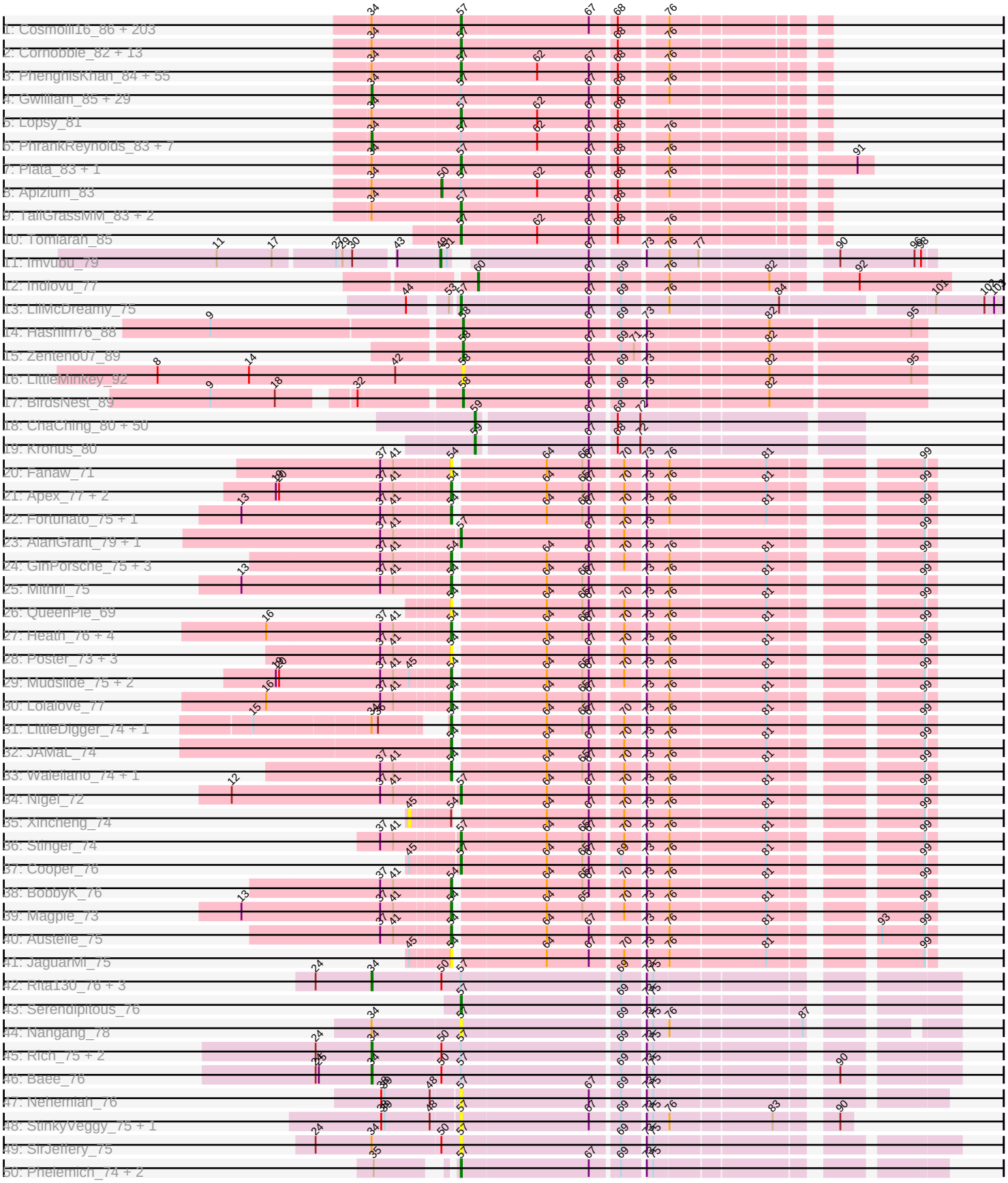
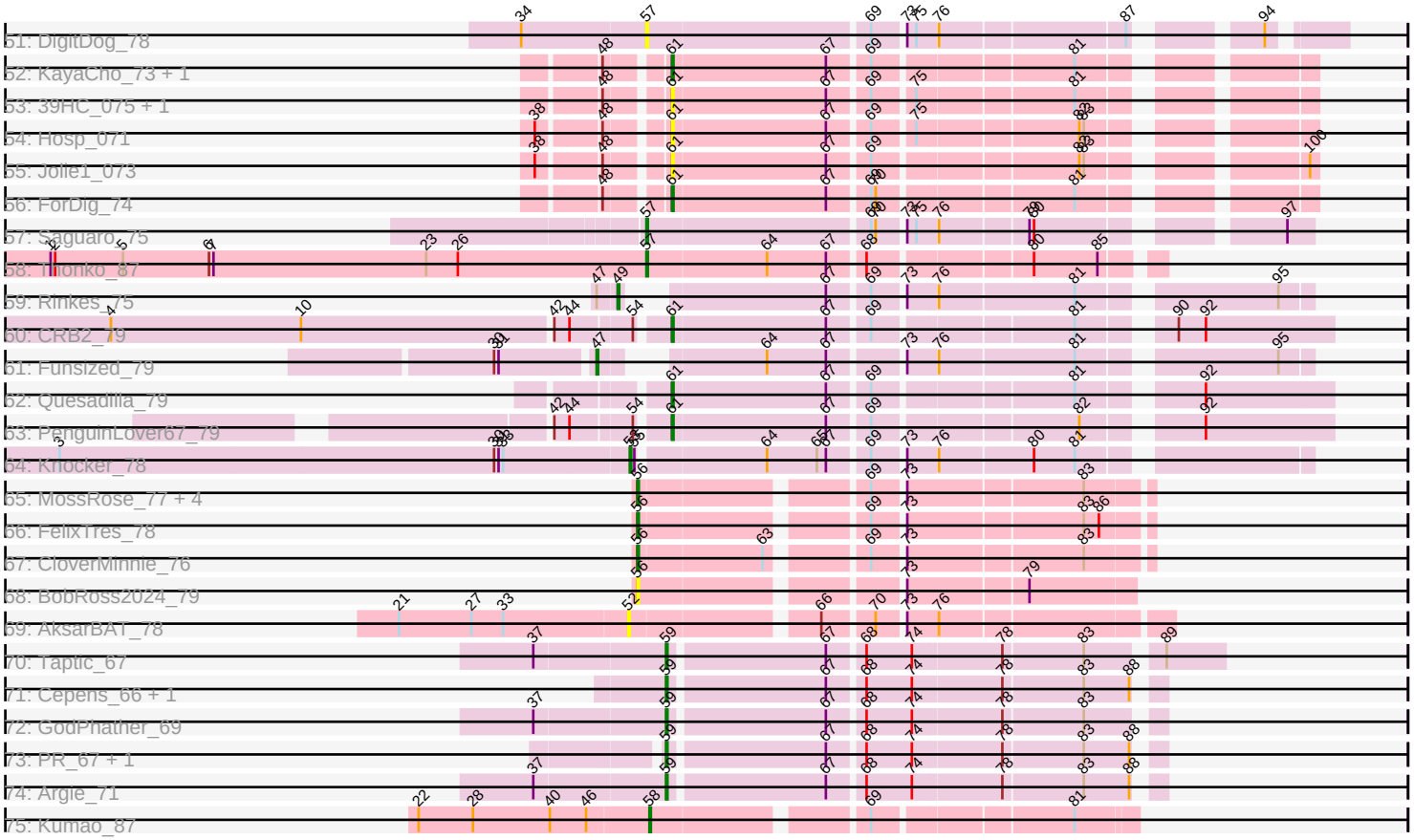
Pham 345237


1: Cosmolil16_86 + 203
2: Cornobble_82 + 13
3: PhenghisKhan_84 + 55
4: Gwilliam_85 + 29
5: Lopsy_81
6: PhrankReynolds_83 + 7
7: Plata_83 + 1
8: Apizium_83
9: TallGrassMM_83 + 2
10: Tomlaran_85
11: Imvubu_79
12: Indiovu_77
13: LilMcDreamy_75
14: Hashim76_88
15: Zenteno07_89
16: LittleMinkey_92
17: BirdsNest_89
18: ChaChing_80 + 50
19: Kronus_80
20: Fanaw_71
21: Apex_77 + 2
22: Fortunato_75 + 1
23: AlanGrant_79 + 1
24: GinPorsche_75 + 3
25: Mithril_75
26: QueenPie_69
27: Heath_76 + 4
28: Poster_73 + 3
29: Mudslide_75 + 2
30: Lolalove_77
31: LittleDigger_74 + 1
32: JAMaL_74
33: Wallellano_74 + 1
34: Nigel_72
35: Xincheng_74
36: Stinger_74
37: Cooper_76
38: BobbyK_76
39: Magpie_73
40: Austelle_75
41: JaguarMI_75
42: Rita130_76 + 3
43: Serendipitous_76
44: Nangang_78
45: Rich_75 + 2
46: Baee_76
47: Nehemiah_76
48: StinkyVeggy_75 + 1
49: SirJeffery_75
50: Phelemich_74 + 2

Pham 345237


51: DigitDog_78
52: KayaCho_73 + 1
53: 39HC_075 + 1
54: Hosp_071
55: Jolie1_073
56: ForDig_74
57: Saguaro_75
58: Thonko_87
59: Rinkes_75
60: CRB2_79
61: Funsized_79
62: Quesadilla_79
63: PenguinLover67_79
64: Knocker_78
65: MossRose_77 + 4
66: FelixTres_78
67: CloverMinnie_76
68: BobRoss2024_79
69: AksarBAT_78
70: Taptic_67
71: Cepens_66 + 1
72: GodPhather_69
73: PR_67 + 1
74: Argie_71
75: Kumao_87

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 345237 Report

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

Pham number 345237 has 469 members, 54 are drafts.

Phages represented in each track:
• Track 1 : Cosmolli16_86, HenryJackson_85, Pinkman_84, Nova1_84, Squiggle_83, AngelCake_83, YouGoGlencoco_84, Carthage_85, Mcshane_83, Podrick_83, Yoshand_85, Cannibal_85, SDcharge11_83, Etaye_83, HSavage_82, MitKao_84, Boehler_83, Thunderbird_84, Taraxa_84, Zaider_85, Jbug01_83, JDog_83, Vaishali24_85, Khan1_83, Squid_83, Gareth_84, Plmatters_82, Kloppinator_84, Sheila_80, Hamish_81, RedMaple_84, Karn_84, JakeO_85, Melc17_81, LostAndPhound_83, Schadenfreude_84, Vaticameos_81, Cornbread_83, ShadowBud_84, Scrick_83, Freya_81, KingTut_75, Mutante_85, FremontTroll_84, LeiMonet_87, Kimbrough_85, DolOn_88, DelRivs_82, ThreeOh3D2_86, Windsor_84, Phareon_82, Serpentine_0085, Septica_85, Cobra_84, Maru_84, Salazzle_82, Rimu_84, PhatLouie_86, OneBrain_87, IsaacEli_86, HogWash_85, ElvisPhasley_85, Lumine_85, Oosterbaan_84, SallyH_87, Jillium_85, Oline_83, Chorkpop_85, Dingo_81, Slatt_84, Labeouficaum_84, PallasAthena_85, Hekos_82, Roliet_81, Frankicide_83, Quisquiliae_86, Flake_83, Selr12_85, Cher_84, Buckeye_84, Adriana_84, Orwigg_83, Thora_83, Virapocalypse_85, Ricotta_84, Usavi_85, Pipsqueak_81, Swiphy_86, Chipette_84, Nyala_83, Horchata_81, Nathan_85, Aleia_83, Phamished_84, Mana_82, Magic8_83, RedRaider89_83, Gyarad_0083, Gophee_84, Duggie_84, JangoPhett_82, UAch1_85, Swish_85, DoesntMatter_81, Timmi_83, Virgeve_82, Wallhey_85, Lehmann_87, TyrionL_84, Phipps_83, Numberten_83, Hocus_82, Durga_86, Andre_86, Azuria_84, Struggle_84, NiaNia_85, OliverWalter_84, TomBombadil_84, ShiVal_82, GreenChile_83, Daffy_83, Orfeu_83, Kiwot_84, Robyn_86, Soto_81, PhrodoBaggins_86, Spartan300_83, Mecca_84, Manad_83, Waterdiva_85, Fringe_88, AltPhacts_82, Grand2040_82, Nehme_81, Bluephacebaby_83, Mesmerelda_83, ABU_83, KlimbOn_83, Piglet_0084, Morty_85, Scoot17C_85, Pacifista_83, BlueHusk_85, Dati_81, Placalicious_83, BoogieWoogie_85, Potter_80, Jesabah_86, ProfessorX_82, CampRoach_85, Lulwa_81, Emiris_86, Charles1_85, BlacksBerry_85, Weher20_81, SassyCat97_82, Roscoe_84, Anderson_86, Gwennie1_83, Aonishiki_84, Harvey_81, Kikipoo_86, Triad_86, Olive_82, Held_82, Childish_84, Inverness_82, Matalotodo_83, TooFast2Furius_83, Badfish_85, Hetaeria_84, LuckyMarjie_81, Basato_83, DaddyDaniels_87, Surely_84, GeneCoco_85, Haimas_82, DirtJuice_84, Zelda_84, Burr_84, Fozzie_82, KLucky39_82, MiniBoss_81, Soile_85, Skippy_85, MRabcd_84, MrPhizzler_87, HighStump_85, Iridessa_86, Kahve_85, Mulan_83, Eugenia_86, True_82, AbsoluteMadLad_83, Dice_83, Valjean_83, Riverton_83, KingVeVeVe_82, Simielle_83, Craff_86, Jiraiya_85, Mikota_81, Brilliant_87
• Track 2 : Cornobble_82, Olak_83, OSmaximus_85, Bishoperium_84, Haleema_83, Phunky_82, Altwerkus_82, LemonSlice_84, Lasso_83, PinheadLarry_83,

Prickles_85, Daka_86, Sophia_82, Colbert_82
• Track 3 : PhenghisKhan_84, MelsMeow_83, Dione_82, Vivaldi_84, Iridoclysis_83, Chute_84, Giraffe_84, Megatron_85, BatteryCK_82, Omniscient_85, Lego3393_82, Pherdinand_85, Phleuron_82, EmpTee_83, Longacauda_85, Nicole21_85, Coletti_87, DonSanchon_80, Legolas_85, Megamind20_84, Veritas_83, FleetyMac_84, Antonia_83, Mag7_82, LasagnaCat_85, Katniss_86, Schueller_82, Phergie_84, QueenBeane_84, BlackStallion_83, FluffyNinja_85, JacAttac_84, Kwksand96_85, Aelin_83, Beaglebox_81, Samaymay_84, Kwadwo_83, Tooj_81, FugateOSU_84, Chaelin_85, Keitherie_87, Chuni_87, CamL_84, ImtiyazSitla_85, Ashraf_85, Telesworld_82, Vista_83, Banjo_81, SirBeauregard_85, CharlieGBrown_82, Maskar_85, Inchworm_85, Jiminy_84, MichaelPhcott_82, Kailash_82, Riggan_85
• Track 4 : Gwilliam_85, Toni_84, Vectra_83, FriarPreacher_82, CheetO_81, Nacho_0087, Mosaic_82, PG1_83, Vortex_83, Orion_83, Murdoc_81, Pops_82, Derpp_84, UncleHowie_81, Trypo_85, Puhltonio_81, Eremos_83, Zonia_85, Newman_82, Roy17_82, Serendipity_84, Lulumae_81, Xavier_84, Chunky_84, LeeLot_83, Suffolk_81, Hertubise_84, Morgushi_82, Larson_86, Mesh1_85
• Track 5 : Lopsy_81
• Track 6 : PhrankReynolds_83, EmGer13_84, SilverBell_85, Doddsville_82, Hartsy_83, DuchessDung_82, Sigman_84, PhatCats2014_84
• Track 7 : Plata_83, Happabalu_82
• Track 8 : Apizium_83
• Track 9 : TallGrassMM_83, Solosis_82, Caspiboi_83
• Track 10 : Tomlarah_85
• Track 11 : Imvubu_79
• Track 12 : Indlovu_77
• Track 13 : LilMcDreamy_75
• Track 14 : Hashim76_88
• Track 15 : Zenteno07_89
• Track 16 : LittleMinkey_92
• Track 17 : BirdsNest_89
• Track 18 : ChaChing_80, Athena_82, Tydolla_76, GlenHope_81, Chentzyk_82, RagingRooster_79, Casbah_80, Pipefish_82, HarveySr_79, LestyG_78, Nozo_80, Jackstina_75, Heathcliff_80, Akoma_80, Yahalom_78, Mulaychimus_81, Phayeta_83, MmasiCarm_81, Gadjet_81, Deenasa_80, Neos5_80, Yinz_80, Audrey_80, SynergyX_80, Baloo_79, Rita1961_81, Mortcellus_80, Shenandoah_79, Kamiyu_80, Phaedrus_75, Glubnar_81, Bernardo_81, Marlia_81, Daisy_79, TinyTerror_81, Ben11_80, Corofin_80, Marley1013_81, Phlyer_80, Philly_79, Chalmers_79, Chandler_80, SlippinJimmy_83, Briakila_80, Halfpint_79, Abinghost_80, Obutu_82, Morty007_79, SwainyDoc_81, RomaT_80, Gervas_81
• Track 19 : Kronus_80
• Track 20 : Fanaw_71
• Track 21 : Apex_77, Prince_75, JoyceMaria_77
• Track 22 : Fortunato_75, ChrisnMich_75
• Track 23 : AlanGrant_79, Vincenzo_78
• Track 24 : GinPorsche_75, Epah_73, Antihero_73, Ahwei_73
• Track 25 : Mithril_75
• Track 26 : QueenPie_69
• Track 27 : Heath_76, Frederick_77, Hydro_76, Zemanar_75, RawrgerThat_75
• Track 28 : Poster_73, Nanao_74, Hally898_73, Lambano_73
• Track 29 : Mudslide_75, Hangman_77, VioletZ_78
• Track 30 : Lolalove_77
• Track 31 : LittleDigger_74, Renkei_74

• Track 32 : JAMaL_74
• Track 33 : Waleliano_74, BrownCNA_76
• Track 34 : Nigel_72
• Track 35 : Xincheng_74
• Track 36 : Stinger_74
• Track 37 : Cooper_76
• Track 38 : BobbyK_76
• Track 39 : Magpie_73
• Track 40 : Austelle_75
• Track 41 : JaguarMi_75
• Track 42 : Rita130_76, EastView9101_76, Reccee_78, Acadian_77
• Track 43 : Serendipitous_76
• Track 44 : Nangang_78
• Track 45 : Rich_75, Donny_78, Suigeneris_78
• Track 46 : Baee_76
• Track 47 : Nehemiah_76
• Track 48 : StinkyVeggy_75, KarasumaRum_75
• Track 49 : SirJeffery_75
• Track 50 : Phelemich_74, Mysterious_75, Reprobate_76
• Track 51 : DigitDog_78
• Track 52 : KayaCho_73, Minnow_76
• Track 53 : 39HC_075, 40BC_075
• Track 54 : Hosp_071
• Track 55 : Jolie1_073
• Track 56 : ForDig_74
• Track 57 : Saguaro_75
• Track 58 : Thonko_87
• Track 59 : Rinkes_75
• Track 60 : CRB2_79
• Track 61 : Funsized_79
• Track 62 : Quesadilla_79
• Track 63 : PenguinLover67_79
• Track 64 : Knocker_78
• Track 65 : MossRose_77, Yeshua_78, AnarQue_79, CaiB_78, MakoManhole_74
• Track 66 : FelixTres_78
• Track 67 : CloverMinnie_76
• Track 68 : BobRoss2024_79
• Track 69 : AksarBAT_78
• Track 70 : Taptic_67
• Track 71 : Cepens_66, Megabear_66
• Track 72 : GodPhather_69
• Track 73 : PR_67, D12_66
• Track 74 : Argie_71
• Track 75 : Kumao_87

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

The start number called the most often in the published annotations is 57, it was called in 271 of the 415 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• ABU_83, AbsoluteMadLad_83, Adriana_84, Aelin_83, AlanGrant_79, Aleia_83, AltPhacts_82, Altwerkus_82, Anderson_86, Andre_86, AngelCake_83, Antonia_83, Aonishiki_84, Ashraf_85, Azuria_84, Badfish_85, Banjo_81, Basato_83, BatteryCK_82, Beaglebox_81, Bishoperium_84, BlackStallion_83, BlacksBerry_85, BlueHusk_85, Bluephacebaby_83, Boehler_83, BoogieWoogie_85, Brilliant_87, Buckeye_84, Burr_84, CamL_84, CampRoach_85, Cannibal_85, Carthage_85, Caspiboi_83, Chaelin_85, Charles1_85, CharlieGBrown_82, Cher_84, Childish_84, Chipette_84, Chorkpop_85, Chuni_87, Chute_84, Cobra_84, Colbert_82, Coletti_87, Cooper_76, Cornbread_83, Cornobble_82, Cosmolli16_86, Craff_86, DaddyDaniels_87, Daffy_83, Daka_86, Dati_81, DelRivs_82, Dice_83, DigitDog_78, Dingo_81, Dione_82, DirtJuice_84, DoesntMatter_81, DolOn_88, DonSanchon_80, Duggie_84, Durga_86, ElvisPhasley_85, Emiris_86, EmpTee_83, Etaye_83, Eugenia_86, Flake_83, FleetyMac_84, FluffyNinja_85, Fozzie_82, Frankicide_83, FremontTroll_84, Freya_81, Fringe_88, FugateOSU_84, Gareth_84, GeneCoco_85, Giraffe_84, Gophee_84, Grand2040_82, GreenChile_83, Gwennie1_83, Gyarad_0083, HSavage_82, Haimas_82, Haleema_83, Hamish_81, Happabalu_82, Harvey_81, Hekos_82, Held_82, HenryJackson_85, Hetaeria_84, HighStump_85, Hocus_82, HogWash_85, Horchata_81, ImtiyazSitla_85, Inchworm_85, Inverness_82, Iridessa_86, Iridoclysis_83, IsaacEli_86, JDog_83, JacAttac_84, JakeO_85, JangoPhett_82, Jbug01_83, Jesabah_86, Jillium_85, Jiminy_84, Jiraiya_85, KLucky39_82, Kahve_85, Kailash_82, KarasumaRum_75, Karn_84, Katniss_86, Keitherie_87, Khan1_83, Kikipoo_86, Kimbrough_85, KingTut_75, KingVeVeVe_82, Kiwot_84, KlimbOn_83, Kloppinator_84, Kwadwo_83, Kwksand96_85, Labeouficaum_84, LasagnaCat_85, Lasso_83, Lego3393_82, Legolas_85, Lehmann_87, LeiMonet_87, LemonSlice_84, LilMcDreamy_75, Longacauda_85, Lopsy_81, LostAndPhound_83, LuckyMarjie_81, Lulwa_81, Lumine_85, MRabcd_84, Mag7_82, Magic8_83, Mana_82, Manad_83, Maru_84, Maskar_85, Matalotodo_83, Mcshane_83, Mecca_84, Megamind20_84, Megatron_85, Melc17_81, MelsMeow_83, Mesmerelda_83, MichaelPhcott_82, Mikota_81, MiniBoss_81, MitKao_84, Morty_85, MrPhizzler_87, Mulan_83, Mutante_85, Mysterious_75, Nangang_78, Nathan_85, Nehemiah_76, Nehme_81, NiaNia_85, Nicole21_85, Nigel_72, Nova1_84, Numberten_83, Nyala_83, OSmaximus_85, Olak_83, Oline_83, Olive_82, OliverWalter_84, Omniscient_85, OneBrain_87, Oosterbaan_84, Orfeu_83, Orwigg_83, Pacifista_83, PallasAthena_85, Phamished_84, Phareon_82, PhatLouie_86, Phelemich_74, PhenghisKhan_84, Pherdinand_85, Phergie_84, Phipps_83, Phleuron_82, PhrodoBaggins_86, Phunky_82, Piglet_0084, PinheadLarry_83, Pinkman_84, Pipsqueak_81, Placalicious_83, Plata_83, Plmatters_82, Podrick_83, Potter_80, Prickles_85, ProfessorX_82, QueenBeane_84, Quisquiliae_86, RedMaple_84, RedRaider89_83, Reprobate_76, Ricotta_84, Riggan_85, Rimu_84, Riverton_83, Robyn_86, Roliet_81, Roscoe_84, SDcharge11_83, Saguaro_75, Salazzle_82, SallyH_87, Samaymay_84, SassyCat97_82, Schadenfreude_84, Schueller_82, Scoot17C_85, Scrick_83, Selr12_85, Septica_85, Serendipitous_76, Serpentine_0085, ShadowBud_84, Sheila_80, ShiVal_82, Simielle_83, SirBeauregard_85, SirJeffery_75, Skippy_85, Slatt_84, Soile_85, Solosis_82, Sophia_82, Soto_81, Spartan300_83, Squid_83, Squiggle_83, Stinger_74, StinkyVeggy_75, Struggle_84, Surely_84, Swiphy_86, Swish_85, TallGrassMM_83, Taraxa_84, Telesworld_82, Thonko_87, Thora_83, ThreeOh3D2_86, Thunderbird_84, Timmi_83, TomBombadil_84, Tomlarah_85, TooFast2Furius_83, Tooj_81, Triad_86, True_82, TyrionL_84, UAch1_85, Usavi_85, Vaishali24_85, Valjean_83, Vaticameos_81, Veritas_83, Vincenzo_78, Virapocalypse_85, Virgeve_82, Vista_83, Vivaldi_84, Wallhey_85, Waterdiva_85, Weher20_81, Windsor_84, Yoshand_85, YouGoGlencoco_84, Zaider_85, Zelda_84,

Genes that have the "Most Annotated" start but do not call it:
• Acadian_77, Apizium_83, Baee_76, CheetO_81, Chunky_84, Derpp_84, Doddsville_82, Donny_78, DuchessDung_82, EastView9101_76, EmGer13_84, Eremos_83, FriarPreacher_82, Gwilliam_85, Hartsy_83, Hertubise_84, Larson_86, LeeLot_83, Lulumae_81, Mesh1_85, Morgushi_82, Mosaic_82, Murdoc_81, Nacho_0087, Newman_82, Orion_83, PG1_83, PhatCats2014_84, PhrankReynolds_83, Pops_82, Puhltonio_81, Reccee_78, Rich_75, Rita130_76, Roy17_82, Serendipity_84, Sigman_84, SilverBell_85, Suffolk_81, Suigeneris_78, Toni_84, Trypo_85, UncleHowie_81, Vectra_83, Vortex_83, Xavier_84, Zonia_85,

Genes that do not have the "Most Annotated" start:
• 39HC_075, 40BC_075, Abinghost_80, Ahwei_73, Akoma_80, AksarBAT_78, AnarQue_79, Antihero_73, Apex_77, Argie_71, Athena_82, Audrey_80, Austelle_75, Baloo_79, Ben11_80, Bernardo_81, BirdsNest_89, BobRoss2024_79, BobbyK_76, Briakila_80, BrownCNA_76, CRB2_79, CaiB_78, Casbah_80, Cepens_66, ChaChing_80, Chalmers_79, Chandler_80, Chentzyk_82, ChrisnMich_75, CloverMinnie_76, Corofin_80, D12_66, Daisy_79, Deenasa_80, Epah_73, Fanaw_71, FelixTres_78, ForDig_74, Fortunato_75, Frederick_77, Funsized_79, Gadjet_81, Gervas_81, GinPorsche_75, GlenHope_81, Glubnar_81, GodPhather_69, Halfpint_79, Hally898_73, Hangman_77, HarveySr_79, Hashim76_88, Heath_76, Heathcliff_80, Hosp_071, Hydro_76, Imvubu_79, Indlovu_77, JAMaL_74, Jackstina_75, JaguarMi_75, Jolie1_073, JoyceMaria_77, Kamiyu_80, KayaCho_73, Knocker_78, Kronus_80, Kumao_87, Lambano_73, LestyG_78, LittleDigger_74, LittleMinkey_92, Lolalove_77, Magpie_73, MakoManhole_74, Marley1013_81, Marlia_81, Megabear_66, Minnow_76, Mithril_75, MmasiCarm_81, Mortcellus_80, Morty007_79, MossRose_77, Mudslide_75, Mulaychimus_81, Nanao_74, Neos5_80, Nozo_80, Obutu_82, PR_67, PenguinLover67_79, Phaedrus_75, Phayeta_83, Philly_79, Phlyer_80, Pipefish_82, Poster_73, Prince_75, QueenPie_69, Quesadilla_79, RagingRooster_79, RawrgerThat_75, Renkei_74, Rinkes_75, Rita1961_81, RomaT_80, Shenandoah_79, SlippinJimmy_83, SwainyDoc_81, SynergyX_80, Taptic_67, TinyTerror_81, Tydolla_76, VioletZ_78, Waleliano_74, Xincheng_74, Yahalom_78, Yeshua_78, Yinz_80, Zemanar_75, Zenteno07_89,

Summary by start number:

Start 34:
• Found in 332 of 469 (70.8%) of genes in pham
• Manual Annotations of this start: 41 of 415
• Called 13.9% of time when present
• Phage (with cluster) where this start called: Acadian_77 (B5), Baee_76 (B5), CheetO_81 (B1), Chunky_84 (B1), Derpp_84 (B1), Doddsville_82 (B1), Donny_78 (B5), DuchessDung_82 (B1), EastView9101_76 (B5), EmGer13_84 (B1), Eremos_83 (B1), FriarPreacher_82 (B1), Gwilliam_85 (B1), Hartsy_83 (B1), Hertubise_84 (B1), Larson_86 (B1), LeeLot_83 (B1), Lulumae_81 (B1), Mesh1_85 (B1), Morgushi_82 (B1), Mosaic_82 (B1), Murdoc_81 (B1), Nacho_0087 (B1), Newman_82 (B1), Orion_83 (B1), PG1_83 (B1), PhatCats2014_84 (B1), PhrankReynolds_83 (B1), Pops_82 (B1), Puhltonio_81 (B1), Reccee_78 (B5), Rich_75 (B5), Rita130_76 (B5), Roy17_82 (B1), Serendipity_84 (B1), Sigman_84 (B1), SilverBell_85 (B1), Suffolk_81 (B1), Suigeneris_78 (B5), Toni_84 (B1), Trypo_85 (B1), UncleHowie_81 (B1), Vectra_83 (B1), Vortex_83 (B1), Xavier_84 (B1), Zonia_85 (B1),

Start 45:

• Found in 6 of 469 (1.3%) of genes in pham
• No Manual Annotations of this start.
• Called 16.7% of time when present
• Phage (with cluster) where this start called: Xincheng_74 (B4),

Start 47:
• Found in 2 of 469 (0.4%) of genes in pham
• Manual Annotations of this start: 1 of 415
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Funsized_79 (B9),

Start 49:
• Found in 2 of 469 (0.4%) of genes in pham
• Manual Annotations of this start: 2 of 415
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Imvubu_79 (B10), Rinkes_75 (B9),

Start 50:
• Found in 10 of 469 (2.1%) of genes in pham
• Manual Annotations of this start: 1 of 415
• Called 10.0% of time when present
• Phage (with cluster) where this start called: Apizium_83 (B1),

Start 52:
• Found in 1 of 469 (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: AksarBAT_78 (DR),

Start 53:
• Found in 2 of 469 (0.4%) of genes in pham
• Manual Annotations of this start: 1 of 415
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Knocker_78 (B9),

Start 54:
• Found in 37 of 469 (7.9%) of genes in pham
• Manual Annotations of this start: 24 of 415
• Called 91.9% of time when present
• Phage (with cluster) where this start called: Ahwei_73 (B4), Antihero_73 (B4), Apex_77 (B4), Austelle_75 (B4), BobbyK_76 (B4), BrownCNA_76 (B4), ChrisnMich_75 (B4), Epah_73 (B4), Fanaw_71 (B4), Fortunato_75 (B4), Frederick_77 (B4), GinPorsche_75 (B4), Hally898_73 (B4), Hangman_77 (B4), Heath_76 (B4), Hydro_76 (B4), JAMaL_74 (B4), JaguarMi_75 (B4), JoyceMaria_77 (B4), Lambano_73 (B4), LittleDigger_74 (B4), Lolalove_77 (B4), Magpie_73 (B4), Mithril_75 (B4), Mudslide_75 (B4), Nanao_74 (B4), Poster_73 (B4), Prince_75 (B4), QueenPie_69 (B4), RawrgerThat_75 (B4), Renkei_74 (B4), VioletZ_78 (B4), Waleliano_74 (B4), Zemanar_75 (B4),

Start 56:
• Found in 8 of 469 (1.7%) of genes in pham
• Manual Annotations of this start: 7 of 415
• Called 100.0% of time when present

• Phage (with cluster) where this start called: AnarQue_79 (DR), BobRoss2024_79 (DR), CaiB_78 (DR), CloverMinnie_76 (DR), FelixTres_78 (DR), MakoManhole_74 (DR), MossRose_77 (DR), Yeshua_78 (DR),

Start 57:
• Found in 346 of 469 (73.8%) of genes in pham
• Manual Annotations of this start: 271 of 415
• Called 86.4% of time when present
• Phage (with cluster) where this start called: ABU_83 (B1), AbsoluteMadLad_83 (B1), Adriana_84 (B1), Aelin_83 (B1), AlanGrant_79 (B4), Aleia_83 (B1), AltPhacts_82 (B1), Altwerkus_82 (B1), Anderson_86 (B1), Andre_86 (B1), AngelCake_83 (B1), Antonia_83 (B1), Aonishiki_84 (B1), Ashraf_85 (B1), Azuria_84 (B1), Badfish_85 (B1), Banjo_81 (B1), Basato_83 (B1), BatteryCK_82 (B1), Beaglebox_81 (B1), Bishoperium_84 (B1), BlackStallion_83 (B1), BlacksBerry_85 (B1), BlueHusk_85 (B1), Bluephacebaby_83 (B1), Boehler_83 (B1), BoogieWoogie_85 (B1), Brilliant_87 (B1), Buckeye_84 (B1), Burr_84 (B1), CamL_84 (B1), CampRoach_85 (B1), Cannibal_85 (B1), Carthage_85 (B1), Caspiboi_83 (B1), Chaelin_85 (B1), Charles1_85 (B1), CharlieGBrown_82 (B1), Cher_84 (B1), Childish_84 (B1), Chipette_84 (B1), Chorkpop_85 (B1), Chuni_87 (B1), Chute_84 (B1), Cobra_84 (B1), Colbert_82 (B1), Coletti_87 (B1), Cooper_76 (B4), Cornbread_83 (B1), Cornobble_82 (B1), Cosmolli16_86 (B1), Craff_86 (B1), DaddyDaniels_87 (B1), Daffy_83 (B1), Daka_86 (B1), Dati_81 (B1), DelRivs_82 (B1), Dice_83 (B1), DigitDog_78 (B5), Dingo_81 (B1), Dione_82 (B1), DirtJuice_84 (B1), DoesntMatter_81 (B1), DolOn_88 (B1), DonSanchon_80 (B1), Duggie_84 (B1), Durga_86 (B1), ElvisPhasley_85 (B1), Emiris_86 (B1), EmpTee_83 (B1), Etaye_83 (B1), Eugenia_86 (B1), Flake_83 (B1), FleetyMac_84 (B1), FluffyNinja_85 (B1), Fozzie_82 (B1), Frankicide_83 (B1), FremontTroll_84 (B1), Freya_81 (B1), Fringe_88 (B1), FugateOSU_84 (B1), Gareth_84 (B1), GeneCoco_85 (B1), Giraffe_84 (B1), Gophee_84 (B1), Grand2040_82 (B1), GreenChile_83 (B1), Gwennie1_83 (B1), Gyarad_0083 (B1), HSavage_82 (B1), Haimas_82 (B1), Haleema_83 (B1), Hamish_81 (B1), Happabalu_82 (B1), Harvey_81 (B1), Hekos_82 (B1), Held_82 (B1), HenryJackson_85 (B1), Hetaeria_84 (B1), HighStump_85 (B1), Hocus_82 (B1), HogWash_85 (B1), Horchata_81 (B1), ImtiyazSitla_85 (B1), Inchworm_85 (B1), Inverness_82 (B1), Iridessa_86 (B1), Iridoclysis_83 (B1), IsaacEli_86 (B1), JDog_83 (B1), JacAttac_84 (B1), JakeO_85 (B1), JangoPhett_82 (B1), Jbug01_83 (B1), Jesabah_86 (B1), Jillium_85 (B1), Jiminy_84 (B1), Jiraiya_85 (B1), KLucky39_82 (B1), Kahve_85 (B1), Kailash_82 (B1), KarasumaRum_75 (B5), Karn_84 (B1), Katniss_86 (B1), Keitherie_87 (B1), Khan1_83 (B1), Kikipoo_86 (B1), Kimbrough_85 (B1), KingTut_75 (B1), KingVeVeVe_82 (B1), Kiwot_84 (B1), KlimbOn_83 (B1), Kloppinator_84 (B1), Kwadwo_83 (B1), Kwksand96_85 (B1), Labeouficaum_84 (B1), LasagnaCat_85 (B1), Lasso_83 (B1), Lego3393_82 (B1), Legolas_85 (B1), Lehmann_87 (B1), LeiMonet_87 (B1), LemonSlice_84 (B1), LilMcDreamy_75 (B12), Longacauda_85 (B1), Lopsy_81 (B1), LostAndPhound_83 (B1), LuckyMarjie_81 (B1), Lulwa_81 (B1), Lumine_85 (B1), MRabcd_84 (B1), Mag7_82 (B1), Magic8_83 (B1), Mana_82 (B1), Manad_83 (B1), Maru_84 (B1), Maskar_85 (B1), Matalotodo_83 (B1), Mcshane_83 (B1), Mecca_84 (B1), Megamind20_84 (B1), Megatron_85 (B1), Melc17_81 (B1), MelsMeow_83 (B1), Mesmerelda_83 (B1), MichaelPhcott_82 (B1), Mikota_81 (B1), MiniBoss_81 (B1), MitKao_84 (B1), Morty_85 (B1), MrPhizzler_87 (B1), Mulan_83 (B1), Mutante_85 (B1), Mysterious_75 (B5), Nangang_78 (B5), Nathan_85 (B1), Nehemiah_76 (B5), Nehme_81 (B1), NiaNia_85 (B1), Nicole21_85 (B1), Nigel_72 (B4), Nova1_84 (B1), Numberten_83 (B1), Nyala_83 (B1), OSmaximus_85 (B1), Olak_83 (B1), Oline_83 (B1), Olive_82 (B1), OliverWalter_84 (B1), Omniscient_85 (B1), OneBrain_87 (B1), Oosterbaan_84 (B1), Orfeu_83 (B1),

Orwigg_83 (B1), Pacifista_83 (B1), PallasAthena_85 (B1), Phamished_84 (B1), Phareon_82 (B1), PhatLouie_86 (B1), Phelemich_74 (B5), PhenghisKhan_84 (B1), Pherdinand_85 (B1), Phergie_84 (B1), Phipps_83 (B1), Phleuron_82 (B1), PhrodoBaggins_86 (B1), Phunky_82 (B1), Piglet_0084 (B1), PinheadLarry_83 (B1), Pinkman_84 (B1), Pipsqueak_81 (B1), Placalicious_83 (B1), Plata_83 (B1), Plmatters_82 (B1), Podrick_83 (B1), Potter_80 (B1), Prickles_85 (B1), ProfessorX_82 (B1), QueenBeane_84 (B1), Quisquiliae_86 (B1), RedMaple_84 (B1), RedRaider89_83 (B1), Reprobate_76 (B5), Ricotta_84 (B1), Riggan_85 (B1), Rimu_84 (B1), Riverton_83 (B1), Robyn_86 (B1), Roliet_81 (B1), Roscoe_84 (B1), SDcharge11_83 (B1), Saguaro_75 (B7), Salazzle_82 (B1), SallyH_87 (B1), Samaymay_84 (B1), SassyCat97_82 (B1), Schadenfreude_84 (B1), Schueller_82 (B1), Scoot17C_85 (B1), Scrick_83 (B1), Selr12_85 (B1), Septica_85 (B1), Serendipitous_76 (B5), Serpentine_0085 (B1), ShadowBud_84 (B1), Sheila_80 (B1), ShiVal_82 (B1), Simielle_83 (B1), SirBeauregard_85 (B1), SirJeffery_75 (B5), Skippy_85 (B1), Slatt_84 (B1), Soile_85 (B1), Solosis_82 (B1), Sophia_82 (B1), Soto_81 (B1), Spartan300_83 (B1), Squid_83 (B1), Squiggle_83 (B1), Stinger_74 (B4), StinkyVeggy_75 (B5), Struggle_84 (B1), Surely_84 (B1), Swiphy_86 (B1), Swish_85 (B1), TallGrassMM_83 (B1), Taraxa_84 (B1), Telesworld_82 (B1), Thonko_87 (B8), Thora_83 (B1), ThreeOh3D2_86 (B1), Thunderbird_84 (B1), Timmi_83 (B1), TomBombadil_84 (B1), Tomlarah_85 (B1), TooFast2Furius_83 (B1), Tooj_81 (B1), Triad_86 (B1), True_82 (B1), TyrionL_84 (B1), UAch1_85 (B1), Usavi_85 (B1), Vaishali24_85 (B1), Valjean_83 (B1), Vaticameos_81 (B1), Veritas_83 (B1), Vincenzo_78 (B4), Virapocalypse_85 (B1), Virgeve_82 (B1), Vista_83 (B1), Vivaldi_84 (B1), Wallhey_85 (B1), Waterdiva_85 (B1), Weher20_81 (B1), Windsor_84 (B1), Yoshand_85 (B1), YouGoGlencoco_84 (B1), Zaider_85 (B1), Zelda_84 (B1),

Start 58:
• Found in 5 of 469 (1.1%) of genes in pham
• Manual Annotations of this start: 4 of 415
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BirdsNest_89 (B13), Hashim76_88 (B13), Kumao_87 (singleton), LittleMinkey_92 (B13), Zenteno07_89 (B13),

Start 59:
• Found in 59 of 469 (12.6%) of genes in pham
• Manual Annotations of this start: 57 of 415
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Abinghost_80 (B3), Akoma_80 (B3), Argie_71 (W), Athena_82 (B3), Audrey_80 (B3), Baloo_79 (B3), Ben11_80 (B3), Bernardo_81 (B3), Briakila_80 (B3), Casbah_80 (B3), Cepens_66 (W), ChaChing_80 (B3), Chalmers_79 (B3), Chandler_80 (B3), Chentzyk_82 (B3), Corofin_80 (B3), D12_66 (W), Daisy_79 (B3), Deenasa_80 (B3), Gadjet_81 (B3), Gervas_81 (B3), GlenHope_81 (B3), Glubnar_81 (B3), GodPhather_69 (W), Halfpint_79 (B3), HarveySr_79 (B3), Heathcliff_80 (B3), Jackstina_75 (B3), Kamiyu_80 (B3), Kronus_80 (B3), LestyG_78 (B3), Marley1013_81 (B3), Marlia_81 (B3), Megabear_66 (W), MmasiCarm_81 (B3), Mortcellus_80 (B3), Morty007_79 (B3), Mulaychimus_81 (B3), Neos5_80 (B3), Nozo_80 (B3), Obutu_82 (B3), PR_67 (W), Phaedrus_75 (B3), Phayeta_83 (B3), Philly_79 (B3), Phlyer_80 (B3), Pipefish_82 (B3), RagingRooster_79 (B3), Rita1961_81 (B3), RomaT_80 (B3), Shenandoah_79 (B3), SlippinJimmy_83 (B3), SwainyDoc_81 (B3), SynergyX_80 (B3), Taptic_67 (W), TinyTerror_81 (B3), Tydolla_76 (B3), Yahalom_78 (B3), Yinz_80 (B3),

Start 60:

• Found in 1 of 469 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 415
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Indlovu_77 (B11),

Start 61:
• Found in 10 of 469 (2.1%) of genes in pham
• Manual Annotations of this start: 5 of 415
• Called 100.0% of time when present
• Phage (with cluster) where this start called: 39HC_075 (B6), 40BC_075 (B6), CRB2_79 (B9), ForDig_74 (B6), Hosp_071 (B6), Jolie1_073 (B6), KayaCho_73 (B6), Minnow_76 (B6), PenguinLover67_79 (B9), Quesadilla_79 (B9),

Summary by clusters:

There are 15 clusters represented in this pham: singleton, B10, B8, B11, B4, B5, B6, B7, B12, B13, W, B3, DR, B9, B1,

Info for manual annotations of cluster B1:
•Start number 34 was manually annotated 34 times for cluster B1.
•Start number 50 was manually annotated 1 time for cluster B1.
•Start number 57 was manually annotated 259 times for cluster B1.

Info for manual annotations of cluster B10:
•Start number 49 was manually annotated 1 time for cluster B10.

Info for manual annotations of cluster B11:
•Start number 60 was manually annotated 1 time for cluster B11.

Info for manual annotations of cluster B12:
•Start number 57 was manually annotated 1 time for cluster B12.

Info for manual annotations of cluster B13:
•Start number 58 was manually annotated 3 times for cluster B13.

Info for manual annotations of cluster B3:
•Start number 59 was manually annotated 50 times for cluster B3.

Info for manual annotations of cluster B4:
•Start number 54 was manually annotated 24 times for cluster B4.
•Start number 57 was manually annotated 5 times for cluster B4.

Info for manual annotations of cluster B5:
•Start number 34 was manually annotated 7 times for cluster B5.
•Start number 57 was manually annotated 4 times for cluster B5.

Info for manual annotations of cluster B6:
•Start number 61 was manually annotated 2 times for cluster B6.

Info for manual annotations of cluster B7:
•Start number 57 was manually annotated 1 time for cluster B7.

Info for manual annotations of cluster B8:

•Start number 57 was manually annotated 1 time for cluster B8.

Info for manual annotations of cluster B9:
•Start number 47 was manually annotated 1 time for cluster B9.
•Start number 49 was manually annotated 1 time for cluster B9.
•Start number 53 was manually annotated 1 time for cluster B9.
•Start number 61 was manually annotated 3 times for cluster B9.

Info for manual annotations of cluster DR:
•Start number 56 was manually annotated 7 times for cluster DR.

Info for manual annotations of cluster W:
•Start number 59 was manually annotated 7 times for cluster W.

Gene Information:

Gene: 39HC_075 Start: 62227, Stop: 61859, Start Num: 61
Candidate Starts for 39HC_075:
(48, 62260), (Start: 61 @62227 has 5 MA's), (67, 62128), (69, 62104), (75, 62080), (81, 61984),

Gene: 40BC_075 Start: 62227, Stop: 61859, Start Num: 61
Candidate Starts for 40BC_075:
(48, 62260), (Start: 61 @62227 has 5 MA's), (67, 62128), (69, 62104), (75, 62080), (81, 61984),

Gene: ABU_83 Start: 63381, Stop: 63079, Start Num: 57
Candidate Starts for ABU_83:
(Start: 34 @63462 has 41 MA's), (Start: 57 @63381 has 271 MA's), (67, 63264), (68, 63243), (76, 63204),

Gene: Abinghost_80 Start: 61235, Stop: 60906, Start Num: 59
Candidate Starts for Abinghost_80:
(Start: 59 @61235 has 57 MA's), (67, 61136), (68, 61115), (72, 61094),

Gene: AbsoluteMadLad_83 Start: 63335, Stop: 63033, Start Num: 57
Candidate Starts for AbsoluteMadLad_83:
(Start: 34 @63416 has 41 MA's), (Start: 57 @63335 has 271 MA's), (67, 63218), (68, 63197), (76, 63158),

Gene: Acadian_77 Start: 62254, Stop: 61766, Start Num: 34
Candidate Starts for Acadian_77:
(24, 62305), (Start: 34 @62254 has 41 MA's), (Start: 50 @62191 has 1 MA's), (Start: 57 @62173 has 271 MA's), (69, 62032), (73, 62014), (75, 62008),

Gene: Adriana_84 Start: 63897, Stop: 63595, Start Num: 57
Candidate Starts for Adriana_84:
(Start: 34 @63978 has 41 MA's), (Start: 57 @63897 has 271 MA's), (67, 63780), (68, 63759), (76, 63720),

Gene: Aelin_83 Start: 62839, Stop: 62537, Start Num: 57
Candidate Starts for Aelin_83:

(Start: 34 @62920 has 41 MA's), (Start: 57 @62839 has 271 MA's), (62, 62770), (67, 62722), (68, 62701), (76, 62662),

Gene: Ahwei_73 Start: 62187, Stop: 61801, Start Num: 54
Candidate Starts for Ahwei_73:
(37, 62247), (41, 62235), (Start: 54 @62187 has 24 MA's), (64, 62109), (67, 62070), (70, 62043), (73, 62028), (76, 62010), (81, 61923), (99, 61809),

Gene: Akoma_80 Start: 61275, Stop: 60946, Start Num: 59
Candidate Starts for Akoma_80:
(Start: 59 @61275 has 57 MA's), (67, 61176), (68, 61155), (72, 61134),

Gene: AksarBAT_78 Start: 57238, Stop: 56921, Start Num: 52
Candidate Starts for AksarBAT_78:
(21, 57388), (27, 57340), (33, 57319), (52, 57238), (66, 57127), (70, 57097), (73, 57082), (76, 57061),

Gene: AlanGrant_79 Start: 64544, Stop: 64158, Start Num: 57
Candidate Starts for AlanGrant_79:
(37, 64610), (41, 64598), (Start: 57 @64544 has 271 MA's), (67, 64427), (70, 64400), (73, 64385), (99, 64166),

Gene: Aleia_83 Start: 63024, Stop: 62722, Start Num: 57
Candidate Starts for Aleia_83:
(Start: 34 @63105 has 41 MA's), (Start: 57 @63024 has 271 MA's), (67, 62907), (68, 62886), (76, 62847),

Gene: AltPhacts_82 Start: 62600, Stop: 62298, Start Num: 57
Candidate Starts for AltPhacts_82:
(Start: 34 @62681 has 41 MA's), (Start: 57 @62600 has 271 MA's), (67, 62483), (68, 62462), (76, 62423),

Gene: Altwerkus_82 Start: 62711, Stop: 62409, Start Num: 57
Candidate Starts for Altwerkus_82:
(Start: 34 @62792 has 41 MA's), (Start: 57 @62711 has 271 MA's), (68, 62573), (76, 62534),

Gene: AnarQue_79 Start: 58361, Stop: 58062, Start Num: 56
Candidate Starts for AnarQue_79:
(Start: 56 @58361 has 7 MA's), (69, 58229), (73, 58211), (83, 58100),

Gene: Anderson_86 Start: 63257, Stop: 62955, Start Num: 57
Candidate Starts for Anderson_86:
(Start: 34 @63338 has 41 MA's), (Start: 57 @63257 has 271 MA's), (67, 63140), (68, 63119), (76, 63080),

Gene: Andre_86 Start: 63279, Stop: 62977, Start Num: 57
Candidate Starts for Andre_86:
(Start: 34 @63360 has 41 MA's), (Start: 57 @63279 has 271 MA's), (67, 63162), (68, 63141), (76, 63102),

Gene: AngelCake_83 Start: 63006, Stop: 62704, Start Num: 57
Candidate Starts for AngelCake_83:
(Start: 34 @63087 has 41 MA's), (Start: 57 @63006 has 271 MA's), (67, 62889), (68, 62868), (76, 62829),

Gene: Antihero_73 Start: 62122, Stop: 61736, Start Num: 54
Candidate Starts for Antihero_73:
(37, 62182), (41, 62170), (Start: 54 @62122 has 24 MA's), (64, 62044), (67, 62005), (70, 61978), (73, 61963), (76, 61945), (81, 61858), (99, 61744),

Gene: Antonia_83 Start: 62883, Stop: 62581, Start Num: 57
Candidate Starts for Antonia_83:
(Start: 34 @62964 has 41 MA's), (Start: 57 @62883 has 271 MA's), (62, 62814), (67, 62766), (68, 62745), (76, 62706),

Gene: Aonishiki_84 Start: 63192, Stop: 62890, Start Num: 57
Candidate Starts for Aonishiki_84:
(Start: 34 @63273 has 41 MA's), (Start: 57 @63192 has 271 MA's), (67, 63075), (68, 63054), (76, 63015),

Gene: Apex_77 Start: 63483, Stop: 63097, Start Num: 54
Candidate Starts for Apex_77:
(19, 63639), (20, 63636), (37, 63543), (41, 63531), (Start: 54 @63483 has 24 MA's), (64, 63405), (65, 63372), (67, 63366), (70, 63339), (73, 63324), (76, 63306), (81, 63219), (99, 63105),

Gene: Apizium_83 Start: 62557, Stop: 62237, Start Num: 50
Candidate Starts for Apizium_83:
(Start: 34 @62620 has 41 MA's), (Start: 50 @62557 has 1 MA's), (Start: 57 @62539 has 271 MA's), (62, 62470), (67, 62422), (68, 62401), (76, 62362),

Gene: Argie_71 Start: 51295, Stop: 51594, Start Num: 59
Candidate Starts for Argie_71:
(37, 51214), (Start: 59 @51295 has 57 MA's), (67, 51394), (68, 51415), (74, 51445), (78, 51502), (83, 51553), (88, 51583),

Gene: Ashraf_85 Start: 63370, Stop: 63068, Start Num: 57
Candidate Starts for Ashraf_85:
(Start: 34 @63451 has 41 MA's), (Start: 57 @63370 has 271 MA's), (62, 63301), (67, 63253), (68, 63232), (76, 63193),

Gene: Athena_82 Start: 62010, Stop: 61681, Start Num: 59
Candidate Starts for Athena_82:
(Start: 59 @62010 has 57 MA's), (67, 61911), (68, 61890), (72, 61869),

Gene: Audrey_80 Start: 61264, Stop: 60935, Start Num: 59
Candidate Starts for Audrey_80:
(Start: 59 @61264 has 57 MA's), (67, 61165), (68, 61144), (72, 61123),

Gene: Austelle_75 Start: 63800, Stop: 63414, Start Num: 54
Candidate Starts for Austelle_75:
(37, 63860), (41, 63848), (Start: 54 @63800 has 24 MA's), (64, 63722), (67, 63683), (73, 63641), (76, 63623), (81, 63536), (93, 63461), (99, 63422),

Gene: Azuria_84 Start: 63328, Stop: 63026, Start Num: 57
Candidate Starts for Azuria_84:
(Start: 34 @63409 has 41 MA's), (Start: 57 @63328 has 271 MA's), (67, 63211), (68, 63190), (76, 63151),

Gene: Badfish_85 Start: 63561, Stop: 63259, Start Num: 57
Candidate Starts for Badfish_85:
(Start: 34 @63642 has 41 MA's), (Start: 57 @63561 has 271 MA's), (67, 63444), (68, 63423), (76, 63384),

Gene: Baee_76 Start: 62953, Stop: 62465, Start Num: 34
Candidate Starts for Baee_76:
(24, 63004), (25, 63001), (Start: 34 @62953 has 41 MA's), (Start: 50 @62890 has 1 MA's), (Start: 57 @62872 has 271 MA's), (69, 62731), (73, 62713), (75, 62707), (90, 62563),

Gene: Baloo_79 Start: 61116, Stop: 60787, Start Num: 59
Candidate Starts for Baloo_79:
(Start: 59 @61116 has 57 MA's), (67, 61017), (68, 60996), (72, 60975),

Gene: Banjo_81 Start: 62827, Stop: 62525, Start Num: 57
Candidate Starts for Banjo_81:
(Start: 34 @62908 has 41 MA's), (Start: 57 @62827 has 271 MA's), (62, 62758), (67, 62710), (68, 62689), (76, 62650),

Gene: Basato_83 Start: 63292, Stop: 62990, Start Num: 57
Candidate Starts for Basato_83:
(Start: 34 @63373 has 41 MA's), (Start: 57 @63292 has 271 MA's), (67, 63175), (68, 63154), (76, 63115),

Gene: BatteryCK_82 Start: 62818, Stop: 62516, Start Num: 57
Candidate Starts for BatteryCK_82:
(Start: 34 @62899 has 41 MA's), (Start: 57 @62818 has 271 MA's), (62, 62749), (67, 62701), (68, 62680), (76, 62641),

Gene: Beaglebox_81 Start: 62950, Stop: 62648, Start Num: 57
Candidate Starts for Beaglebox_81:
(Start: 34 @63031 has 41 MA's), (Start: 57 @62950 has 271 MA's), (62, 62881), (67, 62833), (68, 62812), (76, 62773),

Gene: Ben11_80 Start: 61491, Stop: 61162, Start Num: 59
Candidate Starts for Ben11_80:
(Start: 59 @61491 has 57 MA's), (67, 61392), (68, 61371), (72, 61350),

Gene: Bernardo_81 Start: 61454, Stop: 61125, Start Num: 59
Candidate Starts for Bernardo_81:
(Start: 59 @61454 has 57 MA's), (67, 61355), (68, 61334), (72, 61313),

Gene: BirdsNest_89 Start: 65386, Stop: 64982, Start Num: 58
Candidate Starts for BirdsNest_89:
(9, 65590), (18, 65530), (32, 65473), (Start: 58 @65386 has 4 MA's), (67, 65269), (69, 65245), (73, 65227), (82, 65122),

Gene: Bishoperium_84 Start: 63397, Stop: 63095, Start Num: 57
Candidate Starts for Bishoperium_84:
(Start: 34 @63478 has 41 MA's), (Start: 57 @63397 has 271 MA's), (68, 63259), (76, 63220),

Gene: BlackStallion_83 Start: 63247, Stop: 62945, Start Num: 57

Candidate Starts for BlackStallion_83:
(Start: 34 @63328 has 41 MA's), (Start: 57 @63247 has 271 MA's), (62, 63178), (67, 63130), (68, 63109), (76, 63070),

Gene: BlacksBerry_85 Start: 62772, Stop: 62470, Start Num: 57
Candidate Starts for BlacksBerry_85:
(Start: 34 @62853 has 41 MA's), (Start: 57 @62772 has 271 MA's), (67, 62655), (68, 62634), (76, 62595),

Gene: BlueHusk_85 Start: 63070, Stop: 62768, Start Num: 57
Candidate Starts for BlueHusk_85:
(Start: 34 @63151 has 41 MA's), (Start: 57 @63070 has 271 MA's), (67, 62953), (68, 62932), (76, 62893),

Gene: Bluephacebaby_83 Start: 63430, Stop: 63128, Start Num: 57
Candidate Starts for Bluephacebaby_83:
(Start: 34 @63511 has 41 MA's), (Start: 57 @63430 has 271 MA's), (67, 63313), (68, 63292), (76, 63253),

Gene: BobRoss2024_79 Start: 57680, Stop: 57384, Start Num: 56
Candidate Starts for BobRoss2024_79:
(Start: 56 @57680 has 7 MA's), (73, 57527), (79, 57452),

Gene: BobbyK_76 Start: 62954, Stop: 62568, Start Num: 54
Candidate Starts for BobbyK_76:
(37, 63014), (41, 63002), (Start: 54 @62954 has 24 MA's), (64, 62876), (65, 62843), (67, 62837), (70, 62810), (73, 62795), (76, 62777), (81, 62690), (99, 62576),

Gene: Boehler_83 Start: 63221, Stop: 62919, Start Num: 57
Candidate Starts for Boehler_83:
(Start: 34 @63302 has 41 MA's), (Start: 57 @63221 has 271 MA's), (67, 63104), (68, 63083), (76, 63044),

Gene: BoogieWoogie_85 Start: 62842, Stop: 62540, Start Num: 57
Candidate Starts for BoogieWoogie_85:
(Start: 34 @62923 has 41 MA's), (Start: 57 @62842 has 271 MA's), (67, 62725), (68, 62704), (76, 62665),

Gene: Briakila_80 Start: 61462, Stop: 61133, Start Num: 59
Candidate Starts for Briakila_80:
(Start: 59 @61462 has 57 MA's), (67, 61363), (68, 61342), (72, 61321),

Gene: Brilliant_87 Start: 63410, Stop: 63108, Start Num: 57
Candidate Starts for Brilliant_87:
(Start: 34 @63491 has 41 MA's), (Start: 57 @63410 has 271 MA's), (67, 63293), (68, 63272), (76, 63233),

Gene: BrownCNA_76 Start: 63158, Stop: 62772, Start Num: 54
Candidate Starts for BrownCNA_76:
(37, 63218), (41, 63206), (Start: 54 @63158 has 24 MA's), (64, 63080), (65, 63047), (67, 63041), (70, 63014), (73, 62999), (76, 62981), (81, 62894), (99, 62780),

Gene: Buckeye_84 Start: 63948, Stop: 63646, Start Num: 57

Candidate Starts for Buckeye_84:
(Start: 34 @64029 has 41 MA's), (Start: 57 @63948 has 271 MA's), (67, 63831), (68, 63810), (76, 63771),

Gene: Burr_84 Start: 62882, Stop: 62580, Start Num: 57
Candidate Starts for Burr_84:
(Start: 34 @62963 has 41 MA's), (Start: 57 @62882 has 271 MA's), (67, 62765), (68, 62744), (76, 62705),

Gene: CRB2_79 Start: 65196, Stop: 64804, Start Num: 61
Candidate Starts for CRB2_79:
(4, 65547), (10, 65421), (42, 65259), (44, 65250), (Start: 54 @65214 has 24 MA's), (Start: 61 @65196 has 5 MA's), (67, 65097), (69, 65073), (81, 64953), (90, 64905), (92, 64887),

Gene: CaiB_78 Start: 58156, Stop: 57857, Start Num: 56
Candidate Starts for CaiB_78:
(Start: 56 @58156 has 7 MA's), (69, 58024), (73, 58006), (83, 57895),

Gene: CamL_84 Start: 63182, Stop: 62880, Start Num: 57
Candidate Starts for CamL_84:
(Start: 34 @63263 has 41 MA's), (Start: 57 @63182 has 271 MA's), (62, 63113), (67, 63065), (68, 63044), (76, 63005),

Gene: CampRoach_85 Start: 63278, Stop: 62976, Start Num: 57
Candidate Starts for CampRoach_85:
(Start: 34 @63359 has 41 MA's), (Start: 57 @63278 has 271 MA's), (67, 63161), (68, 63140), (76, 63101),

Gene: Cannibal_85 Start: 63284, Stop: 62982, Start Num: 57
Candidate Starts for Cannibal_85:
(Start: 34 @63365 has 41 MA's), (Start: 57 @63284 has 271 MA's), (67, 63167), (68, 63146), (76, 63107),

Gene: Carthage_85 Start: 62952, Stop: 62650, Start Num: 57
Candidate Starts for Carthage_85:
(Start: 34 @63033 has 41 MA's), (Start: 57 @62952 has 271 MA's), (67, 62835), (68, 62814), (76, 62775),

Gene: Casbah_80 Start: 61575, Stop: 61246, Start Num: 59
Candidate Starts for Casbah_80:
(Start: 59 @61575 has 57 MA's), (67, 61476), (68, 61455), (72, 61434),

Gene: Caspiboi_83 Start: 63117, Stop: 62815, Start Num: 57
Candidate Starts for Caspiboi_83:
(Start: 34 @63198 has 41 MA's), (Start: 57 @63117 has 271 MA's), (67, 63000), (68, 62979),

Gene: Cepens_66 Start: 49145, Stop: 49444, Start Num: 59
Candidate Starts for Cepens_66:
(Start: 59 @49145 has 57 MA's), (67, 49244), (68, 49265), (74, 49295), (78, 49352), (83, 49403), (88, 49433),

Gene: ChaChing_80 Start: 61280, Stop: 60951, Start Num: 59
Candidate Starts for ChaChing_80:

(Start: 59 @61280 has 57 MA's), (67, 61181), (68, 61160), (72, 61139),

Gene: Chaelin_85 Start: 63412, Stop: 63110, Start Num: 57
Candidate Starts for Chaelin_85:
(Start: 34 @63493 has 41 MA's), (Start: 57 @63412 has 271 MA's), (62, 63343), (67, 63295), (68, 63274), (76, 63235),

Gene: Chalmers_79 Start: 61710, Stop: 61381, Start Num: 59
Candidate Starts for Chalmers_79:
(Start: 59 @61710 has 57 MA's), (67, 61611), (68, 61590), (72, 61569),

Gene: Chandler_80 Start: 62051, Stop: 61722, Start Num: 59
Candidate Starts for Chandler_80:
(Start: 59 @62051 has 57 MA's), (67, 61952), (68, 61931), (72, 61910),

Gene: Charles1_85 Start: 63190, Stop: 62888, Start Num: 57
Candidate Starts for Charles1_85:
(Start: 34 @63271 has 41 MA's), (Start: 57 @63190 has 271 MA's), (67, 63073), (68, 63052), (76, 63013),

Gene: CharlieGBrown_82 Start: 62913, Stop: 62611, Start Num: 57
Candidate Starts for CharlieGBrown_82:
(Start: 34 @62994 has 41 MA's), (Start: 57 @62913 has 271 MA's), (62, 62844), (67, 62796), (68, 62775), (76, 62736),

Gene: CheetO_81 Start: 63368, Stop: 62985, Start Num: 34
Candidate Starts for CheetO_81:
(Start: 34 @63368 has 41 MA's), (Start: 57 @63287 has 271 MA's), (67, 63170), (68, 63149), (76, 63110),

Gene: Chentzyk_82 Start: 62218, Stop: 61889, Start Num: 59
Candidate Starts for Chentzyk_82:
(Start: 59 @62218 has 57 MA's), (67, 62119), (68, 62098), (72, 62077),

Gene: Cher_84 Start: 63384, Stop: 63082, Start Num: 57
Candidate Starts for Cher_84:
(Start: 34 @63465 has 41 MA's), (Start: 57 @63384 has 271 MA's), (67, 63267), (68, 63246), (76, 63207),

Gene: Childish_84 Start: 63575, Stop: 63273, Start Num: 57
Candidate Starts for Childish_84:
(Start: 34 @63656 has 41 MA's), (Start: 57 @63575 has 271 MA's), (67, 63458), (68, 63437), (76, 63398),

Gene: Chipette_84 Start: 63112, Stop: 62810, Start Num: 57
Candidate Starts for Chipette_84:
(Start: 34 @63193 has 41 MA's), (Start: 57 @63112 has 271 MA's), (67, 62995), (68, 62974), (76, 62935),

Gene: Chorkpop_85 Start: 63038, Stop: 62736, Start Num: 57
Candidate Starts for Chorkpop_85:
(Start: 34 @63119 has 41 MA's), (Start: 57 @63038 has 271 MA's), (67, 62921), (68, 62900), (76, 62861),

Gene: ChrisnMich_75 Start: 62154, Stop: 61768, Start Num: 54
Candidate Starts for ChrisnMich_75:
(13, 62343), (37, 62214), (41, 62202), (Start: 54 @62154 has 24 MA's), (64, 62076), (65, 62043), (67, 62037), (70, 62010), (73, 61995), (76, 61977), (81, 61890), (99, 61776),

Gene: Chuni_87 Start: 63624, Stop: 63322, Start Num: 57
Candidate Starts for Chuni_87:
(Start: 34 @63705 has 41 MA's), (Start: 57 @63624 has 271 MA's), (62, 63555), (67, 63507), (68, 63486), (76, 63447),

Gene: Chunky_84 Start: 62964, Stop: 62581, Start Num: 34
Candidate Starts for Chunky_84:
(Start: 34 @62964 has 41 MA's), (Start: 57 @62883 has 271 MA's), (67, 62766), (68, 62745), (76, 62706),

Gene: Chute_84 Start: 63577, Stop: 63275, Start Num: 57
Candidate Starts for Chute_84:
(Start: 34 @63658 has 41 MA's), (Start: 57 @63577 has 271 MA's), (62, 63508), (67, 63460), (68, 63439), (76, 63400),

Gene: CloverMinnie_76 Start: 57325, Stop: 57026, Start Num: 56
Candidate Starts for CloverMinnie_76:
(Start: 56 @57325 has 7 MA's), (63, 57247), (69, 57193), (73, 57175), (83, 57064),

Gene: Cobra_84 Start: 63408, Stop: 63106, Start Num: 57
Candidate Starts for Cobra_84:
(Start: 34 @63489 has 41 MA's), (Start: 57 @63408 has 271 MA's), (67, 63291), (68, 63270), (76, 63231),

Gene: Colbert_82 Start: 62306, Stop: 62004, Start Num: 57
Candidate Starts for Colbert_82:
(Start: 34 @62387 has 41 MA's), (Start: 57 @62306 has 271 MA's), (68, 62168), (76, 62129),

Gene: Coletti_87 Start: 63933, Stop: 63631, Start Num: 57
Candidate Starts for Coletti_87:
(Start: 34 @64014 has 41 MA's), (Start: 57 @63933 has 271 MA's), (62, 63864), (67, 63816), (68, 63795), (76, 63756),

Gene: Cooper_76 Start: 62632, Stop: 62246, Start Num: 57
Candidate Starts for Cooper_76:
(45, 62671), (Start: 57 @62632 has 271 MA's), (64, 62554), (65, 62521), (67, 62515), (69, 62491), (73, 62473), (76, 62455), (81, 62368), (99, 62254),

Gene: Cornbread_83 Start: 63065, Stop: 62763, Start Num: 57
Candidate Starts for Cornbread_83:
(Start: 34 @63146 has 41 MA's), (Start: 57 @63065 has 271 MA's), (67, 62948), (68, 62927), (76, 62888),

Gene: Cornobble_82 Start: 62876, Stop: 62574, Start Num: 57
Candidate Starts for Cornobble_82:
(Start: 34 @62957 has 41 MA's), (Start: 57 @62876 has 271 MA's), (68, 62738), (76, 62699),

Gene: Corofin_80 Start: 61286, Stop: 60957, Start Num: 59
Candidate Starts for Corofin_80:
(Start: 59 @61286 has 57 MA's), (67, 61187), (68, 61166), (72, 61145),

Gene: Cosmolli16_86 Start: 63753, Stop: 63451, Start Num: 57
Candidate Starts for Cosmolli16_86:
(Start: 34 @63834 has 41 MA's), (Start: 57 @63753 has 271 MA's), (67, 63636), (68, 63615), (76, 63576),

Gene: Craff_86 Start: 63796, Stop: 63494, Start Num: 57
Candidate Starts for Craff_86:
(Start: 34 @63877 has 41 MA's), (Start: 57 @63796 has 271 MA's), (67, 63679), (68, 63658), (76, 63619),

Gene: D12_66 Start: 49780, Stop: 50079, Start Num: 59
Candidate Starts for D12_66:
(Start: 59 @49780 has 57 MA's), (67, 49879), (68, 49900), (74, 49930), (78, 49987), (83, 50038), (88, 50068),

Gene: DaddyDaniels_87 Start: 63529, Stop: 63227, Start Num: 57
Candidate Starts for DaddyDaniels_87:
(Start: 34 @63610 has 41 MA's), (Start: 57 @63529 has 271 MA's), (67, 63412), (68, 63391), (76, 63352),

Gene: Daffy_83 Start: 63023, Stop: 62721, Start Num: 57
Candidate Starts for Daffy_83:
(Start: 34 @63104 has 41 MA's), (Start: 57 @63023 has 271 MA's), (67, 62906), (68, 62885), (76, 62846),

Gene: Daisy_79 Start: 60837, Stop: 60508, Start Num: 59
Candidate Starts for Daisy_79:
(Start: 59 @60837 has 57 MA's), (67, 60738), (68, 60717), (72, 60696),

Gene: Daka_86 Start: 63229, Stop: 62927, Start Num: 57
Candidate Starts for Daka_86:
(Start: 34 @63310 has 41 MA's), (Start: 57 @63229 has 271 MA's), (68, 63091), (76, 63052),

Gene: Dati_81 Start: 63207, Stop: 62905, Start Num: 57
Candidate Starts for Dati_81:
(Start: 34 @63288 has 41 MA's), (Start: 57 @63207 has 271 MA's), (67, 63090), (68, 63069), (76, 63030),

Gene: Deenasa_80 Start: 62186, Stop: 61857, Start Num: 59
Candidate Starts for Deenasa_80:
(Start: 59 @62186 has 57 MA's), (67, 62087), (68, 62066), (72, 62045),

Gene: DelRivs_82 Start: 62836, Stop: 62534, Start Num: 57
Candidate Starts for DelRivs_82:
(Start: 34 @62917 has 41 MA's), (Start: 57 @62836 has 271 MA's), (67, 62719), (68, 62698), (76, 62659),

Gene: Derpp_84 Start: 63027, Stop: 62644, Start Num: 34
Candidate Starts for Derpp_84:

(Start: 34 @63027 has 41 MA's), (Start: 57 @62946 has 271 MA's), (67, 62829), (68, 62808), (76, 62769),

Gene: Dice_83 Start: 62868, Stop: 62566, Start Num: 57
Candidate Starts for Dice_83:
(Start: 34 @62949 has 41 MA's), (Start: 57 @62868 has 271 MA's), (67, 62751), (68, 62730), (76, 62691),

Gene: DigitDog_78 Start: 62457, Stop: 62062, Start Num: 57
Candidate Starts for DigitDog_78:
(Start: 34 @62538 has 41 MA's), (Start: 57 @62457 has 271 MA's), (69, 62316), (73, 62298), (75, 62292), (76, 62280), (87, 62166), (94, 62103),

Gene: Dingo_81 Start: 62589, Stop: 62287, Start Num: 57
Candidate Starts for Dingo_81:
(Start: 34 @62670 has 41 MA's), (Start: 57 @62589 has 271 MA's), (67, 62472), (68, 62451), (76, 62412),

Gene: Dione_82 Start: 62588, Stop: 62286, Start Num: 57
Candidate Starts for Dione_82:
(Start: 34 @62669 has 41 MA's), (Start: 57 @62588 has 271 MA's), (62, 62519), (67, 62471), (68, 62450), (76, 62411),

Gene: DirtJuice_84 Start: 63328, Stop: 63026, Start Num: 57
Candidate Starts for DirtJuice_84:
(Start: 34 @63409 has 41 MA's), (Start: 57 @63328 has 271 MA's), (67, 63211), (68, 63190), (76, 63151),

Gene: Doddsville_82 Start: 63109, Stop: 62726, Start Num: 34
Candidate Starts for Doddsville_82:
(Start: 34 @63109 has 41 MA's), (Start: 57 @63028 has 271 MA's), (62, 62959), (67, 62911), (68, 62890), (76, 62851),

Gene: DoesntMatter_81 Start: 62864, Stop: 62562, Start Num: 57
Candidate Starts for DoesntMatter_81:
(Start: 34 @62945 has 41 MA's), (Start: 57 @62864 has 271 MA's), (67, 62747), (68, 62726), (76, 62687),

Gene: DolOn_88 Start: 64314, Stop: 64012, Start Num: 57
Candidate Starts for DolOn_88:
(Start: 34 @64395 has 41 MA's), (Start: 57 @64314 has 271 MA's), (67, 64197), (68, 64176), (76, 64137),

Gene: DonSanchon_80 Start: 62546, Stop: 62244, Start Num: 57
Candidate Starts for DonSanchon_80:
(Start: 34 @62627 has 41 MA's), (Start: 57 @62546 has 271 MA's), (62, 62477), (67, 62429), (68, 62408), (76, 62369),

Gene: Donny_78 Start: 62294, Stop: 61806, Start Num: 34
Candidate Starts for Donny_78:
(24, 62345), (Start: 34 @62294 has 41 MA's), (Start: 50 @62231 has 1 MA's), (Start: 57 @62213 has 271 MA's), (69, 62072), (73, 62054), (75, 62048),

Gene: DuchessDung_82 Start: 62625, Stop: 62242, Start Num: 34
Candidate Starts for DuchessDung_82:
(Start: 34 @62625 has 41 MA's), (Start: 57 @62544 has 271 MA's), (62, 62475), (67, 62427), (68, 62406), (76, 62367),

Gene: Duggie_84 Start: 63170, Stop: 62868, Start Num: 57
Candidate Starts for Duggie_84:
(Start: 34 @63251 has 41 MA's), (Start: 57 @63170 has 271 MA's), (67, 63053), (68, 63032), (76, 62993),

Gene: Durga_86 Start: 63652, Stop: 63350, Start Num: 57
Candidate Starts for Durga_86:
(Start: 34 @63733 has 41 MA's), (Start: 57 @63652 has 271 MA's), (67, 63535), (68, 63514), (76, 63475),

Gene: EastView9101_76 Start: 61998, Stop: 61510, Start Num: 34
Candidate Starts for EastView9101_76:
(24, 62049), (Start: 34 @61998 has 41 MA's), (Start: 50 @61935 has 1 MA's), (Start: 57 @61917 has 271 MA's), (69, 61776), (73, 61758), (75, 61752),

Gene: ElvisPhasley_85 Start: 64194, Stop: 63892, Start Num: 57
Candidate Starts for ElvisPhasley_85:
(Start: 34 @64275 has 41 MA's), (Start: 57 @64194 has 271 MA's), (67, 64077), (68, 64056), (76, 64017),

Gene: EmGer13_84 Start: 62964, Stop: 62581, Start Num: 34
Candidate Starts for EmGer13_84:
(Start: 34 @62964 has 41 MA's), (Start: 57 @62883 has 271 MA's), (62, 62814), (67, 62766), (68, 62745), (76, 62706),

Gene: Emiris_86 Start: 63558, Stop: 63256, Start Num: 57
Candidate Starts for Emiris_86:
(Start: 34 @63639 has 41 MA's), (Start: 57 @63558 has 271 MA's), (67, 63441), (68, 63420), (76, 63381),

Gene: EmpTee_83 Start: 62960, Stop: 62658, Start Num: 57
Candidate Starts for EmpTee_83:
(Start: 34 @63041 has 41 MA's), (Start: 57 @62960 has 271 MA's), (62, 62891), (67, 62843), (68, 62822), (76, 62783),

Gene: Epah_73 Start: 62122, Stop: 61736, Start Num: 54
Candidate Starts for Epah_73:
(37, 62182), (41, 62170), (Start: 54 @62122 has 24 MA's), (64, 62044), (67, 62005), (70, 61978), (73, 61963), (76, 61945), (81, 61858), (99, 61744),

Gene: Eremos_83 Start: 63331, Stop: 62948, Start Num: 34
Candidate Starts for Eremos_83:
(Start: 34 @63331 has 41 MA's), (Start: 57 @63250 has 271 MA's), (67, 63133), (68, 63112), (76, 63073),

Gene: Etaye_83 Start: 63736, Stop: 63434, Start Num: 57
Candidate Starts for Etaye_83:

(Start: 34 @63817 has 41 MA's), (Start: 57 @63736 has 271 MA's), (67, 63619), (68, 63598), (76, 63559),

Gene: Eugenia_86 Start: 63671, Stop: 63369, Start Num: 57
Candidate Starts for Eugenia_86:
(Start: 34 @63752 has 41 MA's), (Start: 57 @63671 has 271 MA's), (67, 63554), (68, 63533), (76, 63494),

Gene: Fanaw_71 Start: 62994, Stop: 62608, Start Num: 54
Candidate Starts for Fanaw_71:
(37, 63054), (41, 63042), (Start: 54 @62994 has 24 MA's), (64, 62916), (65, 62883), (67, 62877), (70, 62850), (73, 62835), (76, 62817), (81, 62730), (99, 62616),

Gene: FelixTres_78 Start: 57603, Stop: 57304, Start Num: 56
Candidate Starts for FelixTres_78:
(Start: 56 @57603 has 7 MA's), (69, 57471), (73, 57453), (83, 57342), (86, 57333),

Gene: Flake_83 Start: 63150, Stop: 62848, Start Num: 57
Candidate Starts for Flake_83:
(Start: 34 @63231 has 41 MA's), (Start: 57 @63150 has 271 MA's), (67, 63033), (68, 63012), (76, 62973),

Gene: FleetyMac_84 Start: 63060, Stop: 62758, Start Num: 57
Candidate Starts for FleetyMac_84:
(Start: 34 @63141 has 41 MA's), (Start: 57 @63060 has 271 MA's), (62, 62991), (67, 62943), (68, 62922), (76, 62883),

Gene: FluffyNinja_85 Start: 63249, Stop: 62947, Start Num: 57
Candidate Starts for FluffyNinja_85:
(Start: 34 @63330 has 41 MA's), (Start: 57 @63249 has 271 MA's), (62, 63180), (67, 63132), (68, 63111), (76, 63072),

Gene: ForDig_74 Start: 61622, Stop: 61254, Start Num: 61
Candidate Starts for ForDig_74:
(48, 61655), (Start: 61 @61622 has 5 MA's), (67, 61523), (69, 61499), (70, 61496), (81, 61379),

Gene: Fortunato_75 Start: 62924, Stop: 62538, Start Num: 54
Candidate Starts for Fortunato_75:
(13, 63113), (37, 62984), (41, 62972), (Start: 54 @62924 has 24 MA's), (64, 62846), (65, 62813), (67, 62807), (70, 62780), (73, 62765), (76, 62747), (81, 62660), (99, 62546),

Gene: Fozzie_82 Start: 63575, Stop: 63273, Start Num: 57
Candidate Starts for Fozzie_82:
(Start: 34 @63656 has 41 MA's), (Start: 57 @63575 has 271 MA's), (67, 63458), (68, 63437), (76, 63398),

Gene: Frankicide_83 Start: 63074, Stop: 62772, Start Num: 57
Candidate Starts for Frankicide_83:
(Start: 34 @63155 has 41 MA's), (Start: 57 @63074 has 271 MA's), (67, 62957), (68, 62936), (76, 62897),

Gene: Frederick_77 Start: 63228, Stop: 62842, Start Num: 54
Candidate Starts for Frederick_77:

(16, 63393), (37, 63288), (41, 63276), (Start: 54 @63228 has 24 MA's), (64, 63150), (65, 63117), (67, 63111), (70, 63084), (73, 63069), (76, 63051), (81, 62964), (99, 62850),

Gene: FremontTroll_84 Start: 63487, Stop: 63185, Start Num: 57
Candidate Starts for FremontTroll_84:
(Start: 34 @63568 has 41 MA's), (Start: 57 @63487 has 271 MA's), (67, 63370), (68, 63349), (76, 63310),

Gene: Freya_81 Start: 62566, Stop: 62264, Start Num: 57
Candidate Starts for Freya_81:
(Start: 34 @62647 has 41 MA's), (Start: 57 @62566 has 271 MA's), (67, 62449), (68, 62428), (76, 62389),

Gene: FriarPreacher_82 Start: 63028, Stop: 62645, Start Num: 34
Candidate Starts for FriarPreacher_82:
(Start: 34 @63028 has 41 MA's), (Start: 57 @62947 has 271 MA's), (67, 62830), (68, 62809), (76, 62770),

Gene: Fringe_88 Start: 63724, Stop: 63422, Start Num: 57
Candidate Starts for Fringe_88:
(Start: 34 @63805 has 41 MA's), (Start: 57 @63724 has 271 MA's), (67, 63607), (68, 63586), (76, 63547),

Gene: FugateOSU_84 Start: 64008, Stop: 63706, Start Num: 57
Candidate Starts for FugateOSU_84:
(Start: 34 @64089 has 41 MA's), (Start: 57 @64008 has 271 MA's), (62, 63939), (67, 63891), (68, 63870), (76, 63831),

Gene: Funsized_79 Start: 65641, Stop: 65243, Start Num: 47
Candidate Starts for Funsized_79:
(30, 65701), (31, 65698), (Start: 47 @65641 has 1 MA's), (64, 65563), (67, 65524), (73, 65482), (76, 65464), (81, 65377), (95, 65263),

Gene: Gadjet_81 Start: 61637, Stop: 61308, Start Num: 59
Candidate Starts for Gadjet_81:
(Start: 59 @61637 has 57 MA's), (67, 61538), (68, 61517), (72, 61496),

Gene: Gareth_84 Start: 63396, Stop: 63094, Start Num: 57
Candidate Starts for Gareth_84:
(Start: 34 @63477 has 41 MA's), (Start: 57 @63396 has 271 MA's), (67, 63279), (68, 63258), (76, 63219),

Gene: GeneCoco_85 Start: 63576, Stop: 63274, Start Num: 57
Candidate Starts for GeneCoco_85:
(Start: 34 @63657 has 41 MA's), (Start: 57 @63576 has 271 MA's), (67, 63459), (68, 63438), (76, 63399),

Gene: Gervas_81 Start: 61731, Stop: 61402, Start Num: 59
Candidate Starts for Gervas_81:
(Start: 59 @61731 has 57 MA's), (67, 61632), (68, 61611), (72, 61590),

Gene: GinPorsche_75 Start: 62119, Stop: 61733, Start Num: 54
Candidate Starts for GinPorsche_75:

(37, 62179), (41, 62167), (Start: 54 @62119 has 24 MA's), (64, 62041), (67, 62002), (70, 61975), (73, 61960), (76, 61942), (81, 61855), (99, 61741),

Gene: Giraffe_84 Start: 63401, Stop: 63099, Start Num: 57
Candidate Starts for Giraffe_84:
(Start: 34 @63482 has 41 MA's), (Start: 57 @63401 has 271 MA's), (62, 63332), (67, 63284), (68, 63263), (76, 63224),

Gene: GlenHope_81 Start: 61310, Stop: 60981, Start Num: 59
Candidate Starts for GlenHope_81:
(Start: 59 @61310 has 57 MA's), (67, 61211), (68, 61190), (72, 61169),

Gene: Glubnar_81 Start: 61169, Stop: 60840, Start Num: 59
Candidate Starts for Glubnar_81:
(Start: 59 @61169 has 57 MA's), (67, 61070), (68, 61049), (72, 61028),

Gene: GodPhather_69 Start: 50749, Stop: 51048, Start Num: 59
Candidate Starts for GodPhather_69:
(37, 50668), (Start: 59 @50749 has 57 MA's), (67, 50848), (68, 50869), (74, 50899), (78, 50956), (83, 51007),

Gene: Gophee_84 Start: 63387, Stop: 63085, Start Num: 57
Candidate Starts for Gophee_84:
(Start: 34 @63468 has 41 MA's), (Start: 57 @63387 has 271 MA's), (67, 63270), (68, 63249), (76, 63210),

Gene: Grand2040_82 Start: 63365, Stop: 63063, Start Num: 57
Candidate Starts for Grand2040_82:
(Start: 34 @63446 has 41 MA's), (Start: 57 @63365 has 271 MA's), (67, 63248), (68, 63227), (76, 63188),

Gene: GreenChile_83 Start: 63061, Stop: 62759, Start Num: 57
Candidate Starts for GreenChile_83:
(Start: 34 @63142 has 41 MA's), (Start: 57 @63061 has 271 MA's), (67, 62944), (68, 62923), (76, 62884),

Gene: Gwennie1_83 Start: 63211, Stop: 62909, Start Num: 57
Candidate Starts for Gwennie1_83:
(Start: 34 @63292 has 41 MA's), (Start: 57 @63211 has 271 MA's), (67, 63094), (68, 63073), (76, 63034),

Gene: Gwilliam_85 Start: 64012, Stop: 63629, Start Num: 34
Candidate Starts for Gwilliam_85:
(Start: 34 @64012 has 41 MA's), (Start: 57 @63931 has 271 MA's), (67, 63814), (68, 63793), (76, 63754),

Gene: Gyarad_0083 Start: 62885, Stop: 62583, Start Num: 57
Candidate Starts for Gyarad_0083:
(Start: 34 @62966 has 41 MA's), (Start: 57 @62885 has 271 MA's), (67, 62768), (68, 62747), (76, 62708),

Gene: HSavage_82 Start: 62902, Stop: 62600, Start Num: 57
Candidate Starts for HSavage_82:

(Start: 34 @62983 has 41 MA's), (Start: 57 @62902 has 271 MA's), (67, 62785), (68, 62764), (76, 62725),

Gene: Haimas_82 Start: 62827, Stop: 62525, Start Num: 57
Candidate Starts for Haimas_82:
(Start: 34 @62908 has 41 MA's), (Start: 57 @62827 has 271 MA's), (67, 62710), (68, 62689), (76, 62650),

Gene: Haleema_83 Start: 62947, Stop: 62645, Start Num: 57
Candidate Starts for Haleema_83:
(Start: 34 @63028 has 41 MA's), (Start: 57 @62947 has 271 MA's), (68, 62809), (76, 62770),

Gene: Halfpint_79 Start: 61052, Stop: 60723, Start Num: 59
Candidate Starts for Halfpint_79:
(Start: 59 @61052 has 57 MA's), (67, 60953), (68, 60932), (72, 60911),

Gene: Hally898_73 Start: 62200, Stop: 61814, Start Num: 54
Candidate Starts for Hally898_73:
(37, 62260), (41, 62248), (Start: 54 @62200 has 24 MA's), (64, 62122), (67, 62083), (70, 62056), (73, 62041), (76, 62023), (81, 61936), (99, 61822),

Gene: Hamish_81 Start: 63116, Stop: 62814, Start Num: 57
Candidate Starts for Hamish_81:
(Start: 34 @63197 has 41 MA's), (Start: 57 @63116 has 271 MA's), (67, 62999), (68, 62978), (76, 62939),

Gene: Hangman_77 Start: 63694, Stop: 63308, Start Num: 54
Candidate Starts for Hangman_77:
(19, 63850), (20, 63847), (37, 63754), (41, 63742), (45, 63727), (Start: 54 @63694 has 24 MA's), (64, 63616), (65, 63583), (67, 63577), (70, 63550), (73, 63535), (76, 63517), (81, 63430), (99, 63316),

Gene: Happabalu_82 Start: 64042, Stop: 63701, Start Num: 57
Candidate Starts for Happabalu_82:
(Start: 34 @64123 has 41 MA's), (Start: 57 @64042 has 271 MA's), (67, 63925), (68, 63904), (76, 63865), (91, 63715),

Gene: Hartsy_83 Start: 63145, Stop: 62762, Start Num: 34
Candidate Starts for Hartsy_83:
(Start: 34 @63145 has 41 MA's), (Start: 57 @63064 has 271 MA's), (62, 62995), (67, 62947), (68, 62926), (76, 62887),

Gene: Harvey_81 Start: 62724, Stop: 62422, Start Num: 57
Candidate Starts for Harvey_81:
(Start: 34 @62805 has 41 MA's), (Start: 57 @62724 has 271 MA's), (67, 62607), (68, 62586), (76, 62547),

Gene: HarveySr_79 Start: 60821, Stop: 60492, Start Num: 59
Candidate Starts for HarveySr_79:
(Start: 59 @60821 has 57 MA's), (67, 60722), (68, 60701), (72, 60680),

Gene: Hashim76_88 Start: 65419, Stop: 65015, Start Num: 58
Candidate Starts for Hashim76_88:

(9, 65641), (Start: 58 @65419 has 4 MA's), (67, 65302), (69, 65278), (73, 65260), (82, 65155), (95, 65029),

Gene: Heath_76 Start: 63439, Stop: 63053, Start Num: 54
Candidate Starts for Heath_76:
(16, 63604), (37, 63499), (41, 63487), (Start: 54 @63439 has 24 MA's), (64, 63361), (65, 63328), (67, 63322), (70, 63295), (73, 63280), (76, 63262), (81, 63175), (99, 63061),

Gene: Heathcliff_80 Start: 61231, Stop: 60902, Start Num: 59
Candidate Starts for Heathcliff_80:
(Start: 59 @61231 has 57 MA's), (67, 61132), (68, 61111), (72, 61090),

Gene: Hekos_82 Start: 62739, Stop: 62437, Start Num: 57
Candidate Starts for Hekos_82:
(Start: 34 @62820 has 41 MA's), (Start: 57 @62739 has 271 MA's), (67, 62622), (68, 62601), (76, 62562),

Gene: Held_82 Start: 62845, Stop: 62543, Start Num: 57
Candidate Starts for Held_82:
(Start: 34 @62926 has 41 MA's), (Start: 57 @62845 has 271 MA's), (67, 62728), (68, 62707), (76, 62668),

Gene: HenryJackson_85 Start: 63564, Stop: 63262, Start Num: 57
Candidate Starts for HenryJackson_85:
(Start: 34 @63645 has 41 MA's), (Start: 57 @63564 has 271 MA's), (67, 63447), (68, 63426), (76, 63387),

Gene: Hertubise_84 Start: 63287, Stop: 62904, Start Num: 34
Candidate Starts for Hertubise_84:
(Start: 34 @63287 has 41 MA's), (Start: 57 @63206 has 271 MA's), (67, 63089), (68, 63068), (76, 63029),

Gene: Hetaeria_84 Start: 63213, Stop: 62911, Start Num: 57
Candidate Starts for Hetaeria_84:
(Start: 34 @63294 has 41 MA's), (Start: 57 @63213 has 271 MA's), (67, 63096), (68, 63075), (76, 63036),

Gene: HighStump_85 Start: 63351, Stop: 63049, Start Num: 57
Candidate Starts for HighStump_85:
(Start: 34 @63432 has 41 MA's), (Start: 57 @63351 has 271 MA's), (67, 63234), (68, 63213), (76, 63174),

Gene: Hocus_82 Start: 62865, Stop: 62563, Start Num: 57
Candidate Starts for Hocus_82:
(Start: 34 @62946 has 41 MA's), (Start: 57 @62865 has 271 MA's), (67, 62748), (68, 62727), (76, 62688),

Gene: HogWash_85 Start: 63878, Stop: 63576, Start Num: 57
Candidate Starts for HogWash_85:
(Start: 34 @63959 has 41 MA's), (Start: 57 @63878 has 271 MA's), (67, 63761), (68, 63740), (76, 63701),

Gene: Horchata_81 Start: 63042, Stop: 62740, Start Num: 57

Candidate Starts for Horchata_81:
(Start: 34 @63123 has 41 MA's), (Start: 57 @63042 has 271 MA's), (67, 62925), (68, 62904), (76, 62865),

Gene: Hosp_071 Start: 59697, Stop: 59329, Start Num: 61
Candidate Starts for Hosp_071:
(38, 59766), (48, 59730), (Start: 61 @59697 has 5 MA's), (67, 59598), (69, 59574), (75, 59550), (82, 59451), (83, 59448),

Gene: Hydro_76 Start: 63357, Stop: 62971, Start Num: 54
Candidate Starts for Hydro_76:
(16, 63522), (37, 63417), (41, 63405), (Start: 54 @63357 has 24 MA's), (64, 63279), (65, 63246), (67, 63240), (70, 63213), (73, 63198), (76, 63180), (81, 63093), (99, 62979),

Gene: ImtiyazSitla_85 Start: 63370, Stop: 63068, Start Num: 57
Candidate Starts for ImtiyazSitla_85:
(Start: 34 @63451 has 41 MA's), (Start: 57 @63370 has 271 MA's), (62, 63301), (67, 63253), (68, 63232), (76, 63193),

Gene: Imvubu_79 Start: 62691, Stop: 62296, Start Num: 49
Candidate Starts for Imvubu_79:
(11, 62880), (17, 62829), (27, 62775), (29, 62769), (30, 62760), (43, 62727), (Start: 49 @62691 has 2 MA's), (51, 62685), (67, 62574), (73, 62532), (76, 62514), (77, 62487), (90, 62382), (96, 62313), (98, 62307),

Gene: Inchworm_85 Start: 63238, Stop: 62936, Start Num: 57
Candidate Starts for Inchworm_85:
(Start: 34 @63319 has 41 MA's), (Start: 57 @63238 has 271 MA's), (62, 63169), (67, 63121), (68, 63100), (76, 63061),

Gene: Indlovu_77 Start: 63524, Stop: 63132, Start Num: 60
Candidate Starts for Indlovu_77:
(Start: 60 @63524 has 1 MA's), (67, 63425), (69, 63401), (76, 63365), (82, 63278), (92, 63215),

Gene: Inverness_82 Start: 63039, Stop: 62737, Start Num: 57
Candidate Starts for Inverness_82:
(Start: 34 @63120 has 41 MA's), (Start: 57 @63039 has 271 MA's), (67, 62922), (68, 62901), (76, 62862),

Gene: Iridessa_86 Start: 62963, Stop: 62661, Start Num: 57
Candidate Starts for Iridessa_86:
(Start: 34 @63044 has 41 MA's), (Start: 57 @62963 has 271 MA's), (67, 62846), (68, 62825), (76, 62786),

Gene: Iridoclysis_83 Start: 63129, Stop: 62827, Start Num: 57
Candidate Starts for Iridoclysis_83:
(Start: 34 @63210 has 41 MA's), (Start: 57 @63129 has 271 MA's), (62, 63060), (67, 63012), (68, 62991), (76, 62952),

Gene: IsaacEli_86 Start: 63369, Stop: 63067, Start Num: 57
Candidate Starts for IsaacEli_86:
(Start: 34 @63450 has 41 MA's), (Start: 57 @63369 has 271 MA's), (67, 63252), (68, 63231), (76, 63192),

Gene: JAMaL_74 Start: 62677, Stop: 62291, Start Num: 54
Candidate Starts for JAMaL_74:
(Start: 54 @62677 has 24 MA's), (64, 62599), (67, 62560), (70, 62533), (73, 62518), (76, 62500), (81, 62413), (99, 62299),

Gene: JDog_83 Start: 63399, Stop: 63097, Start Num: 57
Candidate Starts for JDog_83:
(Start: 34 @63480 has 41 MA's), (Start: 57 @63399 has 271 MA's), (67, 63282), (68, 63261), (76, 63222),

Gene: JacAttac_84 Start: 62843, Stop: 62541, Start Num: 57
Candidate Starts for JacAttac_84:
(Start: 34 @62924 has 41 MA's), (Start: 57 @62843 has 271 MA's), (62, 62774), (67, 62726), (68, 62705), (76, 62666),

Gene: Jackstina_75 Start: 61145, Stop: 60816, Start Num: 59
Candidate Starts for Jackstina_75:
(Start: 59 @61145 has 57 MA's), (67, 61046), (68, 61025), (72, 61004),

Gene: JaguarMi_75 Start: 64365, Stop: 63979, Start Num: 54
Candidate Starts for JaguarMi_75:
(45, 64398), (Start: 54 @64365 has 24 MA's), (64, 64287), (67, 64248), (70, 64221), (73, 64206), (76, 64188), (81, 64101), (99, 63987),

Gene: JakeO_85 Start: 63127, Stop: 62825, Start Num: 57
Candidate Starts for JakeO_85:
(Start: 34 @63208 has 41 MA's), (Start: 57 @63127 has 271 MA's), (67, 63010), (68, 62989), (76, 62950),

Gene: JangoPhett_82 Start: 63203, Stop: 62901, Start Num: 57
Candidate Starts for JangoPhett_82:
(Start: 34 @63284 has 41 MA's), (Start: 57 @63203 has 271 MA's), (67, 63086), (68, 63065), (76, 63026),

Gene: Jbug01_83 Start: 62755, Stop: 62453, Start Num: 57
Candidate Starts for Jbug01_83:
(Start: 34 @62836 has 41 MA's), (Start: 57 @62755 has 271 MA's), (67, 62638), (68, 62617), (76, 62578),

Gene: Jesabah_86 Start: 63966, Stop: 63664, Start Num: 57
Candidate Starts for Jesabah_86:
(Start: 34 @64047 has 41 MA's), (Start: 57 @63966 has 271 MA's), (67, 63849), (68, 63828), (76, 63789),

Gene: Jillium_85 Start: 63559, Stop: 63257, Start Num: 57
Candidate Starts for Jillium_85:
(Start: 34 @63640 has 41 MA's), (Start: 57 @63559 has 271 MA's), (67, 63442), (68, 63421), (76, 63382),

Gene: Jiminy_84 Start: 63063, Stop: 62761, Start Num: 57
Candidate Starts for Jiminy_84:

(Start: 34 @63144 has 41 MA's), (Start: 57 @63063 has 271 MA's), (62, 62994), (67, 62946), (68, 62925), (76, 62886),

Gene: Jiraiya_85 Start: 63147, Stop: 62845, Start Num: 57
Candidate Starts for Jiraiya_85:
(Start: 34 @63228 has 41 MA's), (Start: 57 @63147 has 271 MA's), (67, 63030), (68, 63009), (76, 62970),

Gene: Jolie1_073 Start: 61731, Stop: 61363, Start Num: 61
Candidate Starts for Jolie1_073:
(38, 61800), (48, 61764), (Start: 61 @61731 has 5 MA's), (67, 61632), (69, 61608), (82, 61485), (83, 61482), (100, 61368),

Gene: JoyceMaria_77 Start: 63520, Stop: 63134, Start Num: 54
Candidate Starts for JoyceMaria_77:
(19, 63676), (20, 63673), (37, 63580), (41, 63568), (Start: 54 @63520 has 24 MA's), (64, 63442), (65, 63409), (67, 63403), (70, 63376), (73, 63361), (76, 63343), (81, 63256), (99, 63142),

Gene: KLucky39_82 Start: 62922, Stop: 62620, Start Num: 57
Candidate Starts for KLucky39_82:
(Start: 34 @63003 has 41 MA's), (Start: 57 @62922 has 271 MA's), (67, 62805), (68, 62784), (76, 62745),

Gene: Kahve_85 Start: 63562, Stop: 63260, Start Num: 57
Candidate Starts for Kahve_85:
(Start: 34 @63643 has 41 MA's), (Start: 57 @63562 has 271 MA's), (67, 63445), (68, 63424), (76, 63385),

Gene: Kailash_82 Start: 63262, Stop: 62960, Start Num: 57
Candidate Starts for Kailash_82:
(Start: 34 @63343 has 41 MA's), (Start: 57 @63262 has 271 MA's), (62, 63193), (67, 63145), (68, 63124), (76, 63085),

Gene: Kamiyu_80 Start: 61234, Stop: 60905, Start Num: 59
Candidate Starts for Kamiyu_80:
(Start: 59 @61234 has 57 MA's), (67, 61135), (68, 61114), (72, 61093),

Gene: KarasumaRum_75 Start: 62138, Stop: 61818, Start Num: 57
Candidate Starts for KarasumaRum_75:
(38, 62207), (39, 62204), (48, 62162), (Start: 57 @62138 has 271 MA's), (67, 62021), (69, 61997), (73, 61979), (75, 61973), (76, 61961), (83, 61871), (90, 61829),

Gene: Karn_84 Start: 63118, Stop: 62816, Start Num: 57
Candidate Starts for Karn_84:
(Start: 34 @63199 has 41 MA's), (Start: 57 @63118 has 271 MA's), (67, 63001), (68, 62980), (76, 62941),

Gene: Katniss_86 Start: 62978, Stop: 62676, Start Num: 57
Candidate Starts for Katniss_86:
(Start: 34 @63059 has 41 MA's), (Start: 57 @62978 has 271 MA's), (62, 62909), (67, 62861), (68, 62840), (76, 62801),

Gene: KayaCho_73 Start: 61898, Stop: 61530, Start Num: 61

Candidate Starts for KayaCho_73:
(48, 61931), (Start: 61 @61898 has 5 MA's), (67, 61799), (69, 61775), (81, 61655),

Gene: Keitherie_87 Start: 63620, Stop: 63318, Start Num: 57
Candidate Starts for Keitherie_87:
(Start: 34 @63701 has 41 MA's), (Start: 57 @63620 has 271 MA's), (62, 63551), (67, 63503), (68, 63482), (76, 63443),

Gene: Khan1_83 Start: 63341, Stop: 63039, Start Num: 57
Candidate Starts for Khan1_83:
(Start: 34 @63422 has 41 MA's), (Start: 57 @63341 has 271 MA's), (67, 63224), (68, 63203), (76, 63164),

Gene: Kikipoo_86 Start: 63369, Stop: 63067, Start Num: 57
Candidate Starts for Kikipoo_86:
(Start: 34 @63450 has 41 MA's), (Start: 57 @63369 has 271 MA's), (67, 63252), (68, 63231), (76, 63192),

Gene: Kimbrough_85 Start: 63441, Stop: 63139, Start Num: 57
Candidate Starts for Kimbrough_85:
(Start: 34 @63522 has 41 MA's), (Start: 57 @63441 has 271 MA's), (67, 63324), (68, 63303), (76, 63264),

Gene: KingTut_75 Start: 59601, Stop: 59299, Start Num: 57
Candidate Starts for KingTut_75:
(Start: 34 @59682 has 41 MA's), (Start: 57 @59601 has 271 MA's), (67, 59484), (68, 59463), (76, 59424),

Gene: KingVeVeVe_82 Start: 62576, Stop: 62274, Start Num: 57
Candidate Starts for KingVeVeVe_82:
(Start: 34 @62657 has 41 MA's), (Start: 57 @62576 has 271 MA's), (67, 62459), (68, 62438), (76, 62399),

Gene: Kiwot_84 Start: 63028, Stop: 62726, Start Num: 57
Candidate Starts for Kiwot_84:
(Start: 34 @63109 has 41 MA's), (Start: 57 @63028 has 271 MA's), (67, 62911), (68, 62890), (76, 62851),

Gene: KlimbOn_83 Start: 62881, Stop: 62579, Start Num: 57
Candidate Starts for KlimbOn_83:
(Start: 34 @62962 has 41 MA's), (Start: 57 @62881 has 271 MA's), (67, 62764), (68, 62743), (76, 62704),

Gene: Kloppinator_84 Start: 63012, Stop: 62710, Start Num: 57
Candidate Starts for Kloppinator_84:
(Start: 34 @63093 has 41 MA's), (Start: 57 @63012 has 271 MA's), (67, 62895), (68, 62874), (76, 62835),

Gene: Knocker_78 Start: 64121, Stop: 63720, Start Num: 53
Candidate Starts for Knocker_78:
(3, 64493), (30, 64208), (31, 64205), (33, 64202), (Start: 53 @64121 has 1 MA's), (55, 64118), (64, 64040), (65, 64007), (67, 64001), (69, 63977), (73, 63959), (76, 63941), (80, 63881), (81, 63854),

Gene: Kronus_80 Start: 62318, Stop: 61989, Start Num: 59
Candidate Starts for Kronus_80:
(Start: 59 @62318 has 57 MA's), (67, 62219), (68, 62198), (72, 62177),

Gene: Kumao_87 Start: 55246, Stop: 55530, Start Num: 58
Candidate Starts for Kumao_87:
(22, 55096), (28, 55132), (40, 55183), (46, 55207), (Start: 58 @55246 has 4 MA's), (69, 55372), (81, 55492),

Gene: Kwadwo_83 Start: 62867, Stop: 62565, Start Num: 57
Candidate Starts for Kwadwo_83:
(Start: 34 @62948 has 41 MA's), (Start: 57 @62867 has 271 MA's), (62, 62798), (67, 62750), (68, 62729), (76, 62690),

Gene: Kwksand96_85 Start: 63133, Stop: 62831, Start Num: 57
Candidate Starts for Kwksand96_85:
(Start: 34 @63214 has 41 MA's), (Start: 57 @63133 has 271 MA's), (62, 63064), (67, 63016), (68, 62995), (76, 62956),

Gene: Labeouficaum_84 Start: 62946, Stop: 62644, Start Num: 57
Candidate Starts for Labeouficaum_84:
(Start: 34 @63027 has 41 MA's), (Start: 57 @62946 has 271 MA's), (67, 62829), (68, 62808), (76, 62769),

Gene: Lambano_73 Start: 62200, Stop: 61814, Start Num: 54
Candidate Starts for Lambano_73:
(37, 62260), (41, 62248), (Start: 54 @62200 has 24 MA's), (64, 62122), (67, 62083), (70, 62056), (73, 62041), (76, 62023), (81, 61936), (99, 61822),

Gene: Larson_86 Start: 63291, Stop: 62908, Start Num: 34
Candidate Starts for Larson_86:
(Start: 34 @63291 has 41 MA's), (Start: 57 @63210 has 271 MA's), (67, 63093), (68, 63072), (76, 63033),

Gene: LasagnaCat_85 Start: 63248, Stop: 62946, Start Num: 57
Candidate Starts for LasagnaCat_85:
(Start: 34 @63329 has 41 MA's), (Start: 57 @63248 has 271 MA's), (62, 63179), (67, 63131), (68, 63110), (76, 63071),

Gene: Lasso_83 Start: 63108, Stop: 62806, Start Num: 57
Candidate Starts for Lasso_83:
(Start: 34 @63189 has 41 MA's), (Start: 57 @63108 has 271 MA's), (68, 62970), (76, 62931),

Gene: LeeLot_83 Start: 63532, Stop: 63149, Start Num: 34
Candidate Starts for LeeLot_83:
(Start: 34 @63532 has 41 MA's), (Start: 57 @63451 has 271 MA's), (67, 63334), (68, 63313), (76, 63274),

Gene: Lego3393_82 Start: 63569, Stop: 63267, Start Num: 57
Candidate Starts for Lego3393_82:
(Start: 34 @63650 has 41 MA's), (Start: 57 @63569 has 271 MA's), (62, 63500), (67, 63452), (68, 63431), (76, 63392),

Gene: Legolas_85 Start: 63195, Stop: 62893, Start Num: 57
Candidate Starts for Legolas_85:
(Start: 34 @63276 has 41 MA's), (Start: 57 @63195 has 271 MA's), (62, 63126), (67, 63078), (68, 63057), (76, 63018),

Gene: Lehmann_87 Start: 63406, Stop: 63104, Start Num: 57
Candidate Starts for Lehmann_87:
(Start: 34 @63487 has 41 MA's), (Start: 57 @63406 has 271 MA's), (67, 63289), (68, 63268), (76, 63229),

Gene: LeiMonet_87 Start: 63329, Stop: 63027, Start Num: 57
Candidate Starts for LeiMonet_87:
(Start: 34 @63410 has 41 MA's), (Start: 57 @63329 has 271 MA's), (67, 63212), (68, 63191), (76, 63152),

Gene: LemonSlice_84 Start: 62854, Stop: 62552, Start Num: 57
Candidate Starts for LemonSlice_84:
(Start: 34 @62935 has 41 MA's), (Start: 57 @62854 has 271 MA's), (68, 62716), (76, 62677),

Gene: LestyG_78 Start: 60804, Stop: 60475, Start Num: 59
Candidate Starts for LestyG_78:
(Start: 59 @60804 has 57 MA's), (67, 60705), (68, 60684), (72, 60663),

Gene: LilMcDreamy_75 Start: 62248, Stop: 61784, Start Num: 57
Candidate Starts for LilMcDreamy_75:
(44, 62284), (Start: 53 @62254 has 1 MA's), (Start: 57 @62248 has 271 MA's), (67, 62131), (69, 62107), (76, 62071), (84, 61975), (101, 61846), (102, 61801), (103, 61792),

Gene: LittleDigger_74 Start: 62053, Stop: 61667, Start Num: 54
Candidate Starts for LittleDigger_74:
(15, 62200), (Start: 34 @62098 has 41 MA's), (36, 62092), (Start: 54 @62053 has 24 MA's), (64, 61975), (65, 61942), (67, 61936), (70, 61909), (73, 61894), (76, 61876), (81, 61789), (99, 61675),

Gene: LittleMinkey_92 Start: 65026, Stop: 64622, Start Num: 58
Candidate Starts for LittleMinkey_92:
(8, 65308), (14, 65224), (42, 65089), (Start: 58 @65026 has 4 MA's), (67, 64909), (69, 64885), (73, 64867), (82, 64762), (95, 64636),

Gene: Lolalove_77 Start: 63280, Stop: 62894, Start Num: 54
Candidate Starts for Lolalove_77:
(16, 63445), (37, 63340), (41, 63328), (Start: 54 @63280 has 24 MA's), (64, 63202), (65, 63169), (67, 63163), (73, 63121), (76, 63103), (81, 63016), (99, 62902),

Gene: Longacauda_85 Start: 63348, Stop: 63046, Start Num: 57
Candidate Starts for Longacauda_85:
(Start: 34 @63429 has 41 MA's), (Start: 57 @63348 has 271 MA's), (62, 63279), (67, 63231), (68, 63210), (76, 63171),

Gene: Lopsy_81 Start: 62535, Stop: 62233, Start Num: 57
Candidate Starts for Lopsy_81:
(Start: 34 @62616 has 41 MA's), (Start: 57 @62535 has 271 MA's), (62, 62466), (67, 62418), (68, 62397),

Gene: LostAndPhound_83 Start: 63397, Stop: 63095, Start Num: 57
Candidate Starts for LostAndPhound_83:
(Start: 34 @63478 has 41 MA's), (Start: 57 @63397 has 271 MA's), (67, 63280), (68, 63259), (76, 63220),

Gene: LuckyMarjie_81 Start: 62606, Stop: 62304, Start Num: 57
Candidate Starts for LuckyMarjie_81:
(Start: 34 @62687 has 41 MA's), (Start: 57 @62606 has 271 MA's), (67, 62489), (68, 62468), (76, 62429),

Gene: Lulumae_81 Start: 62668, Stop: 62285, Start Num: 34
Candidate Starts for Lulumae_81:
(Start: 34 @62668 has 41 MA's), (Start: 57 @62587 has 271 MA's), (67, 62470), (68, 62449), (76, 62410),

Gene: Lulwa_81 Start: 62220, Stop: 61918, Start Num: 57
Candidate Starts for Lulwa_81:
(Start: 34 @62301 has 41 MA's), (Start: 57 @62220 has 271 MA's), (67, 62103), (68, 62082), (76, 62043),

Gene: Lumine_85 Start: 63045, Stop: 62743, Start Num: 57
Candidate Starts for Lumine_85:
(Start: 34 @63126 has 41 MA's), (Start: 57 @63045 has 271 MA's), (67, 62928), (68, 62907), (76, 62868),

Gene: MRabcd_84 Start: 63322, Stop: 63020, Start Num: 57
Candidate Starts for MRabcd_84:
(Start: 34 @63403 has 41 MA's), (Start: 57 @63322 has 271 MA's), (67, 63205), (68, 63184), (76, 63145),

Gene: Mag7_82 Start: 62806, Stop: 62504, Start Num: 57
Candidate Starts for Mag7_82:
(Start: 34 @62887 has 41 MA's), (Start: 57 @62806 has 271 MA's), (62, 62737), (67, 62689), (68, 62668), (76, 62629),

Gene: Magic8_83 Start: 63174, Stop: 62872, Start Num: 57
Candidate Starts for Magic8_83:
(Start: 34 @63255 has 41 MA's), (Start: 57 @63174 has 271 MA's), (67, 63057), (68, 63036), (76, 62997),

Gene: Magpie_73 Start: 62892, Stop: 62506, Start Num: 54
Candidate Starts for Magpie_73:
(13, 63081), (37, 62952), (41, 62940), (Start: 54 @62892 has 24 MA's), (64, 62814), (65, 62781), (70, 62748), (73, 62733), (76, 62715), (81, 62628), (99, 62514),

Gene: MakoManhole_74 Start: 56700, Stop: 56401, Start Num: 56
Candidate Starts for MakoManhole_74:
(Start: 56 @56700 has 7 MA's), (69, 56568), (73, 56550), (83, 56439),

Gene: Mana_82 Start: 63010, Stop: 62708, Start Num: 57
Candidate Starts for Mana_82:
(Start: 34 @63091 has 41 MA's), (Start: 57 @63010 has 271 MA's), (67, 62893), (68, 62872), (76, 62833),

Gene: Manad_83 Start: 63120, Stop: 62818, Start Num: 57
Candidate Starts for Manad_83:
(Start: 34 @63201 has 41 MA's), (Start: 57 @63120 has 271 MA's), (67, 63003), (68, 62982), (76, 62943),

Gene: Marley1013_81 Start: 62170, Stop: 61841, Start Num: 59
Candidate Starts for Marley1013_81:
(Start: 59 @62170 has 57 MA's), (67, 62071), (68, 62050), (72, 62029),

Gene: Marlia_81 Start: 61703, Stop: 61374, Start Num: 59
Candidate Starts for Marlia_81:
(Start: 59 @61703 has 57 MA's), (67, 61604), (68, 61583), (72, 61562),

Gene: Maru_84 Start: 63458, Stop: 63156, Start Num: 57
Candidate Starts for Maru_84:
(Start: 34 @63539 has 41 MA's), (Start: 57 @63458 has 271 MA's), (67, 63341), (68, 63320), (76, 63281),

Gene: Maskar_85 Start: 63370, Stop: 63068, Start Num: 57
Candidate Starts for Maskar_85:
(Start: 34 @63451 has 41 MA's), (Start: 57 @63370 has 271 MA's), (62, 63301), (67, 63253), (68, 63232), (76, 63193),

Gene: Matalotodo_83 Start: 63854, Stop: 63552, Start Num: 57
Candidate Starts for Matalotodo_83:
(Start: 34 @63935 has 41 MA's), (Start: 57 @63854 has 271 MA's), (67, 63737), (68, 63716), (76, 63677),

Gene: Mcshane_83 Start: 62868, Stop: 62566, Start Num: 57
Candidate Starts for Mcshane_83:
(Start: 34 @62949 has 41 MA's), (Start: 57 @62868 has 271 MA's), (67, 62751), (68, 62730), (76, 62691),

Gene: Mecca_84 Start: 63422, Stop: 63120, Start Num: 57
Candidate Starts for Mecca_84:
(Start: 34 @63503 has 41 MA's), (Start: 57 @63422 has 271 MA's), (67, 63305), (68, 63284), (76, 63245),

Gene: Megabear_66 Start: 49066, Stop: 49365, Start Num: 59
Candidate Starts for Megabear_66:
(Start: 59 @49066 has 57 MA's), (67, 49165), (68, 49186), (74, 49216), (78, 49273), (83, 49324), (88, 49354),

Gene: Megamind20_84 Start: 62832, Stop: 62530, Start Num: 57
Candidate Starts for Megamind20_84:
(Start: 34 @62913 has 41 MA's), (Start: 57 @62832 has 271 MA's), (62, 62763), (67, 62715), (68, 62694), (76, 62655),

Gene: Megatron_85 Start: 63540, Stop: 63238, Start Num: 57
Candidate Starts for Megatron_85:
(Start: 34 @63621 has 41 MA's), (Start: 57 @63540 has 271 MA's), (62, 63471), (67, 63423), (68, 63402), (76, 63363),

Gene: Melc17_81 Start: 63490, Stop: 63188, Start Num: 57
Candidate Starts for Melc17_81:
(Start: 34 @63571 has 41 MA's), (Start: 57 @63490 has 271 MA's), (67, 63373), (68, 63352), (76, 63313),

Gene: MelsMeow_83 Start: 63130, Stop: 62828, Start Num: 57
Candidate Starts for MelsMeow_83:
(Start: 34 @63211 has 41 MA's), (Start: 57 @63130 has 271 MA's), (62, 63061), (67, 63013), (68, 62992), (76, 62953),

Gene: Mesh1_85 Start: 63667, Stop: 63284, Start Num: 34
Candidate Starts for Mesh1_85:
(Start: 34 @63667 has 41 MA's), (Start: 57 @63586 has 271 MA's), (67, 63469), (68, 63448), (76, 63409),

Gene: Mesmerelda_83 Start: 63422, Stop: 63120, Start Num: 57
Candidate Starts for Mesmerelda_83:
(Start: 34 @63503 has 41 MA's), (Start: 57 @63422 has 271 MA's), (67, 63305), (68, 63284), (76, 63245),

Gene: MichaelPhcott_82 Start: 62803, Stop: 62501, Start Num: 57
Candidate Starts for MichaelPhcott_82:
(Start: 34 @62884 has 41 MA's), (Start: 57 @62803 has 271 MA's), (62, 62734), (67, 62686), (68, 62665), (76, 62626),

Gene: Mikota_81 Start: 62574, Stop: 62272, Start Num: 57
Candidate Starts for Mikota_81:
(Start: 34 @62655 has 41 MA's), (Start: 57 @62574 has 271 MA's), (67, 62457), (68, 62436), (76, 62397),

Gene: MiniBoss_81 Start: 62175, Stop: 61873, Start Num: 57
Candidate Starts for MiniBoss_81:
(Start: 34 @62256 has 41 MA's), (Start: 57 @62175 has 271 MA's), (67, 62058), (68, 62037), (76, 61998),

Gene: Minnow_76 Start: 62107, Stop: 61739, Start Num: 61
Candidate Starts for Minnow_76:
(48, 62140), (Start: 61 @62107 has 5 MA's), (67, 62008), (69, 61984), (81, 61864),

Gene: MitKao_84 Start: 63024, Stop: 62722, Start Num: 57
Candidate Starts for MitKao_84:
(Start: 34 @63105 has 41 MA's), (Start: 57 @63024 has 271 MA's), (67, 62907), (68, 62886), (76, 62847),

Gene: Mithril_75 Start: 63279, Stop: 62893, Start Num: 54
Candidate Starts for Mithril_75:
(13, 63468), (37, 63339), (41, 63327), (Start: 54 @63279 has 24 MA's), (64, 63201), (65, 63168), (67, 63162), (73, 63120), (76, 63102), (81, 63015), (99, 62901),

Gene: MmasiCarm_81 Start: 61673, Stop: 61344, Start Num: 59
Candidate Starts for MmasiCarm_81:
(Start: 59 @61673 has 57 MA's), (67, 61574), (68, 61553), (72, 61532),

Gene: Morgushi_82 Start: 62919, Stop: 62536, Start Num: 34
Candidate Starts for Morgushi_82:
(Start: 34 @62919 has 41 MA's), (Start: 57 @62838 has 271 MA's), (67, 62721), (68, 62700), (76, 62661),

Gene: Mortcellus_80 Start: 62399, Stop: 62070, Start Num: 59
Candidate Starts for Mortcellus_80:
(Start: 59 @62399 has 57 MA's), (67, 62300), (68, 62279), (72, 62258),

Gene: Morty_85 Start: 63410, Stop: 63108, Start Num: 57
Candidate Starts for Morty_85:
(Start: 34 @63491 has 41 MA's), (Start: 57 @63410 has 271 MA's), (67, 63293), (68, 63272), (76, 63233),

Gene: Morty007_79 Start: 62170, Stop: 61841, Start Num: 59
Candidate Starts for Morty007_79:
(Start: 59 @62170 has 57 MA's), (67, 62071), (68, 62050), (72, 62029),

Gene: Mosaic_82 Start: 63101, Stop: 62718, Start Num: 34
Candidate Starts for Mosaic_82:
(Start: 34 @63101 has 41 MA's), (Start: 57 @63020 has 271 MA's), (67, 62903), (68, 62882), (76, 62843),

Gene: MossRose_77 Start: 57611, Stop: 57312, Start Num: 56
Candidate Starts for MossRose_77:
(Start: 56 @57611 has 7 MA's), (69, 57479), (73, 57461), (83, 57350),

Gene: MrPhizzler_87 Start: 63318, Stop: 63016, Start Num: 57
Candidate Starts for MrPhizzler_87:
(Start: 34 @63399 has 41 MA's), (Start: 57 @63318 has 271 MA's), (67, 63201), (68, 63180), (76, 63141),

Gene: Mudslide_75 Start: 63316, Stop: 62930, Start Num: 54
Candidate Starts for Mudslide_75:
(19, 63472), (20, 63469), (37, 63376), (41, 63364), (45, 63349), (Start: 54 @63316 has 24 MA's), (64, 63238), (65, 63205), (67, 63199), (70, 63172), (73, 63157), (76, 63139), (81, 63052), (99, 62938),

Gene: Mulan_83 Start: 63053, Stop: 62751, Start Num: 57
Candidate Starts for Mulan_83:
(Start: 34 @63134 has 41 MA's), (Start: 57 @63053 has 271 MA's), (67, 62936), (68, 62915), (76, 62876),

Gene: Mulaychimus_81 Start: 61683, Stop: 61354, Start Num: 59
Candidate Starts for Mulaychimus_81:
(Start: 59 @61683 has 57 MA's), (67, 61584), (68, 61563), (72, 61542),

Gene: Murdoc_81 Start: 63212, Stop: 62829, Start Num: 34
Candidate Starts for Murdoc_81:
(Start: 34 @63212 has 41 MA's), (Start: 57 @63131 has 271 MA's), (67, 63014), (68, 62993), (76, 62954),

Gene: Mutante_85 Start: 63025, Stop: 62723, Start Num: 57

Candidate Starts for Mutante_85:
(Start: 34 @63106 has 41 MA's), (Start: 57 @63025 has 271 MA's), (67, 62908), (68, 62887), (76, 62848),

Gene: Mysterious_75 Start: 62158, Stop: 61763, Start Num: 57
Candidate Starts for Mysterious_75:
(35, 62212), (Start: 57 @62158 has 271 MA's), (67, 62041), (69, 62017), (73, 61999), (75, 61993),

Gene: Nacho_0087 Start: 64177, Stop: 63794, Start Num: 34
Candidate Starts for Nacho_0087:
(Start: 34 @64177 has 41 MA's), (Start: 57 @64096 has 271 MA's), (67, 63979), (68, 63958), (76, 63919),

Gene: Nanao_74 Start: 62190, Stop: 61804, Start Num: 54
Candidate Starts for Nanao_74:
(37, 62250), (41, 62238), (Start: 54 @62190 has 24 MA's), (64, 62112), (67, 62073), (70, 62046), (73, 62031), (76, 62013), (81, 61926), (99, 61812),

Gene: Nangang_78 Start: 62728, Stop: 62333, Start Num: 57
Candidate Starts for Nangang_78:
(Start: 34 @62809 has 41 MA's), (Start: 57 @62728 has 271 MA's), (69, 62587), (73, 62569), (75, 62563), (76, 62551), (87, 62437),

Gene: Nathan_85 Start: 63551, Stop: 63249, Start Num: 57
Candidate Starts for Nathan_85:
(Start: 34 @63632 has 41 MA's), (Start: 57 @63551 has 271 MA's), (67, 63434), (68, 63413), (76, 63374),

Gene: Nehemiah_76 Start: 62221, Stop: 61826, Start Num: 57
Candidate Starts for Nehemiah_76:
(38, 62290), (39, 62287), (48, 62245), (Start: 57 @62221 has 271 MA's), (67, 62104), (69, 62080), (73, 62062), (75, 62056),

Gene: Nehme_81 Start: 63214, Stop: 62912, Start Num: 57
Candidate Starts for Nehme_81:
(Start: 34 @63295 has 41 MA's), (Start: 57 @63214 has 271 MA's), (67, 63097), (68, 63076), (76, 63037),

Gene: Neos5_80 Start: 61632, Stop: 61303, Start Num: 59
Candidate Starts for Neos5_80:
(Start: 59 @61632 has 57 MA's), (67, 61533), (68, 61512), (72, 61491),

Gene: Newman_82 Start: 63454, Stop: 63071, Start Num: 34
Candidate Starts for Newman_82:
(Start: 34 @63454 has 41 MA's), (Start: 57 @63373 has 271 MA's), (67, 63256), (68, 63235), (76, 63196),

Gene: NiaNia_85 Start: 62898, Stop: 62596, Start Num: 57
Candidate Starts for NiaNia_85:
(Start: 34 @62979 has 41 MA's), (Start: 57 @62898 has 271 MA's), (67, 62781), (68, 62760), (76, 62721),

Gene: Nicole21_85 Start: 63159, Stop: 62857, Start Num: 57

Candidate Starts for Nicole21_85:
(Start: 34 @63240 has 41 MA's), (Start: 57 @63159 has 271 MA's), (62, 63090), (67, 63042), (68, 63021), (76, 62982),

Gene: Nigel_72 Start: 61700, Stop: 61314, Start Num: 57
Candidate Starts for Nigel_72:
(12, 61904), (37, 61766), (41, 61754), (Start: 57 @61700 has 271 MA's), (64, 61622), (67, 61583), (70, 61556), (73, 61541), (76, 61523), (81, 61436), (99, 61322),

Gene: Nova1_84 Start: 63004, Stop: 62702, Start Num: 57
Candidate Starts for Nova1_84:
(Start: 34 @63085 has 41 MA's), (Start: 57 @63004 has 271 MA's), (67, 62887), (68, 62866), (76, 62827),

Gene: Nozo_80 Start: 62041, Stop: 61712, Start Num: 59
Candidate Starts for Nozo_80:
(Start: 59 @62041 has 57 MA's), (67, 61942), (68, 61921), (72, 61900),

Gene: Numberten_83 Start: 63140, Stop: 62838, Start Num: 57
Candidate Starts for Numberten_83:
(Start: 34 @63221 has 41 MA's), (Start: 57 @63140 has 271 MA's), (67, 63023), (68, 63002), (76, 62963),

Gene: Nyala_83 Start: 62875, Stop: 62573, Start Num: 57
Candidate Starts for Nyala_83:
(Start: 34 @62956 has 41 MA's), (Start: 57 @62875 has 271 MA's), (67, 62758), (68, 62737), (76, 62698),

Gene: OSmaximus_85 Start: 63706, Stop: 63404, Start Num: 57
Candidate Starts for OSmaximus_85:
(Start: 34 @63787 has 41 MA's), (Start: 57 @63706 has 271 MA's), (68, 63568), (76, 63529),

Gene: Obutu_82 Start: 61844, Stop: 61515, Start Num: 59
Candidate Starts for Obutu_82:
(Start: 59 @61844 has 57 MA's), (67, 61745), (68, 61724), (72, 61703),

Gene: Olak_83 Start: 63039, Stop: 62737, Start Num: 57
Candidate Starts for Olak_83:
(Start: 34 @63120 has 41 MA's), (Start: 57 @63039 has 271 MA's), (68, 62901), (76, 62862),

Gene: Oline_83 Start: 63029, Stop: 62727, Start Num: 57
Candidate Starts for Oline_83:
(Start: 34 @63110 has 41 MA's), (Start: 57 @63029 has 271 MA's), (67, 62912), (68, 62891), (76, 62852),

Gene: Olive_82 Start: 63270, Stop: 62968, Start Num: 57
Candidate Starts for Olive_82:
(Start: 34 @63351 has 41 MA's), (Start: 57 @63270 has 271 MA's), (67, 63153), (68, 63132), (76, 63093),

Gene: OliverWalter_84 Start: 63326, Stop: 63024, Start Num: 57
Candidate Starts for OliverWalter_84:

(Start: 34 @63407 has 41 MA's), (Start: 57 @63326 has 271 MA's), (67, 63209), (68, 63188), (76, 63149),

Gene: Omniscient_85 Start: 63729, Stop: 63427, Start Num: 57
Candidate Starts for Omniscient_85:
(Start: 34 @63810 has 41 MA's), (Start: 57 @63729 has 271 MA's), (62, 63660), (67, 63612), (68, 63591), (76, 63552),

Gene: OneBrain_87 Start: 63289, Stop: 62987, Start Num: 57
Candidate Starts for OneBrain_87:
(Start: 34 @63370 has 41 MA's), (Start: 57 @63289 has 271 MA's), (67, 63172), (68, 63151), (76, 63112),

Gene: Oosterbaan_84 Start: 63266, Stop: 62964, Start Num: 57
Candidate Starts for Oosterbaan_84:
(Start: 34 @63347 has 41 MA's), (Start: 57 @63266 has 271 MA's), (67, 63149), (68, 63128), (76, 63089),

Gene: Orfeu_83 Start: 63388, Stop: 63086, Start Num: 57
Candidate Starts for Orfeu_83:
(Start: 34 @63469 has 41 MA's), (Start: 57 @63388 has 271 MA's), (67, 63271), (68, 63250), (76, 63211),

Gene: Orion_83 Start: 63039, Stop: 62656, Start Num: 34
Candidate Starts for Orion_83:
(Start: 34 @63039 has 41 MA's), (Start: 57 @62958 has 271 MA's), (67, 62841), (68, 62820), (76, 62781),

Gene: Orwigg_83 Start: 62794, Stop: 62492, Start Num: 57
Candidate Starts for Orwigg_83:
(Start: 34 @62875 has 41 MA's), (Start: 57 @62794 has 271 MA's), (67, 62677), (68, 62656), (76, 62617),

Gene: PG1_83 Start: 63611, Stop: 63228, Start Num: 34
Candidate Starts for PG1_83:
(Start: 34 @63611 has 41 MA's), (Start: 57 @63530 has 271 MA's), (67, 63413), (68, 63392), (76, 63353),

Gene: PR_67 Start: 49757, Stop: 50056, Start Num: 59
Candidate Starts for PR_67:
(Start: 59 @49757 has 57 MA's), (67, 49856), (68, 49877), (74, 49907), (78, 49964), (83, 50015), (88, 50045),

Gene: Pacifista_83 Start: 62879, Stop: 62577, Start Num: 57
Candidate Starts for Pacifista_83:
(Start: 34 @62960 has 41 MA's), (Start: 57 @62879 has 271 MA's), (67, 62762), (68, 62741), (76, 62702),

Gene: PallasAthena_85 Start: 62860, Stop: 62558, Start Num: 57
Candidate Starts for PallasAthena_85:
(Start: 34 @62941 has 41 MA's), (Start: 57 @62860 has 271 MA's), (67, 62743), (68, 62722), (76, 62683),

Gene: PenguinLover67_79 Start: 62948, Stop: 62556, Start Num: 61
Candidate Starts for PenguinLover67_79:
(42, 63011), (44, 63002), (Start: 54 @62966 has 24 MA's), (Start: 61 @62948 has 5 MA's), (67, 62849), (69, 62825), (82, 62702), (92, 62639),

Gene: Phaedrus_75 Start: 60692, Stop: 60363, Start Num: 59
Candidate Starts for Phaedrus_75:
(Start: 59 @60692 has 57 MA's), (67, 60593), (68, 60572), (72, 60551),

Gene: Phamished_84 Start: 63046, Stop: 62744, Start Num: 57
Candidate Starts for Phamished_84:
(Start: 34 @63127 has 41 MA's), (Start: 57 @63046 has 271 MA's), (67, 62929), (68, 62908), (76, 62869),

Gene: Phareon_82 Start: 62571, Stop: 62269, Start Num: 57
Candidate Starts for Phareon_82:
(Start: 34 @62652 has 41 MA's), (Start: 57 @62571 has 271 MA's), (67, 62454), (68, 62433), (76, 62394),

Gene: PhatCats2014_84 Start: 63611, Stop: 63228, Start Num: 34
Candidate Starts for PhatCats2014_84:
(Start: 34 @63611 has 41 MA's), (Start: 57 @63530 has 271 MA's), (62, 63461), (67, 63413), (68, 63392), (76, 63353),

Gene: PhatLouie_86 Start: 63405, Stop: 63103, Start Num: 57
Candidate Starts for PhatLouie_86:
(Start: 34 @63486 has 41 MA's), (Start: 57 @63405 has 271 MA's), (67, 63288), (68, 63267), (76, 63228),

Gene: Phayeta_83 Start: 61761, Stop: 61432, Start Num: 59
Candidate Starts for Phayeta_83:
(Start: 59 @61761 has 57 MA's), (67, 61662), (68, 61641), (72, 61620),

Gene: Phelemich_74 Start: 62284, Stop: 61889, Start Num: 57
Candidate Starts for Phelemich_74:
(35, 62338), (Start: 57 @62284 has 271 MA's), (67, 62167), (69, 62143), (73, 62125), (75, 62119),

Gene: PhenghisKhan_84 Start: 63035, Stop: 62733, Start Num: 57
Candidate Starts for PhenghisKhan_84:
(Start: 34 @63116 has 41 MA's), (Start: 57 @63035 has 271 MA's), (62, 62966), (67, 62918), (68, 62897), (76, 62858),

Gene: Pherdinand_85 Start: 63251, Stop: 62949, Start Num: 57
Candidate Starts for Pherdinand_85:
(Start: 34 @63332 has 41 MA's), (Start: 57 @63251 has 271 MA's), (62, 63182), (67, 63134), (68, 63113), (76, 63074),

Gene: Phergie_84 Start: 63024, Stop: 62722, Start Num: 57
Candidate Starts for Phergie_84:
(Start: 34 @63105 has 41 MA's), (Start: 57 @63024 has 271 MA's), (62, 62955), (67, 62907), (68, 62886), (76, 62847),

Gene: Philly_79 Start: 61124, Stop: 60795, Start Num: 59

Candidate Starts for Philly_79:
(Start: 59 @61124 has 57 MA's), (67, 61025), (68, 61004), (72, 60983),

Gene: Phipps_83 Start: 63102, Stop: 62800, Start Num: 57
Candidate Starts for Phipps_83:
(Start: 34 @63183 has 41 MA's), (Start: 57 @63102 has 271 MA's), (67, 62985), (68, 62964), (76, 62925),

Gene: Phleuron_82 Start: 62836, Stop: 62534, Start Num: 57
Candidate Starts for Phleuron_82:
(Start: 34 @62917 has 41 MA's), (Start: 57 @62836 has 271 MA's), (62, 62767), (67, 62719), (68, 62698), (76, 62659),

Gene: Phlyer_80 Start: 61987, Stop: 61658, Start Num: 59
Candidate Starts for Phlyer_80:
(Start: 59 @61987 has 57 MA's), (67, 61888), (68, 61867), (72, 61846),

Gene: PhrankReynolds_83 Start: 63110, Stop: 62727, Start Num: 34
Candidate Starts for PhrankReynolds_83:
(Start: 34 @63110 has 41 MA's), (Start: 57 @63029 has 271 MA's), (62, 62960), (67, 62912), (68, 62891), (76, 62852),

Gene: PhrodoBaggins_86 Start: 63405, Stop: 63103, Start Num: 57
Candidate Starts for PhrodoBaggins_86:
(Start: 34 @63486 has 41 MA's), (Start: 57 @63405 has 271 MA's), (67, 63288), (68, 63267), (76, 63228),

Gene: Phunky_82 Start: 62909, Stop: 62607, Start Num: 57
Candidate Starts for Phunky_82:
(Start: 34 @62990 has 41 MA's), (Start: 57 @62909 has 271 MA's), (68, 62771), (76, 62732),

Gene: Piglet_0084 Start: 63524, Stop: 63222, Start Num: 57
Candidate Starts for Piglet_0084:
(Start: 34 @63605 has 41 MA's), (Start: 57 @63524 has 271 MA's), (67, 63407), (68, 63386), (76, 63347),

Gene: PinheadLarry_83 Start: 63175, Stop: 62873, Start Num: 57
Candidate Starts for PinheadLarry_83:
(Start: 34 @63256 has 41 MA's), (Start: 57 @63175 has 271 MA's), (68, 63037), (76, 62998),

Gene: Pinkman_84 Start: 63248, Stop: 62946, Start Num: 57
Candidate Starts for Pinkman_84:
(Start: 34 @63329 has 41 MA's), (Start: 57 @63248 has 271 MA's), (67, 63131), (68, 63110), (76, 63071),

Gene: Pipefish_82 Start: 62383, Stop: 62054, Start Num: 59
Candidate Starts for Pipefish_82:
(Start: 59 @62383 has 57 MA's), (67, 62284), (68, 62263), (72, 62242),

Gene: Pipsqueak_81 Start: 62861, Stop: 62559, Start Num: 57
Candidate Starts for Pipsqueak_81:
(Start: 34 @62942 has 41 MA's), (Start: 57 @62861 has 271 MA's), (67, 62744), (68, 62723), (76, 62684),

Gene: Placalicious_83 Start: 63894, Stop: 63592, Start Num: 57
Candidate Starts for Placalicious_83:
(Start: 34 @63975 has 41 MA's), (Start: 57 @63894 has 271 MA's), (67, 63777), (68, 63756), (76, 63717),

Gene: Plata_83 Start: 63116, Stop: 62775, Start Num: 57
Candidate Starts for Plata_83:
(Start: 34 @63197 has 41 MA's), (Start: 57 @63116 has 271 MA's), (67, 62999), (68, 62978), (76, 62939), (91, 62789),

Gene: Plmatters_82 Start: 62849, Stop: 62547, Start Num: 57
Candidate Starts for Plmatters_82:
(Start: 34 @62930 has 41 MA's), (Start: 57 @62849 has 271 MA's), (67, 62732), (68, 62711), (76, 62672),

Gene: Podrick_83 Start: 62937, Stop: 62635, Start Num: 57
Candidate Starts for Podrick_83:
(Start: 34 @63018 has 41 MA's), (Start: 57 @62937 has 271 MA's), (67, 62820), (68, 62799), (76, 62760),

Gene: Pops_82 Start: 63120, Stop: 62737, Start Num: 34
Candidate Starts for Pops_82:
(Start: 34 @63120 has 41 MA's), (Start: 57 @63039 has 271 MA's), (67, 62922), (68, 62901), (76, 62862),

Gene: Poster_73 Start: 62191, Stop: 61805, Start Num: 54
Candidate Starts for Poster_73:
(37, 62251), (41, 62239), (Start: 54 @62191 has 24 MA's), (64, 62113), (67, 62074), (70, 62047), (73, 62032), (76, 62014), (81, 61927), (99, 61813),

Gene: Potter_80 Start: 62858, Stop: 62556, Start Num: 57
Candidate Starts for Potter_80:
(Start: 34 @62939 has 41 MA's), (Start: 57 @62858 has 271 MA's), (67, 62741), (68, 62720), (76, 62681),

Gene: Prickles_85 Start: 63228, Stop: 62926, Start Num: 57
Candidate Starts for Prickles_85:
(Start: 34 @63309 has 41 MA's), (Start: 57 @63228 has 271 MA's), (68, 63090), (76, 63051),

Gene: Prince_75 Start: 63386, Stop: 63000, Start Num: 54
Candidate Starts for Prince_75:
(19, 63542), (20, 63539), (37, 63446), (41, 63434), (Start: 54 @63386 has 24 MA's), (64, 63308), (65, 63275), (67, 63269), (70, 63242), (73, 63227), (76, 63209), (81, 63122), (99, 63008),

Gene: ProfessorX_82 Start: 62895, Stop: 62593, Start Num: 57
Candidate Starts for ProfessorX_82:
(Start: 34 @62976 has 41 MA's), (Start: 57 @62895 has 271 MA's), (67, 62778), (68, 62757), (76, 62718),

Gene: Puhltonio_81 Start: 63213, Stop: 62830, Start Num: 34
Candidate Starts for Puhltonio_81:

(Start: 34 @63213 has 41 MA's), (Start: 57 @63132 has 271 MA's), (67, 63015), (68, 62994), (76, 62955),

Gene: QueenBeane_84 Start: 63182, Stop: 62880, Start Num: 57
Candidate Starts for QueenBeane_84:
(Start: 34 @63263 has 41 MA's), (Start: 57 @63182 has 271 MA's), (62, 63113), (67, 63065), (68, 63044), (76, 63005),

Gene: QueenPie_69 Start: 61924, Stop: 61538, Start Num: 54
Candidate Starts for QueenPie_69:
(Start: 54 @61924 has 24 MA's), (64, 61846), (65, 61813), (67, 61807), (70, 61780), (73, 61765), (76, 61747), (81, 61660), (99, 61546),

Gene: Quesadilla_79 Start: 63413, Stop: 63021, Start Num: 61
Candidate Starts for Quesadilla_79:
(Start: 61 @63413 has 5 MA's), (67, 63314), (69, 63290), (81, 63170), (92, 63104),

Gene: Quisquiliae_86 Start: 63192, Stop: 62890, Start Num: 57
Candidate Starts for Quisquiliae_86:
(Start: 34 @63273 has 41 MA's), (Start: 57 @63192 has 271 MA's), (67, 63075), (68, 63054), (76, 63015),

Gene: RagingRooster_79 Start: 60967, Stop: 60638, Start Num: 59
Candidate Starts for RagingRooster_79:
(Start: 59 @60967 has 57 MA's), (67, 60868), (68, 60847), (72, 60826),

Gene: RawrgerThat_75 Start: 62971, Stop: 62585, Start Num: 54
Candidate Starts for RawrgerThat_75:
(16, 63136), (37, 63031), (41, 63019), (Start: 54 @62971 has 24 MA's), (64, 62893), (65, 62860), (67, 62854), (70, 62827), (73, 62812), (76, 62794), (81, 62707), (99, 62593),

Gene: Reccee_78 Start: 62558, Stop: 62070, Start Num: 34
Candidate Starts for Reccee_78:
(24, 62609), (Start: 34 @62558 has 41 MA's), (Start: 50 @62495 has 1 MA's), (Start: 57 @62477 has 271 MA's), (69, 62336), (73, 62318), (75, 62312),

Gene: RedMaple_84 Start: 63795, Stop: 63493, Start Num: 57
Candidate Starts for RedMaple_84:
(Start: 34 @63876 has 41 MA's), (Start: 57 @63795 has 271 MA's), (67, 63678), (68, 63657), (76, 63618),

Gene: RedRaider89_83 Start: 63481, Stop: 63179, Start Num: 57
Candidate Starts for RedRaider89_83:
(Start: 34 @63562 has 41 MA's), (Start: 57 @63481 has 271 MA's), (67, 63364), (68, 63343), (76, 63304),

Gene: Renkei_74 Start: 62047, Stop: 61661, Start Num: 54
Candidate Starts for Renkei_74:
(15, 62194), (Start: 34 @62092 has 41 MA's), (36, 62086), (Start: 54 @62047 has 24 MA's), (64, 61969), (65, 61936), (67, 61930), (70, 61903), (73, 61888), (76, 61870), (81, 61783), (99, 61669),

Gene: Reprobate_76 Start: 62289, Stop: 61894, Start Num: 57
Candidate Starts for Reprobate_76:

(35, 62343), (Start: 57 @62289 has 271 MA's), (67, 62172), (69, 62148), (73, 62130), (75, 62124),

Gene: Rich_75 Start: 62998, Stop: 62510, Start Num: 34
Candidate Starts for Rich_75:
(24, 63049), (Start: 34 @62998 has 41 MA's), (Start: 50 @62935 has 1 MA's), (Start: 57 @62917 has 271 MA's), (69, 62776), (73, 62758), (75, 62752),

Gene: Ricotta_84 Start: 62877, Stop: 62575, Start Num: 57
Candidate Starts for Ricotta_84:
(Start: 34 @62958 has 41 MA's), (Start: 57 @62877 has 271 MA's), (67, 62760), (68, 62739), (76, 62700),

Gene: Riggan_85 Start: 63363, Stop: 63061, Start Num: 57
Candidate Starts for Riggan_85:
(Start: 34 @63444 has 41 MA's), (Start: 57 @63363 has 271 MA's), (62, 63294), (67, 63246), (68, 63225), (76, 63186),

Gene: Rimu_84 Start: 63341, Stop: 63039, Start Num: 57
Candidate Starts for Rimu_84:
(Start: 34 @63422 has 41 MA's), (Start: 57 @63341 has 271 MA's), (67, 63224), (68, 63203), (76, 63164),

Gene: Rinkes_75 Start: 63331, Stop: 62945, Start Num: 49
Candidate Starts for Rinkes_75:
(Start: 47 @63343 has 1 MA's), (Start: 49 @63331 has 2 MA's), (67, 63226), (69, 63202), (73, 63184), (76, 63166), (81, 63079), (95, 62965),

Gene: Rita130_76 Start: 62228, Stop: 61740, Start Num: 34
Candidate Starts for Rita130_76:
(24, 62279), (Start: 34 @62228 has 41 MA's), (Start: 50 @62165 has 1 MA's), (Start: 57 @62147 has 271 MA's), (69, 62006), (73, 61988), (75, 61982),

Gene: Rita1961_81 Start: 61621, Stop: 61292, Start Num: 59
Candidate Starts for Rita1961_81:
(Start: 59 @61621 has 57 MA's), (67, 61522), (68, 61501), (72, 61480),

Gene: Riverton_83 Start: 63121, Stop: 62819, Start Num: 57
Candidate Starts for Riverton_83:
(Start: 34 @63202 has 41 MA's), (Start: 57 @63121 has 271 MA's), (67, 63004), (68, 62983), (76, 62944),

Gene: Robyn_86 Start: 63620, Stop: 63318, Start Num: 57
Candidate Starts for Robyn_86:
(Start: 34 @63701 has 41 MA's), (Start: 57 @63620 has 271 MA's), (67, 63503), (68, 63482), (76, 63443),

Gene: Roliet_81 Start: 62222, Stop: 61920, Start Num: 57
Candidate Starts for Roliet_81:
(Start: 34 @62303 has 41 MA's), (Start: 57 @62222 has 271 MA's), (67, 62105), (68, 62084), (76, 62045),

Gene: RomaT_80 Start: 61841, Stop: 61512, Start Num: 59
Candidate Starts for RomaT_80:

(Start: 59 @61841 has 57 MA's), (67, 61742), (68, 61721), (72, 61700),

Gene: Roscoe_84 Start: 63482, Stop: 63180, Start Num: 57
Candidate Starts for Roscoe_84:
(Start: 34 @63563 has 41 MA's), (Start: 57 @63482 has 271 MA's), (67, 63365), (68, 63344), (76, 63305),

Gene: Roy17_82 Start: 62668, Stop: 62285, Start Num: 34
Candidate Starts for Roy17_82:
(Start: 34 @62668 has 41 MA's), (Start: 57 @62587 has 271 MA's), (67, 62470), (68, 62449), (76, 62410),

Gene: SDcharge11_83 Start: 62515, Stop: 62213, Start Num: 57
Candidate Starts for SDcharge11_83:
(Start: 34 @62596 has 41 MA's), (Start: 57 @62515 has 271 MA's), (67, 62398), (68, 62377), (76, 62338),

Gene: Saguaro_75 Start: 62202, Stop: 61816, Start Num: 57
Candidate Starts for Saguaro_75:
(Start: 57 @62202 has 271 MA's), (69, 62061), (70, 62058), (73, 62043), (75, 62037), (76, 62025), (79, 61971), (80, 61968), (97, 61833),

Gene: Salazzle_82 Start: 63041, Stop: 62739, Start Num: 57
Candidate Starts for Salazzle_82:
(Start: 34 @63122 has 41 MA's), (Start: 57 @63041 has 271 MA's), (67, 62924), (68, 62903), (76, 62864),

Gene: SallyH_87 Start: 63122, Stop: 62820, Start Num: 57
Candidate Starts for SallyH_87:
(Start: 34 @63203 has 41 MA's), (Start: 57 @63122 has 271 MA's), (67, 63005), (68, 62984), (76, 62945),

Gene: Samaymay_84 Start: 63182, Stop: 62880, Start Num: 57
Candidate Starts for Samaymay_84:
(Start: 34 @63263 has 41 MA's), (Start: 57 @63182 has 271 MA's), (62, 63113), (67, 63065), (68, 63044), (76, 63005),

Gene: SassyCat97_82 Start: 62849, Stop: 62547, Start Num: 57
Candidate Starts for SassyCat97_82:
(Start: 34 @62930 has 41 MA's), (Start: 57 @62849 has 271 MA's), (67, 62732), (68, 62711), (76, 62672),

Gene: Schadenfreude_84 Start: 62740, Stop: 62438, Start Num: 57
Candidate Starts for Schadenfreude_84:
(Start: 34 @62821 has 41 MA's), (Start: 57 @62740 has 271 MA's), (67, 62623), (68, 62602), (76, 62563),

Gene: Schueller_82 Start: 63123, Stop: 62821, Start Num: 57
Candidate Starts for Schueller_82:
(Start: 34 @63204 has 41 MA's), (Start: 57 @63123 has 271 MA's), (62, 63054), (67, 63006), (68, 62985), (76, 62946),

Gene: Scoot17C_85 Start: 62962, Stop: 62660, Start Num: 57

Candidate Starts for Scoot17C_85:
(Start: 34 @63043 has 41 MA's), (Start: 57 @62962 has 271 MA's), (67, 62845), (68, 62824), (76, 62785),

Gene: Scrick_83 Start: 62863, Stop: 62561, Start Num: 57
Candidate Starts for Scrick_83:
(Start: 34 @62944 has 41 MA's), (Start: 57 @62863 has 271 MA's), (67, 62746), (68, 62725), (76, 62686),

Gene: Selr12_85 Start: 62905, Stop: 62603, Start Num: 57
Candidate Starts for Selr12_85:
(Start: 34 @62986 has 41 MA's), (Start: 57 @62905 has 271 MA's), (67, 62788), (68, 62767), (76, 62728),

Gene: Septica_85 Start: 63329, Stop: 63027, Start Num: 57
Candidate Starts for Septica_85:
(Start: 34 @63410 has 41 MA's), (Start: 57 @63329 has 271 MA's), (67, 63212), (68, 63191), (76, 63152),

Gene: Serendipitous_76 Start: 61875, Stop: 61468, Start Num: 57
Candidate Starts for Serendipitous_76:
(Start: 57 @61875 has 271 MA's), (69, 61734), (73, 61716), (75, 61710),

Gene: Serendipity_84 Start: 63416, Stop: 63033, Start Num: 34
Candidate Starts for Serendipity_84:
(Start: 34 @63416 has 41 MA's), (Start: 57 @63335 has 271 MA's), (67, 63218), (68, 63197), (76, 63158),

Gene: Serpentine_0085 Start: 63416, Stop: 63114, Start Num: 57
Candidate Starts for Serpentine_0085:
(Start: 34 @63497 has 41 MA's), (Start: 57 @63416 has 271 MA's), (67, 63299), (68, 63278), (76, 63239),

Gene: ShadowBud_84 Start: 63189, Stop: 62887, Start Num: 57
Candidate Starts for ShadowBud_84:
(Start: 34 @63270 has 41 MA's), (Start: 57 @63189 has 271 MA's), (67, 63072), (68, 63051), (76, 63012),

Gene: Sheila_80 Start: 62428, Stop: 62126, Start Num: 57
Candidate Starts for Sheila_80:
(Start: 34 @62509 has 41 MA's), (Start: 57 @62428 has 271 MA's), (67, 62311), (68, 62290), (76, 62251),

Gene: Shenandoah_79 Start: 60887, Stop: 60558, Start Num: 59
Candidate Starts for Shenandoah_79:
(Start: 59 @60887 has 57 MA's), (67, 60788), (68, 60767), (72, 60746),

Gene: ShiVal_82 Start: 62887, Stop: 62585, Start Num: 57
Candidate Starts for ShiVal_82:
(Start: 34 @62968 has 41 MA's), (Start: 57 @62887 has 271 MA's), (67, 62770), (68, 62749), (76, 62710),

Gene: Sigman_84 Start: 62924, Stop: 62541, Start Num: 34

Candidate Starts for Sigman_84:
(Start: 34 @62924 has 41 MA's), (Start: 57 @62843 has 271 MA's), (62, 62774), (67, 62726), (68, 62705), (76, 62666),

Gene: SilverBell_85 Start: 63378, Stop: 62995, Start Num: 34
Candidate Starts for SilverBell_85:
(Start: 34 @63378 has 41 MA's), (Start: 57 @63297 has 271 MA's), (62, 63228), (67, 63180), (68, 63159), (76, 63120),

Gene: Simielle_83 Start: 62829, Stop: 62527, Start Num: 57
Candidate Starts for Simielle_83:
(Start: 34 @62910 has 41 MA's), (Start: 57 @62829 has 271 MA's), (67, 62712), (68, 62691), (76, 62652),

Gene: SirBeauregard_85 Start: 63409, Stop: 63107, Start Num: 57
Candidate Starts for SirBeauregard_85:
(Start: 34 @63490 has 41 MA's), (Start: 57 @63409 has 271 MA's), (62, 63340), (67, 63292), (68, 63271), (76, 63232),

Gene: SirJeffery_75 Start: 61957, Stop: 61550, Start Num: 57
Candidate Starts for SirJeffery_75:
(24, 62089), (Start: 34 @62038 has 41 MA's), (Start: 50 @61975 has 1 MA's), (Start: 57 @61957 has 271 MA's), (69, 61816), (73, 61798), (75, 61792),

Gene: Skippy_85 Start: 63257, Stop: 62955, Start Num: 57
Candidate Starts for Skippy_85:
(Start: 34 @63338 has 41 MA's), (Start: 57 @63257 has 271 MA's), (67, 63140), (68, 63119), (76, 63080),

Gene: Slatt_84 Start: 63144, Stop: 62842, Start Num: 57
Candidate Starts for Slatt_84:
(Start: 34 @63225 has 41 MA's), (Start: 57 @63144 has 271 MA's), (67, 63027), (68, 63006), (76, 62967),

Gene: SlippinJimmy_83 Start: 62651, Stop: 62322, Start Num: 59
Candidate Starts for SlippinJimmy_83:
(Start: 59 @62651 has 57 MA's), (67, 62552), (68, 62531), (72, 62510),

Gene: Soile_85 Start: 63382, Stop: 63080, Start Num: 57
Candidate Starts for Soile_85:
(Start: 34 @63463 has 41 MA's), (Start: 57 @63382 has 271 MA's), (67, 63265), (68, 63244), (76, 63205),

Gene: Solosis_82 Start: 62850, Stop: 62548, Start Num: 57
Candidate Starts for Solosis_82:
(Start: 34 @62931 has 41 MA's), (Start: 57 @62850 has 271 MA's), (67, 62733), (68, 62712),

Gene: Sophia_82 Start: 62839, Stop: 62537, Start Num: 57
Candidate Starts for Sophia_82:
(Start: 34 @62920 has 41 MA's), (Start: 57 @62839 has 271 MA's), (68, 62701), (76, 62662),

Gene: Soto_81 Start: 62555, Stop: 62253, Start Num: 57
Candidate Starts for Soto_81:

(Start: 34 @62636 has 41 MA's), (Start: 57 @62555 has 271 MA's), (67, 62438), (68, 62417), (76, 62378),

Gene: Spartan300_83 Start: 63100, Stop: 62798, Start Num: 57
Candidate Starts for Spartan300_83:
(Start: 34 @63181 has 41 MA's), (Start: 57 @63100 has 271 MA's), (67, 62983), (68, 62962), (76, 62923),

Gene: Squid_83 Start: 63129, Stop: 62827, Start Num: 57
Candidate Starts for Squid_83:
(Start: 34 @63210 has 41 MA's), (Start: 57 @63129 has 271 MA's), (67, 63012), (68, 62991), (76, 62952),

Gene: Squiggle_83 Start: 62857, Stop: 62555, Start Num: 57
Candidate Starts for Squiggle_83:
(Start: 34 @62938 has 41 MA's), (Start: 57 @62857 has 271 MA's), (67, 62740), (68, 62719), (76, 62680),

Gene: Stinger_74 Start: 61821, Stop: 61435, Start Num: 57
Candidate Starts for Stinger_74:
(37, 61887), (41, 61875), (Start: 57 @61821 has 271 MA's), (64, 61743), (65, 61710), (67, 61704), (70, 61677), (73, 61662), (76, 61644), (81, 61557), (99, 61443),

Gene: StinkyVeggy_75 Start: 62138, Stop: 61818, Start Num: 57
Candidate Starts for StinkyVeggy_75:
(38, 62207), (39, 62204), (48, 62162), (Start: 57 @62138 has 271 MA's), (67, 62021), (69, 61997), (73, 61979), (75, 61973), (76, 61961), (83, 61871), (90, 61829),

Gene: Struggle_84 Start: 62955, Stop: 62653, Start Num: 57
Candidate Starts for Struggle_84:
(Start: 34 @63036 has 41 MA's), (Start: 57 @62955 has 271 MA's), (67, 62838), (68, 62817), (76, 62778),

Gene: Suffolk_81 Start: 62932, Stop: 62549, Start Num: 34
Candidate Starts for Suffolk_81:
(Start: 34 @62932 has 41 MA's), (Start: 57 @62851 has 271 MA's), (67, 62734), (68, 62713), (76, 62674),

Gene: Suigeneris_78 Start: 62476, Stop: 61988, Start Num: 34
Candidate Starts for Suigeneris_78:
(24, 62527), (Start: 34 @62476 has 41 MA's), (Start: 50 @62413 has 1 MA's), (Start: 57 @62395 has 271 MA's), (69, 62254), (73, 62236), (75, 62230),

Gene: Surely_84 Start: 63420, Stop: 63118, Start Num: 57
Candidate Starts for Surely_84:
(Start: 34 @63501 has 41 MA's), (Start: 57 @63420 has 271 MA's), (67, 63303), (68, 63282), (76, 63243),

Gene: SwainyDoc_81 Start: 61650, Stop: 61321, Start Num: 59
Candidate Starts for SwainyDoc_81:
(Start: 59 @61650 has 57 MA's), (67, 61551), (68, 61530), (72, 61509),

Gene: Swiphy_86 Start: 63405, Stop: 63103, Start Num: 57

Candidate Starts for Swiphy_86:
(Start: 34 @63486 has 41 MA's), (Start: 57 @63405 has 271 MA's), (67, 63288), (68, 63267), (76, 63228),

Gene: Swish_85 Start: 63266, Stop: 62964, Start Num: 57
Candidate Starts for Swish_85:
(Start: 34 @63347 has 41 MA's), (Start: 57 @63266 has 271 MA's), (67, 63149), (68, 63128), (76, 63089),

Gene: SynergyX_80 Start: 61278, Stop: 60949, Start Num: 59
Candidate Starts for SynergyX_80:
(Start: 59 @61278 has 57 MA's), (67, 61179), (68, 61158), (72, 61137),

Gene: TallGrassMM_83 Start: 62915, Stop: 62613, Start Num: 57
Candidate Starts for TallGrassMM_83:
(Start: 34 @62996 has 41 MA's), (Start: 57 @62915 has 271 MA's), (67, 62798), (68, 62777),

Gene: Taptic_67 Start: 49153, Stop: 49491, Start Num: 59
Candidate Starts for Taptic_67:
(37, 49072), (Start: 59 @49153 has 57 MA's), (67, 49252), (68, 49273), (74, 49303), (78, 49360), (83, 49411), (89, 49453),

Gene: Taraxa_84 Start: 62746, Stop: 62444, Start Num: 57
Candidate Starts for Taraxa_84:
(Start: 34 @62827 has 41 MA's), (Start: 57 @62746 has 271 MA's), (67, 62629), (68, 62608), (76, 62569),

Gene: Telesworld_82 Start: 62993, Stop: 62691, Start Num: 57
Candidate Starts for Telesworld_82:
(Start: 34 @63074 has 41 MA's), (Start: 57 @62993 has 271 MA's), (62, 62924), (67, 62876), (68, 62855), (76, 62816),

Gene: Thonko_87 Start: 63460, Stop: 63152, Start Num: 57
Candidate Starts for Thonko_87:
(1, 63853), (2, 63850), (5, 63805), (6, 63748), (7, 63745), (23, 63604), (26, 63583), (Start: 57 @63460 has 271 MA's), (64, 63382), (67, 63343), (68, 63322), (80, 63226), (85, 63184),

Gene: Thora_83 Start: 63370, Stop: 63068, Start Num: 57
Candidate Starts for Thora_83:
(Start: 34 @63451 has 41 MA's), (Start: 57 @63370 has 271 MA's), (67, 63253), (68, 63232), (76, 63193),

Gene: ThreeOh3D2_86 Start: 63523, Stop: 63221, Start Num: 57
Candidate Starts for ThreeOh3D2_86:
(Start: 34 @63604 has 41 MA's), (Start: 57 @63523 has 271 MA's), (67, 63406), (68, 63385), (76, 63346),

Gene: Thunderbird_84 Start: 63112, Stop: 62810, Start Num: 57
Candidate Starts for Thunderbird_84:
(Start: 34 @63193 has 41 MA's), (Start: 57 @63112 has 271 MA's), (67, 62995), (68, 62974), (76, 62935),

Gene: Timmi_83 Start: 62886, Stop: 62584, Start Num: 57

Candidate Starts for Timmi_83:
(Start: 34 @62967 has 41 MA's), (Start: 57 @62886 has 271 MA's), (67, 62769), (68, 62748), (76, 62709),

Gene: TinyTerror_81 Start: 61701, Stop: 61372, Start Num: 59
Candidate Starts for TinyTerror_81:
(Start: 59 @61701 has 57 MA's), (67, 61602), (68, 61581), (72, 61560),

Gene: TomBombadil_84 Start: 63413, Stop: 63111, Start Num: 57
Candidate Starts for TomBombadil_84:
(Start: 34 @63494 has 41 MA's), (Start: 57 @63413 has 271 MA's), (67, 63296), (68, 63275), (76, 63236),

Gene: Tomlarah_85 Start: 63720, Stop: 63418, Start Num: 57
Candidate Starts for Tomlarah_85:
(Start: 57 @63720 has 271 MA's), (62, 63651), (67, 63603), (68, 63582), (76, 63543),

Gene: Toni_84 Start: 63397, Stop: 63014, Start Num: 34
Candidate Starts for Toni_84:
(Start: 34 @63397 has 41 MA's), (Start: 57 @63316 has 271 MA's), (67, 63199), (68, 63178), (76, 63139),

Gene: TooFast2Furius_83 Start: 63277, Stop: 62975, Start Num: 57
Candidate Starts for TooFast2Furius_83:
(Start: 34 @63358 has 41 MA's), (Start: 57 @63277 has 271 MA's), (67, 63160), (68, 63139), (76, 63100),

Gene: Tooj_81 Start: 62529, Stop: 62227, Start Num: 57
Candidate Starts for Tooj_81:
(Start: 34 @62610 has 41 MA's), (Start: 57 @62529 has 271 MA's), (62, 62460), (67, 62412), (68, 62391), (76, 62352),

Gene: Triad_86 Start: 62711, Stop: 62409, Start Num: 57
Candidate Starts for Triad_86:
(Start: 34 @62792 has 41 MA's), (Start: 57 @62711 has 271 MA's), (67, 62594), (68, 62573), (76, 62534),

Gene: True_82 Start: 62862, Stop: 62560, Start Num: 57
Candidate Starts for True_82:
(Start: 34 @62943 has 41 MA's), (Start: 57 @62862 has 271 MA's), (67, 62745), (68, 62724), (76, 62685),

Gene: Trypo_85 Start: 63665, Stop: 63282, Start Num: 34
Candidate Starts for Trypo_85:
(Start: 34 @63665 has 41 MA's), (Start: 57 @63584 has 271 MA's), (67, 63467), (68, 63446), (76, 63407),

Gene: Tydolla_76 Start: 61257, Stop: 60928, Start Num: 59
Candidate Starts for Tydolla_76:
(Start: 59 @61257 has 57 MA's), (67, 61158), (68, 61137), (72, 61116),

Gene: TyrionL_84 Start: 62946, Stop: 62644, Start Num: 57
Candidate Starts for TyrionL_84:

(Start: 34 @63027 has 41 MA's), (Start: 57 @62946 has 271 MA's), (67, 62829), (68, 62808), (76, 62769),

Gene: UAch1_85 Start: 63213, Stop: 62911, Start Num: 57
Candidate Starts for UAch1_85:
(Start: 34 @63294 has 41 MA's), (Start: 57 @63213 has 271 MA's), (67, 63096), (68, 63075), (76, 63036),

Gene: UncleHowie_81 Start: 62631, Stop: 62248, Start Num: 34
Candidate Starts for UncleHowie_81:
(Start: 34 @62631 has 41 MA's), (Start: 57 @62550 has 271 MA's), (67, 62433), (68, 62412), (76, 62373),

Gene: Usavi_85 Start: 63710, Stop: 63408, Start Num: 57
Candidate Starts for Usavi_85:
(Start: 34 @63791 has 41 MA's), (Start: 57 @63710 has 271 MA's), (67, 63593), (68, 63572), (76, 63533),

Gene: Vaishali24_85 Start: 63319, Stop: 63017, Start Num: 57
Candidate Starts for Vaishali24_85:
(Start: 34 @63400 has 41 MA's), (Start: 57 @63319 has 271 MA's), (67, 63202), (68, 63181), (76, 63142),

Gene: Valjean_83 Start: 63104, Stop: 62802, Start Num: 57
Candidate Starts for Valjean_83:
(Start: 34 @63185 has 41 MA's), (Start: 57 @63104 has 271 MA's), (67, 62987), (68, 62966), (76, 62927),

Gene: Vaticameos_81 Start: 61419, Stop: 61117, Start Num: 57
Candidate Starts for Vaticameos_81:
(Start: 34 @61500 has 41 MA's), (Start: 57 @61419 has 271 MA's), (67, 61302), (68, 61281), (76, 61242),

Gene: Vectra_83 Start: 63084, Stop: 62701, Start Num: 34
Candidate Starts for Vectra_83:
(Start: 34 @63084 has 41 MA's), (Start: 57 @63003 has 271 MA's), (67, 62886), (68, 62865), (76, 62826),

Gene: Veritas_83 Start: 63027, Stop: 62725, Start Num: 57
Candidate Starts for Veritas_83:
(Start: 34 @63108 has 41 MA's), (Start: 57 @63027 has 271 MA's), (62, 62958), (67, 62910), (68, 62889), (76, 62850),

Gene: Vincenzo_78 Start: 64574, Stop: 64188, Start Num: 57
Candidate Starts for Vincenzo_78:
(37, 64640), (41, 64628), (Start: 57 @64574 has 271 MA's), (67, 64457), (70, 64430), (73, 64415), (99, 64196),

Gene: VioletZ_78 Start: 63482, Stop: 63096, Start Num: 54
Candidate Starts for VioletZ_78:
(19, 63638), (20, 63635), (37, 63542), (41, 63530), (45, 63515), (Start: 54 @63482 has 24 MA's), (64, 63404), (65, 63371), (67, 63365), (70, 63338), (73, 63323), (76, 63305), (81, 63218), (99, 63104),

Gene: Virapocalypse_85 Start: 63212, Stop: 62910, Start Num: 57
Candidate Starts for Virapocalypse_85:
(Start: 34 @63293 has 41 MA's), (Start: 57 @63212 has 271 MA's), (67, 63095), (68, 63074), (76, 63035),

Gene: Virgeve_82 Start: 62832, Stop: 62530, Start Num: 57
Candidate Starts for Virgeve_82:
(Start: 34 @62913 has 41 MA's), (Start: 57 @62832 has 271 MA's), (67, 62715), (68, 62694), (76, 62655),

Gene: Vista_83 Start: 63026, Stop: 62724, Start Num: 57
Candidate Starts for Vista_83:
(Start: 34 @63107 has 41 MA's), (Start: 57 @63026 has 271 MA's), (62, 62957), (67, 62909), (68, 62888), (76, 62849),

Gene: Vivaldi_84 Start: 63291, Stop: 62989, Start Num: 57
Candidate Starts for Vivaldi_84:
(Start: 34 @63372 has 41 MA's), (Start: 57 @63291 has 271 MA's), (62, 63222), (67, 63174), (68, 63153), (76, 63114),

Gene: Vortex_83 Start: 63213, Stop: 62830, Start Num: 34
Candidate Starts for Vortex_83:
(Start: 34 @63213 has 41 MA's), (Start: 57 @63132 has 271 MA's), (67, 63015), (68, 62994), (76, 62955),

Gene: Waleliano_74 Start: 62911, Stop: 62525, Start Num: 54
Candidate Starts for Waleliano_74:
(37, 62971), (41, 62959), (Start: 54 @62911 has 24 MA's), (64, 62833), (65, 62800), (67, 62794), (70, 62767), (73, 62752), (76, 62734), (81, 62647), (99, 62533),

Gene: Wallhey_85 Start: 63133, Stop: 62831, Start Num: 57
Candidate Starts for Wallhey_85:
(Start: 34 @63214 has 41 MA's), (Start: 57 @63133 has 271 MA's), (67, 63016), (68, 62995), (76, 62956),

Gene: Waterdiva_85 Start: 63400, Stop: 63098, Start Num: 57
Candidate Starts for Waterdiva_85:
(Start: 34 @63481 has 41 MA's), (Start: 57 @63400 has 271 MA's), (67, 63283), (68, 63262), (76, 63223),

Gene: Weher20_81 Start: 63470, Stop: 63168, Start Num: 57
Candidate Starts for Weher20_81:
(Start: 34 @63551 has 41 MA's), (Start: 57 @63470 has 271 MA's), (67, 63353), (68, 63332), (76, 63293),

Gene: Windsor_84 Start: 63415, Stop: 63113, Start Num: 57
Candidate Starts for Windsor_84:
(Start: 34 @63496 has 41 MA's), (Start: 57 @63415 has 271 MA's), (67, 63298), (68, 63277), (76, 63238),

Gene: Xavier_84 Start: 63105, Stop: 62722, Start Num: 34
Candidate Starts for Xavier_84:

(Start: 34 @63105 has 41 MA's), (Start: 57 @63024 has 271 MA's), (67, 62907), (68, 62886), (76, 62847),

Gene: Xincheng_74 Start: 64349, Stop: 63930, Start Num: 45
Candidate Starts for Xincheng_74:
(45, 64349), (Start: 54 @64316 has 24 MA's), (64, 64238), (67, 64199), (70, 64172), (73, 64157), (76, 64139), (81, 64052), (99, 63938),

Gene: Yahalom_78 Start: 61084, Stop: 60755, Start Num: 59
Candidate Starts for Yahalom_78:
(Start: 59 @61084 has 57 MA's), (67, 60985), (68, 60964), (72, 60943),

Gene: Yeshua_78 Start: 57669, Stop: 57370, Start Num: 56
Candidate Starts for Yeshua_78:
(Start: 56 @57669 has 7 MA's), (69, 57537), (73, 57519), (83, 57408),

Gene: Yinz_80 Start: 61149, Stop: 60820, Start Num: 59
Candidate Starts for Yinz_80:
(Start: 59 @61149 has 57 MA's), (67, 61050), (68, 61029), (72, 61008),

Gene: Yoshand_85 Start: 63250, Stop: 62948, Start Num: 57
Candidate Starts for Yoshand_85:
(Start: 34 @63331 has 41 MA's), (Start: 57 @63250 has 271 MA's), (67, 63133), (68, 63112), (76, 63073),

Gene: YouGoGlencoco_84 Start: 63140, Stop: 62838, Start Num: 57
Candidate Starts for YouGoGlencoco_84:
(Start: 34 @63221 has 41 MA's), (Start: 57 @63140 has 271 MA's), (67, 63023), (68, 63002), (76, 62963),

Gene: Zaider_85 Start: 63514, Stop: 63212, Start Num: 57
Candidate Starts for Zaider_85:
(Start: 34 @63595 has 41 MA's), (Start: 57 @63514 has 271 MA's), (67, 63397), (68, 63376), (76, 63337),

Gene: Zelda_84 Start: 63471, Stop: 63169, Start Num: 57
Candidate Starts for Zelda_84:
(Start: 34 @63552 has 41 MA's), (Start: 57 @63471 has 271 MA's), (67, 63354), (68, 63333), (76, 63294),

Gene: Zemanar_75 Start: 63148, Stop: 62762, Start Num: 54
Candidate Starts for Zemanar_75:
(16, 63313), (37, 63208), (41, 63196), (Start: 54 @63148 has 24 MA's), (64, 63070), (65, 63037), (67, 63031), (70, 63004), (73, 62989), (76, 62971), (81, 62884), (99, 62770),

Gene: Zenteno07_89 Start: 65034, Stop: 64624, Start Num: 58
Candidate Starts for Zenteno07_89:
(Start: 58 @65034 has 4 MA's), (67, 64917), (69, 64887), (71, 64875), (73, 64869), (82, 64764),

Gene: Zonia_85 Start: 63662, Stop: 63279, Start Num: 34
Candidate Starts for Zonia_85:
(Start: 34 @63662 has 41 MA's), (Start: 57 @63581 has 271 MA's), (67, 63464), (68, 63443), (76, 63404),