
Candidate Starts for Jillium_25:
(7, 18694), (Start: 41 @18865 has 311 MA's), (Start: 100 @19051 has 2 MA's), (121, 19105), (155, 19336), (162, 19396),

Gene: Jiminy_25 Start: 18703, Stop: 19266, Start Num: 41
Candidate Starts for Jiminy_25:
(7, 18532), (Start: 41 @18703 has 311 MA's), (Start: 100 @18889 has 2 MA's), (121, 18943), (135, 19018), (155, 19174), (162, 19234),

Gene: Jiraiya_25 Start: 18863, Stop: 19423, Start Num: 41
Candidate Starts for Jiraiya_25:
(7, 18692), (Start: 41 @18863 has 311 MA's), (Start: 100 @19049 has 2 MA's), (121, 19103), (155, 19334), (162, 19394),

Gene: JohnLord_25 Start: 17405, Stop: 17998, Start Num: 41
Candidate Starts for JohnLord_25:
(Start: 38 @17393 has 1 MA's), (Start: 40 @17396 has 1 MA's), (Start: 41 @17405 has 311 MA's), (126, 17654), (137, 17717), (145, 17783), (149, 17804), (151, 17840), (154, 17852), (158, 17894), (166, 17963), (167, 17972),

Gene: Jolie1_022 Start: 18308, Stop: 19030, Start Num: 16
Candidate Starts for Jolie1_022:
(16, 18308), (17, 18323), (Start: 21 @18353 has 4 MA's), (25, 18380), (51, 18473), (55, 18485), (56, 18497), (81, 18578), (85, 18587), (121, 18698), (151, 18920), (155, 18935), (159, 18971), (162, 18995),

Gene: JoyceMaria_24 Start: 19806, Stop: 20366, Start Num: 36

Candidate Starts for JoyceMaria_24:
(Start: 36 @19806 has 28 MA's), (60, 19866), (83, 19923), (89, 19932), (96, 19968), (97, 19974), (109, 20007), (121, 20037), (129, 20061), (143, 20181), (144, 20187), (151, 20256), (155, 20271), (157, 20298), (159, 20307),

Gene: KLucky39_26 Start: 19147, Stop: 19710, Start Num: 41
Candidate Starts for KLucky39_26:
(7, 18976), (Start: 41 @19147 has 311 MA's), (Start: 100 @19333 has 2 MA's), (121, 19387), (155, 19618), (162, 19678),

Gene: Kahve_25 Start: 18869, Stop: 19432, Start Num: 41
Candidate Starts for Kahve_25:
(7, 18698), (Start: 41 @18869 has 311 MA's), (Start: 100 @19055 has 2 MA's), (121, 19109), (155, 19340), (162, 19400),

Gene: Kailash_26 Start: 19177, Stop: 19740, Start Num: 41
Candidate Starts for Kailash_26:
(7, 19006), (Start: 41 @19177 has 311 MA's), (Start: 100 @19363 has 2 MA's), (121, 19417), (135, 19492), (155, 19648), (162, 19708),

Gene: Kaleb_28 Start: 21435, Stop: 21920, Start Num: 58
Candidate Starts for Kaleb_28:
(Start: 58 @21435 has 18 MA's), (64, 21462), (88, 21504), (119, 21570), (120, 21573), (127, 21591), (132, 21615), (136, 21654), (142, 21699), (143, 21711), (145, 21723), (146, 21735), (150, 21762), (152, 21789), (154, 21798), (155, 21801), (161, 21849), (165, 21873),

Gene: Kamiyu_27 Start: 19745, Stop: 20338, Start Num: 46
Candidate Starts for Kamiyu_27:
(Start: 46 @19745 has 45 MA's), (48, 19751), (Start: 57 @19784 has 41 MA's), (142, 20114), (148, 20159), (152, 20204), (155, 20216), (161, 20264),

Gene: KarasumaRum_28 Start: 19984, Stop: 20553, Start Num: 41
Candidate Starts for KarasumaRum_28:
(Start: 41 @19984 has 311 MA's), (67, 20086), (103, 20173), (105, 20185), (123, 20221), (151, 20431), (155, 20446), (157, 20473),

Gene: Karn_25 Start: 18863, Stop: 19426, Start Num: 41
Candidate Starts for Karn_25:
(7, 18692), (Start: 41 @18863 has 311 MA's), (Start: 100 @19049 has 2 MA's), (121, 19103), (135, 19178), (155, 19334), (162, 19394),

Gene: Katniss_26 Start: 19167, Stop: 19727, Start Num: 41
Candidate Starts for Katniss_26:
(7, 18996), (Start: 41 @19167 has 311 MA's), (Start: 100 @19353 has 2 MA's), (121, 19407), (155, 19638), (162, 19698),

Gene: KayaCho_22 Start: 18287, Stop: 19042, Start Num: 9
Candidate Starts for KayaCho_22:
(Start: 9 @18287 has 1 MA's), (Start: 21 @18365 has 4 MA's), (Start: 30 @18419 has 2 MA's), (49, 18491), (53, 18500), (56, 18521), (81, 18593), (121, 18710), (151, 18932), (155, 18947), (159, 18983), (162, 19007),

Gene: Keitherie_26 Start: 19187, Stop: 19750, Start Num: 41

Candidate Starts for Keitherie_26:
(7, 19016), (Start: 41 @19187 has 311 MA's), (Start: 100 @19373 has 2 MA's), (121, 19427), (135, 19502), (155, 19658), (162, 19718),

Gene: Khan1_25 Start: 18883, Stop: 19446, Start Num: 41
Candidate Starts for Khan1_25:
(7, 18712), (Start: 41 @18883 has 311 MA's), (Start: 100 @19069 has 2 MA's), (121, 19123), (135, 19198), (155, 19354), (162, 19414),

Gene: Kheth_28 Start: 21320, Stop: 21805, Start Num: 57
Candidate Starts for Kheth_28:
(Start: 57 @21320 has 41 MA's), (64, 21347), (88, 21389), (119, 21455), (120, 21458), (127, 21476), (132, 21500), (136, 21539), (142, 21584), (143, 21596), (145, 21608), (146, 21620), (150, 21647), (152, 21674), (154, 21683), (155, 21686), (161, 21734), (165, 21758),

Gene: Kikipoo_26 Start: 19159, Stop: 19722, Start Num: 41
Candidate Starts for Kikipoo_26:
(7, 18988), (Start: 41 @19159 has 311 MA's), (Start: 100 @19345 has 2 MA's), (121, 19399), (155, 19630), (162, 19690),

Gene: Kimbrough_26 Start: 18861, Stop: 19424, Start Num: 41
Candidate Starts for Kimbrough_26:
(7, 18690), (Start: 41 @18861 has 311 MA's), (Start: 100 @19047 has 2 MA's), (121, 19101), (155, 19332), (162, 19392),

Gene: KingVeVeVe_26 Start: 19138, Stop: 19698, Start Num: 41
Candidate Starts for KingVeVeVe_26:
(7, 18967), (Start: 41 @19138 has 311 MA's), (Start: 100 @19324 has 2 MA's), (121, 19378), (155, 19609), (162, 19669),

Gene: Kiwot_25 Start: 18709, Stop: 19272, Start Num: 41
Candidate Starts for Kiwot_25:
(7, 18538), (Start: 41 @18709 has 311 MA's), (Start: 100 @18895 has 2 MA's), (121, 18949), (135, 19024), (155, 19180), (162, 19240),

Gene: KlimbOn_26 Start: 19147, Stop: 19710, Start Num: 41
Candidate Starts for KlimbOn_26:
(7, 18976), (Start: 41 @19147 has 311 MA's), (Start: 100 @19333 has 2 MA's), (121, 19387), (155, 19618), (162, 19678),

Gene: Kloppinator_26 Start: 19167, Stop: 19730, Start Num: 41
Candidate Starts for Kloppinator_26:
(7, 18996), (Start: 41 @19167 has 311 MA's), (Start: 100 @19353 has 2 MA's), (121, 19407), (155, 19638), (162, 19698),

Gene: Knocker_28 Start: 22251, Stop: 22850, Start Num: 37
Candidate Starts for Knocker_28:
(Start: 37 @22251 has 2 MA's), (45, 22266), (52, 22290), (75, 22371), (79, 22383), (84, 22398), (96, 22443), (106, 22479), (116, 22497), (129, 22539), (143, 22656), (144, 22662), (151, 22731), (155, 22746), (157, 22773), (160, 22791), (162, 22806), (163, 22809), (165, 22818),

Gene: Kolhan_28 Start: 21317, Stop: 21802, Start Num: 57
Candidate Starts for Kolhan_28:

(Start: 57 @21317 has 41 MA's), (64, 21344), (88, 21386), (119, 21452), (120, 21455), (127, 21473), (132, 21497), (136, 21536), (142, 21581), (143, 21593), (145, 21605), (146, 21617), (150, 21644), (152, 21671), (154, 21680), (155, 21683), (161, 21731), (165, 21755),

Gene: Kronus_26 Start: 20398, Stop: 20952, Start Num: 57
Candidate Starts for Kronus_26:
(Start: 46 @20359 has 45 MA's), (48, 20365), (Start: 57 @20398 has 41 MA's), (95, 20503), (142, 20728), (148, 20773), (152, 20818), (155, 20830), (161, 20878),

Gene: Kwadwo_25 Start: 18851, Stop: 19414, Start Num: 41
Candidate Starts for Kwadwo_25:
(7, 18680), (Start: 41 @18851 has 311 MA's), (Start: 100 @19037 has 2 MA's), (121, 19091), (155, 19322), (162, 19382),

Gene: Kwksand96_25 Start: 18713, Stop: 19276, Start Num: 41
Candidate Starts for Kwksand96_25:
(7, 18542), (Start: 41 @18713 has 311 MA's), (Start: 100 @18899 has 2 MA's), (121, 18953), (135, 19028), (155, 19184), (162, 19244),

Gene: Labeouficaum_25 Start: 18709, Stop: 19272, Start Num: 41
Candidate Starts for Labeouficaum_25:
(7, 18538), (Start: 41 @18709 has 311 MA's), (Start: 100 @18895 has 2 MA's), (121, 18949), (135, 19024), (155, 19180), (162, 19240),

Gene: Lambano_23 Start: 18773, Stop: 19333, Start Num: 36
Candidate Starts for Lambano_23:
(Start: 36 @18773 has 28 MA's), (83, 18890), (89, 18899), (96, 18935), (97, 18941), (103, 18956), (109, 18974), (121, 19004), (129, 19028), (131, 19046), (143, 19148), (144, 19154), (145, 19160), (151, 19223), (155, 19238), (157, 19265), (159, 19274),

Gene: Lars_28 Start: 21437, Stop: 21922, Start Num: 57
Candidate Starts for Lars_28:
(Start: 57 @21437 has 41 MA's), (64, 21464), (88, 21506), (119, 21572), (120, 21575), (127, 21593), (132, 21617), (136, 21656), (142, 21701), (143, 21713), (145, 21725), (146, 21737), (150, 21764), (152, 21791), (154, 21800), (155, 21803), (161, 21851), (165, 21875),

Gene: Larson_27 Start: 19185, Stop: 19748, Start Num: 41
Candidate Starts for Larson_27:
(7, 19014), (Start: 41 @19185 has 311 MA's), (Start: 100 @19371 has 2 MA's), (121, 19425), (135, 19500), (155, 19656), (162, 19716),

Gene: LasagnaCat_26 Start: 19153, Stop: 19716, Start Num: 41
Candidate Starts for LasagnaCat_26:
(7, 18982), (Start: 41 @19153 has 311 MA's), (Start: 100 @19339 has 2 MA's), (121, 19393), (155, 19624), (162, 19684),

Gene: Lasso_26 Start: 19126, Stop: 19689, Start Num: 41
Candidate Starts for Lasso_26:
(7, 18955), (Start: 41 @19126 has 311 MA's), (Start: 100 @19312 has 2 MA's), (121, 19366), (155, 19597), (162, 19657),

Gene: Laurie_28 Start: 21315, Stop: 21800, Start Num: 57
Candidate Starts for Laurie_28:

(Start: 57 @21315 has 41 MA's), (64, 21342), (Start: 68 @21345 has 1 MA's), (88, 21384), (119, 21450), (120, 21453), (127, 21471), (132, 21495), (136, 21534), (142, 21579), (143, 21591), (145, 21603), (146, 21615), (150, 21642), (152, 21669), (154, 21678), (155, 21681), (161, 21729), (165, 21753),

Gene: LeeLot_26 Start: 19151, Stop: 19714, Start Num: 41
Candidate Starts for LeeLot_26:
(7, 18980), (Start: 41 @19151 has 311 MA's), (Start: 100 @19337 has 2 MA's), (121, 19391), (155, 19622), (162, 19682),

Gene: Lego3393_26 Start: 19163, Stop: 19723, Start Num: 41
Candidate Starts for Lego3393_26:
(7, 18992), (Start: 41 @19163 has 311 MA's), (Start: 100 @19349 has 2 MA's), (121, 19403), (155, 19634), (162, 19694),

Gene: Legolas_25 Start: 18867, Stop: 19430, Start Num: 41
Candidate Starts for Legolas_25:
(7, 18696), (Start: 41 @18867 has 311 MA's), (Start: 100 @19053 has 2 MA's), (121, 19107), (155, 19338), (162, 19398),

Gene: Lehmann_26 Start: 18693, Stop: 19256, Start Num: 41
Candidate Starts for Lehmann_26:
(7, 18522), (Start: 41 @18693 has 311 MA's), (Start: 100 @18879 has 2 MA's), (121, 18933), (155, 19164), (162, 19224),

Gene: LeiMonet_26 Start: 18858, Stop: 19421, Start Num: 41
Candidate Starts for LeiMonet_26:
(7, 18687), (Start: 41 @18858 has 311 MA's), (Start: 100 @19044 has 2 MA's), (121, 19098), (155, 19329), (162, 19389),

Gene: LemonSlice_26 Start: 18858, Stop: 19418, Start Num: 41
Candidate Starts for LemonSlice_26:
(7, 18687), (Start: 41 @18858 has 311 MA's), (Start: 100 @19044 has 2 MA's), (121, 19098), (155, 19329), (162, 19389),

Gene: Lephleur_28 Start: 21321, Stop: 21806, Start Num: 58
Candidate Starts for Lephleur_28:
(Start: 58 @21321 has 18 MA's), (64, 21348), (88, 21390), (119, 21456), (120, 21459), (127, 21477), (132, 21501), (136, 21540), (142, 21585), (143, 21597), (145, 21609), (146, 21621), (150, 21648), (152, 21675), (154, 21684), (155, 21687), (161, 21735), (165, 21759),

Gene: LestyG_27 Start: 19780, Stop: 20373, Start Num: 46
Candidate Starts for LestyG_27:
(Start: 46 @19780 has 45 MA's), (48, 19786), (Start: 57 @19819 has 41 MA's), (142, 20149), (148, 20194), (152, 20239), (155, 20251), (161, 20299),

Gene: Ligma_23 Start: 17682, Stop: 18221, Start Num: 57
Candidate Starts for Ligma_23:
(Start: 31 @17577 has 1 MA's), (Start: 57 @17682 has 41 MA's), (88, 17760), (128, 17868), (129, 17874), (144, 17997), (146, 18015), (148, 18024), (151, 18066), (155, 18081), (161, 18129), (162, 18141),

Gene: LilMcDreamy_23 Start: 19777, Stop: 20370, Start Num: 41

Candidate Starts for LilMcDreamy_23:
(Start: 41 @19777 has 311 MA's), (70, 19888), (103, 19969), (105, 19981), (113, 19999), (121, 20029), (145, 20185), (151, 20248), (155, 20263), (159, 20299),

Gene: LilSmirk_28 Start: 21318, Stop: 21803, Start Num: 58
Candidate Starts for LilSmirk_28:
(Start: 58 @21318 has 18 MA's), (64, 21345), (88, 21387), (119, 21453), (120, 21456), (127, 21474), (132, 21498), (136, 21537), (142, 21582), (143, 21594), (145, 21606), (146, 21618), (150, 21645), (152, 21672), (154, 21681), (155, 21684), (161, 21732), (165, 21756),

Gene: LittleDigger_23 Start: 18780, Stop: 19340, Start Num: 36
Candidate Starts for LittleDigger_23:
(Start: 36 @18780 has 28 MA's), (83, 18897), (89, 18906), (96, 18942), (97, 18948), (103, 18963), (109, 18981), (121, 19011), (129, 19035), (131, 19053), (143, 19155), (144, 19161), (145, 19167), (151, 19230), (155, 19245), (157, 19272), (159, 19281),

Gene: LittleMinkey_31 Start: 19784, Stop: 20419, Start Num: 30
Candidate Starts for LittleMinkey_31:
(Start: 30 @19784 has 2 MA's), (39, 19820), (108, 20036), (133, 20126), (145, 20225), (151, 20288), (155, 20303),

Gene: LittleMunchkin_25 Start: 20512, Stop: 21039, Start Num: 57
Candidate Starts for LittleMunchkin_25:
(23, 20359), (Start: 31 @20404 has 1 MA's), (Start: 57 @20512 has 41 MA's), (88, 20593), (112, 20650), (121, 20677), (122, 20680), (128, 20695), (144, 20827), (147, 20848), (151, 20896), (155, 20911), (161, 20959), (162, 20971),

Gene: LizLemon_28 Start: 21437, Stop: 21922, Start Num: 57
Candidate Starts for LizLemon_28:
(Start: 57 @21437 has 41 MA's), (64, 21464), (88, 21506), (119, 21572), (120, 21575), (127, 21593), (132, 21617), (136, 21656), (142, 21701), (143, 21713), (145, 21725), (146, 21737), (150, 21764), (152, 21791), (154, 21800), (155, 21803), (161, 21851), (165, 21875),

Gene: Lolalove_24 Start: 19802, Stop: 20362, Start Num: 36
Candidate Starts for Lolalove_24:
(Start: 36 @19802 has 28 MA's), (60, 19862), (83, 19919), (89, 19928), (96, 19964), (97, 19970), (109, 20003), (121, 20033), (129, 20057), (143, 20177), (144, 20183), (151, 20252), (155, 20267), (157, 20294), (159, 20303),

Gene: Longacauda_25 Start: 18853, Stop: 19416, Start Num: 41
Candidate Starts for Longacauda_25:
(7, 18682), (Start: 41 @18853 has 311 MA's), (Start: 100 @19039 has 2 MA's), (121, 19093), (135, 19168), (155, 19324), (162, 19384),

Gene: Lopsy_25 Start: 18709, Stop: 19272, Start Num: 41
Candidate Starts for Lopsy_25:
(7, 18538), (Start: 41 @18709 has 311 MA's), (Start: 100 @18895 has 2 MA's), (121, 18949), (155, 19180), (162, 19240),

Gene: LostAndPhound_25 Start: 18860, Stop: 19423, Start Num: 41
Candidate Starts for LostAndPhound_25:
(7, 18689), (Start: 41 @18860 has 311 MA's), (Start: 100 @19046 has 2 MA's), (121, 19100), (155, 19331), (162, 19391),

Gene: LuckyMarjie_25 Start: 18873, Stop: 19433, Start Num: 41
Candidate Starts for LuckyMarjie_25:
(7, 18702), (Start: 41 @18873 has 311 MA's), (Start: 100 @19059 has 2 MA's), (121, 19113), (155, 19344), (162, 19404),

Gene: Lulumae_25 Start: 18851, Stop: 19414, Start Num: 41
Candidate Starts for Lulumae_25:
(7, 18680), (Start: 41 @18851 has 311 MA's), (Start: 100 @19037 has 2 MA's), (121, 19091), (155, 19322), (162, 19382),

Gene: Lulwa_26 Start: 19138, Stop: 19701, Start Num: 41
Candidate Starts for Lulwa_26:
(7, 18967), (Start: 41 @19138 has 311 MA's), (Start: 100 @19324 has 2 MA's), (121, 19378), (155, 19609), (162, 19669),

Gene: Lumine_25 Start: 18847, Stop: 19410, Start Num: 41
Candidate Starts for Lumine_25:
(7, 18676), (Start: 41 @18847 has 311 MA's), (Start: 100 @19033 has 2 MA's), (121, 19087), (155, 19318), (162, 19378),

Gene: MRabcd_25 Start: 18852, Stop: 19412, Start Num: 41
Candidate Starts for MRabcd_25:
(7, 18681), (Start: 41 @18852 has 311 MA's), (Start: 100 @19038 has 2 MA's), (121, 19092), (155, 19323), (162, 19383),

Gene: Mag7_25 Start: 18727, Stop: 19290, Start Num: 41
Candidate Starts for Mag7_25:
(7, 18556), (Start: 41 @18727 has 311 MA's), (Start: 100 @18913 has 2 MA's), (121, 18967), (135, 19042), (155, 19198), (162, 19258),

Gene: Magic8_26 Start: 19165, Stop: 19728, Start Num: 41
Candidate Starts for Magic8_26:
(7, 18994), (Start: 41 @19165 has 311 MA's), (Start: 100 @19351 has 2 MA's), (121, 19405), (135, 19480), (155, 19636), (162, 19696),

Gene: Magpie_23 Start: 19625, Stop: 20185, Start Num: 36
Candidate Starts for Magpie_23:
(Start: 36 @19625 has 28 MA's), (60, 19685), (83, 19742), (89, 19751), (96, 19787), (97, 19793), (109, 19826), (121, 19856), (129, 19880), (143, 20000), (144, 20006), (151, 20075), (155, 20090), (157, 20117), (159, 20126),

Gene: MakoManhole_25 Start: 19085, Stop: 19600, Start Num: 57
Candidate Starts for MakoManhole_25:
(47, 19043), (Start: 50 @19049 has 4 MA's), (Start: 57 @19085 has 41 MA's), (64, 19112), (67, 19121), (93, 19178), (106, 19199), (118, 19223), (121, 19235), (139, 19337), (144, 19376), (147, 19397), (151, 19445), (155, 19460), (161, 19508), (162, 19520), (165, 19532),

Gene: Mana_25 Start: 18854, Stop: 19417, Start Num: 41
Candidate Starts for Mana_25:
(7, 18683), (Start: 41 @18854 has 311 MA's), (Start: 100 @19040 has 2 MA's), (105, 19061), (121, 19094), (155, 19325), (162, 19385),

Gene: Manad_25 Start: 18704, Stop: 19264, Start Num: 41
Candidate Starts for Manad_25:
(7, 18533), (Start: 41 @18704 has 311 MA's), (Start: 100 @18890 has 2 MA's), (121, 18944), (155, 19175), (162, 19235),

Gene: Mao1_22 Start: 17208, Stop: 17801, Start Num: 41
Candidate Starts for Mao1_22:
(Start: 41 @17208 has 311 MA's), (126, 17457), (137, 17520), (145, 17586), (149, 17607), (151, 17643), (154, 17655), (158, 17697), (166, 17766), (167, 17775),

Gene: Mariokart_23 Start: 17576, Stop: 18100, Start Num: 57
Candidate Starts for Mariokart_23:
(23, 17426), (Start: 57 @17576 has 41 MA's), (88, 17660), (128, 17762), (144, 17891), (145, 17897), (148, 17918), (151, 17960), (155, 17975), (161, 18023), (162, 18035),

Gene: Marley1013_27 Start: 20561, Stop: 21154, Start Num: 46
Candidate Starts for Marley1013_27:
(Start: 46 @20561 has 45 MA's), (48, 20567), (Start: 57 @20600 has 41 MA's), (142, 20930), (148, 20975), (152, 21020), (155, 21032), (161, 21080),

Gene: Marlia_27 Start: 19799, Stop: 20353, Start Num: 57
Candidate Starts for Marlia_27:
(Start: 46 @19760 has 45 MA's), (48, 19766), (Start: 57 @19799 has 41 MA's), (142, 20129), (148, 20174), (152, 20219), (155, 20231), (161, 20279),

Gene: Maru_25 Start: 18853, Stop: 19416, Start Num: 41
Candidate Starts for Maru_25:
(7, 18682), (Start: 41 @18853 has 311 MA's), (Start: 100 @19039 has 2 MA's), (121, 19093), (155, 19324), (162, 19384),

Gene: Mask_23 Start: 17201, Stop: 17794, Start Num: 41
Candidate Starts for Mask_23:
(Start: 41 @17201 has 311 MA's), (126, 17450), (137, 17513), (145, 17579), (149, 17600), (151, 17636), (154, 17648), (158, 17690), (166, 17759), (167, 17768),

Gene: Maskar_25 Start: 18699, Stop: 19262, Start Num: 41
Candidate Starts for Maskar_25:
(7, 18528), (Start: 41 @18699 has 311 MA's), (Start: 100 @18885 has 2 MA's), (121, 18939), (135, 19014), (155, 19170), (162, 19230),

Gene: MasterPo_28 Start: 21318, Stop: 21803, Start Num: 58
Candidate Starts for MasterPo_28:
(Start: 58 @21318 has 18 MA's), (64, 21345), (88, 21387), (119, 21453), (120, 21456), (127, 21474), (132, 21498), (136, 21537), (142, 21582), (143, 21594), (145, 21606), (146, 21618), (150, 21645), (152, 21672), (154, 21681), (155, 21684), (161, 21732), (165, 21756),

Gene: Matalotodo_26 Start: 19146, Stop: 19709, Start Num: 41
Candidate Starts for Matalotodo_26:
(7, 18975), (Start: 41 @19146 has 311 MA's), (Start: 100 @19332 has 2 MA's), (121, 19386), (155, 19617), (162, 19677),

Gene: Mcshane_25 Start: 18849, Stop: 19412, Start Num: 41
Candidate Starts for Mcshane_25:

(7, 18678), (Start: 41 @18849 has 311 MA's), (Start: 100 @19035 has 2 MA's), (121, 19089), (155, 19320), (162, 19380),

Gene: Mecca_25 Start: 18846, Stop: 19409, Start Num: 41
Candidate Starts for Mecca_25:
(7, 18675), (Start: 41 @18846 has 311 MA's), (Start: 100 @19032 has 2 MA's), (121, 19086), (155, 19317), (162, 19377),

Gene: Megabear_20 Start: 18567, Stop: 19142, Start Num: 62
Candidate Starts for Megabear_20:
(2, 18051), (3, 18123), (13, 18291), (14, 18303), (19, 18339), (42, 18474), (43, 18477), (61, 18558), (Start: 62 @18567 has 6 MA's), (Start: 100 @18675 has 2 MA's), (111, 18723), (137, 18858), (139, 18876), (143, 18909), (151, 18984), (154, 18996), (155, 18999), (165, 19068),

Gene: Megamind20_26 Start: 18868, Stop: 19431, Start Num: 41
Candidate Starts for Megamind20_26:
(Start: 41 @18868 has 311 MA's), (Start: 100 @19054 has 2 MA's), (121, 19108), (155, 19339), (162, 19399),

Gene: Megatron_26 Start: 19150, Stop: 19713, Start Num: 41
Candidate Starts for Megatron_26:
(7, 18979), (Start: 41 @19150 has 311 MA's), (Start: 100 @19336 has 2 MA's), (121, 19390), (155, 19621), (162, 19681),

Gene: Melc17_26 Start: 19141, Stop: 19704, Start Num: 41
Candidate Starts for Melc17_26:
(7, 18970), (Start: 41 @19141 has 311 MA's), (Start: 100 @19327 has 2 MA's), (121, 19381), (155, 19612), (162, 19672),

Gene: MelsMeow_25 Start: 18727, Stop: 19290, Start Num: 41
Candidate Starts for MelsMeow_25:
(7, 18556), (Start: 41 @18727 has 311 MA's), (Start: 100 @18913 has 2 MA's), (121, 18967), (135, 19042), (155, 19198), (162, 19258),

Gene: Mesh1_26 Start: 19158, Stop: 19721, Start Num: 41
Candidate Starts for Mesh1_26:
(7, 18987), (Start: 41 @19158 has 311 MA's), (Start: 100 @19344 has 2 MA's), (121, 19398), (155, 19629), (162, 19689),

Gene: Mesmerelda_25 Start: 18852, Stop: 19415, Start Num: 41
Candidate Starts for Mesmerelda_25:
(7, 18681), (Start: 41 @18852 has 311 MA's), (Start: 100 @19038 has 2 MA's), (121, 19092), (155, 19323), (162, 19383),

Gene: MichaelPhcott_25 Start: 18727, Stop: 19290, Start Num: 41
Candidate Starts for MichaelPhcott_25:
(7, 18556), (Start: 41 @18727 has 311 MA's), (Start: 100 @18913 has 2 MA's), (121, 18967), (135, 19042), (155, 19198), (162, 19258),

Gene: Mikota_26 Start: 19134, Stop: 19697, Start Num: 41
Candidate Starts for Mikota_26:
(7, 18963), (Start: 41 @19134 has 311 MA's), (Start: 100 @19320 has 2 MA's), (121, 19374), (155, 19605), (162, 19665),

Gene: MiniBoss_26 Start: 19137, Stop: 19700, Start Num: 41
Candidate Starts for MiniBoss_26:
(7, 18966), (Start: 41 @19137 has 311 MA's), (Start: 100 @19323 has 2 MA's), (121, 19377), (155, 19608), (162, 19668),

Gene: Minnow_23 Start: 18361, Stop: 19038, Start Num: 21
Candidate Starts for Minnow_23:
(6, 18271), (11, 18286), (Start: 21 @18361 has 4 MA's), (Start: 30 @18415 has 2 MA's), (49, 18487), (53, 18496), (56, 18517), (81, 18589), (121, 18706), (151, 18928), (155, 18943), (159, 18979), (162, 19003),

Gene: MitKao_26 Start: 18855, Stop: 19418, Start Num: 41
Candidate Starts for MitKao_26:
(7, 18684), (Start: 41 @18855 has 311 MA's), (Start: 100 @19041 has 2 MA's), (121, 19095), (155, 19326), (162, 19386),

Gene: Mithril_24 Start: 19806, Stop: 20366, Start Num: 36
Candidate Starts for Mithril_24:
(Start: 36 @19806 has 28 MA's), (60, 19866), (83, 19923), (89, 19932), (96, 19968), (97, 19974), (109, 20007), (121, 20037), (129, 20061), (143, 20181), (144, 20187), (151, 20256), (155, 20271), (157, 20298), (159, 20307),

Gene: MmasiCarm_27 Start: 19771, Stop: 20364, Start Num: 46
Candidate Starts for MmasiCarm_27:
(Start: 46 @19771 has 45 MA's), (48, 19777), (Start: 57 @19810 has 41 MA's), (142, 20140), (148, 20185), (152, 20230), (155, 20242), (161, 20290),

Gene: Morgushi_26 Start: 18860, Stop: 19420, Start Num: 41
Candidate Starts for Morgushi_26:
(7, 18689), (Start: 41 @18860 has 311 MA's), (Start: 100 @19046 has 2 MA's), (121, 19100), (155, 19331), (162, 19391),

Gene: Mortcellus_26 Start: 20414, Stop: 21007, Start Num: 46
Candidate Starts for Mortcellus_26:
(Start: 46 @20414 has 45 MA's), (48, 20420), (Start: 57 @20453 has 41 MA's), (142, 20783), (148, 20828), (152, 20873), (155, 20885), (161, 20933),

Gene: Morty_26 Start: 19159, Stop: 19722, Start Num: 41
Candidate Starts for Morty_26:
(7, 18988), (Start: 41 @19159 has 311 MA's), (Start: 100 @19345 has 2 MA's), (121, 19399), (155, 19630), (162, 19690),

Gene: Morty007_27 Start: 20561, Stop: 21154, Start Num: 46
Candidate Starts for Morty007_27:
(Start: 46 @20561 has 45 MA's), (48, 20567), (Start: 57 @20600 has 41 MA's), (142, 20930), (148, 20975), (152, 21020), (155, 21032), (161, 21080),

Gene: Mosaic_25 Start: 18861, Stop: 19424, Start Num: 41
Candidate Starts for Mosaic_25:
(7, 18690), (Start: 41 @18861 has 311 MA's), (Start: 100 @19047 has 2 MA's), (121, 19101), (155, 19332), (162, 19392),

Gene: MossRose_25 Start: 19028, Stop: 19579, Start Num: 50
Candidate Starts for MossRose_25:
(20, 18872), (47, 19022), (Start: 50 @19028 has 4 MA's), (Start: 57 @19064 has 41 MA's), (64, 19091), (67, 19100), (93, 19157), (106, 19178), (118, 19202), (121, 19214), (139, 19316), (144, 19355), (147, 19376), (151, 19424), (155, 19439), (161, 19487), (162, 19499), (165, 19511),

Gene: MrPhizzler_26 Start: 18860, Stop: 19423, Start Num: 41
Candidate Starts for MrPhizzler_26:
(7, 18689), (Start: 41 @18860 has 311 MA's), (Start: 100 @19046 has 2 MA's), (121, 19100), (135, 19175), (155, 19331), (162, 19391),

Gene: Mudslide_24 Start: 20053, Stop: 20613, Start Num: 36
Candidate Starts for Mudslide_24:
(Start: 36 @20053 has 28 MA's), (60, 20113), (83, 20170), (89, 20179), (96, 20215), (97, 20221), (109, 20254), (121, 20284), (129, 20308), (143, 20428), (144, 20434), (151, 20503), (155, 20518), (157, 20545), (159, 20554),

Gene: Mulan_25 Start: 18855, Stop: 19418, Start Num: 41
Candidate Starts for Mulan_25:
(7, 18684), (Start: 41 @18855 has 311 MA's), (Start: 100 @19041 has 2 MA's), (121, 19095), (155, 19326), (162, 19386),

Gene: Mulaychimus_27 Start: 19753, Stop: 20346, Start Num: 46
Candidate Starts for Mulaychimus_27:
(Start: 46 @19753 has 45 MA's), (48, 19759), (Start: 57 @19792 has 41 MA's), (142, 20122), (148, 20167), (152, 20212), (155, 20224), (161, 20272),

Gene: Murdoc_26 Start: 19148, Stop: 19711, Start Num: 41
Candidate Starts for Murdoc_26:
(7, 18977), (Start: 41 @19148 has 311 MA's), (Start: 100 @19334 has 2 MA's), (121, 19388), (155, 19619), (162, 19679),

Gene: Mutante_25 Start: 18858, Stop: 19421, Start Num: 41
Candidate Starts for Mutante_25:
(7, 18687), (Start: 41 @18858 has 311 MA's), (Start: 100 @19044 has 2 MA's), (121, 19098), (155, 19329), (162, 19389),

Gene: Mysterious_26 Start: 20072, Stop: 20680, Start Num: 28
Candidate Starts for Mysterious_26:
(Start: 28 @20072 has 2 MA's), (Start: 41 @20111 has 311 MA's), (69, 20216), (83, 20252), (105, 20312), (124, 20351), (137, 20432), (151, 20558), (155, 20573), (156, 20588), (159, 20609), (160, 20618), (162, 20633),

Gene: NHagos_23 Start: 17615, Stop: 18115, Start Num: 57
Candidate Starts for NHagos_23:
(Start: 57 @17615 has 41 MA's), (64, 17642), (88, 17690), (121, 17759), (122, 17762), (144, 17900), (147, 17921), (151, 17969), (155, 17984), (161, 18032), (164, 18050), (165, 18056),

Gene: Nacho_0026 Start: 19147, Stop: 19710, Start Num: 41
Candidate Starts for Nacho_0026:
(7, 18976), (Start: 41 @19147 has 311 MA's), (Start: 100 @19333 has 2 MA's), (121, 19387), (155, 19618), (162, 19678),

Gene: Nanao_23 Start: 18772, Stop: 19332, Start Num: 36
Candidate Starts for Nanao_23:
(Start: 36 @18772 has 28 MA's), (83, 18889), (89, 18898), (96, 18934), (97, 18940), (103, 18955), (109, 18973), (121, 19003), (129, 19027), (131, 19045), (143, 19147), (144, 19153), (145, 19159), (151, 19222), (155, 19237), (157, 19264), (159, 19273),

Gene: Nangang_26 Start: 19812, Stop: 20381, Start Num: 41
Candidate Starts for Nangang_26:
(Start: 41 @19812 has 311 MA's), (67, 19914), (103, 20001), (105, 20013), (123, 20049), (151, 20259), (155, 20274), (157, 20301),

Gene: Nathan_26 Start: 19177, Stop: 19740, Start Num: 41
Candidate Starts for Nathan_26:
(7, 19006), (Start: 41 @19177 has 311 MA's), (Start: 100 @19363 has 2 MA's), (121, 19417), (135, 19492), (155, 19648), (162, 19708),

Gene: Nehemiah_25 Start: 20111, Stop: 20680, Start Num: 41
Candidate Starts for Nehemiah_25:
(Start: 28 @20072 has 2 MA's), (Start: 41 @20111 has 311 MA's), (69, 20216), (83, 20252), (105, 20312), (124, 20351), (137, 20432), (151, 20558), (155, 20573), (156, 20588), (159, 20609), (160, 20618), (162, 20633),

Gene: Nehme_25 Start: 18873, Stop: 19436, Start Num: 41
Candidate Starts for Nehme_25:
(7, 18702), (Start: 41 @18873 has 311 MA's), (Start: 100 @19059 has 2 MA's), (121, 19113), (135, 19188), (155, 19344), (162, 19404),

Gene: Neos5_27 Start: 20568, Stop: 21161, Start Num: 46
Candidate Starts for Neos5_27:
(Start: 46 @20568 has 45 MA's), (48, 20574), (Start: 57 @20607 has 41 MA's), (95, 20712), (142, 20937), (148, 20982), (152, 21027), (155, 21039), (161, 21087),

Gene: Newman_26 Start: 19147, Stop: 19707, Start Num: 41
Candidate Starts for Newman_26:
(7, 18976), (Start: 41 @19147 has 311 MA's), (Start: 100 @19333 has 2 MA's), (121, 19387), (155, 19618), (162, 19678),

Gene: NiaNia_27 Start: 18874, Stop: 19437, Start Num: 41
Candidate Starts for NiaNia_27:
(7, 18703), (Start: 41 @18874 has 311 MA's), (Start: 100 @19060 has 2 MA's), (121, 19114), (155, 19345), (162, 19405),

Gene: Nicole21_26 Start: 19139, Stop: 19702, Start Num: 41
Candidate Starts for Nicole21_26:
(7, 18968), (Start: 41 @19139 has 311 MA's), (Start: 100 @19325 has 2 MA's), (121, 19379), (155, 19610), (162, 19670),

Gene: Nigel_22 Start: 18656, Stop: 19228, Start Num: 36
Candidate Starts for Nigel_22:
(Start: 36 @18656 has 28 MA's), (60, 18725), (83, 18782), (89, 18791), (96, 18827), (97, 18833), (103, 18848), (109, 18866), (121, 18899), (129, 18923), (143, 19043), (144, 19049), (145, 19055), (151, 19118), (155, 19133), (157, 19160), (159, 19169),

Gene: Nova1_25 Start: 18740, Stop: 19303, Start Num: 41
Candidate Starts for Nova1_25:
(7, 18569), (Start: 41 @18740 has 311 MA's), (Start: 100 @18926 has 2 MA's), (121, 18980), (135, 19055), (155, 19211), (162, 19271),

Gene: Nozo_27 Start: 20538, Stop: 21131, Start Num: 46
Candidate Starts for Nozo_27:
(Start: 46 @20538 has 45 MA's), (48, 20544), (Start: 57 @20577 has 41 MA's), (142, 20907), (148, 20952), (152, 20997), (155, 21009), (161, 21057),

Gene: Numberten_26 Start: 19153, Stop: 19716, Start Num: 41
Candidate Starts for Numberten_26:
(Start: 41 @19153 has 311 MA's), (Start: 100 @19339 has 2 MA's), (121, 19393), (155, 19624), (162, 19684),

Gene: Nyala_25 Start: 18850, Stop: 19413, Start Num: 41
Candidate Starts for Nyala_25:
(7, 18679), (Start: 41 @18850 has 311 MA's), (Start: 100 @19036 has 2 MA's), (121, 19090), (155, 19321), (162, 19381),

Gene: OSmaximus_26 Start: 19176, Stop: 19739, Start Num: 41
Candidate Starts for OSmaximus_26:
(7, 19005), (Start: 41 @19176 has 311 MA's), (Start: 100 @19362 has 2 MA's), (121, 19416), (135, 19491), (155, 19647), (162, 19707),

Gene: Obutu_27 Start: 19771, Stop: 20364, Start Num: 46
Candidate Starts for Obutu_27:
(Start: 46 @19771 has 45 MA's), (48, 19777), (Start: 57 @19810 has 41 MA's), (142, 20140), (148, 20185), (152, 20230), (155, 20242), (161, 20290),

Gene: Olak_25 Start: 18851, Stop: 19414, Start Num: 41
Candidate Starts for Olak_25:
(7, 18680), (Start: 41 @18851 has 311 MA's), (Start: 100 @19037 has 2 MA's), (121, 19091), (155, 19322), (162, 19382),

Gene: Oline_25 Start: 18713, Stop: 19276, Start Num: 41
Candidate Starts for Oline_25:
(7, 18542), (Start: 41 @18713 has 311 MA's), (Start: 100 @18899 has 2 MA's), (121, 18953), (135, 19028), (155, 19184), (162, 19244),

Gene: Olive_26 Start: 19140, Stop: 19703, Start Num: 41
Candidate Starts for Olive_26:
(7, 18969), (Start: 41 @19140 has 311 MA's), (Start: 100 @19326 has 2 MA's), (121, 19380), (155, 19611), (162, 19671),

Gene: OliverWalter_26 Start: 19156, Stop: 19719, Start Num: 41
Candidate Starts for OliverWalter_26:
(7, 18985), (Start: 41 @19156 has 311 MA's), (Start: 100 @19342 has 2 MA's), (121, 19396), (155, 19627), (162, 19687),

Gene: Olivio_26 Start: 19664, Stop: 20218, Start Num: 57
Candidate Starts for Olivio_26:

(Start: 46 @19625 has 45 MA's), (48, 19631), (Start: 57 @19664 has 41 MA's), (142, 19994), (148, 20039), (152, 20084), (155, 20096), (161, 20144),

Gene: Omniscient_26 Start: 19159, Stop: 19722, Start Num: 41
Candidate Starts for Omniscient_26:
(7, 18988), (Start: 41 @19159 has 311 MA's), (Start: 100 @19345 has 2 MA's), (121, 19399), (155, 19630), (162, 19690),

Gene: OneBrain_26 Start: 18852, Stop: 19415, Start Num: 41
Candidate Starts for OneBrain_26:
(7, 18681), (Start: 41 @18852 has 311 MA's), (Start: 100 @19038 has 2 MA's), (121, 19092), (135, 19167), (155, 19323), (162, 19383),

Gene: Oosterbaan_26 Start: 19151, Stop: 19711, Start Num: 41
Candidate Starts for Oosterbaan_26:
(7, 18980), (Start: 41 @19151 has 311 MA's), (Start: 100 @19337 has 2 MA's), (121, 19391), (155, 19622), (162, 19682),

Gene: Opia_28 Start: 21317, Stop: 21802, Start Num: 57
Candidate Starts for Opia_28:
(Start: 57 @21317 has 41 MA's), (64, 21344), (88, 21386), (119, 21452), (120, 21455), (127, 21473), (132, 21497), (136, 21536), (142, 21581), (143, 21593), (145, 21605), (146, 21617), (150, 21644), (152, 21671), (154, 21680), (155, 21683), (161, 21731), (165, 21755),

Gene: OrangeOswald_27 Start: 19776, Stop: 20369, Start Num: 46
Candidate Starts for OrangeOswald_27:
(Start: 46 @19776 has 45 MA's), (48, 19782), (Start: 57 @19815 has 41 MA's), (142, 20145), (148, 20190), (152, 20235), (155, 20247), (161, 20295),

Gene: Orfeu_25 Start: 18852, Stop: 19415, Start Num: 41
Candidate Starts for Orfeu_25:
(7, 18681), (Start: 41 @18852 has 311 MA's), (Start: 100 @19038 has 2 MA's), (121, 19092), (155, 19323), (162, 19383),

Gene: Orion_26 Start: 19148, Stop: 19711, Start Num: 41
Candidate Starts for Orion_26:
(7, 18977), (Start: 41 @19148 has 311 MA's), (Start: 100 @19334 has 2 MA's), (121, 19388), (155, 19619), (162, 19679),

Gene: Orwigg_25 Start: 18846, Stop: 19409, Start Num: 41
Candidate Starts for Orwigg_25:
(Start: 41 @18846 has 311 MA's), (Start: 100 @19032 has 2 MA's), (121, 19086), (155, 19317), (162, 19377),

Gene: PG1_26 Start: 19161, Stop: 19724, Start Num: 41
Candidate Starts for PG1_26:
(7, 18990), (Start: 41 @19161 has 311 MA's), (Start: 100 @19347 has 2 MA's), (121, 19401), (155, 19632), (162, 19692),

Gene: PR_20 Start: 18720, Stop: 19190, Start Num: 100
Candidate Starts for PR_20:
(2, 18078), (3, 18150), (13, 18318), (14, 18330), (19, 18366), (42, 18501), (43, 18504), (61, 18585), (Start: 62 @18594 has 6 MA's), (Start: 100 @18720 has 2 MA's), (111, 18768), (137, 18906), (139,

18924), (143, 18957), (151, 19032), (154, 19044), (155, 19047), (165, 19116),

Gene: Pacifista_25 Start: 18852, Stop: 19415, Start Num: 41
Candidate Starts for Pacifista_25:
(7, 18681), (Start: 41 @18852 has 311 MA's), (Start: 100 @19038 has 2 MA's), (121, 19092), (155, 19323), (162, 19383),

Gene: PallasAthena_25 Start: 18860, Stop: 19423, Start Num: 41
Candidate Starts for PallasAthena_25:
(Start: 41 @18860 has 311 MA's), (Start: 100 @19046 has 2 MA's), (121, 19100), (155, 19331), (162, 19391),

Gene: PenguinLover67_28 Start: 21391, Stop: 22002, Start Num: 41
Candidate Starts for PenguinLover67_28:
(5, 21145), (8, 21208), (32, 21358), (34, 21370), (Start: 41 @21391 has 311 MA's), (104, 21610), (108, 21625), (128, 21682), (129, 21688), (151, 21883), (155, 21898), (157, 21925), (159, 21934), (163, 21961),

Gene: Phaedrus_25 Start: 19692, Stop: 20285, Start Num: 46
Candidate Starts for Phaedrus_25:
(Start: 46 @19692 has 45 MA's), (48, 19698), (Start: 57 @19731 has 41 MA's), (142, 20061), (148, 20106), (152, 20151), (155, 20163), (161, 20211),

Gene: Phamished_26 Start: 19156, Stop: 19719, Start Num: 41
Candidate Starts for Phamished_26:
(7, 18985), (Start: 41 @19156 has 311 MA's), (Start: 100 @19342 has 2 MA's), (121, 19396), (155, 19627), (162, 19687),

Gene: Phantasmagoria_28 Start: 21313, Stop: 21798, Start Num: 57
Candidate Starts for Phantasmagoria_28:
(Start: 57 @21313 has 41 MA's), (64, 21340), (88, 21382), (119, 21448), (120, 21451), (127, 21469), (132, 21493), (136, 21532), (142, 21577), (143, 21589), (145, 21601), (146, 21613), (150, 21640), (152, 21667), (154, 21676), (155, 21679), (161, 21727), (165, 21751),

Gene: Phareon_26 Start: 18856, Stop: 19419, Start Num: 41
Candidate Starts for Phareon_26:
(7, 18685), (Start: 41 @18856 has 311 MA's), (Start: 100 @19042 has 2 MA's), (121, 19096), (155, 19327), (162, 19387),

Gene: PhatCats2014_26 Start: 19166, Stop: 19726, Start Num: 41
Candidate Starts for PhatCats2014_26:
(7, 18995), (Start: 41 @19166 has 311 MA's), (Start: 100 @19352 has 2 MA's), (121, 19406), (155, 19637), (162, 19697),

Gene: PhatLouie_26 Start: 19148, Stop: 19711, Start Num: 41
Candidate Starts for PhatLouie_26:
(7, 18977), (Start: 41 @19148 has 311 MA's), (Start: 100 @19334 has 2 MA's), (121, 19388), (135, 19463), (155, 19619), (162, 19679),

Gene: Phayeta_27 Start: 19652, Stop: 20245, Start Num: 46
Candidate Starts for Phayeta_27:
(Start: 46 @19652 has 45 MA's), (48, 19658), (Start: 57 @19691 has 41 MA's), (142, 20021), (148, 20066), (152, 20111), (155, 20123), (161, 20171),

Gene: Phelemich_26 Start: 20107, Stop: 20676, Start Num: 41
Candidate Starts for Phelemich_26:
(Start: 28 @20068 has 2 MA's), (Start: 41 @20107 has 311 MA's), (69, 20212), (83, 20248), (105, 20308), (124, 20347), (137, 20428), (151, 20554), (155, 20569), (156, 20584), (159, 20605), (160, 20614), (162, 20629),

Gene: PhenghisKhan_25 Start: 18727, Stop: 19290, Start Num: 41
Candidate Starts for PhenghisKhan_25:
(7, 18556), (Start: 41 @18727 has 311 MA's), (Start: 100 @18913 has 2 MA's), (121, 18967), (135, 19042), (155, 19198), (162, 19258),

Gene: Pherdinand_26 Start: 19156, Stop: 19719, Start Num: 41
Candidate Starts for Pherdinand_26:
(7, 18985), (Start: 41 @19156 has 311 MA's), (Start: 100 @19342 has 2 MA's), (121, 19396), (155, 19627), (162, 19687),

Gene: Phergie_25 Start: 18721, Stop: 19284, Start Num: 41
Candidate Starts for Phergie_25:
(7, 18550), (Start: 41 @18721 has 311 MA's), (Start: 100 @18907 has 2 MA's), (121, 18961), (135, 19036), (155, 19192), (162, 19252),

Gene: Philly_26 Start: 19642, Stop: 20235, Start Num: 46
Candidate Starts for Philly_26:
(Start: 46 @19642 has 45 MA's), (48, 19648), (Start: 57 @19681 has 41 MA's), (142, 20011), (148, 20056), (152, 20101), (155, 20113), (161, 20161),

Gene: Phipps_26 Start: 19126, Stop: 19689, Start Num: 41
Candidate Starts for Phipps_26:
(7, 18955), (Start: 41 @19126 has 311 MA's), (Start: 100 @19312 has 2 MA's), (121, 19366), (155, 19597), (162, 19657),

Gene: Phleuron_25 Start: 18727, Stop: 19290, Start Num: 41
Candidate Starts for Phleuron_25:
(7, 18556), (Start: 41 @18727 has 311 MA's), (Start: 100 @18913 has 2 MA's), (121, 18967), (135, 19042), (155, 19198), (162, 19258),

Gene: Phlyer_27 Start: 20511, Stop: 21104, Start Num: 46
Candidate Starts for Phlyer_27:
(Start: 46 @20511 has 45 MA's), (48, 20517), (Start: 57 @20550 has 41 MA's), (95, 20655), (142, 20880), (148, 20925), (152, 20970), (155, 20982), (161, 21030),

Gene: PhrankReynolds_25 Start: 18727, Stop: 19290, Start Num: 41
Candidate Starts for PhrankReynolds_25:
(7, 18556), (Start: 41 @18727 has 311 MA's), (Start: 100 @18913 has 2 MA's), (121, 18967), (135, 19042), (155, 19198), (162, 19258),

Gene: PhrodoBaggins_25 Start: 19144, Stop: 19707, Start Num: 41
Candidate Starts for PhrodoBaggins_25:
(7, 18973), (Start: 41 @19144 has 311 MA's), (Start: 100 @19330 has 2 MA's), (121, 19384), (155, 19615), (162, 19675),

Gene: Phunky_26 Start: 19150, Stop: 19713, Start Num: 41

Candidate Starts for Phunky_26:
(7, 18979), (Start: 41 @19150 has 311 MA's), (Start: 100 @19336 has 2 MA's), (121, 19390), (155, 19621), (162, 19681),

Gene: Piglet_0025 Start: 19150, Stop: 19713, Start Num: 41
Candidate Starts for Piglet_0025:
(7, 18979), (Start: 41 @19150 has 311 MA's), (Start: 100 @19336 has 2 MA's), (121, 19390), (155, 19621), (162, 19681),

Gene: Pine5_26 Start: 20067, Stop: 20540, Start Num: 74
Candidate Starts for Pine5_26:
(74, 20067), (87, 20100), (105, 20169), (138, 20304), (139, 20313), (161, 20484),

Gene: PinheadLarry_26 Start: 18867, Stop: 19430, Start Num: 41
Candidate Starts for PinheadLarry_26:
(7, 18696), (Start: 41 @18867 has 311 MA's), (Start: 100 @19053 has 2 MA's), (121, 19107), (155, 19338), (162, 19398),

Gene: Pinkman_25 Start: 18707, Stop: 19270, Start Num: 41
Candidate Starts for Pinkman_25:
(7, 18536), (Start: 41 @18707 has 311 MA's), (Start: 100 @18893 has 2 MA's), (121, 18947), (135, 19022), (155, 19178), (162, 19238),

Gene: Pipefish_27 Start: 20661, Stop: 21251, Start Num: 46
Candidate Starts for Pipefish_27:
(Start: 46 @20661 has 45 MA's), (48, 20667), (Start: 57 @20700 has 41 MA's), (95, 20805), (142, 21027), (148, 21072), (152, 21117), (155, 21129), (161, 21177),

Gene: Pipsqueak_26 Start: 19156, Stop: 19716, Start Num: 41
Candidate Starts for Pipsqueak_26:
(7, 18985), (Start: 41 @19156 has 311 MA's), (Start: 100 @19342 has 2 MA's), (121, 19396), (155, 19627), (162, 19687),

Gene: Placalicious_25 Start: 18849, Stop: 19409, Start Num: 41
Candidate Starts for Placalicious_25:
(7, 18678), (Start: 41 @18849 has 311 MA's), (Start: 100 @19035 has 2 MA's), (121, 19089), (155, 19320), (162, 19380),

Gene: Plata_25 Start: 18863, Stop: 19426, Start Num: 41
Candidate Starts for Plata_25:
(7, 18692), (Start: 41 @18863 has 311 MA's), (Start: 100 @19049 has 2 MA's), (121, 19103), (135, 19178), (155, 19334), (162, 19394),

Gene: Plmatters_26 Start: 19153, Stop: 19716, Start Num: 41
Candidate Starts for Plmatters_26:
(7, 18982), (Start: 41 @19153 has 311 MA's), (Start: 100 @19339 has 2 MA's), (121, 19393), (155, 19624), (162, 19684),

Gene: Podrick_26 Start: 19145, Stop: 19708, Start Num: 41
Candidate Starts for Podrick_26:
(7, 18974), (Start: 41 @19145 has 311 MA's), (Start: 100 @19331 has 2 MA's), (121, 19385), (155, 19616), (162, 19676),

Gene: Pops_26 Start: 19153, Stop: 19716, Start Num: 41
Candidate Starts for Pops_26:
(7, 18982), (Start: 41 @19153 has 311 MA's), (Start: 100 @19339 has 2 MA's), (121, 19393), (155, 19624), (162, 19684),

Gene: Poster_23 Start: 18773, Stop: 19333, Start Num: 36
Candidate Starts for Poster_23:
(Start: 36 @18773 has 28 MA's), (83, 18890), (89, 18899), (96, 18935), (97, 18941), (103, 18956), (109, 18974), (121, 19004), (129, 19028), (131, 19046), (143, 19148), (144, 19154), (145, 19160), (151, 19223), (155, 19238), (157, 19265), (159, 19274),

Gene: Potter_25 Start: 18863, Stop: 19426, Start Num: 41
Candidate Starts for Potter_25:
(7, 18692), (Start: 41 @18863 has 311 MA's), (Start: 100 @19049 has 2 MA's), (121, 19103), (155, 19334), (162, 19394),

Gene: Prickles_26 Start: 19142, Stop: 19705, Start Num: 41
Candidate Starts for Prickles_26:
(7, 18971), (Start: 41 @19142 has 311 MA's), (Start: 100 @19328 has 2 MA's), (121, 19382), (155, 19613), (162, 19673),

Gene: Prince_24 Start: 19965, Stop: 20525, Start Num: 36
Candidate Starts for Prince_24:
(Start: 36 @19965 has 28 MA's), (60, 20025), (83, 20082), (89, 20091), (96, 20127), (97, 20133), (103, 20148), (109, 20166), (121, 20196), (129, 20220), (143, 20340), (144, 20346), (151, 20415), (155, 20430), (157, 20457), (159, 20466),

Gene: PrinceCharming_28 Start: 21434, Stop: 21919, Start Num: 58
Candidate Starts for PrinceCharming_28:
(Start: 58 @21434 has 18 MA's), (64, 21461), (88, 21503), (119, 21569), (120, 21572), (127, 21590), (132, 21614), (136, 21653), (142, 21698), (143, 21710), (145, 21722), (146, 21734), (150, 21761), (152, 21788), (154, 21797), (155, 21800), (161, 21848), (165, 21872),

Gene: ProfessorX_26 Start: 19140, Stop: 19703, Start Num: 41
Candidate Starts for ProfessorX_26:
(7, 18969), (Start: 41 @19140 has 311 MA's), (Start: 100 @19326 has 2 MA's), (121, 19380), (155, 19611), (162, 19671),

Gene: Puhltonio_26 Start: 19157, Stop: 19720, Start Num: 41
Candidate Starts for Puhltonio_26:
(Start: 41 @19157 has 311 MA's), (Start: 100 @19343 has 2 MA's), (121, 19397), (155, 19628), (162, 19688),

Gene: QueenBeane_26 Start: 19148, Stop: 19711, Start Num: 41
Candidate Starts for QueenBeane_26:
(7, 18977), (Start: 41 @19148 has 311 MA's), (Start: 100 @19334 has 2 MA's), (121, 19388), (155, 19619), (162, 19679),

Gene: QueenPie_23 Start: 19969, Stop: 20529, Start Num: 36
Candidate Starts for QueenPie_23:
(Start: 36 @19969 has 28 MA's), (83, 20086), (89, 20095), (96, 20131), (97, 20137), (103, 20152), (109, 20170), (121, 20200), (129, 20224), (143, 20344), (144, 20350), (145, 20356), (151, 20419), (155, 20434), (157, 20461), (159, 20470),

Gene: Quesadilla_27 Start: 21307, Stop: 21885, Start Num: 21
Candidate Starts for Quesadilla_27:
(Start: 21 @21307 has 4 MA's), (108, 21505), (151, 21754), (155, 21769), (163, 21832),

Gene: Quisquiliae_26 Start: 19164, Stop: 19727, Start Num: 41
Candidate Starts for Quisquiliae_26:
(Start: 41 @19164 has 311 MA's), (Start: 100 @19350 has 2 MA's), (121, 19404), (155, 19635), (162, 19695),

Gene: Qyrzula_26 Start: 21403, Stop: 21888, Start Num: 57
Candidate Starts for Qyrzula_26:
(Start: 57 @21403 has 41 MA's), (64, 21430), (88, 21472), (119, 21538), (120, 21541), (127, 21559), (132, 21583), (136, 21622), (142, 21667), (143, 21679), (145, 21691), (146, 21703), (150, 21730), (152, 21757), (154, 21766), (155, 21769), (161, 21817), (165, 21841),

Gene: RagingRooster_27 Start: 19777, Stop: 20370, Start Num: 46
Candidate Starts for RagingRooster_27:
(Start: 46 @19777 has 45 MA's), (48, 19783), (Start: 57 @19816 has 41 MA's), (142, 20146), (148, 20191), (152, 20236), (155, 20248), (161, 20296),

Gene: RawrgerThat_24 Start: 19802, Stop: 20362, Start Num: 36
Candidate Starts for RawrgerThat_24:
(Start: 36 @19802 has 28 MA's), (60, 19862), (83, 19919), (89, 19928), (96, 19964), (97, 19970), (103, 19985), (109, 20003), (121, 20033), (129, 20057), (143, 20177), (144, 20183), (151, 20252), (155, 20267), (157, 20294), (159, 20303),

Gene: Reccee_26 Start: 20040, Stop: 20606, Start Num: 41
Candidate Starts for Reccee_26:
(7, 19866), (Start: 41 @20040 has 311 MA's), (70, 20145), (72, 20148), (103, 20226), (105, 20238), (151, 20484), (155, 20499), (157, 20526), (160, 20544),

Gene: RedMaple_25 Start: 19159, Stop: 19719, Start Num: 41
Candidate Starts for RedMaple_25:
(7, 18988), (Start: 41 @19159 has 311 MA's), (Start: 100 @19345 has 2 MA's), (121, 19399), (155, 19630), (162, 19690),

Gene: RedRaider89_27 Start: 19379, Stop: 19939, Start Num: 41
Candidate Starts for RedRaider89_27:
(7, 19208), (Start: 41 @19379 has 311 MA's), (Start: 100 @19565 has 2 MA's), (121, 19619), (155, 19850), (162, 19910),

Gene: Renkei_23 Start: 18780, Stop: 19340, Start Num: 36
Candidate Starts for Renkei_23:
(Start: 36 @18780 has 28 MA's), (83, 18897), (89, 18906), (96, 18942), (97, 18948), (103, 18963), (109, 18981), (121, 19011), (129, 19035), (131, 19053), (143, 19155), (144, 19161), (145, 19167), (151, 19230), (155, 19245), (157, 19272), (159, 19281),

Gene: Reprobate_26 Start: 20073, Stop: 20681, Start Num: 28
Candidate Starts for Reprobate_26:
(Start: 28 @20073 has 2 MA's), (Start: 41 @20112 has 311 MA's), (69, 20217), (83, 20253), (105, 20313), (124, 20352), (137, 20433), (151, 20559), (155, 20574), (156, 20589), (159, 20610), (160, 20619), (162, 20634),

Gene: Rhinoforte_28 Start: 21434, Stop: 21919, Start Num: 57
Candidate Starts for Rhinoforte_28:
(Start: 57 @21434 has 41 MA's), (64, 21461), (88, 21503), (119, 21569), (120, 21572), (127, 21590), (132, 21614), (136, 21653), (142, 21698), (143, 21710), (145, 21722), (146, 21734), (150, 21761), (152, 21788), (154, 21797), (155, 21800), (161, 21848), (165, 21872),

Gene: Rich_25 Start: 19612, Stop: 20178, Start Num: 41
Candidate Starts for Rich_25:
(7, 19438), (15, 19471), (Start: 41 @19612 has 311 MA's), (103, 19798), (105, 19810), (118, 19828), (151, 20056), (155, 20071), (157, 20098), (159, 20107),

Gene: Ricotta_25 Start: 18871, Stop: 19434, Start Num: 41
Candidate Starts for Ricotta_25:
(7, 18700), (Start: 41 @18871 has 311 MA's), (Start: 100 @19057 has 2 MA's), (121, 19111), (155, 19342), (162, 19402),

Gene: Riggan_26 Start: 19131, Stop: 19694, Start Num: 41
Candidate Starts for Riggan_26:
(7, 18960), (Start: 41 @19131 has 311 MA's), (Start: 100 @19317 has 2 MA's), (121, 19371), (155, 19602), (162, 19662),

Gene: Rimu_26 Start: 18880, Stop: 19443, Start Num: 41
Candidate Starts for Rimu_26:
(7, 18709), (Start: 41 @18880 has 311 MA's), (Start: 100 @19066 has 2 MA's), (121, 19120), (135, 19195), (155, 19351), (162, 19411),

Gene: Rinkes_29 Start: 22134, Stop: 22805, Start Num: 35
Candidate Starts for Rinkes_29:
(15, 21999), (Start: 35 @22134 has 1 MA's), (Start: 37 @22140 has 2 MA's), (52, 22188), (65, 22245), (76, 22275), (98, 22356), (102, 22374), (114, 22428), (115, 22434), (129, 22479), (133, 22512), (137, 22548), (151, 22674), (155, 22689), (157, 22716), (162, 22749), (165, 22761),

Gene: Rita130_26 Start: 19860, Stop: 20426, Start Num: 41
Candidate Starts for Rita130_26:
(7, 19686), (Start: 41 @19860 has 311 MA's), (70, 19965), (72, 19968), (103, 20046), (105, 20058), (151, 20304), (155, 20319), (157, 20346), (160, 20364),

Gene: Rita1961_27 Start: 19811, Stop: 20365, Start Num: 57
Candidate Starts for Rita1961_27:
(Start: 46 @19772 has 45 MA's), (48, 19778), (Start: 57 @19811 has 41 MA's), (142, 20141), (148, 20186), (152, 20231), (155, 20243), (161, 20291),

Gene: Riverton_26 Start: 19155, Stop: 19718, Start Num: 41
Candidate Starts for Riverton_26:
(7, 18984), (Start: 41 @19155 has 311 MA's), (Start: 100 @19341 has 2 MA's), (121, 19395), (155, 19626), (162, 19686),

Gene: Robyn_25 Start: 18722, Stop: 19285, Start Num: 41
Candidate Starts for Robyn_25:
(7, 18551), (29, 18692), (Start: 41 @18722 has 311 MA's), (Start: 100 @18908 has 2 MA's), (121, 18962), (155, 19193), (162, 19253),

Gene: Roliet_26 Start: 19147, Stop: 19710, Start Num: 41
Candidate Starts for Roliet_26:
(7, 18976), (Start: 41 @19147 has 311 MA's), (Start: 100 @19333 has 2 MA's), (121, 19387), (155, 19618), (162, 19678),

Gene: RomaT_27 Start: 20562, Stop: 21155, Start Num: 46
Candidate Starts for RomaT_27:
(Start: 46 @20562 has 45 MA's), (48, 20568), (Start: 57 @20601 has 41 MA's), (142, 20931), (148, 20976), (152, 21021), (155, 21033), (161, 21081),

Gene: Roscoe_27 Start: 19389, Stop: 19949, Start Num: 41
Candidate Starts for Roscoe_27:
(7, 19218), (Start: 41 @19389 has 311 MA's), (Start: 100 @19575 has 2 MA's), (121, 19629), (155, 19860), (162, 19920),

Gene: Rosebush_28 Start: 21435, Stop: 21920, Start Num: 58
Candidate Starts for Rosebush_28:
(Start: 58 @21435 has 18 MA's), (64, 21462), (88, 21504), (119, 21570), (120, 21573), (127, 21591), (132, 21615), (136, 21654), (142, 21699), (143, 21711), (145, 21723), (146, 21735), (150, 21762), (152, 21789), (154, 21798), (155, 21801), (161, 21849), (165, 21873),

Gene: Roy17_26 Start: 18851, Stop: 19414, Start Num: 41
Candidate Starts for Roy17_26:
(7, 18680), (Start: 41 @18851 has 311 MA's), (Start: 100 @19037 has 2 MA's), (121, 19091), (155, 19322), (162, 19382),

Gene: SDcharge11_26 Start: 19129, Stop: 19689, Start Num: 41
Candidate Starts for SDcharge11_26:
(7, 18958), (Start: 41 @19129 has 311 MA's), (Start: 100 @19315 has 2 MA's), (121, 19369), (155, 19600), (162, 19660),

Gene: Sabella_28 Start: 21321, Stop: 21806, Start Num: 58
Candidate Starts for Sabella_28:
(Start: 58 @21321 has 18 MA's), (64, 21348), (88, 21390), (119, 21456), (120, 21459), (127, 21477), (132, 21501), (136, 21540), (142, 21585), (143, 21597), (145, 21609), (146, 21621), (150, 21648), (152, 21675), (154, 21684), (155, 21687), (161, 21735), (165, 21759),

Gene: Saguaro_27 Start: 21191, Stop: 21841, Start Num: 21
Candidate Starts for Saguaro_27:
(Start: 21 @21191 has 4 MA's), (130, 21521), (145, 21647), (151, 21710), (155, 21725), (163, 21788),

Gene: Salazzle_26 Start: 18721, Stop: 19284, Start Num: 41
Candidate Starts for Salazzle_26:
(7, 18550), (Start: 41 @18721 has 311 MA's), (Start: 100 @18907 has 2 MA's), (121, 18961), (135, 19036), (155, 19192), (162, 19252),

Gene: SallyH_26 Start: 19161, Stop: 19724, Start Num: 41
Candidate Starts for SallyH_26:
(7, 18990), (Start: 41 @19161 has 311 MA's), (Start: 100 @19347 has 2 MA's), (121, 19401), (155, 19632), (162, 19692),

Gene: Samaymay_26 Start: 19148, Stop: 19711, Start Num: 41
Candidate Starts for Samaymay_26:

(7, 18977), (Start: 41 @19148 has 311 MA's), (Start: 100 @19334 has 2 MA's), (121, 19388), (155, 19619), (162, 19679),

Gene: SassyCat97_25 Start: 18857, Stop: 19420, Start Num: 41
Candidate Starts for SassyCat97_25:
(7, 18686), (Start: 41 @18857 has 311 MA's), (Start: 100 @19043 has 2 MA's), (121, 19097), (155, 19328), (162, 19388),

Gene: Schadenfreude_25 Start: 18705, Stop: 19268, Start Num: 41
Candidate Starts for Schadenfreude_25:
(7, 18534), (Start: 41 @18705 has 311 MA's), (Start: 100 @18891 has 2 MA's), (121, 18945), (155, 19176), (162, 19236),

Gene: Schueller_25 Start: 18848, Stop: 19411, Start Num: 41
Candidate Starts for Schueller_25:
(7, 18677), (Start: 41 @18848 has 311 MA's), (Start: 100 @19034 has 2 MA's), (121, 19088), (155, 19319), (162, 19379),

Gene: Scoot17C_26 Start: 19150, Stop: 19713, Start Num: 41
Candidate Starts for Scoot17C_26:
(7, 18979), (Start: 41 @19150 has 311 MA's), (Start: 100 @19336 has 2 MA's), (121, 19390), (155, 19621), (162, 19681),

Gene: Scrick_26 Start: 18875, Stop: 19438, Start Num: 41
Candidate Starts for Scrick_26:
(7, 18704), (Start: 41 @18875 has 311 MA's), (Start: 100 @19061 has 2 MA's), (121, 19115), (155, 19346), (162, 19406),

Gene: Sejanus_23 Start: 18142, Stop: 18735, Start Num: 41
Candidate Starts for Sejanus_23:
(Start: 41 @18142 has 311 MA's), (126, 18391), (137, 18454), (145, 18520), (149, 18541), (151, 18577), (154, 18589), (158, 18631), (166, 18700), (167, 18709),

Gene: Selr12_26 Start: 18872, Stop: 19435, Start Num: 41
Candidate Starts for Selr12_26:
(7, 18701), (Start: 41 @18872 has 311 MA's), (Start: 100 @19058 has 2 MA's), (121, 19112), (155, 19343), (162, 19403),

Gene: Septica_25 Start: 19158, Stop: 19721, Start Num: 41
Candidate Starts for Septica_25:
(7, 18987), (Start: 41 @19158 has 311 MA's), (Start: 100 @19344 has 2 MA's), (121, 19398), (155, 19629), (162, 19689),

Gene: Serendipitous_25 Start: 19669, Stop: 20238, Start Num: 41
Candidate Starts for Serendipitous_25:
(7, 19495), (Start: 41 @19669 has 311 MA's), (67, 19771), (83, 19810), (103, 19858), (105, 19870), (151, 20116), (155, 20131), (157, 20158), (159, 20167), (162, 20191),

Gene: Serendipity_26 Start: 19170, Stop: 19730, Start Num: 41
Candidate Starts for Serendipity_26:
(7, 18999), (Start: 41 @19170 has 311 MA's), (Start: 100 @19356 has 2 MA's), (121, 19410), (155, 19641), (162, 19701),

Gene: Serpentine_0026 Start: 19150, Stop: 19713, Start Num: 41
Candidate Starts for Serpentine_0026:
(7, 18979), (Start: 41 @19150 has 311 MA's), (Start: 100 @19336 has 2 MA's), (121, 19390), (155, 19621), (162, 19681),

Gene: ShadowBud_26 Start: 19164, Stop: 19727, Start Num: 41
Candidate Starts for ShadowBud_26:
(Start: 41 @19164 has 311 MA's), (Start: 100 @19350 has 2 MA's), (121, 19404), (155, 19635), (162, 19695),

Gene: Shatter_23 Start: 17682, Stop: 18221, Start Num: 57
Candidate Starts for Shatter_23:
(Start: 31 @17577 has 1 MA's), (Start: 57 @17682 has 41 MA's), (88, 17760), (128, 17868), (129, 17874), (144, 17997), (146, 18015), (148, 18024), (151, 18066), (155, 18081), (161, 18129), (162, 18141),

Gene: Sheila_26 Start: 19142, Stop: 19705, Start Num: 41
Candidate Starts for Sheila_26:
(7, 18971), (Start: 41 @19142 has 311 MA's), (Start: 100 @19328 has 2 MA's), (121, 19382), (155, 19613), (162, 19673),

Gene: Shenandoah_27 Start: 19755, Stop: 20348, Start Num: 46
Candidate Starts for Shenandoah_27:
(Start: 46 @19755 has 45 MA's), (48, 19761), (Start: 57 @19794 has 41 MA's), (95, 19899), (142, 20124), (148, 20169), (152, 20214), (155, 20226), (161, 20274),

Gene: Shenyu_26 Start: 19812, Stop: 20381, Start Num: 41
Candidate Starts for Shenyu_26:
(Start: 41 @19812 has 311 MA's), (67, 19914), (103, 20001), (105, 20013), (123, 20049), (151, 20259), (155, 20274), (157, 20301),

Gene: ShiVal_26 Start: 19142, Stop: 19705, Start Num: 41
Candidate Starts for ShiVal_26:
(7, 18971), (Start: 41 @19142 has 311 MA's), (Start: 100 @19328 has 2 MA's), (121, 19382), (155, 19613), (162, 19673),

Gene: Sigman_26 Start: 19141, Stop: 19704, Start Num: 41
Candidate Starts for Sigman_26:
(7, 18970), (Start: 41 @19141 has 311 MA's), (Start: 100 @19327 has 2 MA's), (121, 19381), (155, 19612), (162, 19672),

Gene: SilverBell_26 Start: 19165, Stop: 19728, Start Num: 41
Candidate Starts for SilverBell_26:
(7, 18994), (Start: 41 @19165 has 311 MA's), (Start: 100 @19351 has 2 MA's), (121, 19405), (155, 19636), (162, 19696),

Gene: Simielle_25 Start: 18840, Stop: 19403, Start Num: 41
Candidate Starts for Simielle_25:
(7, 18669), (Start: 41 @18840 has 311 MA's), (Start: 100 @19026 has 2 MA's), (121, 19080), (155, 19311), (162, 19371),

Gene: SirBeauregard_25 Start: 18834, Stop: 19397, Start Num: 41
Candidate Starts for SirBeauregard_25:

(7, 18663), (Start: 41 @18834 has 311 MA's), (Start: 100 @19020 has 2 MA's), (121, 19074), (135, 19149), (155, 19305), (162, 19365),

Gene: SirJeffery_26 Start: 19855, Stop: 20421, Start Num: 41
Candidate Starts for SirJeffery_26:
(7, 19681), (Start: 41 @19855 has 311 MA's), (70, 19960), (72, 19963), (103, 20041), (105, 20053), (151, 20299), (155, 20314), (157, 20341), (160, 20359),

Gene: Sisko_23 Start: 17967, Stop: 18464, Start Num: 57
Candidate Starts for Sisko_23:
(Start: 57 @17967 has 41 MA's), (83, 18039), (107, 18075), (143, 18249), (144, 18255), (151, 18324), (155, 18339), (161, 18387),

Gene: Skippy_26 Start: 19136, Stop: 19699, Start Num: 41
Candidate Starts for Skippy_26:
(Start: 41 @19136 has 311 MA's), (Start: 100 @19322 has 2 MA's), (121, 19376), (155, 19607), (162, 19667),

Gene: Slatt_26 Start: 19164, Stop: 19727, Start Num: 41
Candidate Starts for Slatt_26:
(7, 18993), (Start: 41 @19164 has 311 MA's), (Start: 100 @19350 has 2 MA's), (121, 19404), (155, 19635), (162, 19695),

Gene: SlippinJimmy_27 Start: 20580, Stop: 21134, Start Num: 57
Candidate Starts for SlippinJimmy_27:
(Start: 46 @20541 has 45 MA's), (48, 20547), (Start: 57 @20580 has 41 MA's), (142, 20910), (148, 20955), (152, 21000), (155, 21012), (161, 21060),

Gene: Soile_26 Start: 18862, Stop: 19425, Start Num: 41
Candidate Starts for Soile_26:
(7, 18691), (Start: 41 @18862 has 311 MA's), (Start: 100 @19048 has 2 MA's), (121, 19102), (135, 19177), (155, 19333), (162, 19393),

Gene: Solosis_25 Start: 18867, Stop: 19427, Start Num: 41
Candidate Starts for Solosis_25:
(7, 18696), (Start: 41 @18867 has 311 MA's), (Start: 100 @19053 has 2 MA's), (121, 19107), (155, 19338), (162, 19398),

Gene: Sophia_25 Start: 18860, Stop: 19423, Start Num: 41
Candidate Starts for Sophia_25:
(7, 18689), (Start: 41 @18860 has 311 MA's), (Start: 100 @19046 has 2 MA's), (121, 19100), (155, 19331), (162, 19391),

Gene: Soto_26 Start: 19144, Stop: 19707, Start Num: 41
Candidate Starts for Soto_26:
(7, 18973), (Start: 41 @19144 has 311 MA's), (Start: 100 @19330 has 2 MA's), (121, 19384), (155, 19615), (162, 19675),

Gene: Sour_27 Start: 21685, Stop: 22194, Start Num: 57
Candidate Starts for Sour_27:
(Start: 57 @21685 has 41 MA's), (88, 21763), (118, 21817), (144, 21973), (147, 21994), (155, 22057), (161, 22105),

Gene: Spartan300_26 Start: 19145, Stop: 19708, Start Num: 41
Candidate Starts for Spartan300_26:
(7, 18974), (Start: 41 @19145 has 311 MA's), (Start: 100 @19331 has 2 MA's), (121, 19385), (155, 19616), (162, 19676),

Gene: Squid_26 Start: 18857, Stop: 19420, Start Num: 41
Candidate Starts for Squid_26:
(7, 18686), (Start: 41 @18857 has 311 MA's), (Start: 100 @19043 has 2 MA's), (121, 19097), (155, 19328), (162, 19388),

Gene: Squiggle_26 Start: 18854, Stop: 19417, Start Num: 41
Candidate Starts for Squiggle_26:
(7, 18683), (Start: 41 @18854 has 311 MA's), (Start: 100 @19040 has 2 MA's), (121, 19094), (155, 19325), (162, 19385),

Gene: StAugustine_30 Start: 22111, Stop: 22803, Start Num: 26
Candidate Starts for StAugustine_30:
(Start: 26 @22111 has 2 MA's), (85, 22321), (141, 22552), (146, 22594), (147, 22597), (152, 22648), (153, 22651), (155, 22660),

Gene: Stinger_22 Start: 18290, Stop: 18919, Start Num: 24
Candidate Starts for Stinger_22:
(Start: 24 @18290 has 1 MA's), (27, 18308), (Start: 36 @18350 has 28 MA's), (60, 18419), (66, 18440), (83, 18476), (89, 18485), (96, 18521), (98, 18527), (109, 18557), (121, 18590), (124, 18599), (129, 18614), (131, 18632), (143, 18734), (144, 18740), (145, 18746), (151, 18809), (155, 18824), (157, 18851), (159, 18860),

Gene: StinkyVeggy_28 Start: 19984, Stop: 20553, Start Num: 41
Candidate Starts for StinkyVeggy_28:
(Start: 41 @19984 has 311 MA's), (67, 20086), (103, 20173), (105, 20185), (123, 20221), (151, 20431), (155, 20446), (157, 20473),

Gene: Struggle_25 Start: 18701, Stop: 19264, Start Num: 41
Candidate Starts for Struggle_25:
(7, 18530), (Start: 41 @18701 has 311 MA's), (Start: 100 @18887 has 2 MA's), (121, 18941), (135, 19016), (155, 19172), (162, 19232),

Gene: Suffolk_26 Start: 19147, Stop: 19710, Start Num: 41
Candidate Starts for Suffolk_26:
(7, 18976), (Start: 41 @19147 has 311 MA's), (Start: 100 @19333 has 2 MA's), (121, 19387), (155, 19618), (162, 19678),

Gene: Suigeneris_26 Start: 19864, Stop: 20430, Start Num: 41
Candidate Starts for Suigeneris_26:
(7, 19690), (Start: 41 @19864 has 311 MA's), (70, 19969), (72, 19972), (103, 20050), (105, 20062), (151, 20308), (155, 20323), (157, 20350), (160, 20368),

Gene: Surely_26 Start: 19159, Stop: 19722, Start Num: 41
Candidate Starts for Surely_26:
(7, 18988), (Start: 41 @19159 has 311 MA's), (Start: 100 @19345 has 2 MA's), (121, 19399), (155, 19630), (162, 19690),

Gene: SwainyDoc_27 Start: 19774, Stop: 20367, Start Num: 46

Candidate Starts for SwainyDoc_27:
(Start: 46 @19774 has 45 MA's), (48, 19780), (Start: 57 @19813 has 41 MA's), (142, 20143), (148, 20188), (152, 20233), (155, 20245), (161, 20293),

Gene: Swiphy_26 Start: 19148, Stop: 19711, Start Num: 41
Candidate Starts for Swiphy_26:
(7, 18977), (Start: 41 @19148 has 311 MA's), (Start: 100 @19334 has 2 MA's), (121, 19388), (135, 19463), (155, 19619), (162, 19679),

Gene: Swish_26 Start: 19142, Stop: 19705, Start Num: 41
Candidate Starts for Swish_26:
(7, 18971), (Start: 41 @19142 has 311 MA's), (Start: 100 @19328 has 2 MA's), (121, 19382), (155, 19613), (162, 19673),

Gene: SynergyX_27 Start: 19777, Stop: 20370, Start Num: 46
Candidate Starts for SynergyX_27:
(Start: 46 @19777 has 45 MA's), (48, 19783), (Start: 57 @19816 has 41 MA's), (142, 20146), (148, 20191), (152, 20236), (155, 20248), (161, 20296),

Gene: TA17A_29 Start: 21314, Stop: 21799, Start Num: 57
Candidate Starts for TA17A_29:
(Start: 57 @21314 has 41 MA's), (64, 21341), (88, 21383), (119, 21449), (120, 21452), (127, 21470), (132, 21494), (136, 21533), (142, 21578), (143, 21590), (145, 21602), (146, 21614), (150, 21641), (152, 21668), (154, 21677), (155, 21680), (161, 21728), (165, 21752),

Gene: TPA2_32 Start: 20033, Stop: 20467, Start Num: 73
Candidate Starts for TPA2_32:
(73, 20033), (88, 20066), (117, 20117), (128, 20144), (129, 20150), (134, 20186), (143, 20270), (144, 20276), (145, 20282), (146, 20294), (152, 20348), (155, 20360), (161, 20408), (165, 20432),

Gene: TallGrassMM_26 Start: 18874, Stop: 19437, Start Num: 41
Candidate Starts for TallGrassMM_26:
(7, 18703), (Start: 41 @18874 has 311 MA's), (Start: 100 @19060 has 2 MA's), (121, 19114), (155, 19345), (162, 19405),

Gene: Taptic_20 Start: 18567, Stop: 19142, Start Num: 62
Candidate Starts for Taptic_20:
(2, 18051), (3, 18123), (13, 18291), (14, 18303), (19, 18339), (42, 18474), (43, 18477), (61, 18558), (Start: 62 @18567 has 6 MA's), (Start: 100 @18675 has 2 MA's), (111, 18723), (137, 18858), (139, 18876), (143, 18909), (151, 18984), (154, 18996), (155, 18999), (165, 19068),

Gene: Taraxa_26 Start: 18728, Stop: 19291, Start Num: 41
Candidate Starts for Taraxa_26:
(7, 18557), (Start: 41 @18728 has 311 MA's), (Start: 100 @18914 has 2 MA's), (121, 18968), (135, 19043), (155, 19199), (162, 19259),

Gene: Telesworld_25 Start: 18853, Stop: 19416, Start Num: 41
Candidate Starts for Telesworld_25:
(7, 18682), (Start: 41 @18853 has 311 MA's), (Start: 100 @19039 has 2 MA's), (121, 19093), (155, 19324), (162, 19384),

Gene: Thonko_25 Start: 17603, Stop: 18328, Start Num: 31
Candidate Starts for Thonko_25:

(5, 17396), (Start: 31 @17603 has 1 MA's), (47, 17663), (115, 17936), (125, 17969), (136, 18044), (148, 18134), (149, 18140), (151, 18176), (152, 18179), (154, 18188), (155, 18191), (160, 18236),

Gene: Thora_26 Start: 19159, Stop: 19719, Start Num: 41
Candidate Starts for Thora_26:
(Start: 41 @19159 has 311 MA's), (Start: 100 @19345 has 2 MA's), (121, 19399), (155, 19630), (162, 19690),

Gene: ThreeOh3D2_26 Start: 19157, Stop: 19717, Start Num: 41
Candidate Starts for ThreeOh3D2_26:
(7, 18986), (Start: 41 @19157 has 311 MA's), (Start: 100 @19343 has 2 MA's), (121, 19397), (155, 19628), (162, 19688),

Gene: Thunderbird_25 Start: 18857, Stop: 19417, Start Num: 41
Candidate Starts for Thunderbird_25:
(7, 18686), (Start: 41 @18857 has 311 MA's), (Start: 100 @19043 has 2 MA's), (121, 19097), (155, 19328), (162, 19388),

Gene: Timmi_25 Start: 18868, Stop: 19428, Start Num: 41
Candidate Starts for Timmi_25:
(7, 18697), (Start: 41 @18868 has 311 MA's), (Start: 100 @19054 has 2 MA's), (121, 19108), (155, 19339), (162, 19399),

Gene: Tinciduntsolum_29 Start: 21437, Stop: 21922, Start Num: 58
Candidate Starts for Tinciduntsolum_29:
(Start: 58 @21437 has 18 MA's), (64, 21464), (88, 21506), (119, 21572), (120, 21575), (127, 21593), (132, 21617), (136, 21656), (142, 21701), (143, 21713), (145, 21725), (146, 21737), (150, 21764), (152, 21791), (154, 21800), (155, 21803), (161, 21851), (165, 21875),

Gene: TinyTerror_27 Start: 19774, Stop: 20367, Start Num: 46
Candidate Starts for TinyTerror_27:
(Start: 46 @19774 has 45 MA's), (48, 19780), (Start: 57 @19813 has 41 MA's), (142, 20143), (148, 20188), (152, 20233), (155, 20245), (161, 20293),

Gene: TomBombadil_26 Start: 19153, Stop: 19713, Start Num: 41
Candidate Starts for TomBombadil_26:
(7, 18982), (Start: 41 @19153 has 311 MA's), (Start: 100 @19339 has 2 MA's), (121, 19393), (155, 19624), (162, 19684),

Gene: Tomlarah_26 Start: 19143, Stop: 19706, Start Num: 41
Candidate Starts for Tomlarah_26:
(7, 18972), (Start: 41 @19143 has 311 MA's), (Start: 100 @19329 has 2 MA's), (121, 19383), (155, 19614), (162, 19674),

Gene: Toni_25 Start: 18852, Stop: 19415, Start Num: 41
Candidate Starts for Toni_25:
(7, 18681), (Start: 41 @18852 has 311 MA's), (Start: 100 @19038 has 2 MA's), (121, 19092), (155, 19323), (162, 19383),

Gene: TooFast2Furius_27 Start: 19389, Stop: 19949, Start Num: 41
Candidate Starts for TooFast2Furius_27:
(7, 19218), (Start: 41 @19389 has 311 MA's), (Start: 100 @19575 has 2 MA's), (121, 19629), (155, 19860), (162, 19920),

Gene: Tooj_26 Start: 19154, Stop: 19717, Start Num: 41
Candidate Starts for Tooj_26:
(7, 18983), (Start: 41 @19154 has 311 MA's), (Start: 100 @19340 has 2 MA's), (121, 19394), (155, 19625), (162, 19685),

Gene: TraderJ_25 Start: 19070, Stop: 19585, Start Num: 57
Candidate Starts for TraderJ_25:
(47, 19028), (Start: 50 @19034 has 4 MA's), (Start: 57 @19070 has 41 MA's), (64, 19097), (67, 19106), (93, 19166), (118, 19208), (139, 19322), (144, 19361), (147, 19382), (151, 19430), (155, 19445), (161, 19493), (162, 19505), (165, 19517),

Gene: Tres_28 Start: 21318, Stop: 21803, Start Num: 58
Candidate Starts for Tres_28:
(Start: 58 @21318 has 18 MA's), (64, 21345), (88, 21387), (119, 21453), (120, 21456), (127, 21474), (132, 21498), (136, 21537), (142, 21582), (143, 21594), (145, 21606), (146, 21618), (150, 21645), (152, 21672), (154, 21681), (155, 21684), (161, 21732), (165, 21756),

Gene: Triad_26 Start: 18023, Stop: 18586, Start Num: 41
Candidate Starts for Triad_26:
(7, 17852), (Start: 41 @18023 has 311 MA's), (Start: 100 @18209 has 2 MA's), (121, 18263), (155, 18494), (162, 18554),

Gene: True_25 Start: 18856, Stop: 19419, Start Num: 41
Candidate Starts for True_25:
(7, 18685), (Start: 41 @18856 has 311 MA's), (Start: 100 @19042 has 2 MA's), (121, 19096), (155, 19327), (162, 19387),

Gene: Trypo_26 Start: 19145, Stop: 19708, Start Num: 41
Candidate Starts for Trypo_26:
(7, 18974), (Start: 41 @19145 has 311 MA's), (Start: 100 @19331 has 2 MA's), (121, 19385), (135, 19460), (155, 19616), (162, 19676),

Gene: Tydolla_27 Start: 20514, Stop: 21107, Start Num: 46
Candidate Starts for Tydolla_27:
(Start: 46 @20514 has 45 MA's), (48, 20520), (Start: 57 @20553 has 41 MA's), (142, 20883), (148, 20928), (152, 20973), (155, 20985), (161, 21033),

Gene: TyrionL_25 Start: 18709, Stop: 19272, Start Num: 41
Candidate Starts for TyrionL_25:
(7, 18538), (Start: 41 @18709 has 311 MA's), (Start: 100 @18895 has 2 MA's), (121, 18949), (135, 19024), (155, 19180), (162, 19240),

Gene: UAch1_26 Start: 19165, Stop: 19728, Start Num: 41
Candidate Starts for UAch1_26:
(7, 18994), (Start: 41 @19165 has 311 MA's), (Start: 100 @19351 has 2 MA's), (121, 19405), (155, 19636), (162, 19696),

Gene: UncleHowie_26 Start: 18855, Stop: 19418, Start Num: 41
Candidate Starts for UncleHowie_26:
(7, 18684), (Start: 41 @18855 has 311 MA's), (Start: 100 @19041 has 2 MA's), (121, 19095), (155, 19326), (162, 19386),

Gene: Usavi_26 Start: 19156, Stop: 19719, Start Num: 41
Candidate Starts for Usavi_26:
(7, 18985), (Start: 41 @19156 has 311 MA's), (Start: 100 @19342 has 2 MA's), (121, 19396), (155, 19627), (162, 19687),

Gene: Vaishali24_25 Start: 18814, Stop: 19377, Start Num: 41
Candidate Starts for Vaishali24_25:
(7, 18643), (29, 18784), (Start: 41 @18814 has 311 MA's), (Start: 100 @19000 has 2 MA's), (121, 19054), (155, 19285), (162, 19345),

Gene: Valjean_26 Start: 19148, Stop: 19711, Start Num: 41
Candidate Starts for Valjean_26:
(7, 18977), (Start: 41 @19148 has 311 MA's), (Start: 100 @19334 has 2 MA's), (121, 19388), (155, 19619), (162, 19679),

Gene: Vaticameos_26 Start: 18846, Stop: 19409, Start Num: 41
Candidate Starts for Vaticameos_26:
(7, 18675), (Start: 41 @18846 has 311 MA's), (Start: 100 @19032 has 2 MA's), (121, 19086), (155, 19317), (162, 19377),

Gene: Vectra_25 Start: 18712, Stop: 19275, Start Num: 41
Candidate Starts for Vectra_25:
(7, 18541), (Start: 41 @18712 has 311 MA's), (Start: 100 @18898 has 2 MA's), (121, 18952), (135, 19027), (155, 19183), (162, 19243),

Gene: Veritas_25 Start: 18715, Stop: 19278, Start Num: 41
Candidate Starts for Veritas_25:
(7, 18544), (Start: 41 @18715 has 311 MA's), (Start: 100 @18901 has 2 MA's), (121, 18955), (135, 19030), (155, 19186), (162, 19246),

Gene: Vic9_00028 Start: 21795, Stop: 22250, Start Num: 68
Candidate Starts for Vic9_00028:
(Start: 57 @21765 has 41 MA's), (64, 21792), (Start: 68 @21795 has 1 MA's), (88, 21834), (119, 21900), (120, 21903), (127, 21921), (132, 21945), (136, 21984), (142, 22029), (143, 22041), (145, 22053), (146, 22065), (150, 22092), (152, 22119), (154, 22128), (155, 22131), (161, 22179), (165, 22203),

Gene: Vincenzo_25 Start: 20564, Stop: 21106, Start Num: 36
Candidate Starts for Vincenzo_25:
(Start: 36 @20564 has 28 MA's), (60, 20627), (92, 20696), (94, 20705), (105, 20738), (108, 20744), (109, 20747), (121, 20777), (143, 20921), (144, 20927), (151, 20996), (155, 21011), (159, 21047),

Gene: VioletZ_24 Start: 19861, Stop: 20421, Start Num: 36
Candidate Starts for VioletZ_24:
(Start: 36 @19861 has 28 MA's), (60, 19921), (83, 19978), (89, 19987), (96, 20023), (97, 20029), (109, 20062), (121, 20092), (129, 20116), (140, 20218), (143, 20236), (144, 20242), (151, 20311), (155, 20326), (157, 20353), (159, 20362),

Gene: Virapocalypse_26 Start: 19139, Stop: 19702, Start Num: 41
Candidate Starts for Virapocalypse_26:
(7, 18968), (Start: 41 @19139 has 311 MA's), (Start: 100 @19325 has 2 MA's), (121, 19379), (155, 19610), (162, 19670),

Gene: Virgeve_25 Start: 18881, Stop: 19444, Start Num: 41
Candidate Starts for Virgeve_25:
(7, 18710), (Start: 41 @18881 has 311 MA's), (Start: 100 @19067 has 2 MA's), (121, 19121), (135, 19196), (155, 19352), (162, 19412),

Gene: Vista_26 Start: 19153, Stop: 19716, Start Num: 41
Candidate Starts for Vista_26:
(7, 18982), (Start: 41 @19153 has 311 MA's), (Start: 100 @19339 has 2 MA's), (121, 19393), (155, 19624), (162, 19684),

Gene: Vivaldi_26 Start: 19183, Stop: 19743, Start Num: 41
Candidate Starts for Vivaldi_26:
(7, 19012), (Start: 41 @19183 has 311 MA's), (Start: 100 @19369 has 2 MA's), (121, 19423), (155, 19654), (162, 19714),

Gene: Vortex_26 Start: 18863, Stop: 19423, Start Num: 41
Candidate Starts for Vortex_26:
(7, 18692), (Start: 41 @18863 has 311 MA's), (Start: 100 @19049 has 2 MA's), (121, 19103), (155, 19334), (162, 19394),

Gene: Waleliano_24 Start: 19800, Stop: 20360, Start Num: 36
Candidate Starts for Waleliano_24:
(Start: 36 @19800 has 28 MA's), (60, 19860), (83, 19917), (89, 19926), (96, 19962), (97, 19968), (109, 20001), (121, 20031), (129, 20055), (143, 20175), (144, 20181), (151, 20250), (155, 20265), (157, 20292), (159, 20301),

Gene: Wallhey_25 Start: 18713, Stop: 19276, Start Num: 41
Candidate Starts for Wallhey_25:
(7, 18542), (Start: 41 @18713 has 311 MA's), (Start: 100 @18899 has 2 MA's), (121, 18953), (135, 19028), (155, 19184), (162, 19244),

Gene: Waterdiva_26 Start: 19148, Stop: 19711, Start Num: 41
Candidate Starts for Waterdiva_26:
(7, 18977), (Start: 41 @19148 has 311 MA's), (Start: 100 @19334 has 2 MA's), (121, 19388), (155, 19619), (162, 19679),

Gene: Weher20_26 Start: 19141, Stop: 19704, Start Num: 41
Candidate Starts for Weher20_26:
(7, 18970), (Start: 41 @19141 has 311 MA's), (Start: 100 @19327 has 2 MA's), (121, 19381), (155, 19612), (162, 19672),

Gene: West99_28 Start: 21438, Stop: 21923, Start Num: 58
Candidate Starts for West99_28:
(Start: 58 @21438 has 18 MA's), (64, 21465), (88, 21507), (119, 21573), (120, 21576), (127, 21594), (132, 21618), (136, 21657), (142, 21702), (143, 21714), (145, 21726), (146, 21738), (150, 21765), (152, 21792), (154, 21801), (155, 21804), (161, 21852), (165, 21876),

Gene: Windsor_25 Start: 18833, Stop: 19396, Start Num: 41
Candidate Starts for Windsor_25:
(7, 18662), (Start: 41 @18833 has 311 MA's), (Start: 100 @19019 has 2 MA's), (121, 19073), (135, 19148), (155, 19304), (162, 19364),

Gene: Wooper_25 Start: 19076, Stop: 19591, Start Num: 57

Candidate Starts for Wooper_25:
(47, 19034), (Start: 50 @19040 has 4 MA's), (Start: 57 @19076 has 41 MA's), (64, 19103), (67, 19112), (93, 19172), (118, 19214), (139, 19328), (144, 19367), (147, 19388), (151, 19436), (155, 19451), (161, 19499), (162, 19511), (165, 19523),

Gene: Xavier_25 Start: 18866, Stop: 19429, Start Num: 41
Candidate Starts for Xavier_25:
(7, 18695), (Start: 41 @18866 has 311 MA's), (Start: 100 @19052 has 2 MA's), (121, 19106), (155, 19337), (162, 19397),

Gene: Xincheng_23 Start: 19261, Stop: 19821, Start Num: 36
Candidate Starts for Xincheng_23:
(Start: 36 @19261 has 28 MA's), (60, 19321), (78, 19366), (83, 19378), (89, 19387), (96, 19423), (97, 19429), (109, 19462), (121, 19492), (123, 19498), (129, 19516), (143, 19636), (144, 19642), (151, 19711), (155, 19726), (157, 19753), (159, 19762),

Gene: Yago84_23 Start: 17975, Stop: 18538, Start Num: 57
Candidate Starts for Yago84_23:
(Start: 57 @17975 has 41 MA's), (83, 18047), (90, 18059), (101, 18107), (103, 18116), (143, 18323), (144, 18329), (151, 18398), (155, 18413), (161, 18461),

Gene: Yahalom_27 Start: 19789, Stop: 20382, Start Num: 46
Candidate Starts for Yahalom_27:
(Start: 46 @19789 has 45 MA's), (48, 19795), (Start: 57 @19828 has 41 MA's), (95, 19933), (142, 20158), (148, 20203), (152, 20248), (155, 20260), (161, 20308),

Gene: Yeshua_25 Start: 19017, Stop: 19568, Start Num: 50
Candidate Starts for Yeshua_25:
(47, 19011), (Start: 50 @19017 has 4 MA's), (Start: 57 @19053 has 41 MA's), (64, 19080), (67, 19089), (93, 19149), (118, 19191), (139, 19305), (144, 19344), (147, 19365), (151, 19413), (155, 19428), (161, 19476), (162, 19488), (165, 19500),

Gene: Yinz_27 Start: 19815, Stop: 20408, Start Num: 46
Candidate Starts for Yinz_27:
(Start: 46 @19815 has 45 MA's), (48, 19821), (Start: 57 @19854 has 41 MA's), (142, 20184), (148, 20229), (152, 20274), (155, 20286), (161, 20334),

Gene: Yoshand_26 Start: 19155, Stop: 19718, Start Num: 41
Candidate Starts for Yoshand_26:
(7, 18984), (Start: 41 @19155 has 311 MA's), (Start: 100 @19341 has 2 MA's), (121, 19395), (155, 19626), (162, 19686),

Gene: YouGoGlencoco_26 Start: 19144, Stop: 19707, Start Num: 41
Candidate Starts for YouGoGlencoco_26:
(7, 18973), (Start: 41 @19144 has 311 MA's), (Start: 100 @19330 has 2 MA's), (121, 19384), (155, 19615), (162, 19675),

Gene: Zaider_27 Start: 19380, Stop: 19943, Start Num: 41
Candidate Starts for Zaider_27:
(7, 19209), (Start: 41 @19380 has 311 MA's), (Start: 100 @19566 has 2 MA's), (121, 19620), (155, 19851), (162, 19911),

Gene: Zelda_26 Start: 19149, Stop: 19712, Start Num: 41

Candidate Starts for Zelda_26:
(7, 18978), (Start: 41 @19149 has 311 MA's), (Start: 100 @19335 has 2 MA's), (121, 19389), (155, 19620), (162, 19680),

Gene: Zemanar_25 Start: 19800, Stop: 20360, Start Num: 36
Candidate Starts for Zemanar_25:
(Start: 36 @19800 has 28 MA's), (60, 19860), (83, 19917), (89, 19926), (96, 19962), (97, 19968), (109, 20001), (121, 20031), (129, 20055), (143, 20175), (144, 20181), (151, 20250), (155, 20265), (157, 20292), (159, 20301),

Gene: Zenteno07_30 Start: 19548, Stop: 20225, Start Num: 22
Candidate Starts for Zenteno07_30:
(4, 19302), (Start: 22 @19548 has 1 MA's), (Start: 30 @19590 has 2 MA's), (70, 19728), (93, 19800), (99, 19815), (108, 19842), (133, 19932), (145, 20031), (151, 20094), (155, 20109), (162, 20169),

Gene: Zonia_26 Start: 19163, Stop: 19726, Start Num: 41
Candidate Starts for Zonia_26:
(7, 18992), (Start: 41 @19163 has 311 MA's), (Start: 100 @19349 has 2 MA's), (121, 19403), (135, 19478), (155, 19634), (162, 19694),