



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 212249 Report

This analysis was run 02/22/25 on database version 588.

Pham number 212249 has 278 members, 23 are drafts.

Phages represented in each track:

- Track 1 : Nathan_77, Piglet_0076, Khan1_76, Vista_75, ThreeOh3D2_78, ElvisPhasley_82, Matalotodo_75, Iridessa_78, Colbert_74, FluffyNinja_77, OliverWalter_76, DoesntMatter_73, PhatLouie_78, TomBombadil_76, Megatron_77, Cobra_76, Basato_75, Toni_76, Inverness_74, Brilliant_79, KingTut_67, Caspiboi_77, Jesabah_75, MrPhizzler_75, LeiMonet_78, Kimbrough_77, Fozzie_74, Fang_77, Potter_72, LeeLot_75, Zelda_76, Melc17_73, ShiVal_74, AbsoluteMadLad_75, Katniss_78, Pipsqueak_73, FugateOSU_76, Mesmerelda_76, Swish_77, Mutante_77, PinheadLarry_75, Serendipity_76, Lulwa_73, Crownjwl_74, CharlieGBrown_74, Chipette_75, Orwigg_75, Cornbread_76, HSavage_74, LasagnaCat_77, Selr12_77, Keitherie_79, TallGrassMM_75, HighStump_77, Windsor_76, Mesh1_77, Cosmolli16_78, Tooj_73, Vivaldi_76, Frankicide_75, SassyCat97_74, TyrionL_76, Labeouficaum_76, Eremos_75, Mosaic_74, Yoshand_77, Phleuron_74, Gareth_76, Dice_75, YouGoGlencoco_76, Hamish_73, Beaglebox_73, Phareon_74, KlimbOn_75, ABU_75, Spartan300_75, Cher_76, Anderson_78, Buckeye_76, Wallhey_77, CheetO_75, Gwilliam_77, Tomlarah_77, Telesworld_74, Jillium_77, Haimas_74, Kahve_77, Schueller_74, Skippy_77, Pacifista_75, Mana_74, Serpentine_0077, Sophia_74, DelRivs_74, RedMaple_76, Slatt_76, DuchessDung_74, Etaye_75, Daka_78, Swiphy_79, Childish_76, Phunky_74, Lego3393_74, Omniscient_77, Placalicious_75, Surely_76, Mecca_76, Maru_76, Newman_74, Pherdinand_77, Trypo_77, Mulan_75, Rimu_79, Waterdiva_77, Kwadwo_75, Burr_76, Hocus_74, Riggan_77, DaddyDaniels_79, Zaider_77, Bishoperium_76, Adriana_76, GeneCoco_77, Valjean_75, Phamished_76, Schadenfreude_76, Olive_74, Mcshane_75, Roscoe_76, Scrick_75, Giraffe_76, Antonia_75, Olak_75, BlackStallion_77, Weher20_73, Craff_78, Derpp_76, TooFast2Furius_77, Vaishali24_77, Riverton_75, HenryJackson_77, Soile_77, Banjo_73, ProfessorX_74, AltPhacts_74, Gwennie1_72, Morty_77, Prickles_77, JakeO_77, Chunky_76, MelsMeow_75, Squiggle_75, Soto_73, Scoot17C_77, Durga_78
- Track 2 : Emiris_77, LemonSlice_76, Murdoc_73, AngelCake_72, DonSanchon_72, JDog_75, Dingo_73, PhrankReynolds_75, Mag7_74, Xavier_76, Jiraiya_77, Phergie_76, CampRoach_77, Aelin_75, MichaelPhcott_74, Altwerkus_75, Virgeve_74, MRabcd_76, Hartsy_75, Fringe_80, QueenBeane_76, Kailash_74, PhenghisKhan_76, Veritas_75, Manad_75, Plata_75, Coletti_78, Morgushi_74, Chorkpop_77, Solosis_74, True_74, MitKao_76, Timmi_75, Held_74, CamL_76, Puhltonio_74, Thunderbird_76, Lasso_75, Chute_76, Pinkman_76, Daffy_75, UncleHowie_73, Haleema_75, Dati_73, Cornobble_74, Freya_73, Inchworm_77, Samaymay_76, Lopsy_73, BatteryCK_74

- Track 3 : Legolas_77, BlueHusk_77, KingVeVeVe_74, Bluephacebaby_75, FriarPreacher_74, Eugenia_77, KLucky39_74, EmpTee_75, PhrodoBaggins_78, IsaacEli_78, Gyarad_0075, Andre_78, Thora_75, Vaticameos_73, Ashraf_77, Apizium_75, SDcharge11_75, JacAttac_76, LuckyMarjie_73, JangoPhett_74, Chaelin_77, Grand2040_74, Roliet_73, Nyala_75, Harvey_73, Gophee_76, Nacho_0079, Badfish_77, Charles1_77, Pops_74, MiniBoss_73, Dione_74, Kikipoo_78, Nicole21_77, Sheila_72, Chah_78, Hertubise_76, Plmatters_74, Kwksand96_77, Virapocalypse_77, Hetaeria_76, SirBeauregard_77, Megamind20_76, PhatCats2014_77, Iridoclysis_75, Kloppinator_76, Maskar_77, Simielle_75, Squid_75, Longacauda_77, Usavi_77, UAch1_77, Oosterbaan_76, ImtiyazSitla_77, Sigman_76, Zonia_77
- Track 4 : Horchata_73, DirtJuice_76, LostAndPhound_75
- Track 5 : Podrick_75, Magic8_75, Quisquillae_78, Duggie_76, Cannibal_77, SilverBell_77, Phipps_75, Struggle_76, Lumine_77, Numberten_75, Ricotta_76, Orfeu_75
- Track 6 : Carthage_76
- Track 7 : Jiminy_76

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

The start number called the most often in the published annotations is 4, it was called in 254 of the 255 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- ABU_75, AbsoluteMadLad_75, Adriana_76, Aelin_75, AltPhacts_74, Altwerkus_75, Anderson_78, Andre_78, AngelCake_72, Antonia_75, Apizium_75, Ashraf_77, Badfish_77, Banjo_73, Basato_75, BatteryCK_74, Beaglebox_73, Bishoperium_76, BlackStallion_77, BlueHusk_77, Bluephacebaby_75, Brilliant_79, Buckeye_76, Burr_76, CamL_76, CampRoach_77, Cannibal_77, Caspiboi_77, Chaelin_77, Chah_78, Charles1_77, CharlieGBrown_74, CheetO_75, Cher_76, Childish_76, Chipette_75, Chorkpop_77, Chunky_76, Chute_76, Cobra_76, Colbert_74, Coletti_78, Cornbread_76, Cornobble_74, Cosmolli16_78, Craff_78, Crownjwl_74, DaddyDaniels_79, Daffy_75, Daka_78, Dati_73, DelRivs_74, Derpp_76, Dice_75, Dingo_73, Dione_74, DirtJuice_76, DoesntMatter_73, DonSanchon_72, DuchessDung_74, Duggie_76, Durga_78, ElvisPhasley_82, Emiris_77, EmpTee_75, Eremos_75, Etaye_75, Eugenia_77, Fang_77, FluffyNinja_77, Fozzie_74, Frankicide_75, Freya_73, FriarPreacher_74, Fringe_80, FugateOSU_76, Gareth_76, GeneCoco_77, Giraffe_76, Gophee_76, Grand2040_74, Gwennie1_72, Gwilliam_77, Gyarad_0075, HSavage_74, Haimas_74, Haleema_75, Hamish_73, Hartsy_75, Harvey_73, Held_74, HenryJackson_77, Hertubise_76, Hetaeria_76, HighStump_77, Hocus_74, Horchata_73, ImtiyazSitla_77, Inchworm_77, Inverness_74, Iridessa_78, Iridoclysis_75, IsaacEli_78, JDog_75, JacAttac_76, JakeO_77, JangoPhett_74, Jesabah_75, Jillium_77, Jiminy_76, Jiraiya_77, KLucky39_74, Kahve_77, Kailash_74, Katniss_78, Keitherie_79, Khan1_76, Kikipoo_78, Kimbrough_77, KingTut_67, KingVeVeVe_74, KlimbOn_75, Kloppinator_76, Kwadwo_75, Kwksand96_77, Labeouficaum_76, LasagnaCat_77, Lasso_75, LeeLot_75, Lego3393_74, Legolas_77, LeiMonet_78, LemonSlice_76, Longacauda_77, Lopsy_73, LostAndPhound_75, LuckyMarjie_73, Lulwa_73, Lumine_77, MRabcd_76, Mag7_74, Magic8_75, Mana_74, Manad_75, Maru_76, Maskar_77, Matalotodo_75, Mcshane_75, Mecca_76, Megamind20_76, Megatron_77, Melc17_73,

MelsMeow_75, Mesh1_77, Mesmerelda_76, MichaelPhcott_74, MiniBoss_73, MitKao_76, Morgushi_74, Morty_77, Mosaic_74, MrPhizzler_75, Mulan_75, Murdoc_73, Mutante_77, Nacho_0079, Nathan_77, Newman_74, Nicole21_77, Numberben_75, Nyala_75, Olak_75, Olive_74, OliverWalter_76, Omniscient_77, Oosterbaan_76, Orfeu_75, Orwigg_75, Pacifista_75, Phamished_76, Phareon_74, PhatCats2014_77, PhatLouie_78, PhenghisKhan_76, Pherdinand_77, Phergie_76, Phipps_75, Phleuron_74, PhrankReynolds_75, PhrodoBaggins_78, Phunky_74, Piglet_0076, PinheadLarry_75, Pinkman_76, Pipsqueak_73, Placalicious_75, Plata_75, Plmatters_74, Podrick_75, Pops_74, Potter_72, Prickles_77, ProfessorX_74, Puhltonio_74, QueenBeane_76, Quisquilliae_78, RedMaple_76, Ricotta_76, Riggan_77, Rimu_79, Riverton_75, Roliet_73, Roscoe_76, SDcharge11_75, Samaymay_76, SassyCat97_74, Schadenfreude_76, Schueller_74, Scoot17C_77, Scrick_75, Selr12_77, Serendipity_76, Serpentine_0077, Sheila_72, ShiVal_74, Sigman_76, SilverBell_77, Simielle_75, SirBeauregard_77, Skippy_77, Slatt_76, Soile_77, Solosis_74, Sophia_74, Soto_73, Spartan300_75, Squid_75, Squiggle_75, Struggle_76, Surely_76, Swiphy_79, Swish_77, TallGrassMM_75, Telesworld_74, Thora_75, ThreeOh3D2_78, Thunderbird_76, Timmi_75, TomBombadil_76, Tomlarah_77, Toni_76, TooFast2Furius_77, Tooj_73, True_74, Trypo_77, TyrionL_76, UAch1_77, UncleHowie_73, Usavi_77, Vaishali24_77, Valjean_75, Vaticameos_73, Veritas_75, Virapocalypse_77, Virgeve_74, Vista_75, Vivaldi_76, Wallhey_77, Waterdiva_77, Weher20_73, Windsor_76, Xavier_76, Yoshand_77, YouGoGlencoco_76, Zaider_77, Zelda_76, Zonia_77,

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

- Carthage_76,

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

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Summary by start number:

Start 3:

- Found in 4 of 278 (1.4%) of genes in pham
- Manual Annotations of this start: 1 of 255
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Carthage_76 (B1),

Start 4:

- Found in 278 of 278 (100.0%) of genes in pham
- Manual Annotations of this start: 254 of 255
- Called 99.6% of time when present
- Phage (with cluster) where this start called: ABU_75 (B1), AbsoluteMadLad_75 (B1), Adriana_76 (B1), Aelin_75 (B1), AltPhacts_74 (B1), Altwerkus_75 (B1), Anderson_78 (B1), Andre_78 (B1), AngelCake_72 (B1), Antonia_75 (B1), Apizium_75 (B1), Ashraf_77 (B1), Badfish_77 (B1), Banjo_73 (B1), Basato_75 (B1), BatteryCK_74 (B1), Beaglebox_73 (B1), Bishoperium_76 (B1), BlackStallion_77 (B1), BlueHusk_77 (B1), Bluephacebaby_75 (B1), Brilliant_79 (B1), Buckeye_76 (B1), Burr_76 (B1), CamL_76 (B1), CampRoach_77 (B1), Cannibal_77 (B1), Caspiboi_77 (B1), Chaelin_77 (B1), Chah_78 (B1), Charles1_77 (B1), CharlieGBrown_74 (B1), CheetO_75 (B1), Cher_76 (B1), Childish_76 (B1), Chipette_75 (B1), Chorkpop_77 (B1), Chunky_76 (B1), Chute_76 (B1), Cobra_76 (B1), Colbert_74 (B1), Coletti_78 (B1), Cornbread_76 (B1), Cornobble_74 (B1), Cosmolli16_78 (B1), Craff_78 (B1), Crownjwl_74 (B1), DaddyDaniels_79 (B1), Daffy_75 (B1), Daka_78 (B1), Dati_73

(B1), DelRivs_74 (B1), Derpp_76 (B1), Dice_75 (B1), Dingo_73 (B1), Dione_74 (B1), DirtJuice_76 (B1), DoesntMatter_73 (B1), DonSanchon_72 (B1), DuchessDung_74 (B1), Duggie_76 (B1), Durga_78 (B1), ElvisPhasley_82 (B1), Emiris_77 (B1), EmpTee_75 (B1), Eremos_75 (B1), Etaye_75 (B1), Eugenia_77 (B1), Fang_77 (B1), FluffyNinja_77 (B1), Fozzie_74 (B1), Frankicide_75 (B1), Freya_73 (B1), FriarPreacher_74 (B1), Fringe_80 (B1), FugateOSU_76 (B1), Gareth_76 (B1), GeneCoco_77 (B1), Giraffe_76 (B1), Gophee_76 (B1), Grand2040_74 (B1), Gwennie1_72 (B1), Gwilliam_77 (B1), Gyarad_0075 (B1), HSavage_74 (B1), Haimas_74 (B1), Haleema_75 (B1), Hamish_73 (B1), Hartsy_75 (B1), Harvey_73 (B1), Held_74 (B1), HenryJackson_77 (B1), Hertubise_76 (B1), Hetaeria_76 (B1), HighStump_77 (B1), Hocus_74 (B1), Horchata_73 (B1), ImtiyazSitla_77 (B1), Inchworm_77 (B1), Inverness_74 (B1), Iridessa_78 (B1), Iridoclysis_75 (B1), IsaacEli_78 (B1), JDog_75 (B1), JacAttac_76 (B1), JakeO_77 (B1), JangoPhett_74 (B1), Jesabah_75 (B1), Jillium_77 (B1), Jiminy_76 (B1), Jiraiya_77 (B1), KLucky39_74 (B1), Kahve_77 (B1), Kailash_74 (B1), Katniss_78 (B1), Keitherie_79 (B1), Khan1_76 (B1), Kikipoo_78 (B1), Kimbrough_77 (B1), KingTut_67 (B1), KingVeVeVe_74 (B1), KlimbOn_75 (B1), Kloppinator_76 (B1), Kwadwo_75 (B1), Kwksand96_77 (B1), Labeouficaum_76 (B1), LasagnaCat_77 (B1), Lasso_75 (B1), LeeLot_75 (B1), Lego3393_74 (B1), Legolas_77 (B1), LeiMonet_78 (B1), LemonSlice_76 (B1), Longacauda_77 (B1), Lopsy_73 (B1), LostAndPhound_75 (B1), LuckyMarjie_73 (B1), Lulwa_73 (B1), Lumine_77 (B1), MRabcd_76 (B1), Mag7_74 (B1), Magic8_75 (B1), Mana_74 (B1), Manad_75 (B1), Maru_76 (B1), Maskar_77 (B1), Matalotodo_75 (B1), Mcshane_75 (B1), Mecca_76 (B1), Megamind20_76 (B1), Megatron_77 (B1), Melc17_73 (B1), MelsMeow_75 (B1), Mesh1_77 (B1), Mesmerelda_76 (B1), MichaelPhcott_74 (B1), MiniBoss_73 (B1), MitKao_76 (B1), Morgushi_74 (B1), Morty_77 (B1), Mosaic_74 (B1), MrPhizzler_75 (B1), Mulan_75 (B1), Murdoc_73 (B1), Mutante_77 (B1), Nacho_0079 (B1), Nathan_77 (B1), Newman_74 (B1), Nicole21_77 (B1), Numberten_75 (B1), Nyala_75 (B1), Olak_75 (B1), Olive_74 (B1), OliverWalter_76 (B1), Omniscient_77 (B1), Oosterbaan_76 (B1), Orfeu_75 (B1), Orwigg_75 (B1), Pacifista_75 (B1), Phamished_76 (B1), Phareon_74 (B1), PhatCats2014_77 (B1), PhatLouie_78 (B1), PhenghisKhan_76 (B1), Pherdinand_77 (B1), Phergie_76 (B1), Phipps_75 (B1), Phleuron_74 (B1), PhrankReynolds_75 (B1), PhrodoBaggins_78 (B1), Phunky_74 (B1), Piglet_0076 (B1), PinheadLarry_75 (B1), Pinkman_76 (B1), Pipsqueak_73 (B1), Placalicious_75 (B1), Plata_75 (B1), Plmatters_74 (B1), Podrick_75 (B1), Pops_74 (B1), Potter_72 (B1), Prickles_77 (B1), ProfessorX_74 (B1), Puhltonio_74 (B1), QueenBeane_76 (B1), Quisquilliae_78 (B1), RedMaple_76 (B1), Ricotta_76 (B1), Riggan_77 (B1), Rimu_79 (B1), Riverton_75 (B1), Roliet_73 (B1), Roscoe_76 (B1), SDcharge11_75 (B1), Samaymay_76 (B1), SassyCat97_74 (B1), Schadenfreude_76 (B1), Schueller_74 (B1), Scoot17C_77 (B1), Scrick_75 (B1), Selr12_77 (B1), Serendipity_76 (B1), Serpentine_0077 (B1), Sheila_72 (B1), ShiVal_74 (B1), Sigman_76 (B1), SilverBell_77 (B1), Simielle_75 (B1), SirBeauregard_77 (B1), Skippy_77 (B1), Slatt_76 (B1), Soile_77 (B1), Solosis_74 (B1), Sophia_74 (B1), Soto_73 (B1), Spartan300_75 (B1), Squid_75 (B1), Squiggle_75 (B1), Struggle_76 (B1), Surely_76 (B1), Swiphy_79 (B1), Swish_77 (B1), TallGrassMM_75 (B1), Telesworld_74 (B1), Thora_75 (B1), ThreeOh3D2_78 (B1), Thunderbird_76 (B1), Timmi_75 (B1), TomBombadil_76 (B1), Tomlarah_77 (B1), Toni_76 (B1), TooFast2Furius_77 (B1), Tooj_73 (B1), True_74 (B1), Trypo_77 (B1), TyrionL_76 (B1), UAch1_77 (B1), UncleHowie_73 (B1), Usavi_77 (B1), Vaishali24_77 (B1), Valjean_75 (B1), Vaticameos_73 (B1), Veritas_75 (B1), Virapocalypse_77 (B1), Virgeve_74 (B1), Vista_75 (B1), Vivaldi_76 (B1), Wallhey_77 (B1), Waterdiva_77 (B1), Weher20_73 (B1), Windsor_76 (B1), Xavier_76 (B1), Yoshand_77 (B1), YouGoGlencoco_76 (B1), Zaider_77 (B1), Zelda_76 (B1), Zonia_77 (B1),

Summary by clusters:

There is one cluster represented in this pham: B1

Info for manual annotations of cluster B1:

- Start number 3 was manually annotated 1 time for cluster B1.
- Start number 4 was manually annotated 254 times for cluster B1.

Gene Information:

Gene: ABU_75 Start: 60750, Stop: 60986, Start Num: 4

Candidate Starts for ABU_75:

(1, 60657), (Start: 4 @60750 has 254 MA's), (5, 60909), (6, 60912),

Gene: AbsoluteMadLad_75 Start: 60705, Stop: 60941, Start Num: 4

Candidate Starts for AbsoluteMadLad_75:

(1, 60612), (Start: 4 @60705 has 254 MA's), (5, 60864), (6, 60867),

Gene: Adriana_76 Start: 61285, Stop: 61521, Start Num: 4

Candidate Starts for Adriana_76:

(1, 61192), (Start: 4 @61285 has 254 MA's), (5, 61444), (6, 61447),

Gene: Aelin_75 Start: 60228, Stop: 60464, Start Num: 4

Candidate Starts for Aelin_75:

(1, 60132), (Start: 4 @60228 has 254 MA's), (5, 60387), (6, 60390),

Gene: AltPhacts_74 Start: 59793, Stop: 60029, Start Num: 4

Candidate Starts for AltPhacts_74:

(1, 59700), (Start: 4 @59793 has 254 MA's), (5, 59952), (6, 59955),

Gene: Altwerkus_75 Start: 60069, Stop: 60305, Start Num: 4

Candidate Starts for Altwerkus_75:

(1, 59973), (Start: 4 @60069 has 254 MA's), (5, 60228), (6, 60231),

Gene: Anderson_78 Start: 60626, Stop: 60862, Start Num: 4

Candidate Starts for Anderson_78:

(1, 60533), (Start: 4 @60626 has 254 MA's), (5, 60785), (6, 60788),

Gene: Andre_78 Start: 60644, Stop: 60880, Start Num: 4

Candidate Starts for Andre_78:

(1, 60551), (Start: 4 @60644 has 254 MA's),

Gene: AngelCake_72 Start: 60375, Stop: 60611, Start Num: 4

Candidate Starts for AngelCake_72:

(1, 60279), (Start: 4 @60375 has 254 MA's), (5, 60534), (6, 60537),

Gene: Antonia_75 Start: 60272, Stop: 60508, Start Num: 4

Candidate Starts for Antonia_75:

(1, 60179), (Start: 4 @60272 has 254 MA's), (5, 60431), (6, 60434),

Gene: Apizium_75 Start: 59907, Stop: 60143, Start Num: 4
Candidate Starts for Apizium_75:
(1, 59814), (Start: 4 @59907 has 254 MA's),

Gene: Ashraf_77 Start: 60620, Stop: 60856, Start Num: 4
Candidate Starts for Ashraf_77:
(1, 60527), (Start: 4 @60620 has 254 MA's),

Gene: Badfish_77 Start: 60925, Stop: 61161, Start Num: 4
Candidate Starts for Badfish_77:
(1, 60832), (Start: 4 @60925 has 254 MA's),

Gene: Banjo_73 Start: 60214, Stop: 60450, Start Num: 4
Candidate Starts for Banjo_73:
(1, 60121), (Start: 4 @60214 has 254 MA's), (5, 60373), (6, 60376),

Gene: Basato_75 Start: 60487, Stop: 60723, Start Num: 4
Candidate Starts for Basato_75:
(1, 60394), (Start: 4 @60487 has 254 MA's), (5, 60646), (6, 60649),

Gene: BatteryCK_74 Start: 60187, Stop: 60423, Start Num: 4
Candidate Starts for BatteryCK_74:
(1, 60091), (Start: 4 @60187 has 254 MA's), (5, 60346), (6, 60349),

Gene: Beaglebox_73 Start: 60325, Stop: 60561, Start Num: 4
Candidate Starts for Beaglebox_73:
(1, 60232), (Start: 4 @60325 has 254 MA's), (5, 60484), (6, 60487),

Gene: Bishoperium_76 Start: 60766, Stop: 61002, Start Num: 4
Candidate Starts for Bishoperium_76:
(1, 60673), (Start: 4 @60766 has 254 MA's), (5, 60925), (6, 60928),

Gene: BlackStallion_77 Start: 60634, Stop: 60870, Start Num: 4
Candidate Starts for BlackStallion_77:
(1, 60541), (Start: 4 @60634 has 254 MA's), (5, 60793), (6, 60796),

Gene: BlueHusk_77 Start: 60261, Stop: 60497, Start Num: 4
Candidate Starts for BlueHusk_77:
(1, 60168), (Start: 4 @60261 has 254 MA's),

Gene: Bluephacebaby_75 Start: 60799, Stop: 61035, Start Num: 4
Candidate Starts for Bluephacebaby_75:
(1, 60706), (Start: 4 @60799 has 254 MA's),

Gene: Brilliant_79 Start: 60780, Stop: 61016, Start Num: 4
Candidate Starts for Brilliant_79:
(1, 60687), (Start: 4 @60780 has 254 MA's), (5, 60939), (6, 60942),

Gene: Buckeye_76 Start: 61313, Stop: 61549, Start Num: 4
Candidate Starts for Buckeye_76:
(1, 61220), (Start: 4 @61313 has 254 MA's), (5, 61472), (6, 61475),

Gene: Burr_76 Start: 60232, Stop: 60468, Start Num: 4

Candidate Starts for Burr_76:

(1, 60139), (Start: 4 @60232 has 254 MA's), (5, 60391), (6, 60394),

Gene: CamL_76 Start: 60540, Stop: 60776, Start Num: 4

Candidate Starts for CamL_76:

(1, 60444), (Start: 4 @60540 has 254 MA's), (5, 60699), (6, 60702),

Gene: CampRoach_77 Start: 60647, Stop: 60883, Start Num: 4

Candidate Starts for CampRoach_77:

(1, 60551), (Start: 4 @60647 has 254 MA's), (5, 60806), (6, 60809),

Gene: Cannibal_77 Start: 60653, Stop: 60889, Start Num: 4

Candidate Starts for Cannibal_77:

(1, 60557), (Start: 4 @60653 has 254 MA's),

Gene: Carthage_76 Start: 60068, Stop: 60358, Start Num: 3

Candidate Starts for Carthage_76:

(1, 60026), (Start: 3 @60068 has 1 MA's), (Start: 4 @60122 has 254 MA's), (5, 60281), (6, 60284),

Gene: Caspiboi_77 Start: 60486, Stop: 60722, Start Num: 4

Candidate Starts for Caspiboi_77:

(1, 60393), (Start: 4 @60486 has 254 MA's), (5, 60645), (6, 60648),

Gene: Chaelin_77 Start: 60780, Stop: 61016, Start Num: 4

Candidate Starts for Chaelin_77:

(1, 60687), (Start: 4 @60780 has 254 MA's),

Gene: Chah_78 Start: 60368, Stop: 60604, Start Num: 4

Candidate Starts for Chah_78:

(1, 60275), (Start: 4 @60368 has 254 MA's),

Gene: Charles1_77 Start: 60555, Stop: 60791, Start Num: 4

Candidate Starts for Charles1_77:

(1, 60462), (Start: 4 @60555 has 254 MA's),

Gene: CharlieGBrown_74 Start: 60162, Stop: 60398, Start Num: 4

Candidate Starts for CharlieGBrown_74:

(1, 60069), (Start: 4 @60162 has 254 MA's), (5, 60321), (6, 60324),

Gene: CheetO_75 Start: 60482, Stop: 60718, Start Num: 4

Candidate Starts for CheetO_75:

(1, 60389), (Start: 4 @60482 has 254 MA's), (5, 60641), (6, 60644),

Gene: Cher_76 Start: 60743, Stop: 60979, Start Num: 4

Candidate Starts for Cher_76:

(1, 60650), (Start: 4 @60743 has 254 MA's), (5, 60902), (6, 60905),

Gene: Childish_76 Start: 60944, Stop: 61180, Start Num: 4

Candidate Starts for Childish_76:

(1, 60851), (Start: 4 @60944 has 254 MA's), (5, 61103), (6, 61106),

Gene: Chipette_75 Start: 60481, Stop: 60717, Start Num: 4

Candidate Starts for Chipette_75:

(1, 60388), (Start: 4 @60481 has 254 MA's), (5, 60640), (6, 60643),

Gene: Chorkpop_77 Start: 60407, Stop: 60643, Start Num: 4

Candidate Starts for Chorkpop_77:

(1, 60311), (Start: 4 @60407 has 254 MA's), (5, 60566), (6, 60569),

Gene: Chunky_76 Start: 60078, Stop: 60314, Start Num: 4

Candidate Starts for Chunky_76:

(1, 59985), (Start: 4 @60078 has 254 MA's), (5, 60237), (6, 60240),

Gene: Chute_76 Start: 60799, Stop: 61029, Start Num: 4

Candidate Starts for Chute_76:

(1, 60703), (Start: 4 @60799 has 254 MA's), (5, 60958), (6, 60961),

Gene: Cobra_76 Start: 60777, Stop: 61013, Start Num: 4

Candidate Starts for Cobra_76:

(1, 60684), (Start: 4 @60777 has 254 MA's), (5, 60936), (6, 60939),

Gene: Colbert_74 Start: 59827, Stop: 60063, Start Num: 4

Candidate Starts for Colbert_74:

(1, 59734), (Start: 4 @59827 has 254 MA's), (5, 59986), (6, 59989),

Gene: Coletti_78 Start: 61302, Stop: 61532, Start Num: 4

Candidate Starts for Coletti_78:

(1, 61206), (Start: 4 @61302 has 254 MA's), (5, 61461), (6, 61464),

Gene: Cornbread_76 Start: 60434, Stop: 60670, Start Num: 4

Candidate Starts for Cornbread_76:

(1, 60341), (Start: 4 @60434 has 254 MA's), (5, 60593), (6, 60596),

Gene: Cornobble_74 Start: 60265, Stop: 60501, Start Num: 4

Candidate Starts for Cornobble_74:

(1, 60169), (Start: 4 @60265 has 254 MA's), (5, 60424), (6, 60427),

Gene: Cosmolli16_78 Start: 61122, Stop: 61358, Start Num: 4

Candidate Starts for Cosmolli16_78:

(1, 61029), (Start: 4 @61122 has 254 MA's), (5, 61281), (6, 61284),

Gene: Craff_78 Start: 61165, Stop: 61401, Start Num: 4

Candidate Starts for Craff_78:

(1, 61072), (Start: 4 @61165 has 254 MA's), (5, 61324), (6, 61327),

Gene: Crownjwl_74 Start: 60257, Stop: 60493, Start Num: 4

Candidate Starts for Crownjwl_74:

(1, 60164), (Start: 4 @60257 has 254 MA's), (5, 60416), (6, 60419),

Gene: DaddyDaniels_79 Start: 60889, Stop: 61125, Start Num: 4

Candidate Starts for DaddyDaniels_79:

(1, 60796), (Start: 4 @60889 has 254 MA's), (5, 61048), (6, 61051),

Gene: Daffy_75 Start: 60392, Stop: 60628, Start Num: 4

Candidate Starts for Daffy_75:

(1, 60296), (Start: 4 @60392 has 254 MA's), (5, 60551), (6, 60554),

Gene: Daka_78 Start: 60750, Stop: 60986, Start Num: 4
Candidate Starts for Daka_78:
(1, 60657), (Start: 4 @60750 has 254 MA's), (5, 60909), (6, 60912),

Gene: Dati_73 Start: 60565, Stop: 60801, Start Num: 4
Candidate Starts for Dati_73:
(1, 60469), (Start: 4 @60565 has 254 MA's), (5, 60724), (6, 60727),

Gene: DelRivs_74 Start: 60205, Stop: 60441, Start Num: 4
Candidate Starts for DelRivs_74:
(1, 60112), (Start: 4 @60205 has 254 MA's), (5, 60364), (6, 60367),

Gene: Derpp_76 Start: 60311, Stop: 60547, Start Num: 4
Candidate Starts for Derpp_76:
(1, 60218), (Start: 4 @60311 has 254 MA's), (5, 60470), (6, 60473),

Gene: Dice_75 Start: 60230, Stop: 60466, Start Num: 4
Candidate Starts for Dice_75:
(1, 60137), (Start: 4 @60230 has 254 MA's), (5, 60389), (6, 60392),

Gene: Dingo_73 Start: 59784, Stop: 60020, Start Num: 4
Candidate Starts for Dingo_73:
(1, 59688), (Start: 4 @59784 has 254 MA's), (5, 59943), (6, 59946),

Gene: Dione_74 Start: 59967, Stop: 60203, Start Num: 4
Candidate Starts for Dione_74:
(1, 59874), (Start: 4 @59967 has 254 MA's),

Gene: DirtJuice_76 Start: 60535, Stop: 60771, Start Num: 4
Candidate Starts for DirtJuice_76:
(1, 60439), (Start: 3 @60481 has 1 MA's), (Start: 4 @60535 has 254 MA's), (5, 60694), (6, 60697),

Gene: DoesntMatter_73 Start: 60254, Stop: 60490, Start Num: 4
Candidate Starts for DoesntMatter_73:
(1, 60161), (Start: 4 @60254 has 254 MA's), (5, 60413), (6, 60416),

Gene: DonSanchon_72 Start: 59915, Stop: 60151, Start Num: 4
Candidate Starts for DonSanchon_72:
(1, 59819), (Start: 4 @59915 has 254 MA's), (5, 60074), (6, 60077),

Gene: DuchessDung_74 Start: 59793, Stop: 60029, Start Num: 4
Candidate Starts for DuchessDung_74:
(1, 59700), (Start: 4 @59793 has 254 MA's), (5, 59952), (6, 59955),

Gene: Duggie_76 Start: 60534, Stop: 60770, Start Num: 4
Candidate Starts for Duggie_76:
(1, 60438), (Start: 4 @60534 has 254 MA's),

Gene: Durga_78 Start: 61014, Stop: 61250, Start Num: 4
Candidate Starts for Durga_78:
(1, 60921), (Start: 4 @61014 has 254 MA's), (5, 61173), (6, 61176),

Gene: ElvisPhasley_82 Start: 61390, Stop: 61626, Start Num: 4
Candidate Starts for ElvisPhasley_82:
(1, 61297), (Start: 4 @61390 has 254 MA's), (5, 61549), (6, 61552),

Gene: Emiris_77 Start: 60926, Stop: 61162, Start Num: 4
Candidate Starts for Emiris_77:
(1, 60830), (Start: 4 @60926 has 254 MA's), (5, 61085), (6, 61088),

Gene: EmpTee_75 Start: 60474, Stop: 60710, Start Num: 4
Candidate Starts for EmpTee_75:
(1, 60381), (Start: 4 @60474 has 254 MA's),

Gene: Eremos_75 Start: 60445, Stop: 60681, Start Num: 4
Candidate Starts for Eremos_75:
(1, 60352), (Start: 4 @60445 has 254 MA's), (5, 60604), (6, 60607),

Gene: Etaye_75 Start: 61105, Stop: 61341, Start Num: 4
Candidate Starts for Etaye_75:
(1, 61012), (Start: 4 @61105 has 254 MA's), (5, 61264), (6, 61267),

Gene: Eugenia_77 Start: 61059, Stop: 61295, Start Num: 4
Candidate Starts for Eugenia_77:
(1, 60966), (Start: 4 @61059 has 254 MA's),

Gene: Fang_77 Start: 60765, Stop: 61001, Start Num: 4
Candidate Starts for Fang_77:
(1, 60672), (Start: 4 @60765 has 254 MA's), (5, 60924), (6, 60927),

Gene: FluffyNinja_77 Start: 60635, Stop: 60871, Start Num: 4
Candidate Starts for FluffyNinja_77:
(1, 60542), (Start: 4 @60635 has 254 MA's), (5, 60794), (6, 60797),

Gene: Fozzie_74 Start: 60962, Stop: 61198, Start Num: 4
Candidate Starts for Fozzie_74:
(1, 60869), (Start: 4 @60962 has 254 MA's), (5, 61121), (6, 61124),

Gene: Frankicide_75 Start: 60444, Stop: 60680, Start Num: 4
Candidate Starts for Frankicide_75:
(1, 60351), (Start: 4 @60444 has 254 MA's), (5, 60603), (6, 60606),

Gene: Freya_73 Start: 59936, Stop: 60172, Start Num: 4
Candidate Starts for Freya_73:
(1, 59840), (Start: 4 @59936 has 254 MA's), (5, 60095), (6, 60098),

Gene: FriarPreacher_74 Start: 60319, Stop: 60555, Start Num: 4
Candidate Starts for FriarPreacher_74:
(1, 60226), (Start: 4 @60319 has 254 MA's),

Gene: Fringe_80 Start: 61114, Stop: 61350, Start Num: 4
Candidate Starts for Fringe_80:
(1, 61018), (Start: 4 @61114 has 254 MA's), (5, 61273), (6, 61276),

Gene: FugateOSU_76 Start: 61257, Stop: 61493, Start Num: 4

Candidate Starts for FugateOSU_76:

(1, 61164), (Start: 4 @61257 has 254 MA's), (5, 61416), (6, 61419),

Gene: Gareth_76 Start: 60765, Stop: 61001, Start Num: 4

Candidate Starts for Gareth_76:

(1, 60672), (Start: 4 @60765 has 254 MA's), (5, 60924), (6, 60927),

Gene: GeneCoco_77 Start: 60927, Stop: 61163, Start Num: 4

Candidate Starts for GeneCoco_77:

(1, 60834), (Start: 4 @60927 has 254 MA's), (5, 61086), (6, 61089),

Gene: Giraffe_76 Start: 60760, Stop: 60996, Start Num: 4

Candidate Starts for Giraffe_76:

(1, 60667), (Start: 4 @60760 has 254 MA's), (5, 60919), (6, 60922),

Gene: Gophee_76 Start: 60757, Stop: 60993, Start Num: 4

Candidate Starts for Gophee_76:

(1, 60664), (Start: 4 @60757 has 254 MA's),

Gene: Grand2040_74 Start: 60735, Stop: 60971, Start Num: 4

Candidate Starts for Grand2040_74:

(1, 60642), (Start: 4 @60735 has 254 MA's),

Gene: Gwennie1_72 Start: 60573, Stop: 60809, Start Num: 4

Candidate Starts for Gwennie1_72:

(1, 60480), (Start: 4 @60573 has 254 MA's), (5, 60732), (6, 60735),

Gene: Gwilliam_77 Start: 61126, Stop: 61362, Start Num: 4

Candidate Starts for Gwilliam_77:

(1, 61033), (Start: 4 @61126 has 254 MA's), (5, 61285), (6, 61288),

Gene: Gyarad_0075 Start: 60082, Stop: 60318, Start Num: 4

Candidate Starts for Gyarad_0075:

(1, 59989), (Start: 4 @60082 has 254 MA's),

Gene: HSavage_74 Start: 60272, Stop: 60508, Start Num: 4

Candidate Starts for HSavage_74:

(1, 60179), (Start: 4 @60272 has 254 MA's), (5, 60431), (6, 60434),

Gene: Haimas_74 Start: 60192, Stop: 60428, Start Num: 4

Candidate Starts for Haimas_74:

(1, 60099), (Start: 4 @60192 has 254 MA's), (5, 60351), (6, 60354),

Gene: Haleema_75 Start: 60306, Stop: 60542, Start Num: 4

Candidate Starts for Haleema_75:

(1, 60210), (Start: 4 @60306 has 254 MA's), (5, 60465), (6, 60468),

Gene: Hamish_73 Start: 60310, Stop: 60546, Start Num: 4

Candidate Starts for Hamish_73:

(1, 60217), (Start: 4 @60310 has 254 MA's), (5, 60469), (6, 60472),

Gene: Hartsy_75 Start: 60421, Stop: 60657, Start Num: 4

Candidate Starts for Hartsy_75:

(1, 60325), (Start: 4 @60421 has 254 MA's), (5, 60580), (6, 60583),

Gene: Harvey_73 Start: 60218, Stop: 60454, Start Num: 4

Candidate Starts for Harvey_73:

(1, 60125), (Start: 4 @60218 has 254 MA's),

Gene: Held_74 Start: 60213, Stop: 60449, Start Num: 4

Candidate Starts for Held_74:

(1, 60117), (Start: 4 @60213 has 254 MA's), (5, 60372), (6, 60375),

Gene: HenryJackson_77 Start: 60933, Stop: 61169, Start Num: 4

Candidate Starts for HenryJackson_77:

(1, 60840), (Start: 4 @60933 has 254 MA's), (5, 61092), (6, 61095),

Gene: Hertubise_76 Start: 60699, Stop: 60935, Start Num: 4

Candidate Starts for Hertubise_76:

(1, 60606), (Start: 4 @60699 has 254 MA's),

Gene: Hetaeria_76 Start: 60582, Stop: 60818, Start Num: 4

Candidate Starts for Hetaeria_76:

(1, 60489), (Start: 4 @60582 has 254 MA's),

Gene: HighStump_77 Start: 60718, Stop: 60954, Start Num: 4

Candidate Starts for HighStump_77:

(1, 60625), (Start: 4 @60718 has 254 MA's), (5, 60877), (6, 60880),

Gene: Hocus_74 Start: 60234, Stop: 60470, Start Num: 4

Candidate Starts for Hocus_74:

(1, 60141), (Start: 4 @60234 has 254 MA's), (5, 60393), (6, 60396),

Gene: Horchata_73 Start: 60231, Stop: 60467, Start Num: 4

Candidate Starts for Horchata_73:

(1, 60135), (Start: 3 @60177 has 1 MA's), (Start: 4 @60231 has 254 MA's), (5, 60390), (6, 60393),

Gene: ImtiyazSitla_77 Start: 60620, Stop: 60856, Start Num: 4

Candidate Starts for ImtiyazSitla_77:

(1, 60527), (Start: 4 @60620 has 254 MA's),

Gene: Inchworm_77 Start: 60607, Stop: 60843, Start Num: 4

Candidate Starts for Inchworm_77:

(1, 60511), (Start: 4 @60607 has 254 MA's), (5, 60766), (6, 60769),

Gene: Inverness_74 Start: 60234, Stop: 60470, Start Num: 4

Candidate Starts for Inverness_74:

(1, 60141), (Start: 4 @60234 has 254 MA's), (5, 60393), (6, 60396),

Gene: Iridessa_78 Start: 60349, Stop: 60585, Start Num: 4

Candidate Starts for Iridessa_78:

(1, 60256), (Start: 4 @60349 has 254 MA's), (5, 60508), (6, 60511),

Gene: Iridoclysis_75 Start: 60518, Stop: 60754, Start Num: 4

Candidate Starts for Iridoclysis_75:

(1, 60425), (Start: 4 @60518 has 254 MA's),

Gene: IsaacEli_78 Start: 60865, Stop: 61101, Start Num: 4

Candidate Starts for IsaacEli_78:

(1, 60772), (Start: 4 @60865 has 254 MA's),

Gene: JDog_75 Start: 60757, Stop: 60993, Start Num: 4

Candidate Starts for JDog_75:

(1, 60661), (Start: 4 @60757 has 254 MA's), (5, 60916), (6, 60919),

Gene: JacAttac_76 Start: 60231, Stop: 60467, Start Num: 4

Candidate Starts for JacAttac_76:

(1, 60138), (Start: 4 @60231 has 254 MA's),

Gene: JakeO_77 Start: 60482, Stop: 60718, Start Num: 4

Candidate Starts for JakeO_77:

(1, 60389), (Start: 4 @60482 has 254 MA's), (5, 60641), (6, 60644),

Gene: JangoPhett_74 Start: 60572, Stop: 60808, Start Num: 4

Candidate Starts for JangoPhett_74:

(1, 60479), (Start: 4 @60572 has 254 MA's),

Gene: Jesabah_75 Start: 61337, Stop: 61573, Start Num: 4

Candidate Starts for Jesabah_75:

(1, 61244), (Start: 4 @61337 has 254 MA's), (5, 61496), (6, 61499),

Gene: Jillium_77 Start: 60925, Stop: 61161, Start Num: 4

Candidate Starts for Jillium_77:

(1, 60832), (Start: 4 @60925 has 254 MA's), (5, 61084), (6, 61087),

Gene: Jiminy_76 Start: 60312, Stop: 60548, Start Num: 4

Candidate Starts for Jiminy_76:

(1, 60219), (2, 60234), (Start: 4 @60312 has 254 MA's), (5, 60471), (6, 60474),

Gene: Jiraiya_77 Start: 60517, Stop: 60753, Start Num: 4

Candidate Starts for Jiraiya_77:

(1, 60421), (Start: 4 @60517 has 254 MA's), (5, 60676), (6, 60679),

Gene: KLucky39_74 Start: 60121, Stop: 60357, Start Num: 4

Candidate Starts for KLucky39_74:

(1, 60028), (Start: 4 @60121 has 254 MA's),

Gene: Kahve_77 Start: 60930, Stop: 61166, Start Num: 4

Candidate Starts for Kahve_77:

(1, 60837), (Start: 4 @60930 has 254 MA's), (5, 61089), (6, 61092),

Gene: Kailash_74 Start: 60631, Stop: 60867, Start Num: 4

Candidate Starts for Kailash_74:

(1, 60535), (Start: 4 @60631 has 254 MA's), (5, 60790), (6, 60793),

Gene: Katniss_78 Start: 60367, Stop: 60603, Start Num: 4

Candidate Starts for Katniss_78:

(1, 60274), (Start: 4 @60367 has 254 MA's), (5, 60526), (6, 60529),

Gene: Keitherie_79 Start: 60989, Stop: 61225, Start Num: 4
Candidate Starts for Keitherie_79:
(1, 60896), (Start: 4 @60989 has 254 MA's), (5, 61148), (6, 61151),

Gene: Khan1_76 Start: 60709, Stop: 60945, Start Num: 4
Candidate Starts for Khan1_76:
(1, 60616), (Start: 4 @60709 has 254 MA's), (5, 60868), (6, 60871),

Gene: Kikipoo_78 Start: 60865, Stop: 61101, Start Num: 4
Candidate Starts for Kikipoo_78:
(1, 60772), (Start: 4 @60865 has 254 MA's),

Gene: Kimbrough_77 Start: 60810, Stop: 61046, Start Num: 4
Candidate Starts for Kimbrough_77:
(1, 60717), (Start: 4 @60810 has 254 MA's), (5, 60969), (6, 60972),

Gene: KingTut_67 Start: 56977, Stop: 57213, Start Num: 4
Candidate Starts for KingTut_67:
(1, 56884), (Start: 4 @56977 has 254 MA's), (5, 57136), (6, 57139),

Gene: KingVeVeVe_74 Start: 59771, Stop: 60007, Start Num: 4
Candidate Starts for KingVeVeVe_74:
(1, 59678), (Start: 4 @59771 has 254 MA's),

Gene: KlimbOn_75 Start: 60245, Stop: 60481, Start Num: 4
Candidate Starts for KlimbOn_75:
(1, 60152), (Start: 4 @60245 has 254 MA's), (5, 60404), (6, 60407),

Gene: Kloppinator_76 Start: 60402, Stop: 60638, Start Num: 4
Candidate Starts for Kloppinator_76:
(1, 60309), (Start: 4 @60402 has 254 MA's),

Gene: Kwadwo_75 Start: 60237, Stop: 60473, Start Num: 4
Candidate Starts for Kwadwo_75:
(1, 60144), (Start: 4 @60237 has 254 MA's), (5, 60396), (6, 60399),

Gene: Kwksand96_77 Start: 60501, Stop: 60737, Start Num: 4
Candidate Starts for Kwksand96_77:
(1, 60408), (Start: 4 @60501 has 254 MA's),

Gene: Labeouficaum_76 Start: 60311, Stop: 60547, Start Num: 4
Candidate Starts for Labeouficaum_76:
(1, 60218), (Start: 4 @60311 has 254 MA's), (5, 60470), (6, 60473),

Gene: LasagnaCat_77 Start: 60616, Stop: 60852, Start Num: 4
Candidate Starts for LasagnaCat_77:
(1, 60523), (Start: 4 @60616 has 254 MA's), (5, 60775), (6, 60778),

Gene: Lasso_75 Start: 60467, Stop: 60703, Start Num: 4
Candidate Starts for Lasso_75:
(1, 60371), (Start: 4 @60467 has 254 MA's), (5, 60626), (6, 60629),

Gene: LeeLot_75 Start: 60820, Stop: 61056, Start Num: 4

Candidate Starts for LeeLot_75:

(1, 60727), (Start: 4 @60820 has 254 MA's), (5, 60979), (6, 60982),

Gene: Lego3393_74 Start: 60937, Stop: 61173, Start Num: 4

Candidate Starts for Lego3393_74:

(1, 60844), (Start: 4 @60937 has 254 MA's), (5, 61096), (6, 61099),

Gene: Legolas_77 Start: 60559, Stop: 60795, Start Num: 4

Candidate Starts for Legolas_77:

(1, 60466), (Start: 4 @60559 has 254 MA's),

Gene: LeiMonet_78 Start: 60697, Stop: 60933, Start Num: 4

Candidate Starts for LeiMonet_78:

(1, 60604), (Start: 4 @60697 has 254 MA's), (5, 60856), (6, 60859),

Gene: LemonSlice_76 Start: 60214, Stop: 60450, Start Num: 4

Candidate Starts for LemonSlice_76:

(1, 60118), (Start: 4 @60214 has 254 MA's), (5, 60373), (6, 60376),

Gene: Longacauda_77 Start: 60594, Stop: 60830, Start Num: 4

Candidate Starts for Longacauda_77:

(1, 60501), (Start: 4 @60594 has 254 MA's),

Gene: Lopsy_73 Start: 59921, Stop: 60157, Start Num: 4

Candidate Starts for Lopsy_73:

(1, 59825), (Start: 4 @59921 has 254 MA's), (5, 60080), (6, 60083),

Gene: LostAndPhound_75 Start: 60767, Stop: 61003, Start Num: 4

Candidate Starts for LostAndPhound_75:

(1, 60671), (Start: 3 @60713 has 1 MA's), (Start: 4 @60767 has 254 MA's), (5, 60926), (6, 60929),

Gene: LuckyMarjie_73 Start: 59976, Stop: 60212, Start Num: 4

Candidate Starts for LuckyMarjie_73:

(1, 59883), (Start: 4 @59976 has 254 MA's),

Gene: Lulwa_73 Start: 59588, Stop: 59824, Start Num: 4

Candidate Starts for Lulwa_73:

(1, 59495), (Start: 4 @59588 has 254 MA's), (5, 59747), (6, 59750),

Gene: Lumine_77 Start: 60414, Stop: 60650, Start Num: 4

Candidate Starts for Lumine_77:

(1, 60318), (Start: 4 @60414 has 254 MA's),

Gene: MRabcd_76 Start: 60692, Stop: 60928, Start Num: 4

Candidate Starts for MRabcd_76:

(1, 60596), (Start: 4 @60692 has 254 MA's), (5, 60851), (6, 60854),

Gene: Mag7_74 Start: 60175, Stop: 60411, Start Num: 4

Candidate Starts for Mag7_74:

(1, 60079), (Start: 4 @60175 has 254 MA's), (5, 60334), (6, 60337),

Gene: Magic8_75 Start: 60539, Stop: 60775, Start Num: 4

Candidate Starts for Magic8_75:

(1, 60443), (Start: 4 @60539 has 254 MA's),

Gene: Mana_74 Start: 60380, Stop: 60616, Start Num: 4

Candidate Starts for Mana_74:

(1, 60287), (Start: 4 @60380 has 254 MA's), (5, 60539), (6, 60542),

Gene: Manad_75 Start: 60509, Stop: 60745, Start Num: 4

Candidate Starts for Manad_75:

(1, 60413), (Start: 4 @60509 has 254 MA's), (5, 60668), (6, 60671),

Gene: Maru_76 Start: 60819, Stop: 61055, Start Num: 4

Candidate Starts for Maru_76:

(1, 60726), (Start: 4 @60819 has 254 MA's), (5, 60978), (6, 60981),

Gene: Maskar_77 Start: 60620, Stop: 60856, Start Num: 4

Candidate Starts for Maskar_77:

(1, 60527), (Start: 4 @60620 has 254 MA's),

Gene: Matalotodo_75 Start: 61219, Stop: 61455, Start Num: 4

Candidate Starts for Matalotodo_75:

(1, 61126), (Start: 4 @61219 has 254 MA's), (5, 61378), (6, 61381),

Gene: Mcshane_75 Start: 60238, Stop: 60474, Start Num: 4

Candidate Starts for Mcshane_75:

(1, 60145), (Start: 4 @60238 has 254 MA's), (5, 60397), (6, 60400),

Gene: Mecca_76 Start: 60791, Stop: 61027, Start Num: 4

Candidate Starts for Mecca_76:

(1, 60698), (Start: 4 @60791 has 254 MA's), (5, 60950), (6, 60953),

Gene: Megamind20_76 Start: 60220, Stop: 60456, Start Num: 4

Candidate Starts for Megamind20_76:

(1, 60127), (Start: 4 @60220 has 254 MA's),

Gene: Megatron_77 Start: 60909, Stop: 61145, Start Num: 4

Candidate Starts for Megatron_77:

(1, 60816), (Start: 4 @60909 has 254 MA's), (5, 61068), (6, 61071),

Gene: Melc17_73 Start: 60847, Stop: 61083, Start Num: 4

Candidate Starts for Melc17_73:

(1, 60754), (Start: 4 @60847 has 254 MA's), (5, 61006), (6, 61009),

Gene: MelsMeow_75 Start: 60499, Stop: 60735, Start Num: 4

Candidate Starts for MelsMeow_75:

(1, 60406), (Start: 4 @60499 has 254 MA's), (5, 60658), (6, 60661),

Gene: Mesh1_77 Start: 60955, Stop: 61191, Start Num: 4

Candidate Starts for Mesh1_77:

(1, 60862), (Start: 4 @60955 has 254 MA's), (5, 61114), (6, 61117),

Gene: Mesmerelda_76 Start: 60790, Stop: 61026, Start Num: 4

Candidate Starts for Mesmerelda_76:

(1, 60697), (Start: 4 @60790 has 254 MA's), (5, 60949), (6, 60952),

Gene: MichaelPhcott_74 Start: 60172, Stop: 60408, Start Num: 4
Candidate Starts for MichaelPhcott_74:
(1, 60076), (Start: 4 @60172 has 254 MA's), (5, 60331), (6, 60334),

Gene: MiniBoss_73 Start: 59544, Stop: 59780, Start Num: 4
Candidate Starts for MiniBoss_73:
(1, 59451), (Start: 4 @59544 has 254 MA's),

Gene: MitKao_76 Start: 60392, Stop: 60628, Start Num: 4
Candidate Starts for MitKao_76:
(1, 60296), (Start: 4 @60392 has 254 MA's), (5, 60551), (6, 60554),

Gene: Morgushi_74 Start: 60207, Stop: 60443, Start Num: 4
Candidate Starts for Morgushi_74:
(1, 60111), (Start: 4 @60207 has 254 MA's), (5, 60366), (6, 60369),

Gene: Morty_77 Start: 60800, Stop: 61036, Start Num: 4
Candidate Starts for Morty_77:
(1, 60707), (Start: 4 @60800 has 254 MA's), (5, 60959), (6, 60962),

Gene: Mosaic_74 Start: 60384, Stop: 60620, Start Num: 4
Candidate Starts for Mosaic_74:
(1, 60291), (Start: 4 @60384 has 254 MA's), (5, 60543), (6, 60546),

Gene: MrPhizzler_75 Start: 60686, Stop: 60922, Start Num: 4
Candidate Starts for MrPhizzler_75:
(1, 60593), (Start: 4 @60686 has 254 MA's), (5, 60845), (6, 60848),

Gene: Mulan_75 Start: 60432, Stop: 60668, Start Num: 4
Candidate Starts for Mulan_75:
(1, 60339), (Start: 4 @60432 has 254 MA's), (5, 60591), (6, 60594),

Gene: Murdoc_73 Start: 60496, Stop: 60732, Start Num: 4
Candidate Starts for Murdoc_73:
(1, 60400), (Start: 4 @60496 has 254 MA's), (5, 60655), (6, 60658),

Gene: Mutante_77 Start: 60394, Stop: 60630, Start Num: 4
Candidate Starts for Mutante_77:
(1, 60301), (Start: 4 @60394 has 254 MA's), (5, 60553), (6, 60556),

Gene: Nacho_0079 Start: 61291, Stop: 61527, Start Num: 4
Candidate Starts for Nacho_0079:
(1, 61198), (Start: 4 @61291 has 254 MA's),

Gene: Nathan_77 Start: 60749, Stop: 60985, Start Num: 4
Candidate Starts for Nathan_77:
(1, 60656), (Start: 4 @60749 has 254 MA's), (5, 60908), (6, 60911),

Gene: Newman_74 Start: 60568, Stop: 60804, Start Num: 4
Candidate Starts for Newman_74:
(1, 60475), (Start: 4 @60568 has 254 MA's), (5, 60727), (6, 60730),

Gene: Nicole21_77 Start: 60527, Stop: 60763, Start Num: 4
Candidate Starts for Nicole21_77:
(1, 60434), (Start: 4 @60527 has 254 MA's),

Gene: Numberten_75 Start: 60506, Stop: 60742, Start Num: 4
Candidate Starts for Numberten_75:
(1, 60410), (Start: 4 @60506 has 254 MA's),

Gene: Nyala_75 Start: 60245, Stop: 60481, Start Num: 4
Candidate Starts for Nyala_75:
(1, 60152), (Start: 4 @60245 has 254 MA's),

Gene: Olak_75 Start: 60398, Stop: 60634, Start Num: 4
Candidate Starts for Olak_75:
(1, 60305), (Start: 4 @60398 has 254 MA's), (5, 60557), (6, 60560),

Gene: Olive_74 Start: 60464, Stop: 60700, Start Num: 4
Candidate Starts for Olive_74:
(1, 60371), (Start: 4 @60464 has 254 MA's), (5, 60623), (6, 60626),

Gene: OliverWalter_76 Start: 60717, Stop: 60953, Start Num: 4
Candidate Starts for OliverWalter_76:
(1, 60624), (Start: 4 @60717 has 254 MA's), (5, 60876), (6, 60879),

Gene: Omniscient_77 Start: 61099, Stop: 61335, Start Num: 4
Candidate Starts for Omniscient_77:
(1, 61006), (Start: 4 @61099 has 254 MA's), (5, 61258), (6, 61261),

Gene: Oosterbaan_76 Start: 60635, Stop: 60871, Start Num: 4
Candidate Starts for Oosterbaan_76:
(1, 60542), (Start: 4 @60635 has 254 MA's),

Gene: Orfeu_75 Start: 60757, Stop: 60993, Start Num: 4
Candidate Starts for Orfeu_75:
(1, 60661), (Start: 4 @60757 has 254 MA's),

Gene: Orwigg_75 Start: 60184, Stop: 60420, Start Num: 4
Candidate Starts for Orwigg_75:
(1, 60091), (Start: 4 @60184 has 254 MA's), (5, 60343), (6, 60346),

Gene: Pacifista_75 Start: 60246, Stop: 60482, Start Num: 4
Candidate Starts for Pacifista_75:
(1, 60153), (Start: 4 @60246 has 254 MA's), (5, 60405), (6, 60408),

Gene: Phamished_76 Start: 60415, Stop: 60651, Start Num: 4
Candidate Starts for Phamished_76:
(1, 60322), (Start: 4 @60415 has 254 MA's), (5, 60574), (6, 60577),

Gene: Phareon_74 Start: 59935, Stop: 60171, Start Num: 4
Candidate Starts for Phareon_74:
(1, 59842), (Start: 4 @59935 has 254 MA's), (5, 60094), (6, 60097),

Gene: PhatCats2014_77 Start: 60921, Stop: 61157, Start Num: 4

Candidate Starts for PhatCats2014_77:
(1, 60828), (Start: 4 @60921 has 254 MA's),

Gene: PhatLouie_78 Start: 60769, Stop: 61005, Start Num: 4
Candidate Starts for PhatLouie_78:
(1, 60676), (Start: 4 @60769 has 254 MA's), (5, 60928), (6, 60931),

Gene: PhenghisKhan_76 Start: 60389, Stop: 60625, Start Num: 4
Candidate Starts for PhenghisKhan_76:
(1, 60293), (Start: 4 @60389 has 254 MA's), (5, 60548), (6, 60551),

Gene: Pherdinand_77 Start: 60637, Stop: 60873, Start Num: 4
Candidate Starts for Pherdinand_77:
(1, 60544), (Start: 4 @60637 has 254 MA's), (5, 60796), (6, 60799),

Gene: Phergie_76 Start: 60381, Stop: 60617, Start Num: 4
Candidate Starts for Phergie_76:
(1, 60285), (Start: 4 @60381 has 254 MA's), (5, 60540), (6, 60543),

Gene: Phipps_75 Start: 60471, Stop: 60707, Start Num: 4
Candidate Starts for Phipps_75:
(1, 60375), (Start: 4 @60471 has 254 MA's),

Gene: Phleuron_74 Start: 60205, Stop: 60441, Start Num: 4
Candidate Starts for Phleuron_74:
(1, 60112), (Start: 4 @60205 has 254 MA's), (5, 60364), (6, 60367),

Gene: PhrankReynolds_75 Start: 60386, Stop: 60622, Start Num: 4
Candidate Starts for PhrankReynolds_75:
(1, 60290), (Start: 4 @60386 has 254 MA's), (5, 60545), (6, 60548),

Gene: PhrodoBaggins_78 Start: 60777, Stop: 61013, Start Num: 4
Candidate Starts for PhrodoBaggins_78:
(1, 60684), (Start: 4 @60777 has 254 MA's),

Gene: Phunky_74 Start: 60268, Stop: 60504, Start Num: 4
Candidate Starts for Phunky_74:
(1, 60175), (Start: 4 @60268 has 254 MA's), (5, 60427), (6, 60430),

Gene: Piglet_0076 Start: 60893, Stop: 61129, Start Num: 4
Candidate Starts for Piglet_0076:
(1, 60800), (Start: 4 @60893 has 254 MA's), (5, 61052), (6, 61055),

Gene: PinheadLarry_75 Start: 60544, Stop: 60780, Start Num: 4
Candidate Starts for PinheadLarry_75:
(1, 60451), (Start: 4 @60544 has 254 MA's), (5, 60703), (6, 60706),

Gene: Pinkman_76 Start: 60495, Stop: 60731, Start Num: 4
Candidate Starts for Pinkman_76:
(1, 60399), (Start: 4 @60495 has 254 MA's), (5, 60654), (6, 60657),

Gene: Pipsqueak_73 Start: 60224, Stop: 60460, Start Num: 4
Candidate Starts for Pipsqueak_73:

(1, 60131), (Start: 4 @60224 has 254 MA's), (5, 60383), (6, 60386),

Gene: Placalicious_75 Start: 61259, Stop: 61495, Start Num: 4

Candidate Starts for Placalicious_75:

(1, 61166), (Start: 4 @61259 has 254 MA's), (5, 61418), (6, 61421),

Gene: Plata_75 Start: 60483, Stop: 60719, Start Num: 4

Candidate Starts for Plata_75:

(1, 60387), (Start: 4 @60483 has 254 MA's), (5, 60642), (6, 60645),

Gene: Plmatters_74 Start: 60221, Stop: 60457, Start Num: 4

Candidate Starts for Plmatters_74:

(1, 60128), (Start: 4 @60221 has 254 MA's),

Gene: Podrick_75 Start: 60305, Stop: 60541, Start Num: 4

Candidate Starts for Podrick_75:

(1, 60209), (Start: 4 @60305 has 254 MA's),

Gene: Pops_74 Start: 60234, Stop: 60470, Start Num: 4

Candidate Starts for Pops_74:

(1, 60141), (Start: 4 @60234 has 254 MA's),

Gene: Potter_72 Start: 60227, Stop: 60463, Start Num: 4

Candidate Starts for Potter_72:

(1, 60134), (Start: 4 @60227 has 254 MA's), (5, 60386), (6, 60389),

Gene: Prickles_77 Start: 60749, Stop: 60985, Start Num: 4

Candidate Starts for Prickles_77:

(1, 60656), (Start: 4 @60749 has 254 MA's), (5, 60908), (6, 60911),

Gene: ProfessorX_74 Start: 60265, Stop: 60501, Start Num: 4

Candidate Starts for ProfessorX_74:

(1, 60172), (Start: 4 @60265 has 254 MA's), (5, 60424), (6, 60427),

Gene: Puhltonio_74 Start: 60494, Stop: 60730, Start Num: 4

Candidate Starts for Puhltonio_74:

(1, 60398), (Start: 4 @60494 has 254 MA's), (5, 60653), (6, 60656),

Gene: QueenBeane_76 Start: 60540, Stop: 60776, Start Num: 4

Candidate Starts for QueenBeane_76:

(1, 60444), (Start: 4 @60540 has 254 MA's), (5, 60699), (6, 60702),

Gene: Quisquilliae_78 Start: 60561, Stop: 60797, Start Num: 4

Candidate Starts for Quisquilliae_78:

(1, 60465), (Start: 4 @60561 has 254 MA's),

Gene: RedMaple_76 Start: 60988, Stop: 61224, Start Num: 4

Candidate Starts for RedMaple_76:

(1, 60895), (Start: 4 @60988 has 254 MA's), (5, 61147), (6, 61150),

Gene: Ricotta_76 Start: 60231, Stop: 60467, Start Num: 4

Candidate Starts for Ricotta_76:

(1, 60135), (Start: 4 @60231 has 254 MA's),

Gene: Riggan_77 Start: 60557, Stop: 60793, Start Num: 4
Candidate Starts for Riggan_77:
(1, 60464), (Start: 4 @60557 has 254 MA's), (5, 60716), (6, 60719),

Gene: Rimu_79 Start: 60707, Stop: 60943, Start Num: 4
Candidate Starts for Rimu_79:
(1, 60614), (Start: 4 @60707 has 254 MA's), (5, 60866), (6, 60869),

Gene: Riverton_75 Start: 60490, Stop: 60726, Start Num: 4
Candidate Starts for Riverton_75:
(1, 60397), (Start: 4 @60490 has 254 MA's), (5, 60649), (6, 60652),

Gene: Roliet_73 Start: 59592, Stop: 59828, Start Num: 4
Candidate Starts for Roliet_73:
(1, 59499), (Start: 4 @59592 has 254 MA's),

Gene: Roscoe_76 Start: 60677, Stop: 60913, Start Num: 4
Candidate Starts for Roscoe_76:
(1, 60584), (Start: 4 @60677 has 254 MA's), (5, 60836), (6, 60839),

Gene: SDcharge11_75 Start: 59710, Stop: 59946, Start Num: 4
Candidate Starts for SDcharge11_75:
(1, 59617), (Start: 4 @59710 has 254 MA's),

Gene: Samaymay_76 Start: 60540, Stop: 60776, Start Num: 4
Candidate Starts for Samaymay_76:
(1, 60444), (Start: 4 @60540 has 254 MA's), (5, 60699), (6, 60702),

Gene: SassyCat97_74 Start: 60220, Stop: 60456, Start Num: 4
Candidate Starts for SassyCat97_74:
(1, 60127), (Start: 4 @60220 has 254 MA's), (5, 60379), (6, 60382),

Gene: Schadenfreude_76 Start: 60129, Stop: 60365, Start Num: 4
Candidate Starts for Schadenfreude_76:
(1, 60036), (Start: 4 @60129 has 254 MA's), (5, 60288), (6, 60291),

Gene: Schueller_74 Start: 60492, Stop: 60728, Start Num: 4
Candidate Starts for Schueller_74:
(1, 60399), (Start: 4 @60492 has 254 MA's), (5, 60651), (6, 60654),

Gene: Scoot17C_77 Start: 60347, Stop: 60583, Start Num: 4
Candidate Starts for Scoot17C_77:
(1, 60254), (Start: 4 @60347 has 254 MA's), (5, 60506), (6, 60509),

Gene: Scrick_75 Start: 60229, Stop: 60465, Start Num: 4
Candidate Starts for Scrick_75:
(1, 60136), (Start: 4 @60229 has 254 MA's), (5, 60388), (6, 60391),

Gene: Selr12_77 Start: 60274, Stop: 60510, Start Num: 4
Candidate Starts for Selr12_77:
(1, 60181), (Start: 4 @60274 has 254 MA's), (5, 60433), (6, 60436),

Gene: Serendipity_76 Start: 60702, Stop: 60938, Start Num: 4
Candidate Starts for Serendipity_76:
(1, 60609), (Start: 4 @60702 has 254 MA's), (5, 60861), (6, 60864),

Gene: Serpentine_0077 Start: 60785, Stop: 61021, Start Num: 4
Candidate Starts for Serpentine_0077:
(1, 60692), (Start: 4 @60785 has 254 MA's), (5, 60944), (6, 60947),

Gene: Sheila_72 Start: 59623, Stop: 59859, Start Num: 4
Candidate Starts for Sheila_72:
(1, 59530), (Start: 4 @59623 has 254 MA's),

Gene: ShiVal_74 Start: 60257, Stop: 60493, Start Num: 4
Candidate Starts for ShiVal_74:
(1, 60164), (Start: 4 @60257 has 254 MA's), (5, 60416), (6, 60419),

Gene: Sigman_76 Start: 60231, Stop: 60467, Start Num: 4
Candidate Starts for Sigman_76:
(1, 60138), (Start: 4 @60231 has 254 MA's),

Gene: SilverBell_77 Start: 60668, Stop: 60904, Start Num: 4
Candidate Starts for SilverBell_77:
(1, 60572), (Start: 4 @60668 has 254 MA's),

Gene: Simielle_75 Start: 60199, Stop: 60435, Start Num: 4
Candidate Starts for Simielle_75:
(1, 60106), (Start: 4 @60199 has 254 MA's),

Gene: SirBeauregard_77 Start: 60777, Stop: 61013, Start Num: 4
Candidate Starts for SirBeauregard_77:
(1, 60684), (Start: 4 @60777 has 254 MA's),

Gene: Skippy_77 Start: 60626, Stop: 60862, Start Num: 4
Candidate Starts for Skippy_77:
(1, 60533), (Start: 4 @60626 has 254 MA's), (5, 60785), (6, 60788),

Gene: Slatt_76 Start: 60513, Stop: 60749, Start Num: 4
Candidate Starts for Slatt_76:
(1, 60420), (Start: 4 @60513 has 254 MA's), (5, 60672), (6, 60675),

Gene: Soile_77 Start: 60751, Stop: 60987, Start Num: 4
Candidate Starts for Soile_77:
(1, 60658), (Start: 4 @60751 has 254 MA's), (5, 60910), (6, 60913),

Gene: Solosis_74 Start: 60218, Stop: 60454, Start Num: 4
Candidate Starts for Solosis_74:
(1, 60122), (Start: 4 @60218 has 254 MA's), (5, 60377), (6, 60380),

Gene: Sophia_74 Start: 60208, Stop: 60444, Start Num: 4
Candidate Starts for Sophia_74:
(1, 60115), (Start: 4 @60208 has 254 MA's), (5, 60367), (6, 60370),

Gene: Soto_73 Start: 59751, Stop: 59987, Start Num: 4

Candidate Starts for Soto_73:

(1, 59658), (Start: 4 @59751 has 254 MA's), (5, 59910), (6, 59913),

Gene: Spartan300_75 Start: 60469, Stop: 60705, Start Num: 4

Candidate Starts for Spartan300_75:

(1, 60376), (Start: 4 @60469 has 254 MA's), (5, 60628), (6, 60631),

Gene: Squid_75 Start: 60499, Stop: 60735, Start Num: 4

Candidate Starts for Squid_75:

(1, 60406), (Start: 4 @60499 has 254 MA's),

Gene: Squiggle_75 Start: 60224, Stop: 60460, Start Num: 4

Candidate Starts for Squiggle_75:

(1, 60131), (Start: 4 @60224 has 254 MA's), (5, 60383), (6, 60386),

Gene: Struggle_76 Start: 60319, Stop: 60555, Start Num: 4

Candidate Starts for Struggle_76:

(1, 60223), (Start: 4 @60319 has 254 MA's),

Gene: Surely_76 Start: 60789, Stop: 61025, Start Num: 4

Candidate Starts for Surely_76:

(1, 60696), (Start: 4 @60789 has 254 MA's), (5, 60948), (6, 60951),

Gene: Swiphy_79 Start: 60769, Stop: 61005, Start Num: 4

Candidate Starts for Swiphy_79:

(1, 60676), (Start: 4 @60769 has 254 MA's), (5, 60928), (6, 60931),

Gene: Swish_77 Start: 60652, Stop: 60888, Start Num: 4

Candidate Starts for Swish_77:

(1, 60559), (Start: 4 @60652 has 254 MA's), (5, 60811), (6, 60814),

Gene: TallGrassMM_75 Start: 60283, Stop: 60519, Start Num: 4

Candidate Starts for TallGrassMM_75:

(1, 60190), (Start: 4 @60283 has 254 MA's), (5, 60442), (6, 60445),

Gene: Telesworld_74 Start: 60361, Stop: 60597, Start Num: 4

Candidate Starts for Telesworld_74:

(1, 60268), (Start: 4 @60361 has 254 MA's), (5, 60520), (6, 60523),

Gene: Thora_75 Start: 60738, Stop: 60974, Start Num: 4

Candidate Starts for Thora_75:

(1, 60645), (Start: 4 @60738 has 254 MA's),

Gene: ThreeOh3D2_78 Start: 60912, Stop: 61148, Start Num: 4

Candidate Starts for ThreeOh3D2_78:

(1, 60819), (Start: 4 @60912 has 254 MA's), (5, 61071), (6, 61074),

Gene: Thunderbird_76 Start: 60481, Stop: 60717, Start Num: 4

Candidate Starts for Thunderbird_76:

(1, 60385), (Start: 4 @60481 has 254 MA's), (5, 60640), (6, 60643),

Gene: Timmi_75 Start: 60255, Stop: 60491, Start Num: 4

Candidate Starts for Timmi_75:

(1, 60159), (Start: 4 @60255 has 254 MA's), (5, 60414), (6, 60417),

Gene: TomBombadil_76 Start: 60782, Stop: 61018, Start Num: 4

Candidate Starts for TomBombadil_76:

(1, 60689), (Start: 4 @60782 has 254 MA's), (5, 60941), (6, 60944),

Gene: Tomlarah_77 Start: 61090, Stop: 61326, Start Num: 4

Candidate Starts for Tomlarah_77:

(1, 60997), (Start: 4 @61090 has 254 MA's), (5, 61249), (6, 61252),

Gene: Toni_76 Start: 60685, Stop: 60921, Start Num: 4

Candidate Starts for Toni_76:

(1, 60592), (Start: 4 @60685 has 254 MA's), (5, 60844), (6, 60847),

Gene: TooFast2Furius_77 Start: 60472, Stop: 60708, Start Num: 4

Candidate Starts for TooFast2Furius_77:

(1, 60379), (Start: 4 @60472 has 254 MA's), (5, 60631), (6, 60634),

Gene: Tooj_73 Start: 59916, Stop: 60152, Start Num: 4

Candidate Starts for Tooj_73:

(1, 59823), (Start: 4 @59916 has 254 MA's), (5, 60075), (6, 60078),

Gene: True_74 Start: 60225, Stop: 60461, Start Num: 4

Candidate Starts for True_74:

(1, 60129), (Start: 4 @60225 has 254 MA's), (5, 60384), (6, 60387),

Gene: Trypo_77 Start: 60940, Stop: 61176, Start Num: 4

Candidate Starts for Trypo_77:

(1, 60847), (Start: 4 @60940 has 254 MA's), (5, 61099), (6, 61102),

Gene: TyrionL_76 Start: 60311, Stop: 60547, Start Num: 4

Candidate Starts for TyrionL_76:

(1, 60218), (Start: 4 @60311 has 254 MA's), (5, 60470), (6, 60473),

Gene: UAch1_77 Start: 60582, Stop: 60818, Start Num: 4

Candidate Starts for UAch1_77:

(1, 60489), (Start: 4 @60582 has 254 MA's),

Gene: UncleHowie_73 Start: 59919, Stop: 60155, Start Num: 4

Candidate Starts for UncleHowie_73:

(1, 59823), (Start: 4 @59919 has 254 MA's), (5, 60078), (6, 60081),

Gene: Usavi_77 Start: 60908, Stop: 61144, Start Num: 4

Candidate Starts for Usavi_77:

(1, 60815), (Start: 4 @60908 has 254 MA's),

Gene: Vaishali24_77 Start: 60528, Stop: 60764, Start Num: 4

Candidate Starts for Vaishali24_77:

(1, 60435), (Start: 4 @60528 has 254 MA's), (5, 60687), (6, 60690),

Gene: Valjean_75 Start: 60470, Stop: 60706, Start Num: 4

Candidate Starts for Valjean_75:

(1, 60377), (Start: 4 @60470 has 254 MA's), (5, 60629), (6, 60632),

Gene: Vaticameos_73 Start: 58786, Stop: 59022, Start Num: 4

Candidate Starts for Vaticameos_73:

(1, 58693), (Start: 4 @58786 has 254 MA's),

Gene: Veritas_75 Start: 60396, Stop: 60632, Start Num: 4

Candidate Starts for Veritas_75:

(1, 60300), (Start: 4 @60396 has 254 MA's), (5, 60555), (6, 60558),

Gene: Virapocalypse_77 Start: 60581, Stop: 60817, Start Num: 4

Candidate Starts for Virapocalypse_77:

(1, 60488), (Start: 4 @60581 has 254 MA's),

Gene: Virgeve_74 Start: 60198, Stop: 60434, Start Num: 4

Candidate Starts for Virgeve_74:

(1, 60102), (Start: 4 @60198 has 254 MA's), (5, 60357), (6, 60360),

Gene: Vista_75 Start: 60394, Stop: 60630, Start Num: 4

Candidate Starts for Vista_75:

(1, 60301), (Start: 4 @60394 has 254 MA's), (5, 60553), (6, 60556),

Gene: Vivaldi_76 Start: 60678, Stop: 60914, Start Num: 4

Candidate Starts for Vivaldi_76:

(1, 60585), (Start: 4 @60678 has 254 MA's), (5, 60837), (6, 60840),

Gene: Wallhey_77 Start: 60501, Stop: 60737, Start Num: 4

Candidate Starts for Wallhey_77:

(1, 60408), (Start: 4 @60501 has 254 MA's), (5, 60660), (6, 60663),

Gene: Waterdiva_77 Start: 60768, Stop: 61004, Start Num: 4

Candidate Starts for Waterdiva_77:

(1, 60675), (Start: 4 @60768 has 254 MA's), (5, 60927), (6, 60930),

Gene: Weher20_73 Start: 60839, Stop: 61075, Start Num: 4

Candidate Starts for Weher20_73:

(1, 60746), (Start: 4 @60839 has 254 MA's), (5, 60998), (6, 61001),

Gene: Windsor_76 Start: 60784, Stop: 61020, Start Num: 4

Candidate Starts for Windsor_76:

(1, 60691), (Start: 4 @60784 has 254 MA's), (5, 60943), (6, 60946),

Gene: Xavier_76 Start: 60390, Stop: 60626, Start Num: 4

Candidate Starts for Xavier_76:

(1, 60294), (Start: 4 @60390 has 254 MA's), (5, 60549), (6, 60552),

Gene: Yoshand_77 Start: 60635, Stop: 60871, Start Num: 4

Candidate Starts for Yoshand_77:

(1, 60542), (Start: 4 @60635 has 254 MA's), (5, 60794), (6, 60797),

Gene: YouGoGlencoco_76 Start: 60509, Stop: 60745, Start Num: 4

Candidate Starts for YouGoGlencoco_76:

(1, 60416), (Start: 4 @60509 has 254 MA's), (5, 60668), (6, 60671),

Gene: Zaider_77 Start: 60710, Stop: 60946, Start Num: 4

Candidate Starts for Zaider_77:

(1, 60617), (Start: 4 @60710 has 254 MA's), (5, 60869), (6, 60872),

Gene: Zelda_76 Start: 60840, Stop: 61076, Start Num: 4

Candidate Starts for Zelda_76:

(1, 60747), (Start: 4 @60840 has 254 MA's), (5, 60999), (6, 61002),

Gene: Zonia_77 Start: 60952, Stop: 61188, Start Num: 4

Candidate Starts for Zonia_77:

(1, 60859), (Start: 4 @60952 has 254 MA's),