

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 311093 Report

This analysis was run 06/27/26 on database version 652.

Pham number 311093 has 411 members, 46 are drafts.

Phages represented in each track:

- Track 1 : Cosmolli16_86, HenryJackson_85, Pinkman_84, Nova1_84, Squiggle_83, AngelCake_83, YouGoGlencoco_84, Scrick_83, 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, JDog_83, Vaishali24_85, Squid_83, Khan1_84, Gareth_84, Plmatters_82, Sheila_80, Roscoe_84, Hamish_81, Karn_84, JakeO_85, Melc17_81, LostAndPhound_83, Schadenfreude_84, Vaticameos_81, Thora_83, ShadowBud_84, Freya_81, KingTut_75, Mutante_85, FremontTroll_82, LeiMonet_87, Kimbrough_85, DoIon_88, DelRivs_82, ThreeOh3D2_86, Windsor_84, Phareon_82, Serpentine_0085, Cobra_84, Maru_84, Rimu_84, PhatLouie_86, OneBrain_87, IsaacEli_86, HogWash_85, ElvisPhasley_85, Lumine_85, Oosterbaan_84, Placalicious_83, Oline_83, Chorkpop_85, Dingo_81, Slatt_84, Labeouficaum_84, Fozzie_82, Swiphy_86, Hekos_82, Roliet_81, Frankicide_83, Quisquilliae_86, Flake_83, Selr12_85, Cher_84, Buckeye_84, Adriana_84, Orwigg_83, Virapocalypse_85, Ricotta_84, Usavi_85, Pipsqueak_81, Chipette_83, Nyala_83, Horchata_81, Nathan_85, Aleia_83, KLucky39_82, Mana_82, Magic8_83, RedRaider89_83, 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, Struggle_84, NiaNia_85, OliverWalter_84, TomBombadil_84, ShiVal_82, GreenChile_83, Daffy_83, Phamished_84, Orfeu_83, Robyn_86, Soto_81, PhrodoBaggins_86, Spartan300_83, Mecca_84, Manad_83, Waterdiva_85, Fringe_88, AltPhacts_82, Grand2040_82, PallasAthena_85, TooFast2Furius_83, Bluephacebaby_83, Mesmerelda_83, ABU_83, KlimbOn_83, Piglet_0084, Morty_85, Scoot17C_85, Pacifista_83, SallyH_87, Dati_81, Gyarad_0083, Jillium_85, BoogieWoogie_83, Potter_80, Jesabah_86, ProfessorX_82, CampRoach_85, Lulwa_81, Emiris_86, Charles1_85, BlacksBerry_84, Weher20_81, SassyCat97_82, Cornbread_83, Anderson_86, Gwennie1_83, Aonishiki_84, Harvey_81, Kikipoo_86, Triad_86, Olive_82, Held_82, Childish_84, Inverness_82, RedMaple_84, Matalotodo_83, Badfish_85, Hetaeria_84, LuckyMarjie_81, Basato_83, DaddyDaniels_87, Surely_84, GeneCoco_85, Haimas_82, DirtJuice_84, Zelda_84, Burr_84, 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, BlueHusk_85, Simielle_83, Craff_86, Kloppinator_84, Jiraiya_85, Mikota_81, Brilliant_87
- Track 2 : Cornobble_82, Olak_83, OSmaximus_85, Bishoperium_84, Sophia_82, Haleema_83, Altwerkus_82, LemonSlice_84, Phunky_82, Lasso_83,

PinheadLarry_83, Prickles_85, Daka_86, Colbert_82

- Track 3 : Gwilliam_85, Toni_84, FriarPreacher_82, Suffolk_81, CheetO_81, Nacho_0087, Mosaic_82, PG1_83, Vortex_83, Orion_83, Murdoc_81, Chunky_84, Derpp_84, Pops_82, UncleHowie_81, Trypo_85, Puhltonio_81, Eremos_83, Zonia_85, Newman_82, Roy17_82, Serendipity_84, Lulumae_81, Xavier_84, LeeLot_83, Hertubise_84, Morgushi_82, Larson_86, Mesh1_85
- Track 4 : MelsMeow_83, Dione_82, Vivaldi_84, Iridoclysis_83, PhenghisKhan_84, Chute_84, Giraffe_84, Megatron_85, BatteryCK_82, Omniscient_85, Lego3393_82, Pherdinand_85, BlackStallion_83, Phleuron_82, EmpTee_83, Longacauda_85, Nicole21_85, Coletti_87, DonSanchon_80, Legolas_85, Megamind20_84, Veritas_83, FleetyMac_87, Antonia_83, LasagnaCat_85, Katniss_86, Schueller_82, Phergie_84, QueenBeane_84, FluffyNinja_85, JacAttac_84, Kwksand96_85, Mag7_82, Aelin_83, Beaglebox_81, Samaymay_84, Kwadwo_83, Tooj_81, FugateOSU_84, Chaelin_85, Keitherie_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, Chuni_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 : ChaChing_80, Athena_82, Tydolla_76, GlenHope_81, Chentzyk_82, Glubnar_81, Casbah_80, Pipefish_82, HarveySr_79, LestyG_78, Jackstina_75, Heathcliff_80, Akoma_80, Yahalom_78, Phayeta_83, MmasiCarm_81, Gadget_81, Deenasa_80, Neos5_80, Yinz_80, Audrey_80, SynergyX_80, Baloo_79, Rita1961_81, Mortcellus_80, Shenandoah_79, Kamiyu_80, Phaedrus_75, RagingRooster_79, Bernardo_81, Marlia_81, Daisy_79, TinyTerror_81, Ben11_80, Corofin_80, Marley1013_81, Phlyer_80, Philly_79, Chalmers_79, Chandler_80, SlippinJimmy_83, Nozo_80, Briakila_80, Halfpint_79, Abinghost_80, Obutu_82, Morty007_79, SwainyDoc_81, RomaT_80, Gervas_81
- Track 12 : Kronus_80
- Track 13 : StinkyVeggy_75, KarasumaRum_75
- Track 14 : Thonko_87
- Track 15 : Upyo_44
- Track 16 : Morrissey_45
- Track 17 : Gustav_45
- Track 18 : Puppies_40
- Track 19 : MossRose_77, AnarQue_79, Yeshua_78, CaiB_78, MakoManhole_74
- Track 20 : FelixTres_78
- Track 21 : BobRoss2024_79
- Track 22 : AksarBAT_78
- Track 23 : CloverMinnie_76
- Track 24 : Talia1610_198, Bloom_201, Racecar_198, Mimi_197, FrostedClock_200
- Track 25 : GoldenEssence_185, FloraSnap32_196, Patbob_195, Phrampa_190
- Track 26 : DunneganBoMo_189, Emmetator_192, BooTeria_197
- Track 27 : Ellewin_188
- Track 28 : LeoJr_199, ReginaGlobina_203
- Track 29 : WaddleDee_185
- Track 30 : BigNuz_62, Nazo_63
- Track 31 : Parvaparticeps_13
- Track 32 : Laure_199

- Track 33 : Taptic_67
- Track 34 : Cepens_66, Megabear_66
- Track 35 : GodPhather_69
- Track 36 : PR_67, D12_66
- Track 37 : Argie_71
- Track 38 : phiAsp2_75
- Track 39 : TPA2_75
- Track 40 : Kumao_87
- Track 41 : Magritte_241

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

The start number called the most often in the published annotations is 46, it was called in 251 of the 365 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- ABU_83, AbsoluteMadLad_83, Adriana_84, Aelin_83, Aleia_83, AltPhacts_82, Altwerkus_82, Anderson_86, Andre_86, AngelCake_83, Antonia_83, Aonishiki_84, Ashraf_85, Badfish_85, Banjo_81, Basato_83, BatteryCK_82, Beaglebox_81, Bishoperium_84, BlackStallion_83, BlacksBerry_84, BlueHusk_85, Bluephacebaby_83, Boehler_83, BoogieWoogie_83, 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_83, Chorkpop_85, Chuni_85, Chute_84, Cobra_84, Colbert_82, Coletti_87, Cornbread_83, Cornobble_82, Cosmolli16_86, Craff_86, DaddyDaniels_87, Daffy_83, Daka_86, Dati_81, DelRivs_82, Dice_83, 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_87, FluffyNinja_85, Fozzie_82, Frankicide_83, FremontTroll_82, 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, Jesabah_86, Jillium_85, Jiminy_84, Jiraiya_85, KLucky39_82, Kahve_85, Kailash_82, KarasumaRum_75, Karn_84, Katniss_86, Keitherie_87, Khan1_84, Kikipoo_86, Kimbrough_85, KingTut_75, KingVeVeVe_82, KlimbOn_83, Kloppinator_84, Kwadwo_83, Kwksand96_85, Labeouficaum_84, LasagnaCat_85, Lasso_83, Lego3393_82, Legolas_85, Lehmann_87, LeiMonet_87, LemonSlice_84, 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, Nathan_85, NiaNia_85, Nicole21_85, 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, 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, Ricotta_84, Riggan_85, Rimu_84, Riverton_83, Robyn_86, Roliet_81, Roscoe_84, SDcharge11_83, SallyH_87, Samaymay_84, SassyCat97_82, Schadenfreude_84, Schueller_82, Scoot17C_85, Scrick_83, Selr12_85, Serpentine_0085, ShadowBud_84, Sheila_80, ShiVal_82, Simielle_83, SirBeauregard_85, Skippy_85, Slatt_84, Soile_85, Solosis_82, Sophia_82, Soto_81, Spartan300_83, Squid_83, Squiggle_83, 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, 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:

- Apizium_83, CheetO_81, Chunky_84, Derpp_84, Doddsville_82, DuchessDung_82, 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, Roy17_82, Serendipity_84, Sigman_84, SilverBell_85, Suffolk_81, Toni_84, Trypo_85, UncleHowie_81, Vortex_83, Xavier_84, Zonia_85,

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

- Abinghost_80, Akoma_80, AksarBAT_78, AnarQue_79, Argie_71, Athena_82, Audrey_80, Baloo_79, Ben11_80, Bernardo_81, BigNuz_62, Bloom_201, BobRoss2024_79, BooTeria_197, Briakila_80, CaiB_78, Casbah_80, Cepens_66, ChaChing_80, Chalmers_79, Chandler_80, Chentzyk_82, CloverMinnie_76, Corofin_80, D12_66, Daisy_79, Deenasa_80, DunneganBoMo_189, Ellewin_188, Emmetator_192, FelixTres_78, FloraSnap32_196, FrostedClock_200, Gadget_81, Gervas_81, GlenHope_81, Glubnar_81, GodPhather_69, GoldenEssence_185, Gustav_45, Halfpint_79, HarveySr_79, Heathcliff_80, Jackstina_75, Kamiyu_80, Kronus_80, Kumao_87, Laure_199, LeoJr_199, LestyG_78, Magritte_241, MakoManhole_74, Marley1013_81, Marlia_81, Megabear_66, Mimi_197, MmasiCarm_81, Morrissey_45, Mortcellus_80, Morty007_79, MossRose_77, Nazo_63, Neos5_80, Nozo_80, Obutu_82, PR_67, Parvapaticeps_13, Patbob_195, Phaedrus_75, Phayeta_83, Philly_79, Phlyer_80, Phrampa_190, Pipefish_82, Puppies_40, Racecar_198, RagingRooster_79, ReginaGlobina_203, Rita1961_81, RomaT_80, Shenandoah_79, SlippinJimmy_83, SwainyDoc_81, SynergyX_80, TPA2_75, Talia1610_198, Taptic_67, TinyTerror_81, Tydolla_76, Upyo_44, WaddleDee_185, Yahalom_78, Yeshua_78, Yinz_80, phiAsp2_75,

Summary by start number:

Start 21:

- Found in 2 of 411 (0.5%) of genes in pham
- Manual Annotations of this start: 2 of 365
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BigNuz_62 (P4), Nazo_63 (P4),

Start 22:

- Found in 1 of 411 (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: phiAsp2_75 (singleton),

Start 23:

- Found in 312 of 411 (75.9%) of genes in pham
- Manual Annotations of this start: 34 of 365
- Called 11.9% of time when present
- Phage (with cluster) where this start called: CheetO_81 (B1), Chunky_84 (B1), Derpp_84 (B1), Doddsville_82 (B1), DuchessDung_82 (B1), 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), Roy17_82 (B1), Serendipity_84 (B1), Sigman_84 (B1), SilverBell_85 (B1), Suffolk_81 (B1), Toni_84 (B1), Trypo_85 (B1), UncleHowie_81 (B1), Vortex_83 (B1), Xavier_84 (B1), Zonia_85 (B1),

Start 33:

- Found in 7 of 411 (1.7%) of genes in pham
- Manual Annotations of this start: 3 of 365
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BooTeria_197 (FC), DunneganBoMo_189 (FC), Ellewin_188 (FC), Emmetator_192 (FC), LeoJr_199 (FC), ReginaGlobina_203 (FC), WaddleDee_185 (FC),

Start 40:

- Found in 1 of 411 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 365
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Apizium_83 (B1),

Start 41:

- Found in 1 of 411 (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 42:

- Found in 5 of 411 (1.2%) of genes in pham
- Manual Annotations of this start: 3 of 365
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BobRoss2024_79 (DR), Gustav_45 (CD), Morrissey_45 (CD), Puppies_40 (CD), TPA2_75 (singleton),

Start 43:

- Found in 1 of 411 (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: Parvaparticeps_13 (UNK),

Start 44:

- Found in 7 of 411 (1.7%) of genes in pham
- Manual Annotations of this start: 7 of 365
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AnarQue_79 (DR), CaiB_78 (DR), CloverMinnie_76 (DR), FelixTres_78 (DR), MakoManhole_74 (DR), MossRose_77 (DR), Yeshua_78 (DR),

Start 45:

- Found in 10 of 411 (2.4%) of genes in pham
- Manual Annotations of this start: 7 of 365
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bloom_201 (FC), FloraSnap32_196 (FC), FrostedClock_200 (FC), GoldenEssence_185 (FC), Magritte_241 (singleton), Mimi_197 (FC), Patbob_195 (FC), Phrampa_190 (FC), Racecar_198 (FC), Talia1610_198 (FC),

Start 46:

- Found in 316 of 411 (76.9%) of genes in pham
- Manual Annotations of this start: 251 of 365
- Called 88.0% of time when present
- Phage (with cluster) where this start called: ABU_83 (B1), AbsoluteMadLad_83 (B1), Adriana_84 (B1), Aelin_83 (B1), 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), Badfish_85 (B1), Banjo_81 (B1), Basato_83 (B1), BatteryCK_82 (B1), Beaglebox_81 (B1), Bishoperium_84 (B1), BlackStallion_83 (B1), BlacksBerry_84 (B1), BlueHusk_85 (B1), Bluephacebaby_83 (B1), Boehler_83 (B1), BoogieWoogie_83 (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_83 (B1), Chorkpop_85 (B1), Chuni_85 (B1), Chute_84 (B1), Cobra_84 (B1), Colbert_82 (B1), Coletti_87 (B1), 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), Dingo_81 (B1), Dione_82 (B1), DirtJuice_84 (B1), DoesntMatter_81 (B1), DoIOn_88 (B1), DonSancho_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_87 (B1), FluffyNinja_85 (B1), Fozzie_82 (B1), Frankicide_83 (B1), FremontTroll_82 (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), 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_84 (B1), Kikipoo_86 (B1), Kimbrough_85 (B1), KingTut_75 (B1), KingVeVeVe_82 (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), 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), Nathan_85 (B1), NiaNia_85 (B1), Nicole21_85 (B1), 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), 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), Ricotta_84 (B1), Riggan_85 (B1), Rimu_84 (B1), Riverton_83 (B1), Robyn_86 (B1), Roliet_81 (B1), Roscoe_84 (B1), SDcharge11_83 (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), Serpentine_0085 (B1), ShadowBud_84 (B1), Sheila_80 (B1), ShiVal_82 (B1), Simielle_83 (B1), SirBeauregard_85 (B1), 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), 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), Tomlahrah_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), 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 47:

- Found in 1 of 411 (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: Laure_199 (UNK),

Start 48:

- Found in 1 of 411 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 365
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kumao_87 (singleton),

Start 49:

- Found in 4 of 411 (1.0%) of genes in pham
- Manual Annotations of this start: 1 of 365
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Upyo_44 (CD),

Start 50:

- Found in 58 of 411 (14.1%) of genes in pham
- Manual Annotations of this start: 55 of 365
- 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), Gadget_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), Neos5_80 (B3), Nozo_80 (B3), Obutu_82 (B3), PR_67 (W), Phaedruss_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),

Summary by clusters:

There are 11 clusters represented in this pham: singleton, P4, B8, CD, B5, FC, B1, W, B3, UNK, DR,

Info for manual annotations of cluster B1:

- Start number 23 was manually annotated 34 times for cluster B1.
- Start number 40 was manually annotated 1 time for cluster B1.
- Start number 46 was manually annotated 250 times for cluster B1.

Info for manual annotations of cluster B3:

- Start number 50 was manually annotated 48 times for cluster B3.

Info for manual annotations of cluster B8:

- Start number 46 was manually annotated 1 time for cluster B8.

Info for manual annotations of cluster CD:

- Start number 42 was manually annotated 3 times for cluster CD.
- Start number 49 was manually annotated 1 time for cluster CD.

Info for manual annotations of cluster DR:

- Start number 44 was manually annotated 7 times for cluster DR.

Info for manual annotations of cluster FC:

- Start number 33 was manually annotated 3 times for cluster FC.
- Start number 45 was manually annotated 6 times for cluster FC.

Info for manual annotations of cluster P4:

- Start number 21 was manually annotated 2 times for cluster P4.

Info for manual annotations of cluster W:

- Start number 50 was manually annotated 7 times for cluster W.

Gene Information:

Gene: ABU_83 Start: 63381, Stop: 63079, Start Num: 46

Candidate Starts for ABU_83:

(Start: 23 @63462 has 34 MA's), (Start: 46 @63381 has 251 MA's), (60, 63264), (63, 63243), (74, 63204),

Gene: Abinghost_80 Start: 61235, Stop: 60906, Start Num: 50

Candidate Starts for Abinghost_80:

(Start: 50 @61235 has 55 MA's), (60, 61136), (63, 61115), (69, 61094),

Gene: AbsoluteMadLad_83 Start: 63335, Stop: 63033, Start Num: 46

Candidate Starts for AbsoluteMadLad_83:

(Start: 23 @63416 has 34 MA's), (Start: 46 @63335 has 251 MA's), (60, 63218), (63, 63197), (74, 63158),

Gene: Adriana_84 Start: 63897, Stop: 63595, Start Num: 46

Candidate Starts for Adriana_84:

(Start: 23 @63978 has 34 MA's), (Start: 46 @63897 has 251 MA's), (60, 63780), (63, 63759), (74, 63720),

Gene: Aelin_83 Start: 62839, Stop: 62537, Start Num: 46

Candidate Starts for Aelin_83:

(Start: 23 @62920 has 34 MA's), (Start: 46 @62839 has 251 MA's), (56, 62770), (60, 62722), (63, 62701), (74, 62662),

Gene: Akoma_80 Start: 61275, Stop: 60946, Start Num: 50

Candidate Starts for Akoma_80:

(Start: 50 @61275 has 55 MA's), (60, 61176), (63, 61155), (69, 61134),

Gene: AksarBAT_78 Start: 57238, Stop: 56921, Start Num: 41

Candidate Starts for AksarBAT_78:

(11, 57388), (17, 57340), (20, 57319), (41, 57238), (59, 57127), (65, 57097), (70, 57082), (74, 57061),

Gene: Aleia_83 Start: 63024, Stop: 62722, Start Num: 46

Candidate Starts for Aleia_83:

(Start: 23 @63105 has 34 MA's), (Start: 46 @63024 has 251 MA's), (60, 62907), (63, 62886), (74, 62847),

Gene: AltPhacts_82 Start: 62600, Stop: 62298, Start Num: 46

Candidate Starts for AltPhacts_82:

(Start: 23 @62681 has 34 MA's), (Start: 46 @62600 has 251 MA's), (60, 62483), (63, 62462), (74, 62423),

Gene: Altwerkus_82 Start: 62711, Stop: 62409, Start Num: 46

Candidate Starts for Altwerkus_82:

(Start: 23 @62792 has 34 MA's), (Start: 46 @62711 has 251 MA's), (63, 62573), (74, 62534),

Gene: AnarQue_79 Start: 58361, Stop: 58062, Start Num: 44

Candidate Starts for AnarQue_79:

(Start: 44 @58361 has 7 MA's), (64, 58229), (70, 58211), (82, 58100),

Gene: Anderson_86 Start: 63257, Stop: 62955, Start Num: 46

Candidate Starts for Anderson_86:

(Start: 23 @63338 has 34 MA's), (Start: 46 @63257 has 251 MA's), (60, 63140), (63, 63119), (74, 63080),

Gene: Andre_86 Start: 63279, Stop: 62977, Start Num: 46

Candidate Starts for Andre_86:

(Start: 23 @63360 has 34 MA's), (Start: 46 @63279 has 251 MA's), (60, 63162), (63, 63141), (74, 63102),

Gene: AngelCake_83 Start: 63006, Stop: 62704, Start Num: 46

Candidate Starts for AngelCake_83:

(Start: 23 @63087 has 34 MA's), (Start: 46 @63006 has 251 MA's), (60, 62889), (63, 62868), (74, 62829),

Gene: Antonia_83 Start: 62883, Stop: 62581, Start Num: 46

Candidate Starts for Antonia_83:

(Start: 23 @62964 has 34 MA's), (Start: 46 @62883 has 251 MA's), (56, 62814), (60, 62766), (63, 62745), (74, 62706),

Gene: Aonishiki_84 Start: 63192, Stop: 62890, Start Num: 46

Candidate Starts for Aonishiki_84:

(Start: 23 @63273 has 34 MA's), (Start: 46 @63192 has 251 MA's), (60, 63075), (63, 63054), (74, 63015),

Gene: Apizium_83 Start: 62557, Stop: 62237, Start Num: 40

Candidate Starts for Apizium_83:

(Start: 23 @62620 has 34 MA's), (Start: 40 @62557 has 1 MA's), (Start: 46 @62539 has 251 MA's), (56, 62470), (60, 62422), (63, 62401), (74, 62362),

Gene: Argie_71 Start: 51295, Stop: 51594, Start Num: 50

Candidate Starts for Argie_71:

(26, 51214), (Start: 50 @51295 has 55 MA's), (60, 51394), (63, 51415), (72, 51445), (76, 51502), (82, 51553), (90, 51583),

Gene: Ashraf_85 Start: 63370, Stop: 63068, Start Num: 46

Candidate Starts for Ashraf_85:

(Start: 23 @63451 has 34 MA's), (Start: 46 @63370 has 251 MA's), (56, 63301), (60, 63253), (63, 63232), (74, 63193),

Gene: Athena_82 Start: 62010, Stop: 61681, Start Num: 50

Candidate Starts for Athena_82:

(Start: 50 @62010 has 55 MA's), (60, 61911), (63, 61890), (69, 61869),

Gene: Audrey_80 Start: 61264, Stop: 60935, Start Num: 50

Candidate Starts for Audrey_80:

(Start: 50 @61264 has 55 MA's), (60, 61165), (63, 61144), (69, 61123),

Gene: Badfish_85 Start: 63561, Stop: 63259, Start Num: 46

Candidate Starts for Badfish_85:

(Start: 23 @63642 has 34 MA's), (Start: 46 @63561 has 251 MA's), (60, 63444), (63, 63423), (74, 63384),

Gene: Baloo_79 Start: 61116, Stop: 60787, Start Num: 50

Candidate Starts for Baloo_79:

(Start: 50 @61116 has 55 MA's), (60, 61017), (63, 60996), (69, 60975),

Gene: Banjo_81 Start: 62827, Stop: 62525, Start Num: 46

Candidate Starts for Banjo_81:

(Start: 23 @62908 has 34 MA's), (Start: 46 @62827 has 251 MA's), (56, 62758), (60, 62710), (63, 62689), (74, 62650),

Gene: Basato_83 Start: 63292, Stop: 62990, Start Num: 46

Candidate Starts for Basato_83:

(Start: 23 @63373 has 34 MA's), (Start: 46 @63292 has 251 MA's), (60, 63175), (63, 63154), (74, 63115),

Gene: BatteryCK_82 Start: 62818, Stop: 62516, Start Num: 46

Candidate Starts for BatteryCK_82:

(Start: 23 @62899 has 34 MA's), (Start: 46 @62818 has 251 MA's), (56, 62749), (60, 62701), (63, 62680), (74, 62641),

Gene: Beaglebox_81 Start: 62950, Stop: 62648, Start Num: 46

Candidate Starts for Beaglebox_81:

(Start: 23 @63031 has 34 MA's), (Start: 46 @62950 has 251 MA's), (56, 62881), (60, 62833), (63, 62812), (74, 62773),

Gene: Ben11_80 Start: 61491, Stop: 61162, Start Num: 50

Candidate Starts for Ben11_80:

(Start: 50 @61491 has 55 MA's), (60, 61392), (63, 61371), (69, 61350),

Gene: Bernardo_81 Start: 61454, Stop: 61125, Start Num: 50

Candidate Starts for Bernardo_81:

(Start: 50 @61454 has 55 MA's), (60, 61355), (63, 61334), (69, 61313),

Gene: BigNuz_62 Start: 41053, Stop: 41442, Start Num: 21

Candidate Starts for BigNuz_62:

(Start: 21 @41053 has 2 MA's), (34, 41095), (Start: 49 @41143 has 1 MA's), (52, 41167), (80, 41371), (91, 41434),

Gene: Bishoperium_84 Start: 63397, Stop: 63095, Start Num: 46

Candidate Starts for Bishoperium_84:

(Start: 23 @63478 has 34 MA's), (Start: 46 @63397 has 251 MA's), (63, 63259), (74, 63220),

Gene: BlackStallion_83 Start: 63247, Stop: 62945, Start Num: 46

Candidate Starts for BlackStallion_83:

(Start: 23 @63328 has 34 MA's), (Start: 46 @63247 has 251 MA's), (56, 63178), (60, 63130), (63, 63109), (74, 63070),

Gene: BlacksBerry_84 Start: 62772, Stop: 62470, Start Num: 46

Candidate Starts for BlacksBerry_84:

(Start: 23 @62853 has 34 MA's), (Start: 46 @62772 has 251 MA's), (60, 62655), (63, 62634), (74, 62595),

Gene: Bloom_201 Start: 137606, Stop: 137896, Start Num: 45
Candidate Starts for Bloom_201:
(35, 137570), (Start: 45 @137606 has 7 MA's), (62, 137723), (77, 137825),

Gene: BlueHusk_85 Start: 63070, Stop: 62768, Start Num: 46
Candidate Starts for BlueHusk_85:
(Start: 23 @63151 has 34 MA's), (Start: 46 @63070 has 251 MA's), (60, 62953), (63, 62932), (74, 62893),

Gene: Bluephacebaby_83 Start: 63430, Stop: 63128, Start Num: 46
Candidate Starts for Bluephacebaby_83:
(Start: 23 @63511 has 34 MA's), (Start: 46 @63430 has 251 MA's), (60, 63313), (63, 63292), (74, 63253),

Gene: BobRoss2024_79 Start: 57680, Stop: 57384, Start Num: 42
Candidate Starts for BobRoss2024_79:
(Start: 42 @57680 has 3 MA's), (70, 57527), (78, 57452),

Gene: Boehler_83 Start: 63221, Stop: 62919, Start Num: 46
Candidate Starts for Boehler_83:
(Start: 23 @63302 has 34 MA's), (Start: 46 @63221 has 251 MA's), (60, 63104), (63, 63083), (74, 63044),

Gene: BooTeria_197 Start: 141572, Stop: 141916, Start Num: 33
Candidate Starts for BooTeria_197:
(Start: 33 @141572 has 3 MA's), (84, 141878),

Gene: BoogieWoogie_83 Start: 62842, Stop: 62540, Start Num: 46
Candidate Starts for BoogieWoogie_83:
(Start: 23 @62923 has 34 MA's), (Start: 46 @62842 has 251 MA's), (60, 62725), (63, 62704), (74, 62665),

Gene: Briakila_80 Start: 61462, Stop: 61133, Start Num: 50
Candidate Starts for Briakila_80:
(Start: 50 @61462 has 55 MA's), (60, 61363), (63, 61342), (69, 61321),

Gene: Brilliant_87 Start: 63410, Stop: 63108, Start Num: 46
Candidate Starts for Brilliant_87:
(Start: 23 @63491 has 34 MA's), (Start: 46 @63410 has 251 MA's), (60, 63293), (63, 63272), (74, 63233),

Gene: Buckeye_84 Start: 63948, Stop: 63646, Start Num: 46
Candidate Starts for Buckeye_84:
(Start: 23 @64029 has 34 MA's), (Start: 46 @63948 has 251 MA's), (60, 63831), (63, 63810), (74, 63771),

Gene: Burr_84 Start: 62882, Stop: 62580, Start Num: 46
Candidate Starts for Burr_84:
(Start: 23 @62963 has 34 MA's), (Start: 46 @62882 has 251 MA's), (60, 62765), (63, 62744), (74, 62705),

Gene: CaiB_78 Start: 58156, Stop: 57857, Start Num: 44

Candidate Starts for CaiB_78:

(Start: 44 @58156 has 7 MA's), (64, 58024), (70, 58006), (82, 57895),

Gene: CamL_84 Start: 63182, Stop: 62880, Start Num: 46

Candidate Starts for CamL_84:

(Start: 23 @63263 has 34 MA's), (Start: 46 @63182 has 251 MA's), (56, 63113), (60, 63065), (63, 63044), (74, 63005),

Gene: CampRoach_85 Start: 63278, Stop: 62976, Start Num: 46

Candidate Starts for CampRoach_85:

(Start: 23 @63359 has 34 MA's), (Start: 46 @63278 has 251 MA's), (60, 63161), (63, 63140), (74, 63101),

Gene: Cannibal_85 Start: 63284, Stop: 62982, Start Num: 46

Candidate Starts for Cannibal_85:

(Start: 23 @63365 has 34 MA's), (Start: 46 @63284 has 251 MA's), (60, 63167), (63, 63146), (74, 63107),

Gene: Carthage_85 Start: 62952, Stop: 62650, Start Num: 46

Candidate Starts for Carthage_85:

(Start: 23 @63033 has 34 MA's), (Start: 46 @62952 has 251 MA's), (60, 62835), (63, 62814), (74, 62775),

Gene: Casbah_80 Start: 61575, Stop: 61246, Start Num: 50

Candidate Starts for Casbah_80:

(Start: 50 @61575 has 55 MA's), (60, 61476), (63, 61455), (69, 61434),

Gene: Caspiboi_83 Start: 63117, Stop: 62815, Start Num: 46

Candidate Starts for Caspiboi_83:

(Start: 23 @63198 has 34 MA's), (Start: 46 @63117 has 251 MA's), (60, 63000), (63, 62979),

Gene: Cepens_66 Start: 49145, Stop: 49444, Start Num: 50

Candidate Starts for Cepens_66:

(Start: 50 @49145 has 55 MA's), (60, 49244), (63, 49265), (72, 49295), (76, 49352), (82, 49403), (90, 49433),

Gene: ChaChing_80 Start: 61280, Stop: 60951, Start Num: 50

Candidate Starts for ChaChing_80:

(Start: 50 @61280 has 55 MA's), (60, 61181), (63, 61160), (69, 61139),

Gene: Chaelin_85 Start: 63412, Stop: 63110, Start Num: 46

Candidate Starts for Chaelin_85:

(Start: 23 @63493 has 34 MA's), (Start: 46 @63412 has 251 MA's), (56, 63343), (60, 63295), (63, 63274), (74, 63235),

Gene: Chalmers_79 Start: 61710, Stop: 61381, Start Num: 50

Candidate Starts for Chalmers_79:

(Start: 50 @61710 has 55 MA's), (60, 61611), (63, 61590), (69, 61569),

Gene: Chandler_80 Start: 62051, Stop: 61722, Start Num: 50

Candidate Starts for Chandler_80:

(Start: 50 @62051 has 55 MA's), (60, 61952), (63, 61931), (69, 61910),

Gene: Charles1_85 Start: 63190, Stop: 62888, Start Num: 46

Candidate Starts for Charles1_85:

(Start: 23 @63271 has 34 MA's), (Start: 46 @63190 has 251 MA's), (60, 63073), (63, 63052), (74, 63013),

Gene: CharlieGBrown_82 Start: 62913, Stop: 62611, Start Num: 46

Candidate Starts for CharlieGBrown_82:

(Start: 23 @62994 has 34 MA's), (Start: 46 @62913 has 251 MA's), (56, 62844), (60, 62796), (63, 62775), (74, 62736),

Gene: CheetO_81 Start: 63368, Stop: 62985, Start Num: 23

Candidate Starts for CheetO_81:

(Start: 23 @63368 has 34 MA's), (Start: 46 @63287 has 251 MA's), (60, 63170), (63, 63149), (74, 63110),

Gene: Chentzyk_82 Start: 62218, Stop: 61889, Start Num: 50

Candidate Starts for Chentzyk_82:

(Start: 50 @62218 has 55 MA's), (60, 62119), (63, 62098), (69, 62077),

Gene: Cher_84 Start: 63384, Stop: 63082, Start Num: 46

Candidate Starts for Cher_84:

(Start: 23 @63465 has 34 MA's), (Start: 46 @63384 has 251 MA's), (60, 63267), (63, 63246), (74, 63207),

Gene: Childish_84 Start: 63575, Stop: 63273, Start Num: 46

Candidate Starts for Childish_84:

(Start: 23 @63656 has 34 MA's), (Start: 46 @63575 has 251 MA's), (60, 63458), (63, 63437), (74, 63398),

Gene: Chipette_83 Start: 63112, Stop: 62810, Start Num: 46

Candidate Starts for Chipette_83:

(Start: 23 @63193 has 34 MA's), (Start: 46 @63112 has 251 MA's), (60, 62995), (63, 62974), (74, 62935),

Gene: Chorkpop_85 Start: 63038, Stop: 62736, Start Num: 46

Candidate Starts for Chorkpop_85:

(Start: 23 @63119 has 34 MA's), (Start: 46 @63038 has 251 MA's), (60, 62921), (63, 62900), (74, 62861),

Gene: Chuni_85 Start: 63624, Stop: 63322, Start Num: 46

Candidate Starts for Chuni_85:

(Start: 23 @63705 has 34 MA's), (Start: 46 @63624 has 251 MA's), (56, 63555), (60, 63507), (63, 63486), (74, 63447),

Gene: Chunky_84 Start: 62964, Stop: 62581, Start Num: 23

Candidate Starts for Chunky_84:

(Start: 23 @62964 has 34 MA's), (Start: 46 @62883 has 251 MA's), (60, 62766), (63, 62745), (74, 62706),

Gene: Chute_84 Start: 63577, Stop: 63275, Start Num: 46

Candidate Starts for Chute_84:

(Start: 23 @63658 has 34 MA's), (Start: 46 @63577 has 251 MA's), (56, 63508), (60, 63460), (63, 63439), (74, 63400),

Gene: CloverMinnie_76 Start: 57325, Stop: 57026, Start Num: 44
Candidate Starts for CloverMinnie_76:
(Start: 44 @57325 has 7 MA's), (57, 57247), (64, 57193), (70, 57175), (82, 57064),

Gene: Cobra_84 Start: 63408, Stop: 63106, Start Num: 46
Candidate Starts for Cobra_84:
(Start: 23 @63489 has 34 MA's), (Start: 46 @63408 has 251 MA's), (60, 63291), (63, 63270), (74, 63231),

Gene: Colbert_82 Start: 62306, Stop: 62004, Start Num: 46
Candidate Starts for Colbert_82:
(Start: 23 @62387 has 34 MA's), (Start: 46 @62306 has 251 MA's), (63, 62168), (74, 62129),

Gene: Coletti_87 Start: 63933, Stop: 63631, Start Num: 46
Candidate Starts for Coletti_87:
(Start: 23 @64014 has 34 MA's), (Start: 46 @63933 has 251 MA's), (56, 63864), (60, 63816), (63, 63795), (74, 63756),

Gene: Cornbread_83 Start: 63065, Stop: 62763, Start Num: 46
Candidate Starts for Cornbread_83:
(Start: 23 @63146 has 34 MA's), (Start: 46 @63065 has 251 MA's), (60, 62948), (63, 62927), (74, 62888),

Gene: Cornobble_82 Start: 62876, Stop: 62574, Start Num: 46
Candidate Starts for Cornobble_82:
(Start: 23 @62957 has 34 MA's), (Start: 46 @62876 has 251 MA's), (63, 62738), (74, 62699),

Gene: Corofin_80 Start: 61286, Stop: 60957, Start Num: 50
Candidate Starts for Corofin_80:
(Start: 50 @61286 has 55 MA's), (60, 61187), (63, 61166), (69, 61145),

Gene: Cosmolli16_86 Start: 63753, Stop: 63451, Start Num: 46
Candidate Starts for Cosmolli16_86:
(Start: 23 @63834 has 34 MA's), (Start: 46 @63753 has 251 MA's), (60, 63636), (63, 63615), (74, 63576),

Gene: Craff_86 Start: 63796, Stop: 63494, Start Num: 46
Candidate Starts for Craff_86:
(Start: 23 @63877 has 34 MA's), (Start: 46 @63796 has 251 MA's), (60, 63679), (63, 63658), (74, 63619),

Gene: D12_66 Start: 49780, Stop: 50079, Start Num: 50
Candidate Starts for D12_66:
(Start: 50 @49780 has 55 MA's), (60, 49879), (63, 49900), (72, 49930), (76, 49987), (82, 50038), (90, 50068),

Gene: DaddyDaniels_87 Start: 63529, Stop: 63227, Start Num: 46
Candidate Starts for DaddyDaniels_87:
(Start: 23 @63610 has 34 MA's), (Start: 46 @63529 has 251 MA's), (60, 63412), (63, 63391), (74, 63352),

Gene: Daffy_83 Start: 63023, Stop: 62721, Start Num: 46

Candidate Starts for Daffy_83:

(Start: 23 @63104 has 34 MA's), (Start: 46 @63023 has 251 MA's), (60, 62906), (63, 62885), (74, 62846),

Gene: Daisy_79 Start: 60837, Stop: 60508, Start Num: 50

Candidate Starts for Daisy_79:

(Start: 50 @60837 has 55 MA's), (60, 60738), (63, 60717), (69, 60696),

Gene: Daka_86 Start: 63229, Stop: 62927, Start Num: 46

Candidate Starts for Daka_86:

(Start: 23 @63310 has 34 MA's), (Start: 46 @63229 has 251 MA's), (63, 63091), (74, 63052),

Gene: Dati_81 Start: 63207, Stop: 62905, Start Num: 46

Candidate Starts for Dati_81:

(Start: 23 @63288 has 34 MA's), (Start: 46 @63207 has 251 MA's), (60, 63090), (63, 63069), (74, 63030),

Gene: Deenasa_80 Start: 62186, Stop: 61857, Start Num: 50

Candidate Starts for Deenasa_80:

(Start: 50 @62186 has 55 MA's), (60, 62087), (63, 62066), (69, 62045),

Gene: DelRivs_82 Start: 62836, Stop: 62534, Start Num: 46

Candidate Starts for DelRivs_82:

(Start: 23 @62917 has 34 MA's), (Start: 46 @62836 has 251 MA's), (60, 62719), (63, 62698), (74, 62659),

Gene: Derpp_84 Start: 63027, Stop: 62644, Start Num: 23

Candidate Starts for Derpp_84:

(Start: 23 @63027 has 34 MA's), (Start: 46 @62946 has 251 MA's), (60, 62829), (63, 62808), (74, 62769),

Gene: Dice_83 Start: 62868, Stop: 62566, Start Num: 46

Candidate Starts for Dice_83:

(Start: 23 @62949 has 34 MA's), (Start: 46 @62868 has 251 MA's), (60, 62751), (63, 62730), (74, 62691),

Gene: Dingo_81 Start: 62589, Stop: 62287, Start Num: 46

Candidate Starts for Dingo_81:

(Start: 23 @62670 has 34 MA's), (Start: 46 @62589 has 251 MA's), (60, 62472), (63, 62451), (74, 62412),

Gene: Dione_82 Start: 62588, Stop: 62286, Start Num: 46

Candidate Starts for Dione_82:

(Start: 23 @62669 has 34 MA's), (Start: 46 @62588 has 251 MA's), (56, 62519), (60, 62471), (63, 62450), (74, 62411),

Gene: DirtJuice_84 Start: 63328, Stop: 63026, Start Num: 46

Candidate Starts for DirtJuice_84:

(Start: 23 @63409 has 34 MA's), (Start: 46 @63328 has 251 MA's), (60, 63211), (63, 63190), (74, 63151),

Gene: Doddsville_82 Start: 63109, Stop: 62726, Start Num: 23

Candidate Starts for Doddsville_82:

(Start: 23 @63109 has 34 MA's), (Start: 46 @63028 has 251 MA's), (56, 62959), (60, 62911), (63, 62890), (74, 62851),

Gene: DoesntMatter_81 Start: 62864, Stop: 62562, Start Num: 46

Candidate Starts for DoesntMatter_81:

(Start: 23 @62945 has 34 MA's), (Start: 46 @62864 has 251 MA's), (60, 62747), (63, 62726), (74, 62687),

Gene: DoIOn_88 Start: 64314, Stop: 64012, Start Num: 46

Candidate Starts for DoIOn_88:

(Start: 23 @64395 has 34 MA's), (Start: 46 @64314 has 251 MA's), (60, 64197), (63, 64176), (74, 64137),

Gene: DonSanchon_80 Start: 62546, Stop: 62244, Start Num: 46

Candidate Starts for DonSanchon_80:

(Start: 23 @62627 has 34 MA's), (Start: 46 @62546 has 251 MA's), (56, 62477), (60, 62429), (63, 62408), (74, 62369),

Gene: DuchessDung_82 Start: 62625, Stop: 62242, Start Num: 23

Candidate Starts for DuchessDung_82:

(Start: 23 @62625 has 34 MA's), (Start: 46 @62544 has 251 MA's), (56, 62475), (60, 62427), (63, 62406), (74, 62367),

Gene: Duggie_84 Start: 63170, Stop: 62868, Start Num: 46

Candidate Starts for Duggie_84:

(Start: 23 @63251 has 34 MA's), (Start: 46 @63170 has 251 MA's), (60, 63053), (63, 63032), (74, 62993),

Gene: DunneganBoMo_189 Start: 141037, Stop: 141381, Start Num: 33

Candidate Starts for DunneganBoMo_189:

(Start: 33 @141037 has 3 MA's), (84, 141343),

Gene: Durga_86 Start: 63652, Stop: 63350, Start Num: 46

Candidate Starts for Durga_86:

(Start: 23 @63733 has 34 MA's), (Start: 46 @63652 has 251 MA's), (60, 63535), (63, 63514), (74, 63475),

Gene: Ellewin_188 Start: 140305, Stop: 140649, Start Num: 33

Candidate Starts for Ellewin_188:

(Start: 33 @140305 has 3 MA's), (57, 140428), (77, 140575),

Gene: ElvisPhasley_85 Start: 64194, Stop: 63892, Start Num: 46

Candidate Starts for ElvisPhasley_85:

(Start: 23 @64275 has 34 MA's), (Start: 46 @64194 has 251 MA's), (60, 64077), (63, 64056), (74, 64017),

Gene: EmGer13_84 Start: 62964, Stop: 62581, Start Num: 23

Candidate Starts for EmGer13_84:

(Start: 23 @62964 has 34 MA's), (Start: 46 @62883 has 251 MA's), (56, 62814), (60, 62766), (63, 62745), (74, 62706),

Gene: Emiris_86 Start: 63558, Stop: 63256, Start Num: 46

Candidate Starts for Emiris_86:

(Start: 23 @63639 has 34 MA's), (Start: 46 @63558 has 251 MA's), (60, 63441), (63, 63420), (74, 63381),

Gene: Emmetator_192 Start: 140436, Stop: 140780, Start Num: 33

Candidate Starts for Emmetator_192:

(Start: 33 @140436 has 3 MA's), (84, 140742),

Gene: EmpTee_83 Start: 62960, Stop: 62658, Start Num: 46

Candidate Starts for EmpTee_83:

(Start: 23 @63041 has 34 MA's), (Start: 46 @62960 has 251 MA's), (56, 62891), (60, 62843), (63, 62822), (74, 62783),

Gene: Eremos_83 Start: 63331, Stop: 62948, Start Num: 23

Candidate Starts for Eremos_83:

(Start: 23 @63331 has 34 MA's), (Start: 46 @63250 has 251 MA's), (60, 63133), (63, 63112), (74, 63073),

Gene: Etaye_83 Start: 63736, Stop: 63434, Start Num: 46

Candidate Starts for Etaye_83:

(Start: 23 @63817 has 34 MA's), (Start: 46 @63736 has 251 MA's), (60, 63619), (63, 63598), (74, 63559),

Gene: Eugenia_86 Start: 63671, Stop: 63369, Start Num: 46

Candidate Starts for Eugenia_86:

(Start: 23 @63752 has 34 MA's), (Start: 46 @63671 has 251 MA's), (60, 63554), (63, 63533), (74, 63494),

Gene: FelixTres_78 Start: 57603, Stop: 57304, Start Num: 44

Candidate Starts for FelixTres_78:

(Start: 44 @57603 has 7 MA's), (64, 57471), (70, 57453), (82, 57342), (86, 57333),

Gene: Flake_83 Start: 63150, Stop: 62848, Start Num: 46

Candidate Starts for Flake_83:

(Start: 23 @63231 has 34 MA's), (Start: 46 @63150 has 251 MA's), (60, 63033), (63, 63012), (74, 62973),

Gene: FleetyMac_87 Start: 63060, Stop: 62758, Start Num: 46

Candidate Starts for FleetyMac_87:

(Start: 23 @63141 has 34 MA's), (Start: 46 @63060 has 251 MA's), (56, 62991), (60, 62943), (63, 62922), (74, 62883),

Gene: FloraSnap32_196 Start: 136494, Stop: 136784, Start Num: 45

Candidate Starts for FloraSnap32_196:

(35, 136458), (Start: 45 @136494 has 7 MA's), (77, 136713),

Gene: FluffyNinja_85 Start: 63249, Stop: 62947, Start Num: 46

Candidate Starts for FluffyNinja_85:

(Start: 23 @63330 has 34 MA's), (Start: 46 @63249 has 251 MA's), (56, 63180), (60, 63132), (63, 63111), (74, 63072),

Gene: Fozzie_82 Start: 63575, Stop: 63273, Start Num: 46

Candidate Starts for Fozzie_82:

(Start: 23 @63656 has 34 MA's), (Start: 46 @63575 has 251 MA's), (60, 63458), (63, 63437), (74, 63398),

Gene: Frankicide_83 Start: 63074, Stop: 62772, Start Num: 46

Candidate Starts for Frankicide_83:

(Start: 23 @63155 has 34 MA's), (Start: 46 @63074 has 251 MA's), (60, 62957), (63, 62936), (74, 62897),

Gene: FremontTroll_82 Start: 63487, Stop: 63185, Start Num: 46

Candidate Starts for FremontTroll_82:

(Start: 23 @63568 has 34 MA's), (Start: 46 @63487 has 251 MA's), (60, 63370), (63, 63349), (74, 63310),

Gene: Freya_81 Start: 62566, Stop: 62264, Start Num: 46

Candidate Starts for Freya_81:

(Start: 23 @62647 has 34 MA's), (Start: 46 @62566 has 251 MA's), (60, 62449), (63, 62428), (74, 62389),

Gene: FriarPreacher_82 Start: 63028, Stop: 62645, Start Num: 23

Candidate Starts for FriarPreacher_82:

(Start: 23 @63028 has 34 MA's), (Start: 46 @62947 has 251 MA's), (60, 62830), (63, 62809), (74, 62770),

Gene: Fringe_88 Start: 63724, Stop: 63422, Start Num: 46

Candidate Starts for Fringe_88:

(Start: 23 @63805 has 34 MA's), (Start: 46 @63724 has 251 MA's), (60, 63607), (63, 63586), (74, 63547),

Gene: FrostedClock_200 Start: 137527, Stop: 137817, Start Num: 45

Candidate Starts for FrostedClock_200:

(35, 137491), (Start: 45 @137527 has 7 MA's), (62, 137644), (77, 137746),

Gene: FugateOSU_84 Start: 64008, Stop: 63706, Start Num: 46

Candidate Starts for FugateOSU_84:

(Start: 23 @64089 has 34 MA's), (Start: 46 @64008 has 251 MA's), (56, 63939), (60, 63891), (63, 63870), (74, 63831),

Gene: Gadget_81 Start: 61637, Stop: 61308, Start Num: 50

Candidate Starts for Gadget_81:

(Start: 50 @61637 has 55 MA's), (60, 61538), (63, 61517), (69, 61496),

Gene: Gareth_84 Start: 63396, Stop: 63094, Start Num: 46

Candidate Starts for Gareth_84:

(Start: 23 @63477 has 34 MA's), (Start: 46 @63396 has 251 MA's), (60, 63279), (63, 63258), (74, 63219),

Gene: GeneCoco_85 Start: 63576, Stop: 63274, Start Num: 46

Candidate Starts for GeneCoco_85:

(Start: 23 @63657 has 34 MA's), (Start: 46 @63576 has 251 MA's), (60, 63459), (63, 63438), (74, 63399),

Gene: Gervas_81 Start: 61731, Stop: 61402, Start Num: 50

Candidate Starts for Gervas_81:

(Start: 50 @61731 has 55 MA's), (60, 61632), (63, 61611), (69, 61590),

Gene: Giraffe_84 Start: 63401, Stop: 63099, Start Num: 46

Candidate Starts for Giraffe_84:

(Start: 23 @63482 has 34 MA's), (Start: 46 @63401 has 251 MA's), (56, 63332), (60, 63284), (63, 63263), (74, 63224),

Gene: GlenHope_81 Start: 61310, Stop: 60981, Start Num: 50

Candidate Starts for GlenHope_81:

(Start: 50 @61310 has 55 MA's), (60, 61211), (63, 61190), (69, 61169),

Gene: Glubnar_81 Start: 61169, Stop: 60840, Start Num: 50

Candidate Starts for Glubnar_81:

(Start: 50 @61169 has 55 MA's), (60, 61070), (63, 61049), (69, 61028),

Gene: GodPhather_69 Start: 50749, Stop: 51048, Start Num: 50

Candidate Starts for GodPhather_69:

(26, 50668), (Start: 50 @50749 has 55 MA's), (60, 50848), (63, 50869), (72, 50899), (76, 50956), (82, 51007),

Gene: GoldenEssence_185 Start: 131868, Stop: 132158, Start Num: 45

Candidate Starts for GoldenEssence_185:

(35, 131832), (Start: 45 @131868 has 7 MA's), (77, 132087),

Gene: Gophee_84 Start: 63387, Stop: 63085, Start Num: 46

Candidate Starts for Gophee_84:

(Start: 23 @63468 has 34 MA's), (Start: 46 @63387 has 251 MA's), (60, 63270), (63, 63249), (74, 63210),

Gene: Grand2040_82 Start: 63365, Stop: 63063, Start Num: 46

Candidate Starts for Grand2040_82:

(Start: 23 @63446 has 34 MA's), (Start: 46 @63365 has 251 MA's), (60, 63248), (63, 63227), (74, 63188),

Gene: GreenChile_83 Start: 63061, Stop: 62759, Start Num: 46

Candidate Starts for GreenChile_83:

(Start: 23 @63142 has 34 MA's), (Start: 46 @63061 has 251 MA's), (60, 62944), (63, 62923), (74, 62884),

Gene: Gustav_45 Start: 33684, Stop: 33406, Start Num: 42

Candidate Starts for Gustav_45:

(15, 33798), (17, 33789), (24, 33756), (28, 33747), (Start: 42 @33684 has 3 MA's), (58, 33609), (60, 33582), (61, 33579), (64, 33558), (68, 33549), (77, 33471),

Gene: Gwennie1_83 Start: 63211, Stop: 62909, Start Num: 46

Candidate Starts for Gwennie1_83:

(Start: 23 @63292 has 34 MA's), (Start: 46 @63211 has 251 MA's), (60, 63094), (63, 63073), (74, 63034),

Gene: Gwilliam_85 Start: 64012, Stop: 63629, Start Num: 23

Candidate Starts for Gwilliam_85:

(Start: 23 @64012 has 34 MA's), (Start: 46 @63931 has 251 MA's), (60, 63814), (63, 63793), (74, 63754),

Gene: Gyarad_0083 Start: 62885, Stop: 62583, Start Num: 46

Candidate Starts for Gyarad_0083:

(Start: 23 @62966 has 34 MA's), (Start: 46 @62885 has 251 MA's), (60, 62768), (63, 62747), (74, 62708),

Gene: HSavage_82 Start: 62902, Stop: 62600, Start Num: 46

Candidate Starts for HSavage_82:

(Start: 23 @62983 has 34 MA's), (Start: 46 @62902 has 251 MA's), (60, 62785), (63, 62764), (74, 62725),

Gene: Haimas_82 Start: 62827, Stop: 62525, Start Num: 46

Candidate Starts for Haimas_82:

(Start: 23 @62908 has 34 MA's), (Start: 46 @62827 has 251 MA's), (60, 62710), (63, 62689), (74, 62650),

Gene: Haleema_83 Start: 62947, Stop: 62645, Start Num: 46

Candidate Starts for Haleema_83:

(Start: 23 @63028 has 34 MA's), (Start: 46 @62947 has 251 MA's), (63, 62809), (74, 62770),

Gene: Halfpint_79 Start: 61052, Stop: 60723, Start Num: 50

Candidate Starts for Halfpint_79:

(Start: 50 @61052 has 55 MA's), (60, 60953), (63, 60932), (69, 60911),

Gene: Hamish_81 Start: 63116, Stop: 62814, Start Num: 46

Candidate Starts for Hamish_81:

(Start: 23 @63197 has 34 MA's), (Start: 46 @63116 has 251 MA's), (60, 62999), (63, 62978), (74, 62939),

Gene: Happabalu_82 Start: 64042, Stop: 63701, Start Num: 46

Candidate Starts for Happabalu_82:

(Start: 23 @64123 has 34 MA's), (Start: 46 @64042 has 251 MA's), (60, 63925), (63, 63904), (74, 63865), (96, 63715),

Gene: Hartsy_83 Start: 63145, Stop: 62762, Start Num: 23

Candidate Starts for Hartsy_83:

(Start: 23 @63145 has 34 MA's), (Start: 46 @63064 has 251 MA's), (56, 62995), (60, 62947), (63, 62926), (74, 62887),

Gene: Harvey_81 Start: 62724, Stop: 62422, Start Num: 46

Candidate Starts for Harvey_81:

(Start: 23 @62805 has 34 MA's), (Start: 46 @62724 has 251 MA's), (60, 62607), (63, 62586), (74, 62547),

Gene: HarveySr_79 Start: 60821, Stop: 60492, Start Num: 50

Candidate Starts for HarveySr_79:

(Start: 50 @60821 has 55 MA's), (60, 60722), (63, 60701), (69, 60680),

Gene: Heathcliff_80 Start: 61231, Stop: 60902, Start Num: 50

Candidate Starts for Heathcliff_80:

(Start: 50 @61231 has 55 MA's), (60, 61132), (63, 61111), (69, 61090),

Gene: Hekos_82 Start: 62739, Stop: 62437, Start Num: 46

Candidate Starts for Hekos_82:

(Start: 23 @62820 has 34 MA's), (Start: 46 @62739 has 251 MA's), (60, 62622), (63, 62601), (74, 62562),

Gene: Held_82 Start: 62845, Stop: 62543, Start Num: 46

Candidate Starts for Held_82:

(Start: 23 @62926 has 34 MA's), (Start: 46 @62845 has 251 MA's), (60, 62728), (63, 62707), (74, 62668),

Gene: HenryJackson_85 Start: 63564, Stop: 63262, Start Num: 46

Candidate Starts for HenryJackson_85:

(Start: 23 @63645 has 34 MA's), (Start: 46 @63564 has 251 MA's), (60, 63447), (63, 63426), (74, 63387),

Gene: Hertubise_84 Start: 63287, Stop: 62904, Start Num: 23

Candidate Starts for Hertubise_84:

(Start: 23 @63287 has 34 MA's), (Start: 46 @63206 has 251 MA's), (60, 63089), (63, 63068), (74, 63029),

Gene: Hetaeria_84 Start: 63213, Stop: 62911, Start Num: 46

Candidate Starts for Hetaeria_84:

(Start: 23 @63294 has 34 MA's), (Start: 46 @63213 has 251 MA's), (60, 63096), (63, 63075), (74, 63036),

Gene: HighStump_85 Start: 63351, Stop: 63049, Start Num: 46

Candidate Starts for HighStump_85:

(Start: 23 @63432 has 34 MA's), (Start: 46 @63351 has 251 MA's), (60, 63234), (63, 63213), (74, 63174),

Gene: Hocus_82 Start: 62865, Stop: 62563, Start Num: 46

Candidate Starts for Hocus_82:

(Start: 23 @62946 has 34 MA's), (Start: 46 @62865 has 251 MA's), (60, 62748), (63, 62727), (74, 62688),

Gene: HogWash_85 Start: 63878, Stop: 63576, Start Num: 46

Candidate Starts for HogWash_85:

(Start: 23 @63959 has 34 MA's), (Start: 46 @63878 has 251 MA's), (60, 63761), (63, 63740), (74, 63701),

Gene: Horchata_81 Start: 63042, Stop: 62740, Start Num: 46

Candidate Starts for Horchata_81:

(Start: 23 @63123 has 34 MA's), (Start: 46 @63042 has 251 MA's), (60, 62925), (63, 62904), (74, 62865),

Gene: ImtiyazSitla_85 Start: 63370, Stop: 63068, Start Num: 46

Candidate Starts for ImtiyazSitla_85:

(Start: 23 @63451 has 34 MA's), (Start: 46 @63370 has 251 MA's), (56, 63301), (60, 63253), (63, 63232), (74, 63193),

Gene: Inchworm_85 Start: 63238, Stop: 62936, Start Num: 46

Candidate Starts for Inchworm_85:

(Start: 23 @63319 has 34 MA's), (Start: 46 @63238 has 251 MA's), (56, 63169), (60, 63121), (63, 63100), (74, 63061),

Gene: Inverness_82 Start: 63039, Stop: 62737, Start Num: 46

Candidate Starts for Inverness_82:

(Start: 23 @63120 has 34 MA's), (Start: 46 @63039 has 251 MA's), (60, 62922), (63, 62901), (74, 62862),

Gene: Iridessa_86 Start: 62963, Stop: 62661, Start Num: 46

Candidate Starts for Iridessa_86:

(Start: 23 @63044 has 34 MA's), (Start: 46 @62963 has 251 MA's), (60, 62846), (63, 62825), (74, 62786),

Gene: Iridoclysis_83 Start: 63129, Stop: 62827, Start Num: 46

Candidate Starts for Iridoclysis_83:

(Start: 23 @63210 has 34 MA's), (Start: 46 @63129 has 251 MA's), (56, 63060), (60, 63012), (63, 62991), (74, 62952),

Gene: IsaacEli_86 Start: 63369, Stop: 63067, Start Num: 46

Candidate Starts for IsaacEli_86:

(Start: 23 @63450 has 34 MA's), (Start: 46 @63369 has 251 MA's), (60, 63252), (63, 63231), (74, 63192),

Gene: JDog_83 Start: 63399, Stop: 63097, Start Num: 46

Candidate Starts for JDog_83:

(Start: 23 @63480 has 34 MA's), (Start: 46 @63399 has 251 MA's), (60, 63282), (63, 63261), (74, 63222),

Gene: JacAttac_84 Start: 62843, Stop: 62541, Start Num: 46

Candidate Starts for JacAttac_84:

(Start: 23 @62924 has 34 MA's), (Start: 46 @62843 has 251 MA's), (56, 62774), (60, 62726), (63, 62705), (74, 62666),

Gene: Jackstina_75 Start: 61145, Stop: 60816, Start Num: 50

Candidate Starts for Jackstina_75:

(Start: 50 @61145 has 55 MA's), (60, 61046), (63, 61025), (69, 61004),

Gene: JakeO_85 Start: 63127, Stop: 62825, Start Num: 46

Candidate Starts for JakeO_85:

(Start: 23 @63208 has 34 MA's), (Start: 46 @63127 has 251 MA's), (60, 63010), (63, 62989), (74, 62950),

Gene: JangoPhett_82 Start: 63203, Stop: 62901, Start Num: 46

Candidate Starts for JangoPhett_82:

(Start: 23 @63284 has 34 MA's), (Start: 46 @63203 has 251 MA's), (60, 63086), (63, 63065), (74, 63026),

Gene: Jesabah_86 Start: 63966, Stop: 63664, Start Num: 46

Candidate Starts for Jesabah_86:

(Start: 23 @64047 has 34 MA's), (Start: 46 @63966 has 251 MA's), (60, 63849), (63, 63828), (74, 63789),

Gene: Jillium_85 Start: 63559, Stop: 63257, Start Num: 46

Candidate Starts for Jillium_85:

(Start: 23 @63640 has 34 MA's), (Start: 46 @63559 has 251 MA's), (60, 63442), (63, 63421), (74, 63382),

Gene: Jiminy_84 Start: 63063, Stop: 62761, Start Num: 46

Candidate Starts for Jiminy_84:

(Start: 23 @63144 has 34 MA's), (Start: 46 @63063 has 251 MA's), (56, 62994), (60, 62946), (63, 62925), (74, 62886),

Gene: Jiraiya_85 Start: 63147, Stop: 62845, Start Num: 46

Candidate Starts for Jiraiya_85:

(Start: 23 @63228 has 34 MA's), (Start: 46 @63147 has 251 MA's), (60, 63030), (63, 63009), (74, 62970),

Gene: KLucky39_82 Start: 62922, Stop: 62620, Start Num: 46

Candidate Starts for KLucky39_82:

(Start: 23 @63003 has 34 MA's), (Start: 46 @62922 has 251 MA's), (60, 62805), (63, 62784), (74, 62745),

Gene: Kahve_85 Start: 63562, Stop: 63260, Start Num: 46

Candidate Starts for Kahve_85:

(Start: 23 @63643 has 34 MA's), (Start: 46 @63562 has 251 MA's), (60, 63445), (63, 63424), (74, 63385),

Gene: Kailash_82 Start: 63262, Stop: 62960, Start Num: 46

Candidate Starts for Kailash_82:

(Start: 23 @63343 has 34 MA's), (Start: 46 @63262 has 251 MA's), (56, 63193), (60, 63145), (63, 63124), (74, 63085),

Gene: Kamiyu_80 Start: 61234, Stop: 60905, Start Num: 50

Candidate Starts for Kamiyu_80:

(Start: 50 @61234 has 55 MA's), (60, 61135), (63, 61114), (69, 61093),

Gene: KarasumaRum_75 Start: 62138, Stop: 61818, Start Num: 46

Candidate Starts for KarasumaRum_75:

(30, 62207), (31, 62204), (39, 62162), (Start: 46 @62138 has 251 MA's), (60, 62021), (64, 61997), (71, 61979), (73, 61973), (74, 61961), (82, 61871), (94, 61829),

Gene: Karn_84 Start: 63118, Stop: 62816, Start Num: 46

Candidate Starts for Karn_84:

(Start: 23 @63199 has 34 MA's), (Start: 46 @63118 has 251 MA's), (60, 63001), (63, 62980), (74, 62941),

Gene: Katniss_86 Start: 62978, Stop: 62676, Start Num: 46

Candidate Starts for Katniss_86:

(Start: 23 @63059 has 34 MA's), (Start: 46 @62978 has 251 MA's), (56, 62909), (60, 62861), (63, 62840), (74, 62801),

Gene: Keitherie_87 Start: 63620, Stop: 63318, Start Num: 46

Candidate Starts for Keitherie_87:

(Start: 23 @63701 has 34 MA's), (Start: 46 @63620 has 251 MA's), (56, 63551), (60, 63503), (63, 63482), (74, 63443),

Gene: Khan1_84 Start: 63341, Stop: 63039, Start Num: 46

Candidate Starts for Khan1_84:

(Start: 23 @63422 has 34 MA's), (Start: 46 @63341 has 251 MA's), (60, 63224), (63, 63203), (74, 63164),

Gene: Kikipoo_86 Start: 63369, Stop: 63067, Start Num: 46

Candidate Starts for Kikipoo_86:

(Start: 23 @63450 has 34 MA's), (Start: 46 @63369 has 251 MA's), (60, 63252), (63, 63231), (74, 63192),

Gene: Kimbrough_85 Start: 63441, Stop: 63139, Start Num: 46

Candidate Starts for Kimbrough_85:

(Start: 23 @63522 has 34 MA's), (Start: 46 @63441 has 251 MA's), (60, 63324), (63, 63303), (74, 63264),

Gene: KingTut_75 Start: 59601, Stop: 59299, Start Num: 46

Candidate Starts for KingTut_75:

(Start: 23 @59682 has 34 MA's), (Start: 46 @59601 has 251 MA's), (60, 59484), (63, 59463), (74, 59424),

Gene: KingVeVeVe_82 Start: 62576, Stop: 62274, Start Num: 46

Candidate Starts for KingVeVeVe_82:

(Start: 23 @62657 has 34 MA's), (Start: 46 @62576 has 251 MA's), (60, 62459), (63, 62438), (74, 62399),

Gene: KlimbOn_83 Start: 62881, Stop: 62579, Start Num: 46

Candidate Starts for KlimbOn_83:

(Start: 23 @62962 has 34 MA's), (Start: 46 @62881 has 251 MA's), (60, 62764), (63, 62743), (74, 62704),

Gene: Kloppinator_84 Start: 63012, Stop: 62710, Start Num: 46

Candidate Starts for Kloppinator_84:

(Start: 23 @63093 has 34 MA's), (Start: 46 @63012 has 251 MA's), (60, 62895), (63, 62874), (74, 62835),

Gene: Kronus_80 Start: 62318, Stop: 61989, Start Num: 50

Candidate Starts for Kronus_80:

(Start: 50 @62318 has 55 MA's), (60, 62219), (63, 62198), (69, 62177),

Gene: Kumao_87 Start: 55246, Stop: 55530, Start Num: 48

Candidate Starts for Kumao_87:

(13, 55096), (18, 55132), (32, 55183), (37, 55207), (Start: 48 @55246 has 1 MA's), (64, 55372), (81, 55492),

Gene: Kwadwo_83 Start: 62867, Stop: 62565, Start Num: 46

Candidate Starts for Kwadwo_83:

(Start: 23 @62948 has 34 MA's), (Start: 46 @62867 has 251 MA's), (56, 62798), (60, 62750), (63, 62729), (74, 62690),

Gene: Kwksand96_85 Start: 63133, Stop: 62831, Start Num: 46

Candidate Starts for Kwksand96_85:

(Start: 23 @63214 has 34 MA's), (Start: 46 @63133 has 251 MA's), (56, 63064), (60, 63016), (63, 62995), (74, 62956),

Gene: Labeouficaum_84 Start: 62946, Stop: 62644, Start Num: 46
Candidate Starts for Labeouficaum_84:
(Start: 23 @63027 has 34 MA's), (Start: 46 @62946 has 251 MA's), (60, 62829), (63, 62808), (74, 62769),

Gene: Larson_86 Start: 63291, Stop: 62908, Start Num: 23
Candidate Starts for Larson_86:
(Start: 23 @63291 has 34 MA's), (Start: 46 @63210 has 251 MA's), (60, 63093), (63, 63072), (74, 63033),

Gene: LasagnaCat_85 Start: 63248, Stop: 62946, Start Num: 46
Candidate Starts for LasagnaCat_85:
(Start: 23 @63329 has 34 MA's), (Start: 46 @63248 has 251 MA's), (56, 63179), (60, 63131), (63, 63110), (74, 63071),

Gene: Lasso_83 Start: 63108, Stop: 62806, Start Num: 46
Candidate Starts for Lasso_83:
(Start: 23 @63189 has 34 MA's), (Start: 46 @63108 has 251 MA's), (63, 62970), (74, 62931),

Gene: Laure_199 Start: 125992, Stop: 126291, Start Num: 47
Candidate Starts for Laure_199:
(38, 125962), (47, 125992), (66, 126121), (83, 126250), (87, 126262), (89, 126274),

Gene: LeeLot_83 Start: 63532, Stop: 63149, Start Num: 23
Candidate Starts for LeeLot_83:
(Start: 23 @63532 has 34 MA's), (Start: 46 @63451 has 251 MA's), (60, 63334), (63, 63313), (74, 63274),

Gene: Lego3393_82 Start: 63569, Stop: 63267, Start Num: 46
Candidate Starts for Lego3393_82:
(Start: 23 @63650 has 34 MA's), (Start: 46 @63569 has 251 MA's), (56, 63500), (60, 63452), (63, 63431), (74, 63392),

Gene: Legolas_85 Start: 63195, Stop: 62893, Start Num: 46
Candidate Starts for Legolas_85:
(Start: 23 @63276 has 34 MA's), (Start: 46 @63195 has 251 MA's), (56, 63126), (60, 63078), (63, 63057), (74, 63018),

Gene: Lehmann_87 Start: 63406, Stop: 63104, Start Num: 46
Candidate Starts for Lehmann_87:
(Start: 23 @63487 has 34 MA's), (Start: 46 @63406 has 251 MA's), (60, 63289), (63, 63268), (74, 63229),

Gene: LeiMonet_87 Start: 63329, Stop: 63027, Start Num: 46
Candidate Starts for LeiMonet_87:
(Start: 23 @63410 has 34 MA's), (Start: 46 @63329 has 251 MA's), (60, 63212), (63, 63191), (74, 63152),

Gene: LemonSlice_84 Start: 62854, Stop: 62552, Start Num: 46
Candidate Starts for LemonSlice_84:
(Start: 23 @62935 has 34 MA's), (Start: 46 @62854 has 251 MA's), (63, 62716), (74, 62677),

Gene: LeoJr_199 Start: 136061, Stop: 136414, Start Num: 33

Candidate Starts for LeoJr_199:
(Start: 33 @136061 has 3 MA's), (77, 136334), (93, 136409),

Gene: LestyG_78 Start: 60804, Stop: 60475, Start Num: 50
Candidate Starts for LestyG_78:
(Start: 50 @60804 has 55 MA's), (60, 60705), (63, 60684), (69, 60663),

Gene: Longacauda_85 Start: 63348, Stop: 63046, Start Num: 46
Candidate Starts for Longacauda_85:
(Start: 23 @63429 has 34 MA's), (Start: 46 @63348 has 251 MA's), (56, 63279), (60, 63231), (63, 63210), (74, 63171),

Gene: Lopsy_81 Start: 62535, Stop: 62233, Start Num: 46
Candidate Starts for Lopsy_81:
(Start: 23 @62616 has 34 MA's), (Start: 46 @62535 has 251 MA's), (56, 62466), (60, 62418), (63, 62397),

Gene: LostAndPhound_83 Start: 63397, Stop: 63095, Start Num: 46
Candidate Starts for LostAndPhound_83:
(Start: 23 @63478 has 34 MA's), (Start: 46 @63397 has 251 MA's), (60, 63280), (63, 63259), (74, 63220),

Gene: LuckyMarjie_81 Start: 62606, Stop: 62304, Start Num: 46
Candidate Starts for LuckyMarjie_81:
(Start: 23 @62687 has 34 MA's), (Start: 46 @62606 has 251 MA's), (60, 62489), (63, 62468), (74, 62429),

Gene: Lulumae_81 Start: 62668, Stop: 62285, Start Num: 23
Candidate Starts for Lulumae_81:
(Start: 23 @62668 has 34 MA's), (Start: 46 @62587 has 251 MA's), (60, 62470), (63, 62449), (74, 62410),

Gene: Lulwa_81 Start: 62220, Stop: 61918, Start Num: 46
Candidate Starts for Lulwa_81:
(Start: 23 @62301 has 34 MA's), (Start: 46 @62220 has 251 MA's), (60, 62103), (63, 62082), (74, 62043),

Gene: Lumine_85 Start: 63045, Stop: 62743, Start Num: 46
Candidate Starts for Lumine_85:
(Start: 23 @63126 has 34 MA's), (Start: 46 @63045 has 251 MA's), (60, 62928), (63, 62907), (74, 62868),

Gene: MRabcd_84 Start: 63322, Stop: 63020, Start Num: 46
Candidate Starts for MRabcd_84:
(Start: 23 @63403 has 34 MA's), (Start: 46 @63322 has 251 MA's), (60, 63205), (63, 63184), (74, 63145),

Gene: Mag7_82 Start: 62806, Stop: 62504, Start Num: 46
Candidate Starts for Mag7_82:
(Start: 23 @62887 has 34 MA's), (Start: 46 @62806 has 251 MA's), (56, 62737), (60, 62689), (63, 62668), (74, 62629),

Gene: Magic8_83 Start: 63174, Stop: 62872, Start Num: 46

Candidate Starts for Magic8_83:

(Start: 23 @63255 has 34 MA's), (Start: 46 @63174 has 251 MA's), (60, 63057), (63, 63036), (74, 62997),

Gene: Magritte_241 Start: 125100, Stop: 125468, Start Num: 45

Candidate Starts for Magritte_241:

(Start: 45 @125100 has 7 MA's), (Start: 49 @125106 has 1 MA's), (57, 125181), (97, 125451),

Gene: MakoManhole_74 Start: 56700, Stop: 56401, Start Num: 44

Candidate Starts for MakoManhole_74:

(Start: 44 @56700 has 7 MA's), (64, 56568), (70, 56550), (82, 56439),

Gene: Mana_82 Start: 63010, Stop: 62708, Start Num: 46

Candidate Starts for Mana_82:

(Start: 23 @63091 has 34 MA's), (Start: 46 @63010 has 251 MA's), (60, 62893), (63, 62872), (74, 62833),

Gene: Manad_83 Start: 63120, Stop: 62818, Start Num: 46

Candidate Starts for Manad_83:

(Start: 23 @63201 has 34 MA's), (Start: 46 @63120 has 251 MA's), (60, 63003), (63, 62982), (74, 62943),

Gene: Marley1013_81 Start: 62170, Stop: 61841, Start Num: 50

Candidate Starts for Marley1013_81:

(Start: 50 @62170 has 55 MA's), (60, 62071), (63, 62050), (69, 62029),

Gene: Marlia_81 Start: 61703, Stop: 61374, Start Num: 50

Candidate Starts for Marlia_81:

(Start: 50 @61703 has 55 MA's), (60, 61604), (63, 61583), (69, 61562),

Gene: Maru_84 Start: 63458, Stop: 63156, Start Num: 46

Candidate Starts for Maru_84:

(Start: 23 @63539 has 34 MA's), (Start: 46 @63458 has 251 MA's), (60, 63341), (63, 63320), (74, 63281),

Gene: Maskar_85 Start: 63370, Stop: 63068, Start Num: 46

Candidate Starts for Maskar_85:

(Start: 23 @63451 has 34 MA's), (Start: 46 @63370 has 251 MA's), (56, 63301), (60, 63253), (63, 63232), (74, 63193),

Gene: Matalotodo_83 Start: 63854, Stop: 63552, Start Num: 46

Candidate Starts for Matalotodo_83:

(Start: 23 @63935 has 34 MA's), (Start: 46 @63854 has 251 MA's), (60, 63737), (63, 63716), (74, 63677),

Gene: Mcshane_83 Start: 62868, Stop: 62566, Start Num: 46

Candidate Starts for Mcshane_83:

(Start: 23 @62949 has 34 MA's), (Start: 46 @62868 has 251 MA's), (60, 62751), (63, 62730), (74, 62691),

Gene: Mecca_84 Start: 63422, Stop: 63120, Start Num: 46

Candidate Starts for Mecca_84:

(Start: 23 @63503 has 34 MA's), (Start: 46 @63422 has 251 MA's), (60, 63305), (63, 63284), (74, 63245),

Gene: Megabear_66 Start: 49066, Stop: 49365, Start Num: 50

Candidate Starts for Megabear_66:

(Start: 50 @49066 has 55 MA's), (60, 49165), (63, 49186), (72, 49216), (76, 49273), (82, 49324), (90, 49354),

Gene: Megamind20_84 Start: 62832, Stop: 62530, Start Num: 46

Candidate Starts for Megamind20_84:

(Start: 23 @62913 has 34 MA's), (Start: 46 @62832 has 251 MA's), (56, 62763), (60, 62715), (63, 62694), (74, 62655),

Gene: Megatron_85 Start: 63540, Stop: 63238, Start Num: 46

Candidate Starts for Megatron_85:

(Start: 23 @63621 has 34 MA's), (Start: 46 @63540 has 251 MA's), (56, 63471), (60, 63423), (63, 63402), (74, 63363),

Gene: Melc17_81 Start: 63490, Stop: 63188, Start Num: 46

Candidate Starts for Melc17_81:

(Start: 23 @63571 has 34 MA's), (Start: 46 @63490 has 251 MA's), (60, 63373), (63, 63352), (74, 63313),

Gene: MelsMeow_83 Start: 63130, Stop: 62828, Start Num: 46

Candidate Starts for MelsMeow_83:

(Start: 23 @63211 has 34 MA's), (Start: 46 @63130 has 251 MA's), (56, 63061), (60, 63013), (63, 62992), (74, 62953),

Gene: Mesh1_85 Start: 63667, Stop: 63284, Start Num: 23

Candidate Starts for Mesh1_85:

(Start: 23 @63667 has 34 MA's), (Start: 46 @63586 has 251 MA's), (60, 63469), (63, 63448), (74, 63409),

Gene: Mesmerelda_83 Start: 63422, Stop: 63120, Start Num: 46

Candidate Starts for Mesmerelda_83:

(Start: 23 @63503 has 34 MA's), (Start: 46 @63422 has 251 MA's), (60, 63305), (63, 63284), (74, 63245),

Gene: MichaelPhcott_82 Start: 62803, Stop: 62501, Start Num: 46

Candidate Starts for MichaelPhcott_82:

(Start: 23 @62884 has 34 MA's), (Start: 46 @62803 has 251 MA's), (56, 62734), (60, 62686), (63, 62665), (74, 62626),

Gene: Mikota_81 Start: 62574, Stop: 62272, Start Num: 46

Candidate Starts for Mikota_81:

(Start: 23 @62655 has 34 MA's), (Start: 46 @62574 has 251 MA's), (60, 62457), (63, 62436), (74, 62397),

Gene: Mimi_197 Start: 137277, Stop: 137567, Start Num: 45

Candidate Starts for Mimi_197:

(35, 137241), (Start: 45 @137277 has 7 MA's), (62, 137394), (77, 137496),

Gene: MiniBoss_81 Start: 62175, Stop: 61873, Start Num: 46

Candidate Starts for MiniBoss_81:

(Start: 23 @62256 has 34 MA's), (Start: 46 @62175 has 251 MA's), (60, 62058), (63, 62037), (74, 61998),

Gene: MitKao_84 Start: 63024, Stop: 62722, Start Num: 46

Candidate Starts for MitKao_84:

(Start: 23 @63105 has 34 MA's), (Start: 46 @63024 has 251 MA's), (60, 62907), (63, 62886), (74, 62847),

Gene: MmasiCarm_81 Start: 61673, Stop: 61344, Start Num: 50

Candidate Starts for MmasiCarm_81:

(Start: 50 @61673 has 55 MA's), (60, 61574), (63, 61553), (69, 61532),

Gene: Morgushi_82 Start: 62919, Stop: 62536, Start Num: 23

Candidate Starts for Morgushi_82:

(Start: 23 @62919 has 34 MA's), (Start: 46 @62838 has 251 MA's), (60, 62721), (63, 62700), (74, 62661),

Gene: Morrissey_45 Start: 34634, Stop: 34356, Start Num: 42

Candidate Starts for Morrissey_45:

(Start: 42 @34634 has 3 MA's), (58, 34559), (60, 34532), (61, 34529), (64, 34508), (68, 34499), (71, 34490), (77, 34421),

Gene: Mortcellus_80 Start: 62399, Stop: 62070, Start Num: 50

Candidate Starts for Mortcellus_80:

(Start: 50 @62399 has 55 MA's), (60, 62300), (63, 62279), (69, 62258),

Gene: Morty_85 Start: 63410, Stop: 63108, Start Num: 46

Candidate Starts for Morty_85:

(Start: 23 @63491 has 34 MA's), (Start: 46 @63410 has 251 MA's), (60, 63293), (63, 63272), (74, 63233),

Gene: Morty007_79 Start: 62170, Stop: 61841, Start Num: 50

Candidate Starts for Morty007_79:

(Start: 50 @62170 has 55 MA's), (60, 62071), (63, 62050), (69, 62029),

Gene: Mosaic_82 Start: 63101, Stop: 62718, Start Num: 23

Candidate Starts for Mosaic_82:

(Start: 23 @63101 has 34 MA's), (Start: 46 @63020 has 251 MA's), (60, 62903), (63, 62882), (74, 62843),

Gene: MossRose_77 Start: 57611, Stop: 57312, Start Num: 44

Candidate Starts for MossRose_77:

(Start: 44 @57611 has 7 MA's), (64, 57479), (70, 57461), (82, 57350),

Gene: MrPhizzler_87 Start: 63318, Stop: 63016, Start Num: 46

Candidate Starts for MrPhizzler_87:

(Start: 23 @63399 has 34 MA's), (Start: 46 @63318 has 251 MA's), (60, 63201), (63, 63180), (74, 63141),

Gene: Mulan_83 Start: 63053, Stop: 62751, Start Num: 46

Candidate Starts for Mulan_83:

(Start: 23 @63134 has 34 MA's), (Start: 46 @63053 has 251 MA's), (60, 62936), (63, 62915), (74, 62876),

Gene: Murdoc_81 Start: 63212, Stop: 62829, Start Num: 23

Candidate Starts for Murdoc_81:

(Start: 23 @63212 has 34 MA's), (Start: 46 @63131 has 251 MA's), (60, 63014), (63, 62993), (74, 62954),

Gene: Mutante_85 Start: 63025, Stop: 62723, Start Num: 46

Candidate Starts for Mutante_85:

(Start: 23 @63106 has 34 MA's), (Start: 46 @63025 has 251 MA's), (60, 62908), (63, 62887), (74, 62848),

Gene: Nacho_0087 Start: 64177, Stop: 63794, Start Num: 23

Candidate Starts for Nacho_0087:

(Start: 23 @64177 has 34 MA's), (Start: 46 @64096 has 251 MA's), (60, 63979), (63, 63958), (74, 63919),

Gene: Nathan_85 Start: 63551, Stop: 63249, Start Num: 46

Candidate Starts for Nathan_85:

(Start: 23 @63632 has 34 MA's), (Start: 46 @63551 has 251 MA's), (60, 63434), (63, 63413), (74, 63374),

Gene: Nazo_63 Start: 41238, Stop: 41627, Start Num: 21

Candidate Starts for Nazo_63:

(Start: 21 @41238 has 2 MA's), (34, 41280), (Start: 49 @41328 has 1 MA's), (52, 41352), (80, 41556), (91, 41619),

Gene: Neos5_80 Start: 61632, Stop: 61303, Start Num: 50

Candidate Starts for Neos5_80:

(Start: 50 @61632 has 55 MA's), (60, 61533), (63, 61512), (69, 61491),

Gene: Newman_82 Start: 63454, Stop: 63071, Start Num: 23

Candidate Starts for Newman_82:

(Start: 23 @63454 has 34 MA's), (Start: 46 @63373 has 251 MA's), (60, 63256), (63, 63235), (74, 63196),

Gene: NiaNia_85 Start: 62898, Stop: 62596, Start Num: 46

Candidate Starts for NiaNia_85:

(Start: 23 @62979 has 34 MA's), (Start: 46 @62898 has 251 MA's), (60, 62781), (63, 62760), (74, 62721),

Gene: Nicole21_85 Start: 63159, Stop: 62857, Start Num: 46

Candidate Starts for Nicole21_85:

(Start: 23 @63240 has 34 MA's), (Start: 46 @63159 has 251 MA's), (56, 63090), (60, 63042), (63, 63021), (74, 62982),

Gene: Nova1_84 Start: 63004, Stop: 62702, Start Num: 46

Candidate Starts for Nova1_84:

(Start: 23 @63085 has 34 MA's), (Start: 46 @63004 has 251 MA's), (60, 62887), (63, 62866), (74, 62827),

Gene: Nozo_80 Start: 62041, Stop: 61712, Start Num: 50

Candidate Starts for Nozo_80:

(Start: 50 @62041 has 55 MA's), (60, 61942), (63, 61921), (69, 61900),

Gene: Numberten_83 Start: 63140, Stop: 62838, Start Num: 46

Candidate Starts for Numberten_83:

(Start: 23 @63221 has 34 MA's), (Start: 46 @63140 has 251 MA's), (60, 63023), (63, 63002), (74, 62963),

Gene: Nyala_83 Start: 62875, Stop: 62573, Start Num: 46

Candidate Starts for Nyala_83:

(Start: 23 @62956 has 34 MA's), (Start: 46 @62875 has 251 MA's), (60, 62758), (63, 62737), (74, 62698),

Gene: OSmaximus_85 Start: 63706, Stop: 63404, Start Num: 46

Candidate Starts for OSmaximus_85:

(Start: 23 @63787 has 34 MA's), (Start: 46 @63706 has 251 MA's), (63, 63568), (74, 63529),

Gene: Obutu_82 Start: 61844, Stop: 61515, Start Num: 50

Candidate Starts for Obutu_82:

(Start: 50 @61844 has 55 MA's), (60, 61745), (63, 61724), (69, 61703),

Gene: Olak_83 Start: 63039, Stop: 62737, Start Num: 46

Candidate Starts for Olak_83:

(Start: 23 @63120 has 34 MA's), (Start: 46 @63039 has 251 MA's), (63, 62901), (74, 62862),

Gene: Oline_83 Start: 63029, Stop: 62727, Start Num: 46

Candidate Starts for Oline_83:

(Start: 23 @63110 has 34 MA's), (Start: 46 @63029 has 251 MA's), (60, 62912), (63, 62891), (74, 62852),

Gene: Olive_82 Start: 63270, Stop: 62968, Start Num: 46

Candidate Starts for Olive_82:

(Start: 23 @63351 has 34 MA's), (Start: 46 @63270 has 251 MA's), (60, 63153), (63, 63132), (74, 63093),

Gene: OliverWalter_84 Start: 63326, Stop: 63024, Start Num: 46

Candidate Starts for OliverWalter_84:

(Start: 23 @63407 has 34 MA's), (Start: 46 @63326 has 251 MA's), (60, 63209), (63, 63188), (74, 63149),

Gene: Omniscient_85 Start: 63729, Stop: 63427, Start Num: 46

Candidate Starts for Omniscient_85:

(Start: 23 @63810 has 34 MA's), (Start: 46 @63729 has 251 MA's), (56, 63660), (60, 63612), (63, 63591), (74, 63552),

Gene: OneBrain_87 Start: 63289, Stop: 62987, Start Num: 46

Candidate Starts for OneBrain_87:

(Start: 23 @63370 has 34 MA's), (Start: 46 @63289 has 251 MA's), (60, 63172), (63, 63151), (74, 63112),

Gene: Oosterbaan_84 Start: 63266, Stop: 62964, Start Num: 46

Candidate Starts for Oosterbaan_84:

(Start: 23 @63347 has 34 MA's), (Start: 46 @63266 has 251 MA's), (60, 63149), (63, 63128), (74, 63089),

Gene: Orfeu_83 Start: 63388, Stop: 63086, Start Num: 46

Candidate Starts for Orfeu_83:

(Start: 23 @63469 has 34 MA's), (Start: 46 @63388 has 251 MA's), (60, 63271), (63, 63250), (74, 63211),

Gene: Orion_83 Start: 63039, Stop: 62656, Start Num: 23

Candidate Starts for Orion_83:

(Start: 23 @63039 has 34 MA's), (Start: 46 @62958 has 251 MA's), (60, 62841), (63, 62820), (74, 62781),

Gene: Orwigg_83 Start: 62794, Stop: 62492, Start Num: 46

Candidate Starts for Orwigg_83:

(Start: 23 @62875 has 34 MA's), (Start: 46 @62794 has 251 MA's), (60, 62677), (63, 62656), (74, 62617),

Gene: PG1_83 Start: 63611, Stop: 63228, Start Num: 23

Candidate Starts for PG1_83:

(Start: 23 @63611 has 34 MA's), (Start: 46 @63530 has 251 MA's), (60, 63413), (63, 63392), (74, 63353),

Gene: PR_67 Start: 49757, Stop: 50056, Start Num: 50

Candidate Starts for PR_67:

(Start: 50 @49757 has 55 MA's), (60, 49856), (63, 49877), (72, 49907), (76, 49964), (82, 50015), (90, 50045),

Gene: Pacifista_83 Start: 62879, Stop: 62577, Start Num: 46

Candidate Starts for Pacifista_83:

(Start: 23 @62960 has 34 MA's), (Start: 46 @62879 has 251 MA's), (60, 62762), (63, 62741), (74, 62702),

Gene: PallasAthena_85 Start: 62860, Stop: 62558, Start Num: 46

Candidate Starts for PallasAthena_85:

(Start: 23 @62941 has 34 MA's), (Start: 46 @62860 has 251 MA's), (60, 62743), (63, 62722), (74, 62683),

Gene: Parvarticeps_13 Start: 8726, Stop: 9028, Start Num: 43

Candidate Starts for Parvarticeps_13:

(1, 7829), (2, 8093), (5, 8369), (16, 8615), (19, 8627), (43, 8726), (57, 8810), (67, 8870), (87, 9002),

Gene: Patbob_195 Start: 137664, Stop: 137954, Start Num: 45

Candidate Starts for Patbob_195:

(35, 137628), (Start: 45 @137664 has 7 MA's), (77, 137883),

Gene: Phaedrus_75 Start: 60692, Stop: 60363, Start Num: 50

Candidate Starts for Phaedrus_75:

(Start: 50 @60692 has 55 MA's), (60, 60593), (63, 60572), (69, 60551),

Gene: Phamished_84 Start: 63046, Stop: 62744, Start Num: 46

Candidate Starts for Phamished_84:

(Start: 23 @63127 has 34 MA's), (Start: 46 @63046 has 251 MA's), (60, 62929), (63, 62908), (74, 62869),

Gene: Phareon_82 Start: 62571, Stop: 62269, Start Num: 46

Candidate Starts for Phareon_82:

(Start: 23 @62652 has 34 MA's), (Start: 46 @62571 has 251 MA's), (60, 62454), (63, 62433), (74, 62394),

Gene: PhatCats2014_84 Start: 63611, Stop: 63228, Start Num: 23

Candidate Starts for PhatCats2014_84:

(Start: 23 @63611 has 34 MA's), (Start: 46 @63530 has 251 MA's), (56, 63461), (60, 63413), (63, 63392), (74, 63353),

Gene: PhatLouie_86 Start: 63405, Stop: 63103, Start Num: 46

Candidate Starts for PhatLouie_86:

(Start: 23 @63486 has 34 MA's), (Start: 46 @63405 has 251 MA's), (60, 63288), (63, 63267), (74, 63228),

Gene: Phayeta_83 Start: 61761, Stop: 61432, Start Num: 50

Candidate Starts for Phayeta_83:

(Start: 50 @61761 has 55 MA's), (60, 61662), (63, 61641), (69, 61620),

Gene: PhenghisKhan_84 Start: 63035, Stop: 62733, Start Num: 46

Candidate Starts for PhenghisKhan_84:

(Start: 23 @63116 has 34 MA's), (Start: 46 @63035 has 251 MA's), (56, 62966), (60, 62918), (63, 62897), (74, 62858),

Gene: Pherdinand_85 Start: 63251, Stop: 62949, Start Num: 46

Candidate Starts for Pherdinand_85:

(Start: 23 @63332 has 34 MA's), (Start: 46 @63251 has 251 MA's), (56, 63182), (60, 63134), (63, 63113), (74, 63074),

Gene: Phergie_84 Start: 63024, Stop: 62722, Start Num: 46

Candidate Starts for Phergie_84:

(Start: 23 @63105 has 34 MA's), (Start: 46 @63024 has 251 MA's), (56, 62955), (60, 62907), (63, 62886), (74, 62847),

Gene: Philly_79 Start: 61124, Stop: 60795, Start Num: 50

Candidate Starts for Philly_79:

(Start: 50 @61124 has 55 MA's), (60, 61025), (63, 61004), (69, 60983),

Gene: Phipps_83 Start: 63102, Stop: 62800, Start Num: 46

Candidate Starts for Phipps_83:

(Start: 23 @63183 has 34 MA's), (Start: 46 @63102 has 251 MA's), (60, 62985), (63, 62964), (74, 62925),

Gene: Phleuron_82 Start: 62836, Stop: 62534, Start Num: 46

Candidate Starts for Phleuron_82:

(Start: 23 @62917 has 34 MA's), (Start: 46 @62836 has 251 MA's), (56, 62767), (60, 62719), (63, 62698), (74, 62659),

Gene: Phlyer_80 Start: 61987, Stop: 61658, Start Num: 50

Candidate Starts for Phlyer_80:

(Start: 50 @61987 has 55 MA's), (60, 61888), (63, 61867), (69, 61846),

Gene: Phrampa_190 Start: 137032, Stop: 137322, Start Num: 45

Candidate Starts for Phrampa_190:

(35, 136996), (Start: 45 @137032 has 7 MA's), (77, 137251),

Gene: PhrankReynolds_83 Start: 63110, Stop: 62727, Start Num: 23

Candidate Starts for PhrankReynolds_83:

(Start: 23 @63110 has 34 MA's), (Start: 46 @63029 has 251 MA's), (56, 62960), (60, 62912), (63, 62891), (74, 62852),

Gene: PhrodoBaggins_86 Start: 63405, Stop: 63103, Start Num: 46

Candidate Starts for PhrodoBaggins_86:

(Start: 23 @63486 has 34 MA's), (Start: 46 @63405 has 251 MA's), (60, 63288), (63, 63267), (74, 63228),

Gene: Phunky_82 Start: 62909, Stop: 62607, Start Num: 46

Candidate Starts for Phunky_82:

(Start: 23 @62990 has 34 MA's), (Start: 46 @62909 has 251 MA's), (63, 62771), (74, 62732),

Gene: Piglet_0084 Start: 63524, Stop: 63222, Start Num: 46

Candidate Starts for Piglet_0084:

(Start: 23 @63605 has 34 MA's), (Start: 46 @63524 has 251 MA's), (60, 63407), (63, 63386), (74, 63347),

Gene: PinheadLarry_83 Start: 63175, Stop: 62873, Start Num: 46

Candidate Starts for PinheadLarry_83:

(Start: 23 @63256 has 34 MA's), (Start: 46 @63175 has 251 MA's), (63, 63037), (74, 62998),

Gene: Pinkman_84 Start: 63248, Stop: 62946, Start Num: 46

Candidate Starts for Pinkman_84:

(Start: 23 @63329 has 34 MA's), (Start: 46 @63248 has 251 MA's), (60, 63131), (63, 63110), (74, 63071),

Gene: Pipefish_82 Start: 62383, Stop: 62054, Start Num: 50

Candidate Starts for Pipefish_82:

(Start: 50 @62383 has 55 MA's), (60, 62284), (63, 62263), (69, 62242),

Gene: Pipsqueak_81 Start: 62861, Stop: 62559, Start Num: 46

Candidate Starts for Pipsqueak_81:

(Start: 23 @62942 has 34 MA's), (Start: 46 @62861 has 251 MA's), (60, 62744), (63, 62723), (74, 62684),

Gene: Placalicious_83 Start: 63894, Stop: 63592, Start Num: 46

Candidate Starts for Placalicious_83:

(Start: 23 @63975 has 34 MA's), (Start: 46 @63894 has 251 MA's), (60, 63777), (63, 63756), (74, 63717),

Gene: Plata_83 Start: 63116, Stop: 62775, Start Num: 46

Candidate Starts for Plata_83:

(Start: 23 @63197 has 34 MA's), (Start: 46 @63116 has 251 MA's), (60, 62999), (63, 62978), (74, 62939), (96, 62789),

Gene: Plmatters_82 Start: 62849, Stop: 62547, Start Num: 46
Candidate Starts for Plmatters_82:
(Start: 23 @62930 has 34 MA's), (Start: 46 @62849 has 251 MA's), (60, 62732), (63, 62711), (74, 62672),

Gene: Podrick_83 Start: 62937, Stop: 62635, Start Num: 46
Candidate Starts for Podrick_83:
(Start: 23 @63018 has 34 MA's), (Start: 46 @62937 has 251 MA's), (60, 62820), (63, 62799), (74, 62760),

Gene: Pops_82 Start: 63120, Stop: 62737, Start Num: 23
Candidate Starts for Pops_82:
(Start: 23 @63120 has 34 MA's), (Start: 46 @63039 has 251 MA's), (60, 62922), (63, 62901), (74, 62862),

Gene: Potter_80 Start: 62858, Stop: 62556, Start Num: 46
Candidate Starts for Potter_80:
(Start: 23 @62939 has 34 MA's), (Start: 46 @62858 has 251 MA's), (60, 62741), (63, 62720), (74, 62681),

Gene: Prickles_85 Start: 63228, Stop: 62926, Start Num: 46
Candidate Starts for Prickles_85:
(Start: 23 @63309 has 34 MA's), (Start: 46 @63228 has 251 MA's), (63, 63090), (74, 63051),

Gene: ProfessorX_82 Start: 62895, Stop: 62593, Start Num: 46
Candidate Starts for ProfessorX_82:
(Start: 23 @62976 has 34 MA's), (Start: 46 @62895 has 251 MA's), (60, 62778), (63, 62757), (74, 62718),

Gene: Puhltonio_81 Start: 63213, Stop: 62830, Start Num: 23
Candidate Starts for Puhltonio_81:
(Start: 23 @63213 has 34 MA's), (Start: 46 @63132 has 251 MA's), (60, 63015), (63, 62994), (74, 62955),

Gene: Puppies_40 Start: 32033, Stop: 31737, Start Num: 42
Candidate Starts for Puppies_40:
(9, 32213), (10, 32204), (25, 32105), (Start: 42 @32033 has 3 MA's), (58, 31949), (68, 31889), (77, 31811),

Gene: QueenBeane_84 Start: 63182, Stop: 62880, Start Num: 46
Candidate Starts for QueenBeane_84:
(Start: 23 @63263 has 34 MA's), (Start: 46 @63182 has 251 MA's), (56, 63113), (60, 63065), (63, 63044), (74, 63005),

Gene: Quisquilliae_86 Start: 63192, Stop: 62890, Start Num: 46
Candidate Starts for Quisquilliae_86:
(Start: 23 @63273 has 34 MA's), (Start: 46 @63192 has 251 MA's), (60, 63075), (63, 63054), (74, 63015),

Gene: Racecar_198 Start: 137389, Stop: 137679, Start Num: 45
Candidate Starts for Racecar_198:
(35, 137353), (Start: 45 @137389 has 7 MA's), (62, 137506), (77, 137608),

Gene: RagingRooster_79 Start: 60967, Stop: 60638, Start Num: 50
Candidate Starts for RagingRooster_79:
(Start: 50 @60967 has 55 MA's), (60, 60868), (63, 60847), (69, 60826),

Gene: RedMaple_84 Start: 63795, Stop: 63493, Start Num: 46
Candidate Starts for RedMaple_84:
(Start: 23 @63876 has 34 MA's), (Start: 46 @63795 has 251 MA's), (60, 63678), (63, 63657), (74, 63618),

Gene: RedRaider89_83 Start: 63481, Stop: 63179, Start Num: 46
Candidate Starts for RedRaider89_83:
(Start: 23 @63562 has 34 MA's), (Start: 46 @63481 has 251 MA's), (60, 63364), (63, 63343), (74, 63304),

Gene: ReginaGlobina_203 Start: 137344, Stop: 137697, Start Num: 33
Candidate Starts for ReginaGlobina_203:
(Start: 33 @137344 has 3 MA's), (77, 137617), (93, 137692),

Gene: Ricotta_84 Start: 62877, Stop: 62575, Start Num: 46
Candidate Starts for Ricotta_84:
(Start: 23 @62958 has 34 MA's), (Start: 46 @62877 has 251 MA's), (60, 62760), (63, 62739), (74, 62700),

Gene: Riggan_85 Start: 63363, Stop: 63061, Start Num: 46
Candidate Starts for Riggan_85:
(Start: 23 @63444 has 34 MA's), (Start: 46 @63363 has 251 MA's), (56, 63294), (60, 63246), (63, 63225), (74, 63186),

Gene: Rimu_84 Start: 63341, Stop: 63039, Start Num: 46
Candidate Starts for Rimu_84:
(Start: 23 @63422 has 34 MA's), (Start: 46 @63341 has 251 MA's), (60, 63224), (63, 63203), (74, 63164),

Gene: Rita1961_81 Start: 61621, Stop: 61292, Start Num: 50
Candidate Starts for Rita1961_81:
(Start: 50 @61621 has 55 MA's), (60, 61522), (63, 61501), (69, 61480),

Gene: Riverton_83 Start: 63121, Stop: 62819, Start Num: 46
Candidate Starts for Riverton_83:
(Start: 23 @63202 has 34 MA's), (Start: 46 @63121 has 251 MA's), (60, 63004), (63, 62983), (74, 62944),

Gene: Robyn_86 Start: 63620, Stop: 63318, Start Num: 46
Candidate Starts for Robyn_86:
(Start: 23 @63701 has 34 MA's), (Start: 46 @63620 has 251 MA's), (60, 63503), (63, 63482), (74, 63443),

Gene: Roliet_81 Start: 62222, Stop: 61920, Start Num: 46
Candidate Starts for Roliet_81:
(Start: 23 @62303 has 34 MA's), (Start: 46 @62222 has 251 MA's), (60, 62105), (63, 62084), (74, 62045),

Gene: RomaT_80 Start: 61841, Stop: 61512, Start Num: 50

Candidate Starts for RomaT_80:

(Start: 50 @61841 has 55 MA's), (60, 61742), (63, 61721), (69, 61700),

Gene: Roscoe_84 Start: 63482, Stop: 63180, Start Num: 46

Candidate Starts for Roscoe_84:

(Start: 23 @63563 has 34 MA's), (Start: 46 @63482 has 251 MA's), (60, 63365), (63, 63344), (74, 63305),

Gene: Roy17_82 Start: 62668, Stop: 62285, Start Num: 23

Candidate Starts for Roy17_82:

(Start: 23 @62668 has 34 MA's), (Start: 46 @62587 has 251 MA's), (60, 62470), (63, 62449), (74, 62410),

Gene: SDcharge11_83 Start: 62515, Stop: 62213, Start Num: 46

Candidate Starts for SDcharge11_83:

(Start: 23 @62596 has 34 MA's), (Start: 46 @62515 has 251 MA's), (60, 62398), (63, 62377), (74, 62338),

Gene: SallyH_87 Start: 63122, Stop: 62820, Start Num: 46

Candidate Starts for SallyH_87:

(Start: 23 @63203 has 34 MA's), (Start: 46 @63122 has 251 MA's), (60, 63005), (63, 62984), (74, 62945),

Gene: Samaymay_84 Start: 63182, Stop: 62880, Start Num: 46

Candidate Starts for Samaymay_84:

(Start: 23 @63263 has 34 MA's), (Start: 46 @63182 has 251 MA's), (56, 63113), (60, 63065), (63, 63044), (74, 63005),

Gene: SassyCat97_82 Start: 62849, Stop: 62547, Start Num: 46

Candidate Starts for SassyCat97_82:

(Start: 23 @62930 has 34 MA's), (Start: 46 @62849 has 251 MA's), (60, 62732), (63, 62711), (74, 62672),

Gene: Schadenfreude_84 Start: 62740, Stop: 62438, Start Num: 46

Candidate Starts for Schadenfreude_84:

(Start: 23 @62821 has 34 MA's), (Start: 46 @62740 has 251 MA's), (60, 62623), (63, 62602), (74, 62563),

Gene: Schueller_82 Start: 63123, Stop: 62821, Start Num: 46

Candidate Starts for Schueller_82:

(Start: 23 @63204 has 34 MA's), (Start: 46 @63123 has 251 MA's), (56, 63054), (60, 63006), (63, 62985), (74, 62946),

Gene: Scoot17C_85 Start: 62962, Stop: 62660, Start Num: 46

Candidate Starts for Scoot17C_85:

(Start: 23 @63043 has 34 MA's), (Start: 46 @62962 has 251 MA's), (60, 62845), (63, 62824), (74, 62785),

Gene: Scrick_83 Start: 62863, Stop: 62561, Start Num: 46

Candidate Starts for Scrick_83:

(Start: 23 @62944 has 34 MA's), (Start: 46 @62863 has 251 MA's), (60, 62746), (63, 62725), (74, 62686),

Gene: Selr12_85 Start: 62905, Stop: 62603, Start Num: 46
Candidate Starts for Selr12_85:
(Start: 23 @62986 has 34 MA's), (Start: 46 @62905 has 251 MA's), (60, 62788), (63, 62767), (74, 62728),

Gene: Serendipity_84 Start: 63416, Stop: 63033, Start Num: 23
Candidate Starts for Serendipity_84:
(Start: 23 @63416 has 34 MA's), (Start: 46 @63335 has 251 MA's), (60, 63218), (63, 63197), (74, 63158),

Gene: Serpentine_0085 Start: 63416, Stop: 63114, Start Num: 46
Candidate Starts for Serpentine_0085:
(Start: 23 @63497 has 34 MA's), (Start: 46 @63416 has 251 MA's), (60, 63299), (63, 63278), (74, 63239),

Gene: ShadowBud_84 Start: 63189, Stop: 62887, Start Num: 46
Candidate Starts for ShadowBud_84:
(Start: 23 @63270 has 34 MA's), (Start: 46 @63189 has 251 MA's), (60, 63072), (63, 63051), (74, 63012),

Gene: Sheila_80 Start: 62428, Stop: 62126, Start Num: 46
Candidate Starts for Sheila_80:
(Start: 23 @62509 has 34 MA's), (Start: 46 @62428 has 251 MA's), (60, 62311), (63, 62290), (74, 62251),

Gene: Shenandoah_79 Start: 60887, Stop: 60558, Start Num: 50
Candidate Starts for Shenandoah_79:
(Start: 50 @60887 has 55 MA's), (60, 60788), (63, 60767), (69, 60746),

Gene: ShiVal_82 Start: 62887, Stop: 62585, Start Num: 46
Candidate Starts for ShiVal_82:
(Start: 23 @62968 has 34 MA's), (Start: 46 @62887 has 251 MA's), (60, 62770), (63, 62749), (74, 62710),

Gene: Sigman_84 Start: 62924, Stop: 62541, Start Num: 23
Candidate Starts for Sigman_84:
(Start: 23 @62924 has 34 MA's), (Start: 46 @62843 has 251 MA's), (56, 62774), (60, 62726), (63, 62705), (74, 62666),

Gene: SilverBell_85 Start: 63378, Stop: 62995, Start Num: 23
Candidate Starts for SilverBell_85:
(Start: 23 @63378 has 34 MA's), (Start: 46 @63297 has 251 MA's), (56, 63228), (60, 63180), (63, 63159), (74, 63120),

Gene: Simielle_83 Start: 62829, Stop: 62527, Start Num: 46
Candidate Starts for Simielle_83:
(Start: 23 @62910 has 34 MA's), (Start: 46 @62829 has 251 MA's), (60, 62712), (63, 62691), (74, 62652),

Gene: SirBeauregard_85 Start: 63409, Stop: 63107, Start Num: 46
Candidate Starts for SirBeauregard_85:
(Start: 23 @63490 has 34 MA's), (Start: 46 @63409 has 251 MA's), (56, 63340), (60, 63292), (63, 63271), (74, 63232),

Gene: Skippy_85 Start: 63257, Stop: 62955, Start Num: 46
Candidate Starts for Skippy_85:
(Start: 23 @63338 has 34 MA's), (Start: 46 @63257 has 251 MA's), (60, 63140), (63, 63119), (74, 63080),

Gene: Slatt_84 Start: 63144, Stop: 62842, Start Num: 46
Candidate Starts for Slatt_84:
(Start: 23 @63225 has 34 MA's), (Start: 46 @63144 has 251 MA's), (60, 63027), (63, 63006), (74, 62967),

Gene: SlippinJimmy_83 Start: 62651, Stop: 62322, Start Num: 50
Candidate Starts for SlippinJimmy_83:
(Start: 50 @62651 has 55 MA's), (60, 62552), (63, 62531), (69, 62510),

Gene: Soile_85 Start: 63382, Stop: 63080, Start Num: 46
Candidate Starts for Soile_85:
(Start: 23 @63463 has 34 MA's), (Start: 46 @63382 has 251 MA's), (60, 63265), (63, 63244), (74, 63205),

Gene: Solosis_82 Start: 62850, Stop: 62548, Start Num: 46
Candidate Starts for Solosis_82:
(Start: 23 @62931 has 34 MA's), (Start: 46 @62850 has 251 MA's), (60, 62733), (63, 62712),

Gene: Sophia_82 Start: 62839, Stop: 62537, Start Num: 46
Candidate Starts for Sophia_82:
(Start: 23 @62920 has 34 MA's), (Start: 46 @62839 has 251 MA's), (63, 62701), (74, 62662),

Gene: Soto_81 Start: 62555, Stop: 62253, Start Num: 46
Candidate Starts for Soto_81:
(Start: 23 @62636 has 34 MA's), (Start: 46 @62555 has 251 MA's), (60, 62438), (63, 62417), (74, 62378),

Gene: Spartan300_83 Start: 63100, Stop: 62798, Start Num: 46
Candidate Starts for Spartan300_83:
(Start: 23 @63181 has 34 MA's), (Start: 46 @63100 has 251 MA's), (60, 62983), (63, 62962), (74, 62923),

Gene: Squid_83 Start: 63129, Stop: 62827, Start Num: 46
Candidate Starts for Squid_83:
(Start: 23 @63210 has 34 MA's), (Start: 46 @63129 has 251 MA's), (60, 63012), (63, 62991), (74, 62952),

Gene: Squiggle_83 Start: 62857, Stop: 62555, Start Num: 46
Candidate Starts for Squiggle_83:
(Start: 23 @62938 has 34 MA's), (Start: 46 @62857 has 251 MA's), (60, 62740), (63, 62719), (74, 62680),

Gene: StinkyVeggy_75 Start: 62138, Stop: 61818, Start Num: 46
Candidate Starts for StinkyVeggy_75:
(30, 62207), (31, 62204), (39, 62162), (Start: 46 @62138 has 251 MA's), (60, 62021), (64, 61997), (71, 61979), (73, 61973), (74, 61961), (82, 61871), (94, 61829),

Gene: Struggle_84 Start: 62955, Stop: 62653, Start Num: 46
Candidate Starts for Struggle_84:
(Start: 23 @63036 has 34 MA's), (Start: 46 @62955 has 251 MA's), (60, 62838), (63, 62817), (74, 62778),

Gene: Suffolk_81 Start: 62932, Stop: 62549, Start Num: 23
Candidate Starts for Suffolk_81:
(Start: 23 @62932 has 34 MA's), (Start: 46 @62851 has 251 MA's), (60, 62734), (63, 62713), (74, 62674),

Gene: Surely_84 Start: 63420, Stop: 63118, Start Num: 46
Candidate Starts for Surely_84:
(Start: 23 @63501 has 34 MA's), (Start: 46 @63420 has 251 MA's), (60, 63303), (63, 63282), (74, 63243),

Gene: SwainyDoc_81 Start: 61650, Stop: 61321, Start Num: 50
Candidate Starts for SwainyDoc_81:
(Start: 50 @61650 has 55 MA's), (60, 61551), (63, 61530), (69, 61509),

Gene: Swiphy_86 Start: 63405, Stop: 63103, Start Num: 46
Candidate Starts for Swiphy_86:
(Start: 23 @63486 has 34 MA's), (Start: 46 @63405 has 251 MA's), (60, 63288), (63, 63267), (74, 63228),

Gene: Swish_85 Start: 63266, Stop: 62964, Start Num: 46
Candidate Starts for Swish_85:
(Start: 23 @63347 has 34 MA's), (Start: 46 @63266 has 251 MA's), (60, 63149), (63, 63128), (74, 63089),

Gene: SynergyX_80 Start: 61278, Stop: 60949, Start Num: 50
Candidate Starts for SynergyX_80:
(Start: 50 @61278 has 55 MA's), (60, 61179), (63, 61158), (69, 61137),

Gene: TPA2_75 Start: 59427, Stop: 59762, Start Num: 42
Candidate Starts for TPA2_75:
(Start: 42 @59427 has 3 MA's), (65, 59565), (70, 59580), (74, 59601), (88, 59709), (95, 59751),

Gene: Talia1610_198 Start: 137685, Stop: 137975, Start Num: 45
Candidate Starts for Talia1610_198:
(35, 137649), (Start: 45 @137685 has 7 MA's), (62, 137802), (77, 137904),

Gene: TallGrassMM_83 Start: 62915, Stop: 62613, Start Num: 46
Candidate Starts for TallGrassMM_83:
(Start: 23 @62996 has 34 MA's), (Start: 46 @62915 has 251 MA's), (60, 62798), (63, 62777),

Gene: Taptic_67 Start: 49153, Stop: 49491, Start Num: 50
Candidate Starts for Taptic_67:
(26, 49072), (Start: 50 @49153 has 55 MA's), (60, 49252), (63, 49273), (72, 49303), (76, 49360), (82, 49411), (92, 49453),

Gene: Taraxa_84 Start: 62746, Stop: 62444, Start Num: 46
Candidate Starts for Taraxa_84:

(Start: 23 @62827 has 34 MA's), (Start: 46 @62746 has 251 MA's), (60, 62629), (63, 62608), (74, 62569),

Gene: Telesworld_82 Start: 62993, Stop: 62691, Start Num: 46

Candidate Starts for Telesworld_82:

(Start: 23 @63074 has 34 MA's), (Start: 46 @62993 has 251 MA's), (56, 62924), (60, 62876), (63, 62855), (74, 62816),

Gene: Thonko_87 Start: 63460, Stop: 63152, Start Num: 46

Candidate Starts for Thonko_87:

(3, 63853), (4, 63850), (6, 63805), (7, 63748), (8, 63745), (12, 63604), (14, 63583), (Start: 46 @63460 has 251 MA's), (58, 63382), (60, 63343), (63, 63322), (79, 63226), (85, 63184),

Gene: Thora_83 Start: 63370, Stop: 63068, Start Num: 46

Candidate Starts for Thora_83:

(Start: 23 @63451 has 34 MA's), (Start: 46 @63370 has 251 MA's), (60, 63253), (63, 63232), (74, 63193),

Gene: ThreeOh3D2_86 Start: 63523, Stop: 63221, Start Num: 46

Candidate Starts for ThreeOh3D2_86:

(Start: 23 @63604 has 34 MA's), (Start: 46 @63523 has 251 MA's), (60, 63406), (63, 63385), (74, 63346),

Gene: Thunderbird_84 Start: 63112, Stop: 62810, Start Num: 46

Candidate Starts for Thunderbird_84:

(Start: 23 @63193 has 34 MA's), (Start: 46 @63112 has 251 MA's), (60, 62995), (63, 62974), (74, 62935),

Gene: Timmi_83 Start: 62886, Stop: 62584, Start Num: 46

Candidate Starts for Timmi_83:

(Start: 23 @62967 has 34 MA's), (Start: 46 @62886 has 251 MA's), (60, 62769), (63, 62748), (74, 62709),

Gene: TinyTerror_81 Start: 61701, Stop: 61372, Start Num: 50

Candidate Starts for TinyTerror_81:

(Start: 50 @61701 has 55 MA's), (60, 61602), (63, 61581), (69, 61560),

Gene: TomBombadil_84 Start: 63413, Stop: 63111, Start Num: 46

Candidate Starts for TomBombadil_84:

(Start: 23 @63494 has 34 MA's), (Start: 46 @63413 has 251 MA's), (60, 63296), (63, 63275), (74, 63236),

Gene: Tomlarah_85 Start: 63720, Stop: 63418, Start Num: 46

Candidate Starts for Tomlarah_85:

(Start: 46 @63720 has 251 MA's), (56, 63651), (60, 63603), (63, 63582), (74, 63543),

Gene: Toni_84 Start: 63397, Stop: 63014, Start Num: 23

Candidate Starts for Toni_84:

(Start: 23 @63397 has 34 MA's), (Start: 46 @63316 has 251 MA's), (60, 63199), (63, 63178), (74, 63139),

Gene: TooFast2Furius_83 Start: 63277, Stop: 62975, Start Num: 46

Candidate Starts for TooFast2Furius_83:

(Start: 23 @63358 has 34 MA's), (Start: 46 @63277 has 251 MA's), (60, 63160), (63, 63139), (74, 63100),

Gene: Tooj_81 Start: 62529, Stop: 62227, Start Num: 46

Candidate Starts for Tooj_81:

(Start: 23 @62610 has 34 MA's), (Start: 46 @62529 has 251 MA's), (56, 62460), (60, 62412), (63, 62391), (74, 62352),

Gene: Triad_86 Start: 62711, Stop: 62409, Start Num: 46

Candidate Starts for Triad_86:

(Start: 23 @62792 has 34 MA's), (Start: 46 @62711 has 251 MA's), (60, 62594), (63, 62573), (74, 62534),

Gene: True_82 Start: 62862, Stop: 62560, Start Num: 46

Candidate Starts for True_82:

(Start: 23 @62943 has 34 MA's), (Start: 46 @62862 has 251 MA's), (60, 62745), (63, 62724), (74, 62685),

Gene: Trypo_85 Start: 63665, Stop: 63282, Start Num: 23

Candidate Starts for Trypo_85:

(Start: 23 @63665 has 34 MA's), (Start: 46 @63584 has 251 MA's), (60, 63467), (63, 63446), (74, 63407),

Gene: Tydolla_76 Start: 61257, Stop: 60928, Start Num: 50

Candidate Starts for Tydolla_76:

(Start: 50 @61257 has 55 MA's), (60, 61158), (63, 61137), (69, 61116),

Gene: TyrionL_84 Start: 62946, Stop: 62644, Start Num: 46

Candidate Starts for TyrionL_84:

(Start: 23 @63027 has 34 MA's), (Start: 46 @62946 has 251 MA's), (60, 62829), (63, 62808), (74, 62769),

Gene: UAch1_85 Start: 63213, Stop: 62911, Start Num: 46

Candidate Starts for UAch1_85:

(Start: 23 @63294 has 34 MA's), (Start: 46 @63213 has 251 MA's), (60, 63096), (63, 63075), (74, 63036),

Gene: UncleHowie_81 Start: 62631, Stop: 62248, Start Num: 23

Candidate Starts for UncleHowie_81:

(Start: 23 @62631 has 34 MA's), (Start: 46 @62550 has 251 MA's), (60, 62433), (63, 62412), (74, 62373),

Gene: Upyo_44 Start: 33729, Stop: 33457, Start Num: 49

Candidate Starts for Upyo_44:

(27, 33810), (29, 33807), (36, 33774), (Start: 49 @33729 has 1 MA's), (58, 33657), (60, 33630), (61, 33627), (75, 33558), (77, 33519),

Gene: Usavi_85 Start: 63710, Stop: 63408, Start Num: 46

Candidate Starts for Usavi_85:

(Start: 23 @63791 has 34 MA's), (Start: 46 @63710 has 251 MA's), (60, 63593), (63, 63572), (74, 63533),

Gene: Vaishali24_85 Start: 63319, Stop: 63017, Start Num: 46

Candidate Starts for Vaishali24_85:

(Start: 23 @63400 has 34 MA's), (Start: 46 @63319 has 251 MA's), (60, 63202), (63, 63181), (74, 63142),

Gene: Valjean_83 Start: 63104, Stop: 62802, Start Num: 46

Candidate Starts for Valjean_83:

(Start: 23 @63185 has 34 MA's), (Start: 46 @63104 has 251 MA's), (60, 62987), (63, 62966), (74, 62927),

Gene: Vaticameos_81 Start: 61419, Stop: 61117, Start Num: 46

Candidate Starts for Vaticameos_81:

(Start: 23 @61500 has 34 MA's), (Start: 46 @61419 has 251 MA's), (60, 61302), (63, 61281), (74, 61242),

Gene: Veritas_83 Start: 63027, Stop: 62725, Start Num: 46

Candidate Starts for Veritas_83:

(Start: 23 @63108 has 34 MA's), (Start: 46 @63027 has 251 MA's), (56, 62958), (60, 62910), (63, 62889), (74, 62850),

Gene: Virapocalypse_85 Start: 63212, Stop: 62910, Start Num: 46

Candidate Starts for Virapocalypse_85:

(Start: 23 @63293 has 34 MA's), (Start: 46 @63212 has 251 MA's), (60, 63095), (63, 63074), (74, 63035),

Gene: Virgeve_82 Start: 62832, Stop: 62530, Start Num: 46

Candidate Starts for Virgeve_82:

(Start: 23 @62913 has 34 MA's), (Start: 46 @62832 has 251 MA's), (60, 62715), (63, 62694), (74, 62655),

Gene: Vista_83 Start: 63026, Stop: 62724, Start Num: 46

Candidate Starts for Vista_83:

(Start: 23 @63107 has 34 MA's), (Start: 46 @63026 has 251 MA's), (56, 62957), (60, 62909), (63, 62888), (74, 62849),

Gene: Vivaldi_84 Start: 63291, Stop: 62989, Start Num: 46

Candidate Starts for Vivaldi_84:

(Start: 23 @63372 has 34 MA's), (Start: 46 @63291 has 251 MA's), (56, 63222), (60, 63174), (63, 63153), (74, 63114),

Gene: Vortex_83 Start: 63213, Stop: 62830, Start Num: 23

Candidate Starts for Vortex_83:

(Start: 23 @63213 has 34 MA's), (Start: 46 @63132 has 251 MA's), (60, 63015), (63, 62994), (74, 62955),

Gene: WaddleDee_185 Start: 139500, Stop: 139844, Start Num: 33

Candidate Starts for WaddleDee_185:

(Start: 33 @139500 has 3 MA's), (77, 139770),

Gene: Wallhey_85 Start: 63133, Stop: 62831, Start Num: 46

Candidate Starts for Wallhey_85:

(Start: 23 @63214 has 34 MA's), (Start: 46 @63133 has 251 MA's), (60, 63016), (63, 62995), (74, 62956),

Gene: Waterdiva_85 Start: 63400, Stop: 63098, Start Num: 46

Candidate Starts for Waterdiva_85:

(Start: 23 @63481 has 34 MA's), (Start: 46 @63400 has 251 MA's), (60, 63283), (63, 63262), (74, 63223),

Gene: Weher20_81 Start: 63470, Stop: 63168, Start Num: 46

Candidate Starts for Weher20_81:

(Start: 23 @63551 has 34 MA's), (Start: 46 @63470 has 251 MA's), (60, 63353), (63, 63332), (74, 63293),

Gene: Windsor_84 Start: 63415, Stop: 63113, Start Num: 46

Candidate Starts for Windsor_84:

(Start: 23 @63496 has 34 MA's), (Start: 46 @63415 has 251 MA's), (60, 63298), (63, 63277), (74, 63238),

Gene: Xavier_84 Start: 63105, Stop: 62722, Start Num: 23

Candidate Starts for Xavier_84:

(Start: 23 @63105 has 34 MA's), (Start: 46 @63024 has 251 MA's), (60, 62907), (63, 62886), (74, 62847),

Gene: Yahalom_78 Start: 61084, Stop: 60755, Start Num: 50

Candidate Starts for Yahalom_78:

(Start: 50 @61084 has 55 MA's), (60, 60985), (63, 60964), (69, 60943),

Gene: Yeshua_78 Start: 57669, Stop: 57370, Start Num: 44

Candidate Starts for Yeshua_78:

(Start: 44 @57669 has 7 MA's), (64, 57537), (70, 57519), (82, 57408),

Gene: Yinz_80 Start: 61149, Stop: 60820, Start Num: 50

Candidate Starts for Yinz_80:

(Start: 50 @61149 has 55 MA's), (60, 61050), (63, 61029), (69, 61008),

Gene: Yoshand_85 Start: 63250, Stop: 62948, Start Num: 46

Candidate Starts for Yoshand_85:

(Start: 23 @63331 has 34 MA's), (Start: 46 @63250 has 251 MA's), (60, 63133), (63, 63112), (74, 63073),

Gene: YouGoGlencoco_84 Start: 63140, Stop: 62838, Start Num: 46

Candidate Starts for YouGoGlencoco_84:

(Start: 23 @63221 has 34 MA's), (Start: 46 @63140 has 251 MA's), (60, 63023), (63, 63002), (74, 62963),

Gene: Zaider_85 Start: 63514, Stop: 63212, Start Num: 46

Candidate Starts for Zaider_85:

(Start: 23 @63595 has 34 MA's), (Start: 46 @63514 has 251 MA's), (60, 63397), (63, 63376), (74, 63337),

Gene: Zelda_84 Start: 63471, Stop: 63169, Start Num: 46

Candidate Starts for Zelda_84:

(Start: 23 @63552 has 34 MA's), (Start: 46 @63471 has 251 MA's), (60, 63354), (63, 63333), (74, 63294),

Gene: Zonia_85 Start: 63662, Stop: 63279, Start Num: 23

Candidate Starts for Zonia_85:

(Start: 23 @63662 has 34 MA's), (Start: 46 @63581 has 251 MA's), (60, 63464), (63, 63443), (74, 63404),

Gene: phiAsp2_75 Start: 57707, Stop: 58057, Start Num: 22

Candidate Starts for phiAsp2_75:

(22, 57707), (51, 57806), (53, 57827), (54, 57833), (55, 57836), (63, 57920), (68, 57932), (71, 57941), (73, 57947),