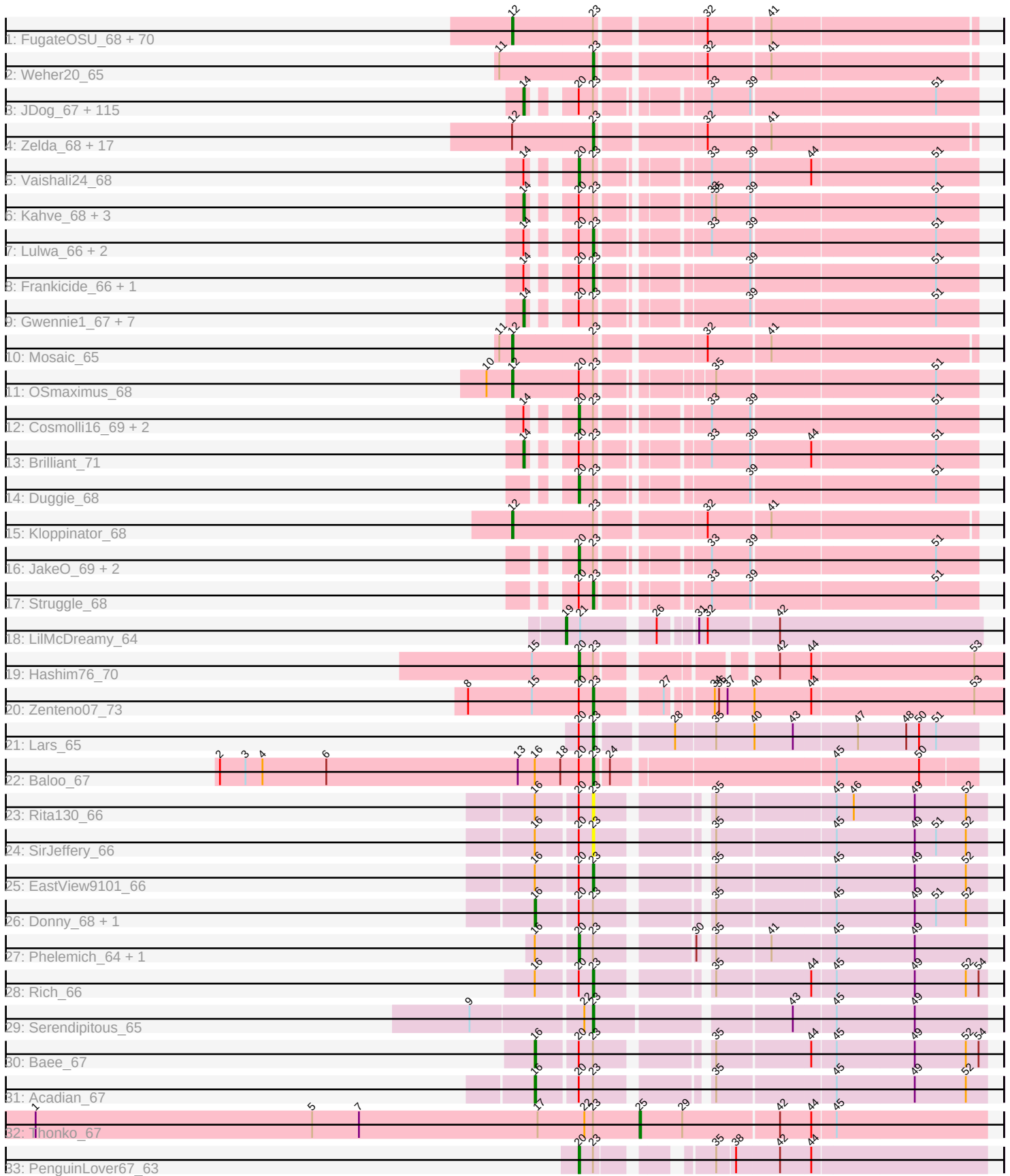


Pham 280057



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 280057 Report

This analysis was run 02/07/26 on database version 634.

Pham number 280057 has 254 members, 7 are drafts.

Phages represented in each track:

- Track 1 : FugateOSU_68, FriarPreacher_66, Fang_69, DirtJuice_68, PhrankReynolds_67, Podrick_67, Mulan_67, Phamished_69, Pherdinand_68, Vista_66, LemonSlice_68, Thora_66, PhrodoBaggins_69, Swish_68, Derpp_68, Craff_71, Cobra_68, Morgushi_66, LeeLot_67, Zonia_68, Murdoc_65, PinheadLarry_67, Cher_68, Placalicious_68, CharlieGBrown_66, Doddsville_66, Phergie_68, Vortex_67, HighStump_69, PhenghisKhan_68, KingTut_59, Oline_67, Labeouficaum_68, SDcharge11_67, Slatt_68, Vivaldi_68, Phleuron_66, Kwksand96_68, Banjo_66, Harvey_65, TallGrassMM_66, MichaelPhcott_66, Daka_70, Trypo_69, Kailash_66, Haimas_66, Puhltonio_66, Pipsqueak_65, SassyCat97_66, Mesh1_68, Mana_66, Soto_65, Squid_67, Daffy_66, Prickles_69, DuchessDung_67, Iridoclysis_67, MitKao_67, Squiggle_67, TyrionL_68, Phipps_67, Pinkman_67, Held_66, Matalotodo_66, FluffyNinja_68, Maru_67, BatteryCK_66, KingVeVeVe_66, Yoshand_68, Lego3393_65, UncleHowie_65
- Track 2 : Weher20_65
- Track 3 : JDog_67, Spartan300_67, Kimbrough_69, Lulumae_65, EmpTee_67, Mutante_68, Serendipity_67, Orfeu_67, Fringe_72, Manad_67, LuckyMarjie_65, Riverton_67, Orwigg_67, Cornbread_66, Dice_67, Colbert_66, AngelCake_67, Keitherie_70, Megatron_68, CampRoach_69, FleetyMac_71, Andre_70, Tooj_66, Quisquilliae_69, ShiVal_66, Chaelin_69, KLucky39_66, Mesmerelda_67, KlimbOn_67, Altwerkus_66, Robyn_68, Aelin_67, CheetO_67, Beaglebox_66, Riggan_69, Nyala_67, Tomlarah_69, HSavage_66, JangoPhett_102, Xavier_67, Skippy_69, PG1_67, Jillium_68, Kikipoo_69, Hetaeria_67, Apizium_67, ChaH_69, PhatLouie_70, Eremos_67, Nacho_0071, ProfessorX_66, Gareth_68, True_66, Timmi_67, Katniss_69, Serpentine_0068, Hartsy_67, Virapocalypse_69, Suffolk_66, Carthage_68, Scoot17C_68, Coletti_71, SirBeauregard_69, Newman_66, Cannibal_68, JacAttac_68, Gophee_69, ShadowBud_69, Swiphy_70, Mcshane_67, Jesabah_70, Telesworld_66, Badfish_68, Anderson_69, Sigman_68, Pacifista_67, Simielle_68, Piglet_0068, Samaymay_68, Hertubise_67, ABU_67, Waterdiva_68, Giraffe_68, Antonia_67, Phunky_66, Burr_68, Oosterbaan_67, Freya_65, Lumine_69, Numberten_67, Selr12_69, Omniscient_69, MrPhizzler_71, PhatCats2014_68, Kwadwo_67, Roy17_66, Charles1_69, Haleema_67, ThreeOh3D2_69, Dione_66, Longacauda_69, Iridessa_69, Bishoperium_68, Windsor_68, Mecca_68, Valjean_67, Vaticameos_65, DoesntMatter_65, Toni_68, Nicole21_69, Morty_69, Schadenfreude_68, Chunky_68, IsaacEli_69, Olak_67, OliverWalter_67
- Track 4 : Zelda_68, Plmatters_66, Mag7_66, Emiris_69, YouGoGlencoco_68, Wallhey_68, Veritas_67, Sophia_66, Etaye_67, Surely_68, Solosis_66, Roliet_65, MRabcd_67, Legolas_69, TomBombadil_68, LostAndPhound_67, SallyH_70,

Durga_70

- Track 5 : Vaishali24_68
- Track 6 : Kahve_68, Childish_67, DaddyDaniels_70, HenryJackson_68
- Track 7 : Lulwa_66, Zaider_69, Usavi_69
- Track 8 : Frankicide_66, Gwilliam_69
- Track 9 : Gwennie1_67, Jiraiya_69, Roscoe_68, Crownjwl_66, DelRivs_66, Ricotta_68, Soile_69, Rimu_68
- Track 10 : Mosaic_65
- Track 11 : OSmaximus_68
- Track 12 : Cosmolli16_69, QueenBeane_68, CamL_68
- Track 13 : Brilliant_71
- Track 14 : Duggie_68
- Track 15 : Kloppinator_68
- Track 16 : JakeO_69, Thunderbird_68, Pops_66
- Track 17 : Struggle_68
- Track 18 : LilMcDreamy_64
- Track 19 : Hashim76_70
- Track 20 : Zenteno07_73
- Track 21 : Lars_65
- Track 22 : Baloo_67
- Track 23 : Rita130_66
- Track 24 : SirJeffery_66
- Track 25 : EastView9101_66
- Track 26 : Donny_68, Suigeneris_68
- Track 27 : Phelemich_64, Reprobate_65
- Track 28 : Rich_66
- Track 29 : Serendipitous_65
- Track 30 : Baee_67
- Track 31 : Acadian_67
- Track 32 : Thonko_67
- Track 33 : Penguin Lover67_63

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

The start number called the most often in the published annotations is 14, it was called in 125 of the 247 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- ABU_67, Aelin_67, Altwerkus_66, Anderson_69, Andre_70, AngelCake_67, Antonia_67, Apizium_67, Badfish_68, Beaglebox_66, Bishoperium_68, Brilliant_71, Burr_68, CampRoach_69, Cannibal_68, Carthage_68, Chaelin_69, Chah_69, Charles1_69, CheetO_67, Childish_67, Chunky_68, Colbert_66, Coletti_71, Cornbread_66, Crownjwl_66, DaddyDaniels_70, DelRivs_66, Dice_67, Dione_66, DoesntMatter_65, EmpTee_67, Eremos_67, FleetyMac_71, Freya_65, Fringe_72, Gareth_68, Giraffe_68, Gophee_69, Gwennie1_67, HSavage_66, Haleema_67, Hartsy_67, HenryJackson_68, Hertubise_67, Hetaeria_67, Iridessa_69, IsaacEli_69, JDog_67, JacAttac_68, JangoPhett_102, Jesabah_70, Jillium_68, Jiraiya_69, KLUcky39_66, Kahve_68, Katniss_69, Keitherie_70, Kikipoo_69, Kimbrough_69, KlimbOn_67, Kwadwo_67, Longacauda_69, LuckyMarjie_65, Lulumae_65, Lumine_69, Manad_67, Mcshane_67, Mecca_68, Megatron_68, Mesmerelda_67,

Morty_69, MrPhizzler_71, Mutante_68, Nacho_0071, Newman_66, Nicole21_69, Numberten_67, Nyala_67, Olak_67, OliverWalter_67, Omniscient_69, Oosterbaan_67, Orfeu_67, Orwigg_67, PG1_67, Pacifista_67, PhatCats2014_68, PhatLouie_70, Phunky_66, Piglet_0068, ProfessorX_66, Quisquillae_69, Ricotta_68, Riggan_69, Rimu_68, Riverton_67, Robyn_68, Roscoe_68, Roy17_66, Samaymay_68, Schadenfreude_68, Scoot17C_68, Selr12_69, Serendipity_67, Serpentine_0068, ShadowBud_69, ShiVal_66, Sigman_68, Simielle_68, SirBeauregard_69, Skippy_69, Soile_69, Spartan300_67, Suffolk_66, Swiphy_70, Telesworld_66, ThreeOh3D2_69, Timmi_67, Tomlarañ_69, Toni_68, Tooj_66, True_66, Valjean_67, Vaticameos_65, Virapocalypse_69, Waterdiva_68, Windsor_68, Xavier_67,

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

- CamL_68, Cosmolli16_69, Frankicide_66, Gwilliam_69, Lulwa_66, QueenBeane_68, Usavi_69, Vaishali24_68, Zaider_69,

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

- Acadian_67, Baee_67, Baloo_67, Banjo_66, BatteryCK_66, CharlieGBrown_66, Cher_68, Cobra_68, Craff_71, Daffy_66, Daka_70, Derpp_68, DirtJuice_68, Doddsville_66, Donny_68, DuchessDung_67, Duggie_68, Durga_70, EastView9101_66, Emiris_69, Etaye_67, Fang_69, FluffyNinja_68, FriarPreacher_66, FugateOSU_68, Haimas_66, Harvey_65, Hashim76_70, Held_66, HighStump_69, Iridoclysis_67, JakeO_69, Kailash_66, KingTut_59, KingVeVeVe_66, Kloppinator_68, Kwksand96_68, Labeouficaum_68, Lars_65, LeeLot_67, Lego3393_65, Legolas_69, LemonSlice_68, LilMcDreamy_64, LostAndPhound_67, MRabcd_67, Mag7_66, Mana_66, Maru_67, Matalotodo_66, Mesh1_68, MichaelPhcott_66, MitKao_67, Morgushi_66, Mosaic_65, Mulan_67, Murdoc_65, OSmaximus_68, Oline_67, PenguinLover67_63, Phamished_69, Phelemich_64, PhenghisKhan_68, Pherdinand_68, Phergie_68, Phipps_67, Phleuron_66, PhrankReynolds_67, PhrodoBaggins_69, PinheadLarry_67, Pinkman_67, Pipsqueak_65, Placalicious_68, Plmatters_66, Podrick_67, Pops_66, Prickles_69, Puhltonio_66, Reprobate_65, Rich_66, Rita130_66, Roliet_65, SDcharge11_67, SallyH_70, SassyCat97_66, Serendipitous_65, SirJeffery_66, Slatt_68, Solosis_66, Sophia_66, Soto_65, Squid_67, Squiggle_67, Struggle_68, Suigeneris_68, Surely_68, Swish_68, TallGrassMM_66, Thonko_67, Thora_66, Thunderbird_68, TomBombadil_68, Trypo_69, TyronL_68, UncleHowie_65, Veritas_67, Vista_66, Vivaldi_68, Vortex_67, Wallhey_68, Weher20_65, Yoshand_68, YouGoGlencoco_68, Zelda_68, Zenteno07_73, Zonia_68,

Summary by start number:

Start 12:

- Found in 92 of 254 (36.2%) of genes in pham
- Manual Annotations of this start: 74 of 247
- Called 80.4% of time when present
- Phage (with cluster) where this start called: Banjo_66 (B1), BatteryCK_66 (B1), CharlieGBrown_66 (B1), Cher_68 (B1), Cobra_68 (B1), Craff_71 (B1), Daffy_66 (B1), Daka_70 (B1), Derpp_68 (B1), DirtJuice_68 (B1), Doddsville_66 (B1), DuchessDung_67 (B1), Fang_69 (B1), FluffyNinja_68 (B1), FriarPreacher_66 (B1), FugateOSU_68 (B1), Haimas_66 (B1), Harvey_65 (B1), Held_66 (B1), HighStump_69 (B1), Iridoclysis_67 (B1), Kailash_66 (B1), KingTut_59 (B1), KingVeVeVe_66 (B1), Kloppinator_68 (B1), Kwksand96_68 (B1), Labeouficaum_68 (B1), LeeLot_67 (B1), Lego3393_65 (B1), LemonSlice_68 (B1), Mana_66 (B1), Maru_67 (B1),

Matalotodo_66 (B1), Mesh1_68 (B1), MichaelPhcott_66 (B1), MitKao_67 (B1), Morgushi_66 (B1), Mosaic_65 (B1), Mulan_67 (B1), Murdoc_65 (B1), OSmaximus_68 (B1), Oline_67 (B1), Phamished_69 (B1), PhenghisKhan_68 (B1), Pherdinand_68 (B1), Phergie_68 (B1), Phipps_67 (B1), Phleuron_66 (B1), PhrankReynolds_67 (B1), PhrodoBaggins_69 (B1), PinheadLarry_67 (B1), Pinkman_67 (B1), Pipsqueak_65 (B1), Placalicious_68 (B1), Podrick_67 (B1), Prickles_69 (B1), Puhltonio_66 (B1), SDcharge11_67 (B1), SassyCat97_66 (B1), Slatt_68 (B1), Soto_65 (B1), Squid_67 (B1), Squiggle_67 (B1), Swish_68 (B1), TallGrassMM_66 (B1), Thora_66 (B1), Trypo_69 (B1), TyrionL_68 (B1), UncleHowie_65 (B1), Vista_66 (B1), Vivaldi_68 (B1), Vortex_67 (B1), Yoshand_68 (B1), Zonia_68 (B1),

Start 14:

- Found in 138 of 254 (54.3%) of genes in pham
- Manual Annotations of this start: 125 of 247
- Called 93.5% of time when present
- Phage (with cluster) where this start called: ABU_67 (B1), Aelin_67 (B1), Altwerkus_66 (B1), Anderson_69 (B1), Andre_70 (B1), AngelCake_67 (B1), Antonia_67 (B1), Apizium_67 (B1), Badfish_68 (B1), Beaglebox_66 (B1), Bishoperium_68 (B1), Brilliant_71 (B1), Burr_68 (B1), CampRoach_69 (B1), Cannibal_68 (B1), Carthage_68 (B1), Chaelin_69 (B1), Chah_69 (B1), Charles1_69 (B1), CheetO_67 (B1), Childish_67 (B1), Chunky_68 (B1), Colbert_66 (B1), Coletti_71 (B1), Cornbread_66 (B1), Crownjwl_66 (B1), DaddyDaniels_70 (B1), DelRivs_66 (B1), Dice_67 (B1), Dione_66 (B1), DoesntMatter_65 (B1), EmpTee_67 (B1), Eremos_67 (B1), FleetyMac_71 (B1), Freya_65 (B1), Fringe_72 (B1), Gareth_68 (B1), Giraffe_68 (B1), Gophee_69 (B1), Gwennie1_67 (B1), HSavage_66 (B1), Haleema_67 (B1), Hartsy_67 (B1), HenryJackson_68 (B1), Hertubise_67 (B1), Hetaeria_67 (B1), Iridessa_69 (B1), IsaacEli_69 (B1), JDog_67 (B1), JacAttac_68 (B1), JangoPhett_102 (B1), Jesabah_70 (B1), Jillium_68 (B1), Jiraiya_69 (B1), KLucky39_66 (B1), Kahve_68 (B1), Katniss_69 (B1), Keitherie_70 (B1), Kikipoo_69 (B1), Kimbrough_69 (B1), KlimbOn_67 (B1), Kwadwo_67 (B1), Longacauda_69 (B1), LuckyMarjie_65 (B1), Lulumae_65 (B1), Lumine_69 (B1), Manad_67 (B1), Mcshane_67 (B1), Mecca_68 (B1), Megatron_68 (B1), Mesmerelda_67 (B1), Morty_69 (B1), MrPhizzler_71 (B1), Mutante_68 (B1), Nacho_0071 (B1), Newman_66 (B1), Nicole21_69 (B1), Numberten_67 (B1), Nyala_67 (B1), Olak_67 (B1), OliverWalter_67 (B1), Omniscient_69 (B1), Oosterbaan_67 (B1), Orfeu_67 (B1), Orwigg_67 (B1), PG1_67 (B1), Pacifista_67 (B1), PhatCats2014_68 (B1), PhatLouie_70 (B1), Phunky_66 (B1), Piglet_0068 (B1), ProfessorX_66 (B1), Quisquilliae_69 (B1), Ricotta_68 (B1), Riggan_69 (B1), Rimu_68 (B1), Riverton_67 (B1), Robyn_68 (B1), Roscoe_68 (B1), Roy17_66 (B1), Samaymay_68 (B1), Schadenfreude_68 (B1), Scoot17C_68 (B1), Selr12_69 (B1), Serendipity_67 (B1), Serpentine_0068 (B1), ShadowBud_69 (B1), ShiVal_66 (B1), Sigman_68 (B1), Simielle_68 (B1), SirBeauregard_69 (B1), Skippy_69 (B1), Soile_69 (B1), Spartan300_67 (B1), Suffolk_66 (B1), Swiphy_70 (B1), Telesworld_66 (B1), ThreeOh3D2_69 (B1), Timmi_67 (B1), Tomlarah_69 (B1), Toni_68 (B1), Tooj_66 (B1), True_66 (B1), Valjean_67 (B1), Vaticameos_65 (B1), Virapocalypse_69 (B1), Waterdiva_68 (B1), Windsor_68 (B1), Xavier_67 (B1),

Start 16:

- Found in 11 of 254 (4.3%) of genes in pham
- Manual Annotations of this start: 4 of 247
- Called 36.4% of time when present
- Phage (with cluster) where this start called: Acadian_67 (B5), Baee_67 (B5), Donny_68 (B5), Suigeneris_68 (B5),

Start 19:

- Found in 1 of 254 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 247
- Called 100.0% of time when present
- Phage (with cluster) where this start called: LilMcDreamy_64 (B12),

Start 20:

- Found in 159 of 254 (62.6%) of genes in pham
- Manual Annotations of this start: 12 of 247
- Called 7.5% of time when present
- Phage (with cluster) where this start called: CamL_68 (B1), Cosmolli16_69 (B1), Duggie_68 (B1), Hashim76_70 (B13), JakeO_69 (B1), PenguinLover67_63 (B9), Phelemich_64 (B5), Pops_66 (B1), QueenBeane_68 (B1), Reprobate_65 (B5), Thunderbird_68 (B1), Vaishali24_68 (B1),

Start 23:

- Found in 253 of 254 (99.6%) of genes in pham
- Manual Annotations of this start: 30 of 247
- Called 13.0% of time when present
- Phage (with cluster) where this start called: Baloo_67 (B3), Durga_70 (B1), EastView9101_66 (B5), Emiris_69 (B1), Etaye_67 (B1), Frankicide_66 (B1), Gwilliam_69 (B1), Lars_65 (B2), Legolas_69 (B1), LostAndPhound_67 (B1), Lulwa_66 (B1), MRabcd_67 (B1), Mag7_66 (B1), Plmatters_66 (B1), Rich_66 (B5), Rita130_66 (B5), Roliet_65 (B1), SallyH_70 (B1), Serendipitous_65 (B5), SirJeffery_66 (B5), Solosis_66 (B1), Sophia_66 (B1), Struggle_68 (B1), Surely_68 (B1), TomBombadil_68 (B1), Usavi_69 (B1), Veritas_67 (B1), Wallhey_68 (B1), Weher20_65 (B1), YouGoGlencoco_68 (B1), Zaidier_69 (B1), Zelda_68 (B1), Zenteno07_73 (B13),

Start 25:

- Found in 1 of 254 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 247
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Thonko_67 (B8),

Summary by clusters:

There are 8 clusters represented in this pham: B5, B12, B13, B2, B3, B8, B9, B1,

Info for manual annotations of cluster B1:

- Start number 12 was manually annotated 74 times for cluster B1.
- Start number 14 was manually annotated 125 times for cluster B1.
- Start number 20 was manually annotated 8 times for cluster B1.
- Start number 23 was manually annotated 24 times for cluster B1.

Info for manual annotations of cluster B12:

- Start number 19 was manually annotated 1 time for cluster B12.

Info for manual annotations of cluster B13:

- Start number 20 was manually annotated 1 time for cluster B13.
- Start number 23 was manually annotated 1 time for cluster B13.

Info for manual annotations of cluster B2:

- Start number 23 was manually annotated 1 time for cluster B2.

Info for manual annotations of cluster B3:

- Start number 23 was manually annotated 1 time for cluster B3.

Info for manual annotations of cluster B5:

- Start number 16 was manually annotated 4 times for cluster B5.
- Start number 20 was manually annotated 2 times for cluster B5.
- Start number 23 was manually annotated 3 times for cluster B5.

Info for manual annotations of cluster B8:

- Start number 25 was manually annotated 1 time for cluster B8.

Info for manual annotations of cluster B9:

- Start number 20 was manually annotated 1 time for cluster B9.

Gene Information:

Gene: ABU_67 Start: 57301, Stop: 57573, Start Num: 14

Candidate Starts for ABU_67:

(Start: 14 @57301 has 125 MA's), (Start: 20 @57322 has 12 MA's), (Start: 23 @57331 has 30 MA's), (33, 57394), (39, 57421), (51, 57544),

Gene: Acadian_67 Start: 58258, Stop: 58542, Start Num: 16

Candidate Starts for Acadian_67:

(Start: 16 @58258 has 4 MA's), (Start: 20 @58285 has 12 MA's), (Start: 23 @58294 has 30 MA's), (35, 58360), (45, 58438), (49, 58492), (52, 58528),

Gene: Aelin_67 Start: 56821, Stop: 57093, Start Num: 14

Candidate Starts for Aelin_67:

(Start: 14 @56821 has 125 MA's), (Start: 20 @56842 has 12 MA's), (Start: 23 @56851 has 30 MA's), (33, 56914), (39, 56941), (51, 57064),

Gene: Altwerkus_66 Start: 56464, Stop: 56736, Start Num: 14

Candidate Starts for Altwerkus_66:

(Start: 14 @56464 has 125 MA's), (Start: 20 @56485 has 12 MA's), (Start: 23 @56494 has 30 MA's), (33, 56557), (39, 56584), (51, 56707),

Gene: Anderson_69 Start: 57036, Stop: 57308, Start Num: 14

Candidate Starts for Anderson_69:

(Start: 14 @57036 has 125 MA's), (Start: 20 @57057 has 12 MA's), (Start: 23 @57066 has 30 MA's), (33, 57129), (39, 57156), (51, 57279),

Gene: Andre_70 Start: 57216, Stop: 57488, Start Num: 14

Candidate Starts for Andre_70:

(Start: 14 @57216 has 125 MA's), (Start: 20 @57237 has 12 MA's), (Start: 23 @57246 has 30 MA's), (33, 57309), (39, 57336), (51, 57459),

Gene: AngelCake_67 Start: 56953, Stop: 57225, Start Num: 14

Candidate Starts for AngelCake_67:

(Start: 14 @56953 has 125 MA's), (Start: 20 @56974 has 12 MA's), (Start: 23 @56983 has 30 MA's), (33, 57046), (39, 57073), (51, 57196),

Gene: Antonia_67 Start: 56820, Stop: 57092, Start Num: 14

Candidate Starts for Antonia_67:

(Start: 14 @56820 has 125 MA's), (Start: 20 @56841 has 12 MA's), (Start: 23 @56850 has 30 MA's), (33, 56913), (39, 56940), (51, 57063),

Gene: Apizium_67 Start: 56482, Stop: 56754, Start Num: 14

Candidate Starts for Apizium_67:

(Start: 14 @56482 has 125 MA's), (Start: 20 @56503 has 12 MA's), (Start: 23 @56512 has 30 MA's), (33, 56575), (39, 56602), (51, 56725),

Gene: Badfish_68 Start: 57322, Stop: 57594, Start Num: 14

Candidate Starts for Badfish_68:

(Start: 14 @57322 has 125 MA's), (Start: 20 @57343 has 12 MA's), (Start: 23 @57352 has 30 MA's), (33, 57415), (39, 57442), (51, 57565),

Gene: Baee_67 Start: 59301, Stop: 59585, Start Num: 16

Candidate Starts for Baee_67:

(Start: 16 @59301 has 4 MA's), (Start: 20 @59328 has 12 MA's), (Start: 23 @59337 has 30 MA's), (35, 59403), (44, 59466), (45, 59481), (49, 59535), (52, 59571), (54, 59580),

Gene: Baloo_67 Start: 57118, Stop: 57366, Start Num: 23

Candidate Starts for Baloo_67:

(2, 56857), (3, 56875), (4, 56887), (6, 56932), (13, 57067), (Start: 16 @57079 has 4 MA's), (18, 57097), (Start: 20 @57109 has 12 MA's), (Start: 23 @57118 has 30 MA's), (24, 57127), (45, 57271), (50, 57328),

Gene: Banjo_66 Start: 56800, Stop: 57102, Start Num: 12

Candidate Starts for Banjo_66:

(Start: 12 @56800 has 74 MA's), (Start: 23 @56854 has 30 MA's), (32, 56923), (41, 56965),

Gene: BatteryCK_66 Start: 56770, Stop: 57072, Start Num: 12

Candidate Starts for BatteryCK_66:

(Start: 12 @56770 has 74 MA's), (Start: 23 @56824 has 30 MA's), (32, 56893), (41, 56935),

Gene: Beaglebox_66 Start: 56876, Stop: 57148, Start Num: 14

Candidate Starts for Beaglebox_66:

(Start: 14 @56876 has 125 MA's), (Start: 20 @56897 has 12 MA's), (Start: 23 @56906 has 30 MA's), (33, 56969), (39, 56996), (51, 57119),

Gene: Bishoperium_68 Start: 57350, Stop: 57622, Start Num: 14

Candidate Starts for Bishoperium_68:

(Start: 14 @57350 has 125 MA's), (Start: 20 @57371 has 12 MA's), (Start: 23 @57380 has 30 MA's), (33, 57443), (39, 57470), (51, 57593),

Gene: Brilliant_71 Start: 57319, Stop: 57591, Start Num: 14

Candidate Starts for Brilliant_71:

(Start: 14 @57319 has 125 MA's), (Start: 20 @57340 has 12 MA's), (Start: 23 @57349 has 30 MA's), (33, 57412), (39, 57439), (44, 57478), (51, 57562),

Gene: Burr_68 Start: 56786, Stop: 57058, Start Num: 14

Candidate Starts for Burr_68:

(Start: 14 @56786 has 125 MA's), (Start: 20 @56807 has 12 MA's), (Start: 23 @56816 has 30 MA's), (33, 56879), (39, 56906), (51, 57029),

Gene: CamL_68 Start: 57139, Stop: 57390, Start Num: 20

Candidate Starts for CamL_68:

(Start: 14 @57118 has 125 MA's), (Start: 20 @57139 has 12 MA's), (Start: 23 @57148 has 30 MA's), (33, 57211), (39, 57238), (51, 57361),

Gene: CampRoach_69 Start: 57225, Stop: 57497, Start Num: 14

Candidate Starts for CampRoach_69:

(Start: 14 @57225 has 125 MA's), (Start: 20 @57246 has 12 MA's), (Start: 23 @57255 has 30 MA's), (33, 57318), (39, 57345), (51, 57468),

Gene: Cannibal_68 Start: 57060, Stop: 57332, Start Num: 14

Candidate Starts for Cannibal_68:

(Start: 14 @57060 has 125 MA's), (Start: 20 @57081 has 12 MA's), (Start: 23 @57090 has 30 MA's), (33, 57153), (39, 57180), (51, 57303),

Gene: Carthage_68 Start: 56724, Stop: 56996, Start Num: 14

Candidate Starts for Carthage_68:

(Start: 14 @56724 has 125 MA's), (Start: 20 @56745 has 12 MA's), (Start: 23 @56754 has 30 MA's), (33, 56817), (39, 56844), (51, 56967),

Gene: Chaelin_69 Start: 57349, Stop: 57621, Start Num: 14

Candidate Starts for Chaelin_69:

(Start: 14 @57349 has 125 MA's), (Start: 20 @57370 has 12 MA's), (Start: 23 @57379 has 30 MA's), (33, 57442), (39, 57469), (51, 57592),

Gene: Chah_69 Start: 56763, Stop: 57035, Start Num: 14

Candidate Starts for Chah_69:

(Start: 14 @56763 has 125 MA's), (Start: 20 @56784 has 12 MA's), (Start: 23 @56793 has 30 MA's), (33, 56856), (39, 56883), (51, 57006),

Gene: Charles1_69 Start: 57073, Stop: 57345, Start Num: 14

Candidate Starts for Charles1_69:

(Start: 14 @57073 has 125 MA's), (Start: 20 @57094 has 12 MA's), (Start: 23 @57103 has 30 MA's), (33, 57166), (39, 57193), (51, 57316),

Gene: CharlieGBrown_66 Start: 56715, Stop: 57017, Start Num: 12

Candidate Starts for CharlieGBrown_66:

(Start: 12 @56715 has 74 MA's), (Start: 23 @56769 has 30 MA's), (32, 56838), (41, 56880),

Gene: CheetO_67 Start: 57036, Stop: 57308, Start Num: 14

Candidate Starts for CheetO_67:

(Start: 14 @57036 has 125 MA's), (Start: 20 @57057 has 12 MA's), (Start: 23 @57066 has 30 MA's), (33, 57129), (39, 57156), (51, 57279),

Gene: Cher_68 Start: 57320, Stop: 57622, Start Num: 12

Candidate Starts for Cher_68:

(Start: 12 @57320 has 74 MA's), (Start: 23 @57374 has 30 MA's), (32, 57443), (41, 57485),

Gene: Childish_67 Start: 57339, Stop: 57611, Start Num: 14

Candidate Starts for Childish_67:

(Start: 14 @57339 has 125 MA's), (Start: 20 @57360 has 12 MA's), (Start: 23 @57369 has 30 MA's), (33, 57432), (35, 57435), (39, 57459), (51, 57582),

Gene: Chunky_68 Start: 56653, Stop: 56925, Start Num: 14

Candidate Starts for Chunky_68:

(Start: 14 @56653 has 125 MA's), (Start: 20 @56674 has 12 MA's), (Start: 23 @56683 has 30 MA's), (33, 56746), (39, 56773), (51, 56896),

Gene: Cobra_68 Start: 57351, Stop: 57653, Start Num: 12

Candidate Starts for Cobra_68:

(Start: 12 @57351 has 74 MA's), (Start: 23 @57405 has 30 MA's), (32, 57474), (41, 57516),

Gene: Colbert_66 Start: 56375, Stop: 56647, Start Num: 14

Candidate Starts for Colbert_66:

(Start: 14 @56375 has 125 MA's), (Start: 20 @56396 has 12 MA's), (Start: 23 @56405 has 30 MA's), (33, 56468), (39, 56495), (51, 56618),

Gene: Coletti_71 Start: 57877, Stop: 58149, Start Num: 14

Candidate Starts for Coletti_71:

(Start: 14 @57877 has 125 MA's), (Start: 20 @57898 has 12 MA's), (Start: 23 @57907 has 30 MA's), (33, 57970), (39, 57997), (51, 58120),

Gene: Cornbread_66 Start: 56841, Stop: 57113, Start Num: 14

Candidate Starts for Cornbread_66:

(Start: 14 @56841 has 125 MA's), (Start: 20 @56862 has 12 MA's), (Start: 23 @56871 has 30 MA's), (33, 56934), (39, 56961), (51, 57084),

Gene: Cosmolli16_69 Start: 57541, Stop: 57792, Start Num: 20

Candidate Starts for Cosmolli16_69:

(Start: 14 @57520 has 125 MA's), (Start: 20 @57541 has 12 MA's), (Start: 23 @57550 has 30 MA's), (33, 57613), (39, 57640), (51, 57763),

Gene: Craff_71 Start: 57754, Stop: 58056, Start Num: 12

Candidate Starts for Craff_71:

(Start: 12 @57754 has 74 MA's), (Start: 23 @57808 has 30 MA's), (32, 57877), (41, 57919),

Gene: Crownjwl_66 Start: 56838, Stop: 57110, Start Num: 14

Candidate Starts for Crownjwl_66:

(Start: 14 @56838 has 125 MA's), (Start: 20 @56859 has 12 MA's), (Start: 23 @56868 has 30 MA's), (39, 56958), (51, 57081),

Gene: DaddyDaniels_70 Start: 57296, Stop: 57568, Start Num: 14

Candidate Starts for DaddyDaniels_70:

(Start: 14 @57296 has 125 MA's), (Start: 20 @57317 has 12 MA's), (Start: 23 @57326 has 30 MA's), (33, 57389), (35, 57392), (39, 57416), (51, 57539),

Gene: Daffy_66 Start: 56792, Stop: 57094, Start Num: 12

Candidate Starts for Daffy_66:

(Start: 12 @56792 has 74 MA's), (Start: 23 @56846 has 30 MA's), (32, 56915), (41, 56957),

Gene: Daka_70 Start: 57306, Stop: 57608, Start Num: 12

Candidate Starts for Daka_70:

(Start: 12 @57306 has 74 MA's), (Start: 23 @57360 has 30 MA's), (32, 57429), (41, 57471),

Gene: DelRivs_66 Start: 56786, Stop: 57058, Start Num: 14

Candidate Starts for DelRivs_66:

(Start: 14 @56786 has 125 MA's), (Start: 20 @56807 has 12 MA's), (Start: 23 @56816 has 30 MA's), (39, 56906), (51, 57029),

Gene: Derpp_68 Start: 56891, Stop: 57193, Start Num: 12

Candidate Starts for Derpp_68:

(Start: 12 @56891 has 74 MA's), (Start: 23 @56945 has 30 MA's), (32, 57014), (41, 57056),

Gene: Dice_67 Start: 56784, Stop: 57056, Start Num: 14

Candidate Starts for Dice_67:

(Start: 14 @56784 has 125 MA's), (Start: 20 @56805 has 12 MA's), (Start: 23 @56814 has 30 MA's), (33, 56877), (39, 56904), (51, 57027),

Gene: Dione_66 Start: 56518, Stop: 56790, Start Num: 14

Candidate Starts for Dione_66:

(Start: 14 @56518 has 125 MA's), (Start: 20 @56539 has 12 MA's), (Start: 23 @56548 has 30 MA's), (33, 56611), (39, 56638), (51, 56761),

Gene: DirtJuice_68 Start: 57097, Stop: 57399, Start Num: 12

Candidate Starts for DirtJuice_68:

(Start: 12 @57097 has 74 MA's), (Start: 23 @57151 has 30 MA's), (32, 57220), (41, 57262),

Gene: Doddsville_66 Start: 56854, Stop: 57156, Start Num: 12

Candidate Starts for Doddsville_66:

(Start: 12 @56854 has 74 MA's), (Start: 23 @56908 has 30 MA's), (32, 56977), (41, 57019),

Gene: DoesntMatter_65 Start: 56808, Stop: 57080, Start Num: 14

Candidate Starts for DoesntMatter_65:

(Start: 14 @56808 has 125 MA's), (Start: 20 @56829 has 12 MA's), (Start: 23 @56838 has 30 MA's), (33, 56901), (39, 56928), (51, 57051),

Gene: Donny_68 Start: 58302, Stop: 58586, Start Num: 16

Candidate Starts for Donny_68:

(Start: 16 @58302 has 4 MA's), (Start: 20 @58329 has 12 MA's), (Start: 23 @58338 has 30 MA's), (35, 58404), (45, 58482), (49, 58536), (51, 58551), (52, 58572),

Gene: DuchessDung_67 Start: 56370, Stop: 56672, Start Num: 12

Candidate Starts for DuchessDung_67:

(Start: 12 @56370 has 74 MA's), (Start: 23 @56424 has 30 MA's), (32, 56493), (41, 56535),

Gene: Duggie_68 Start: 57082, Stop: 57333, Start Num: 20

Candidate Starts for Duggie_68:

(Start: 20 @57082 has 12 MA's), (Start: 23 @57091 has 30 MA's), (39, 57181), (51, 57304),

Gene: Durga_70 Start: 57651, Stop: 57899, Start Num: 23

Candidate Starts for Durga_70:

(Start: 12 @57597 has 74 MA's), (Start: 23 @57651 has 30 MA's), (32, 57720), (41, 57762),

Gene: EastView9101_66 Start: 58038, Stop: 58286, Start Num: 23

Candidate Starts for EastView9101_66:

(Start: 16 @58002 has 4 MA's), (Start: 20 @58029 has 12 MA's), (Start: 23 @58038 has 30 MA's), (35, 58104), (45, 58182), (49, 58236), (52, 58272),

Gene: Emiris_69 Start: 57560, Stop: 57808, Start Num: 23

Candidate Starts for Emiris_69:

(Start: 12 @57506 has 74 MA's), (Start: 23 @57560 has 30 MA's), (32, 57629), (41, 57671),

Gene: EmpTee_67 Start: 57028, Stop: 57300, Start Num: 14

Candidate Starts for EmpTee_67:

(Start: 14 @57028 has 125 MA's), (Start: 20 @57049 has 12 MA's), (Start: 23 @57058 has 30 MA's), (33, 57121), (39, 57148), (51, 57271),

Gene: Eremos_67 Start: 57023, Stop: 57295, Start Num: 14

Candidate Starts for Eremos_67:

(Start: 14 @57023 has 125 MA's), (Start: 20 @57044 has 12 MA's), (Start: 23 @57053 has 30 MA's), (33, 57116), (39, 57143), (51, 57266),

Gene: Etaye_67 Start: 57703, Stop: 57951, Start Num: 23

Candidate Starts for Etaye_67:

(Start: 12 @57649 has 74 MA's), (Start: 23 @57703 has 30 MA's), (32, 57772), (41, 57814),

Gene: Fang_69 Start: 57339, Stop: 57641, Start Num: 12

Candidate Starts for Fang_69:

(Start: 12 @57339 has 74 MA's), (Start: 23 @57393 has 30 MA's), (32, 57462), (41, 57504),

Gene: FleetyMac_71 Start: 56999, Stop: 57271, Start Num: 14

Candidate Starts for FleetyMac_71:

(Start: 14 @56999 has 125 MA's), (Start: 20 @57020 has 12 MA's), (Start: 23 @57029 has 30 MA's), (33, 57092), (39, 57119), (51, 57242),

Gene: FluffyNinja_68 Start: 57071, Stop: 57373, Start Num: 12

Candidate Starts for FluffyNinja_68:

(Start: 12 @57071 has 74 MA's), (Start: 23 @57125 has 30 MA's), (32, 57194), (41, 57236),

Gene: Frankicide_66 Start: 56878, Stop: 57120, Start Num: 23

Candidate Starts for Frankicide_66:

(Start: 14 @56848 has 125 MA's), (Start: 20 @56869 has 12 MA's), (Start: 23 @56878 has 30 MA's), (39, 56968), (51, 57091),

Gene: Freya_65 Start: 56508, Stop: 56780, Start Num: 14

Candidate Starts for Freya_65:

(Start: 14 @56508 has 125 MA's), (Start: 20 @56529 has 12 MA's), (Start: 23 @56538 has 30 MA's), (33, 56601), (39, 56628), (51, 56751),

Gene: FriarPreacher_66 Start: 56890, Stop: 57192, Start Num: 12

Candidate Starts for FriarPreacher_66:

(Start: 12 @56890 has 74 MA's), (Start: 23 @56944 has 30 MA's), (32, 57013), (41, 57055),

Gene: Fringe_72 Start: 57683, Stop: 57955, Start Num: 14

Candidate Starts for Fringe_72:

(Start: 14 @57683 has 125 MA's), (Start: 20 @57704 has 12 MA's), (Start: 23 @57713 has 30 MA's), (33, 57776), (39, 57803), (51, 57926),

Gene: FugateOSU_68 Start: 57843, Stop: 58145, Start Num: 12

Candidate Starts for FugateOSU_68:

(Start: 12 @57843 has 74 MA's), (Start: 23 @57897 has 30 MA's), (32, 57966), (41, 58008),

Gene: Gareth_68 Start: 57304, Stop: 57576, Start Num: 14

Candidate Starts for Gareth_68:

(Start: 14 @57304 has 125 MA's), (Start: 20 @57325 has 12 MA's), (Start: 23 @57334 has 30 MA's), (33, 57397), (39, 57424), (51, 57547),

Gene: Giraffe_68 Start: 57299, Stop: 57571, Start Num: 14

Candidate Starts for Giraffe_68:

(Start: 14 @57299 has 125 MA's), (Start: 20 @57320 has 12 MA's), (Start: 23 @57329 has 30 MA's), (33, 57392), (39, 57419), (51, 57542),

Gene: Gophee_69 Start: 57290, Stop: 57562, Start Num: 14

Candidate Starts for Gophee_69:

(Start: 14 @57290 has 125 MA's), (Start: 20 @57311 has 12 MA's), (Start: 23 @57320 has 30 MA's), (33, 57383), (39, 57410), (51, 57533),

Gene: Gwennie1_67 Start: 57190, Stop: 57462, Start Num: 14

Candidate Starts for Gwennie1_67:

(Start: 14 @57190 has 125 MA's), (Start: 20 @57211 has 12 MA's), (Start: 23 @57220 has 30 MA's), (39, 57310), (51, 57433),

Gene: Gwilliam_69 Start: 57728, Stop: 57970, Start Num: 23

Candidate Starts for Gwilliam_69:

(Start: 14 @57698 has 125 MA's), (Start: 20 @57719 has 12 MA's), (Start: 23 @57728 has 30 MA's), (39, 57818), (51, 57941),

Gene: HSavage_66 Start: 56826, Stop: 57098, Start Num: 14

Candidate Starts for HSavage_66:

(Start: 14 @56826 has 125 MA's), (Start: 20 @56847 has 12 MA's), (Start: 23 @56856 has 30 MA's), (33, 56919), (39, 56946), (51, 57069),

Gene: Haimas_66 Start: 56790, Stop: 57092, Start Num: 12

Candidate Starts for Haimas_66:

(Start: 12 @56790 has 74 MA's), (Start: 23 @56844 has 30 MA's), (32, 56913), (41, 56955),

Gene: Haleema_67 Start: 56845, Stop: 57117, Start Num: 14

Candidate Starts for Haleema_67:

(Start: 14 @56845 has 125 MA's), (Start: 20 @56866 has 12 MA's), (Start: 23 @56875 has 30 MA's), (33, 56938), (39, 56965), (51, 57088),

Gene: Hartsy_67 Start: 56987, Stop: 57259, Start Num: 14

Candidate Starts for Hartsy_67:

(Start: 14 @56987 has 125 MA's), (Start: 20 @57008 has 12 MA's), (Start: 23 @57017 has 30 MA's), (33, 57080), (39, 57107), (51, 57230),

Gene: Harvey_65 Start: 56819, Stop: 57121, Start Num: 12

Candidate Starts for Harvey_65:

(Start: 12 @56819 has 74 MA's), (Start: 23 @56873 has 30 MA's), (32, 56942), (41, 56984),

Gene: Hashim76_70 Start: 58554, Stop: 58817, Start Num: 20

Candidate Starts for Hashim76_70:

(15, 58521), (Start: 20 @58554 has 12 MA's), (Start: 23 @58563 has 30 MA's), (42, 58665), (44, 58686), (53, 58797),

Gene: Held_66 Start: 56793, Stop: 57095, Start Num: 12

Candidate Starts for Held_66:

(Start: 12 @56793 has 74 MA's), (Start: 23 @56847 has 30 MA's), (32, 56916), (41, 56958),

Gene: HenryJackson_68 Start: 57328, Stop: 57600, Start Num: 14

Candidate Starts for HenryJackson_68:

(Start: 14 @57328 has 125 MA's), (Start: 20 @57349 has 12 MA's), (Start: 23 @57358 has 30 MA's), (33, 57421), (35, 57424), (39, 57448), (51, 57571),

Gene: Hertubise_67 Start: 57094, Stop: 57366, Start Num: 14

Candidate Starts for Hertubise_67:

(Start: 14 @57094 has 125 MA's), (Start: 20 @57115 has 12 MA's), (Start: 23 @57124 has 30 MA's), (33, 57187), (39, 57214), (51, 57337),

Gene: Hetaeria_67 Start: 57034, Stop: 57306, Start Num: 14

Candidate Starts for Hetaeria_67:

(Start: 14 @57034 has 125 MA's), (Start: 20 @57055 has 12 MA's), (Start: 23 @57064 has 30 MA's), (33, 57127), (39, 57154), (51, 57277),

Gene: HighStump_69 Start: 57296, Stop: 57598, Start Num: 12

Candidate Starts for HighStump_69:

(Start: 12 @57296 has 74 MA's), (Start: 23 @57350 has 30 MA's), (32, 57419), (41, 57461),

Gene: Iridessa_69 Start: 56753, Stop: 57025, Start Num: 14

Candidate Starts for Iridessa_69:

(Start: 14 @56753 has 125 MA's), (Start: 20 @56774 has 12 MA's), (Start: 23 @56783 has 30 MA's), (33, 56846), (39, 56873), (51, 56996),

Gene: Iridoclysis_67 Start: 57107, Stop: 57409, Start Num: 12

Candidate Starts for Iridoclysis_67:

(Start: 12 @57107 has 74 MA's), (Start: 23 @57161 has 30 MA's), (32, 57230), (41, 57272),

Gene: IsaacEli_69 Start: 57317, Stop: 57589, Start Num: 14

Candidate Starts for IsaacEli_69:

(Start: 14 @57317 has 125 MA's), (Start: 20 @57338 has 12 MA's), (Start: 23 @57347 has 30 MA's), (33, 57410), (39, 57437), (51, 57560),

Gene: JDog_67 Start: 57338, Stop: 57610, Start Num: 14

Candidate Starts for JDog_67:

(Start: 14 @57338 has 125 MA's), (Start: 20 @57359 has 12 MA's), (Start: 23 @57368 has 30 MA's), (33, 57431), (39, 57458), (51, 57581),

Gene: JacAttac_68 Start: 56782, Stop: 57054, Start Num: 14

Candidate Starts for JacAttac_68:

(Start: 14 @56782 has 125 MA's), (Start: 20 @56803 has 12 MA's), (Start: 23 @56812 has 30 MA's), (33, 56875), (39, 56902), (51, 57025),

Gene: JakeO_69 Start: 57084, Stop: 57335, Start Num: 20

Candidate Starts for JakeO_69:

(Start: 20 @57084 has 12 MA's), (Start: 23 @57093 has 30 MA's), (33, 57156), (39, 57183), (51, 57306),

Gene: JangoPhett_102 Start: 57123, Stop: 57395, Start Num: 14

Candidate Starts for JangoPhett_102:

(Start: 14 @57123 has 125 MA's), (Start: 20 @57144 has 12 MA's), (Start: 23 @57153 has 30 MA's), (33, 57216), (39, 57243), (51, 57366),

Gene: Jesabah_70 Start: 57918, Stop: 58190, Start Num: 14

Candidate Starts for Jesabah_70:

(Start: 14 @57918 has 125 MA's), (Start: 20 @57939 has 12 MA's), (Start: 23 @57948 has 30 MA's), (33, 58011), (39, 58038), (51, 58161),

Gene: Jillium_68 Start: 57323, Stop: 57595, Start Num: 14

Candidate Starts for Jillium_68:

(Start: 14 @57323 has 125 MA's), (Start: 20 @57344 has 12 MA's), (Start: 23 @57353 has 30 MA's), (33, 57416), (39, 57443), (51, 57566),

Gene: Jiraiya_69 Start: 57095, Stop: 57367, Start Num: 14

Candidate Starts for Jiraiya_69:

(Start: 14 @57095 has 125 MA's), (Start: 20 @57116 has 12 MA's), (Start: 23 @57125 has 30 MA's), (39, 57215), (51, 57338),

Gene: KLUcky39_66 Start: 56669, Stop: 56941, Start Num: 14

Candidate Starts for KLUcky39_66:

(Start: 14 @56669 has 125 MA's), (Start: 20 @56690 has 12 MA's), (Start: 23 @56699 has 30 MA's), (33, 56762), (39, 56789), (51, 56912),

Gene: Kahve_68 Start: 57325, Stop: 57597, Start Num: 14

Candidate Starts for Kahve_68:

(Start: 14 @57325 has 125 MA's), (Start: 20 @57346 has 12 MA's), (Start: 23 @57355 has 30 MA's), (33, 57418), (35, 57421), (39, 57445), (51, 57568),

Gene: Kailash_66 Start: 57214, Stop: 57516, Start Num: 12

Candidate Starts for Kailash_66:

(Start: 12 @57214 has 74 MA's), (Start: 23 @57268 has 30 MA's), (32, 57337), (41, 57379),

Gene: Katniss_69 Start: 56765, Stop: 57037, Start Num: 14

Candidate Starts for Katniss_69:

(Start: 14 @56765 has 125 MA's), (Start: 20 @56786 has 12 MA's), (Start: 23 @56795 has 30 MA's), (33, 56858), (39, 56885), (51, 57008),

Gene: Keitherie_70 Start: 57387, Stop: 57659, Start Num: 14

Candidate Starts for Keitherie_70:

(Start: 14 @57387 has 125 MA's), (Start: 20 @57408 has 12 MA's), (Start: 23 @57417 has 30 MA's), (33, 57480), (39, 57507), (51, 57630),

Gene: Kikipoo_69 Start: 57317, Stop: 57589, Start Num: 14

Candidate Starts for Kikipoo_69:

(Start: 14 @57317 has 125 MA's), (Start: 20 @57338 has 12 MA's), (Start: 23 @57347 has 30 MA's), (33, 57410), (39, 57437), (51, 57560),

Gene: Kimbrough_69 Start: 57367, Stop: 57639, Start Num: 14

Candidate Starts for Kimbrough_69:

(Start: 14 @57367 has 125 MA's), (Start: 20 @57388 has 12 MA's), (Start: 23 @57397 has 30 MA's), (33, 57460), (39, 57487), (51, 57610),

Gene: KingTut_59 Start: 53521, Stop: 53823, Start Num: 12

Candidate Starts for KingTut_59:

(Start: 12 @53521 has 74 MA's), (Start: 23 @53575 has 30 MA's), (32, 53644), (41, 53686),

Gene: KingVeVeVe_66 Start: 56324, Stop: 56626, Start Num: 12

Candidate Starts for KingVeVeVe_66:

(Start: 12 @56324 has 74 MA's), (Start: 23 @56378 has 30 MA's), (32, 56447), (41, 56489),

Gene: KlimbOn_67 Start: 56826, Stop: 57098, Start Num: 14

Candidate Starts for KlimbOn_67:

(Start: 14 @56826 has 125 MA's), (Start: 20 @56847 has 12 MA's), (Start: 23 @56856 has 30 MA's), (33, 56919), (39, 56946), (51, 57069),

Gene: Kloppinator_68 Start: 56982, Stop: 57284, Start Num: 12

Candidate Starts for Kloppinator_68:

(Start: 12 @56982 has 74 MA's), (Start: 23 @57036 has 30 MA's), (32, 57105), (41, 57147),

Gene: Kwadwo_67 Start: 56776, Stop: 57048, Start Num: 14

Candidate Starts for Kwadwo_67:

(Start: 14 @56776 has 125 MA's), (Start: 20 @56797 has 12 MA's), (Start: 23 @56806 has 30 MA's), (33, 56869), (39, 56896), (51, 57019),

Gene: Kwksand96_68 Start: 56903, Stop: 57205, Start Num: 12

Candidate Starts for Kwksand96_68:

(Start: 12 @56903 has 74 MA's), (Start: 23 @56957 has 30 MA's), (32, 57026), (41, 57068),

Gene: Labeouficaum_68 Start: 56891, Stop: 57193, Start Num: 12

Candidate Starts for Labeouficaum_68:

(Start: 12 @56891 has 74 MA's), (Start: 23 @56945 has 30 MA's), (32, 57014), (41, 57056),

Gene: Lars_65 Start: 55572, Stop: 55823, Start Num: 23

Candidate Starts for Lars_65:

(Start: 20 @55563 has 12 MA's), (Start: 23 @55572 has 30 MA's), (28, 55617), (35, 55644), (40, 55671), (43, 55698), (47, 55740), (48, 55773), (50, 55782), (51, 55794),

Gene: LeeLot_67 Start: 57397, Stop: 57699, Start Num: 12

Candidate Starts for LeeLot_67:

(Start: 12 @57397 has 74 MA's), (Start: 23 @57451 has 30 MA's), (32, 57520), (41, 57562),

Gene: Lego3393_65 Start: 57349, Stop: 57651, Start Num: 12

Candidate Starts for Lego3393_65:

(Start: 12 @57349 has 74 MA's), (Start: 23 @57403 has 30 MA's), (32, 57472), (41, 57514),

Gene: Legolas_69 Start: 57190, Stop: 57438, Start Num: 23

Candidate Starts for Legolas_69:

(Start: 12 @57136 has 74 MA's), (Start: 23 @57190 has 30 MA's), (32, 57259), (41, 57301),

Gene: LemonSlice_68 Start: 56788, Stop: 57090, Start Num: 12

Candidate Starts for LemonSlice_68:

(Start: 12 @56788 has 74 MA's), (Start: 23 @56842 has 30 MA's), (32, 56911), (41, 56953),

Gene: LilMcDreamy_64 Start: 57921, Stop: 58187, Start Num: 19

Candidate Starts for LilMcDreamy_64:

(Start: 19 @57921 has 1 MA's), (21, 57930), (26, 57972), (31, 57993), (32, 57999), (42, 58047),

Gene: Longacauda_69 Start: 57172, Stop: 57444, Start Num: 14

Candidate Starts for Longacauda_69:

(Start: 14 @57172 has 125 MA's), (Start: 20 @57193 has 12 MA's), (Start: 23 @57202 has 30 MA's), (33, 57265), (39, 57292), (51, 57415),

Gene: LostAndPhound_67 Start: 57395, Stop: 57643, Start Num: 23

Candidate Starts for LostAndPhound_67:

(Start: 12 @57341 has 74 MA's), (Start: 23 @57395 has 30 MA's), (32, 57464), (41, 57506),

Gene: LuckyMarjie_65 Start: 56527, Stop: 56799, Start Num: 14

Candidate Starts for LuckyMarjie_65:

(Start: 14 @56527 has 125 MA's), (Start: 20 @56548 has 12 MA's), (Start: 23 @56557 has 30 MA's), (33, 56620), (39, 56647), (51, 56770),

Gene: Lulumae_65 Start: 56511, Stop: 56783, Start Num: 14

Candidate Starts for Lulumae_65:

(Start: 14 @56511 has 125 MA's), (Start: 20 @56532 has 12 MA's), (Start: 23 @56541 has 30 MA's), (33, 56604), (39, 56631), (51, 56754),

Gene: Lulwa_66 Start: 56139, Stop: 56381, Start Num: 23

Candidate Starts for Lulwa_66:

(Start: 14 @56109 has 125 MA's), (Start: 20 @56130 has 12 MA's), (Start: 23 @56139 has 30 MA's), (33, 56202), (39, 56229), (51, 56352),

Gene: Lumine_69 Start: 56995, Stop: 57267, Start Num: 14

Candidate Starts for Lumine_69:

(Start: 14 @56995 has 125 MA's), (Start: 20 @57016 has 12 MA's), (Start: 23 @57025 has 30 MA's), (33, 57088), (39, 57115), (51, 57238),

Gene: MRabcd_67 Start: 57164, Stop: 57412, Start Num: 23

Candidate Starts for MRabcd_67:

(Start: 12 @57110 has 74 MA's), (Start: 23 @57164 has 30 MA's), (32, 57233), (41, 57275),

Gene: Mag7_66 Start: 56812, Stop: 57060, Start Num: 23

Candidate Starts for Mag7_66:

(Start: 12 @56758 has 74 MA's), (Start: 23 @56812 has 30 MA's), (32, 56881), (41, 56923),

Gene: Mana_66 Start: 56783, Stop: 57085, Start Num: 12

Candidate Starts for Mana_66:

(Start: 12 @56783 has 74 MA's), (Start: 23 @56837 has 30 MA's), (32, 56906), (41, 56948),

Gene: Manad_67 Start: 57078, Stop: 57350, Start Num: 14

Candidate Starts for Manad_67:

(Start: 14 @57078 has 125 MA's), (Start: 20 @57099 has 12 MA's), (Start: 23 @57108 has 30 MA's), (33, 57171), (39, 57198), (51, 57321),

Gene: Maru_67 Start: 57222, Stop: 57524, Start Num: 12

Candidate Starts for Maru_67:

(Start: 12 @57222 has 74 MA's), (Start: 23 @57276 has 30 MA's), (32, 57345), (41, 57387),

Gene: Matalotodo_66 Start: 57622, Stop: 57924, Start Num: 12

Candidate Starts for Matalotodo_66:

(Start: 12 @57622 has 74 MA's), (Start: 23 @57676 has 30 MA's), (32, 57745), (41, 57787),

Gene: Mcshane_67 Start: 56789, Stop: 57061, Start Num: 14

Candidate Starts for Mcshane_67:

(Start: 14 @56789 has 125 MA's), (Start: 20 @56810 has 12 MA's), (Start: 23 @56819 has 30 MA's), (33, 56882), (39, 56909), (51, 57032),

Gene: Mecca_68 Start: 57354, Stop: 57626, Start Num: 14

Candidate Starts for Mecca_68:

(Start: 14 @57354 has 125 MA's), (Start: 20 @57375 has 12 MA's), (Start: 23 @57384 has 30 MA's), (33, 57447), (39, 57474), (51, 57597),

Gene: Megatron_68 Start: 57304, Stop: 57576, Start Num: 14

Candidate Starts for Megatron_68:

(Start: 14 @57304 has 125 MA's), (Start: 20 @57325 has 12 MA's), (Start: 23 @57334 has 30 MA's), (33, 57397), (39, 57424), (51, 57547),

Gene: Mesh1_68 Start: 57358, Stop: 57660, Start Num: 12

Candidate Starts for Mesh1_68:

(Start: 12 @57358 has 74 MA's), (Start: 23 @57412 has 30 MA's), (32, 57481), (41, 57523),

Gene: Mesmerelda_67 Start: 57347, Stop: 57619, Start Num: 14

Candidate Starts for Mesmerelda_67:

(Start: 14 @57347 has 125 MA's), (Start: 20 @57368 has 12 MA's), (Start: 23 @57377 has 30 MA's), (33, 57440), (39, 57467), (51, 57590),

Gene: MichaelPhcott_66 Start: 56755, Stop: 57057, Start Num: 12

Candidate Starts for MichaelPhcott_66:

(Start: 12 @56755 has 74 MA's), (Start: 23 @56809 has 30 MA's), (32, 56878), (41, 56920),

Gene: MitKao_67 Start: 56792, Stop: 57094, Start Num: 12

Candidate Starts for MitKao_67:

(Start: 12 @56792 has 74 MA's), (Start: 23 @56846 has 30 MA's), (32, 56915), (41, 56957),

Gene: Morgushi_66 Start: 56781, Stop: 57083, Start Num: 12

Candidate Starts for Morgushi_66:

(Start: 12 @56781 has 74 MA's), (Start: 23 @56835 has 30 MA's), (32, 56904), (41, 56946),

Gene: Morty_69 Start: 57318, Stop: 57590, Start Num: 14

Candidate Starts for Morty_69:

(Start: 14 @57318 has 125 MA's), (Start: 20 @57339 has 12 MA's), (Start: 23 @57348 has 30 MA's), (33, 57411), (39, 57438), (51, 57561),

Gene: Mosaic_65 Start: 56787, Stop: 57089, Start Num: 12

Candidate Starts for Mosaic_65:

(11, 56778), (Start: 12 @56787 has 74 MA's), (Start: 23 @56841 has 30 MA's), (32, 56910), (41, 56952),

Gene: MrPhizzler_71 Start: 57258, Stop: 57530, Start Num: 14

Candidate Starts for MrPhizzler_71:

(Start: 14 @57258 has 125 MA's), (Start: 20 @57279 has 12 MA's), (Start: 23 @57288 has 30 MA's), (33, 57351), (39, 57378), (51, 57501),

Gene: Mulan_67 Start: 57021, Stop: 57323, Start Num: 12

Candidate Starts for Mulan_67:

(Start: 12 @57021 has 74 MA's), (Start: 23 @57075 has 30 MA's), (32, 57144), (41, 57186),

Gene: Murdoc_65 Start: 57070, Stop: 57372, Start Num: 12

Candidate Starts for Murdoc_65:

(Start: 12 @57070 has 74 MA's), (Start: 23 @57124 has 30 MA's), (32, 57193), (41, 57235),

Gene: Mutante_68 Start: 56801, Stop: 57073, Start Num: 14

Candidate Starts for Mutante_68:

(Start: 14 @56801 has 125 MA's), (Start: 20 @56822 has 12 MA's), (Start: 23 @56831 has 30 MA's), (33, 56894), (39, 56921), (51, 57044),

Gene: Nacho_0071 Start: 57839, Stop: 58111, Start Num: 14

Candidate Starts for Nacho_0071:

(Start: 14 @57839 has 125 MA's), (Start: 20 @57860 has 12 MA's), (Start: 23 @57869 has 30 MA's), (33, 57932), (39, 57959), (51, 58082),

Gene: Newman_66 Start: 57116, Stop: 57388, Start Num: 14

Candidate Starts for Newman_66:

(Start: 14 @57116 has 125 MA's), (Start: 20 @57137 has 12 MA's), (Start: 23 @57146 has 30 MA's), (33, 57209), (39, 57236), (51, 57359),

Gene: Nicole21_69 Start: 57080, Stop: 57352, Start Num: 14

Candidate Starts for Nicole21_69:

(Start: 14 @57080 has 125 MA's), (Start: 20 @57101 has 12 MA's), (Start: 23 @57110 has 30 MA's), (33, 57173), (39, 57200), (51, 57323),

Gene: Numberten_67 Start: 57024, Stop: 57296, Start Num: 14

Candidate Starts for Numberten_67:

(Start: 14 @57024 has 125 MA's), (Start: 20 @57045 has 12 MA's), (Start: 23 @57054 has 30 MA's), (33, 57117), (39, 57144), (51, 57267),

Gene: Nyala_67 Start: 56799, Stop: 57071, Start Num: 14

Candidate Starts for Nyala_67:

(Start: 14 @56799 has 125 MA's), (Start: 20 @56820 has 12 MA's), (Start: 23 @56829 has 30 MA's), (33, 56892), (39, 56919), (51, 57042),

Gene: OSmaximus_68 Start: 57554, Stop: 57850, Start Num: 12

Candidate Starts for OSmaximus_68:

(10, 57536), (Start: 12 @57554 has 74 MA's), (Start: 20 @57599 has 12 MA's), (Start: 23 @57608 has 30 MA's), (35, 57674), (51, 57821),

Gene: Olak_67 Start: 56805, Stop: 57077, Start Num: 14

Candidate Starts for Olak_67:

(Start: 14 @56805 has 125 MA's), (Start: 20 @56826 has 12 MA's), (Start: 23 @56835 has 30 MA's), (33, 56898), (39, 56925), (51, 57048),

Gene: Oline_67 Start: 56953, Stop: 57255, Start Num: 12

Candidate Starts for Oline_67:

(Start: 12 @56953 has 74 MA's), (Start: 23 @57007 has 30 MA's), (32, 57076), (41, 57118),

Gene: OliverWalter_67 Start: 57124, Stop: 57396, Start Num: 14

Candidate Starts for OliverWalter_67:

(Start: 14 @57124 has 125 MA's), (Start: 20 @57145 has 12 MA's), (Start: 23 @57154 has 30 MA's), (33, 57217), (39, 57244), (51, 57367),

Gene: Omniscient_69 Start: 57662, Stop: 57934, Start Num: 14

Candidate Starts for Omniscient_69:

(Start: 14 @57662 has 125 MA's), (Start: 20 @57683 has 12 MA's), (Start: 23 @57692 has 30 MA's), (33, 57755), (39, 57782), (51, 57905),

Gene: Oosterbaan_67 Start: 57081, Stop: 57353, Start Num: 14

Candidate Starts for Oosterbaan_67:

(Start: 14 @57081 has 125 MA's), (Start: 20 @57102 has 12 MA's), (Start: 23 @57111 has 30 MA's), (33, 57174), (39, 57201), (51, 57324),

Gene: Orfeu_67 Start: 57338, Stop: 57610, Start Num: 14

Candidate Starts for Orfeu_67:

(Start: 14 @57338 has 125 MA's), (Start: 20 @57359 has 12 MA's), (Start: 23 @57368 has 30 MA's), (33, 57431), (39, 57458), (51, 57581),

Gene: Orwigg_67 Start: 56723, Stop: 56995, Start Num: 14

Candidate Starts for Orwigg_67:

(Start: 14 @56723 has 125 MA's), (Start: 20 @56744 has 12 MA's), (Start: 23 @56753 has 30 MA's), (33, 56816), (39, 56843), (51, 56966),

Gene: PG1_67 Start: 57314, Stop: 57586, Start Num: 14

Candidate Starts for PG1_67:

(Start: 14 @57314 has 125 MA's), (Start: 20 @57335 has 12 MA's), (Start: 23 @57344 has 30 MA's), (33, 57407), (39, 57434), (51, 57557),

Gene: Pacifista_67 Start: 56800, Stop: 57072, Start Num: 14

Candidate Starts for Pacifista_67:

(Start: 14 @56800 has 125 MA's), (Start: 20 @56821 has 12 MA's), (Start: 23 @56830 has 30 MA's), (33, 56893), (39, 56920), (51, 57043),

Gene: PenguinLover67_63 Start: 57825, Stop: 58076, Start Num: 20

Candidate Starts for PenguinLover67_63:

(Start: 20 @57825 has 12 MA's), (Start: 23 @57834 has 30 MA's), (35, 57894), (38, 57906), (42, 57936), (44, 57957),

Gene: Phamished_69 Start: 57004, Stop: 57306, Start Num: 12

Candidate Starts for Phamished_69:

(Start: 12 @57004 has 74 MA's), (Start: 23 @57058 has 30 MA's), (32, 57127), (41, 57169),

Gene: PhatCats2014_68 Start: 57319, Stop: 57591, Start Num: 14

Candidate Starts for PhatCats2014_68:

(Start: 14 @57319 has 125 MA's), (Start: 20 @57340 has 12 MA's), (Start: 23 @57349 has 30 MA's), (33, 57412), (39, 57439), (51, 57562),

Gene: PhatLouie_70 Start: 57338, Stop: 57610, Start Num: 14

Candidate Starts for PhatLouie_70:

(Start: 14 @57338 has 125 MA's), (Start: 20 @57359 has 12 MA's), (Start: 23 @57368 has 30 MA's), (33, 57431), (39, 57458), (51, 57581),

Gene: Phelemich_64 Start: 58168, Stop: 58425, Start Num: 20

Candidate Starts for Phelemich_64:

(Start: 16 @58141 has 4 MA's), (Start: 20 @58168 has 12 MA's), (Start: 23 @58177 has 30 MA's), (30, 58237), (35, 58243), (41, 58279), (45, 58321), (49, 58375),

Gene: PhenghisKhan_68 Start: 56960, Stop: 57262, Start Num: 12

Candidate Starts for PhenghisKhan_68:

(Start: 12 @56960 has 74 MA's), (Start: 23 @57014 has 30 MA's), (32, 57083), (41, 57125),

Gene: Pherdinand_68 Start: 57073, Stop: 57375, Start Num: 12

Candidate Starts for Pherdinand_68:

(Start: 12 @57073 has 74 MA's), (Start: 23 @57127 has 30 MA's), (32, 57196), (41, 57238),

Gene: Phergie_68 Start: 56952, Stop: 57254, Start Num: 12

Candidate Starts for Phergie_68:

(Start: 12 @56952 has 74 MA's), (Start: 23 @57006 has 30 MA's), (32, 57075), (41, 57117),

Gene: Phipps_67 Start: 56871, Stop: 57173, Start Num: 12

Candidate Starts for Phipps_67:

(Start: 12 @56871 has 74 MA's), (Start: 23 @56925 has 30 MA's), (32, 56994), (41, 57036),

Gene: Phleuron_66 Start: 56758, Stop: 57060, Start Num: 12

Candidate Starts for Phleuron_66:

(Start: 12 @56758 has 74 MA's), (Start: 23 @56812 has 30 MA's), (32, 56881), (41, 56923),

Gene: PhrankReynolds_67 Start: 56957, Stop: 57259, Start Num: 12

Candidate Starts for PhrankReynolds_67:

(Start: 12 @56957 has 74 MA's), (Start: 23 @57011 has 30 MA's), (32, 57080), (41, 57122),

Gene: PhrodoBaggins_69 Start: 57177, Stop: 57479, Start Num: 12

Candidate Starts for PhrodoBaggins_69:

(Start: 12 @57177 has 74 MA's), (Start: 23 @57231 has 30 MA's), (32, 57300), (41, 57342),

Gene: Phunky_66 Start: 56822, Stop: 57094, Start Num: 14

Candidate Starts for Phunky_66:

(Start: 14 @56822 has 125 MA's), (Start: 20 @56843 has 12 MA's), (Start: 23 @56852 has 30 MA's), (33, 56915), (39, 56942), (51, 57065),

Gene: Piglet_0068 Start: 57291, Stop: 57563, Start Num: 14

Candidate Starts for Piglet_0068:

(Start: 14 @57291 has 125 MA's), (Start: 20 @57312 has 12 MA's), (Start: 23 @57321 has 30 MA's), (33, 57384), (39, 57411), (51, 57534),

Gene: PinheadLarry_67 Start: 57119, Stop: 57421, Start Num: 12

Candidate Starts for PinheadLarry_67:

(Start: 12 @57119 has 74 MA's), (Start: 23 @57173 has 30 MA's), (32, 57242), (41, 57284),

Gene: Pinkman_67 Start: 56895, Stop: 57197, Start Num: 12

Candidate Starts for Pinkman_67:

(Start: 12 @56895 has 74 MA's), (Start: 23 @56949 has 30 MA's), (32, 57018), (41, 57060),

Gene: Pipsqueak_65 Start: 56798, Stop: 57100, Start Num: 12

Candidate Starts for Pipsqueak_65:

(Start: 12 @56798 has 74 MA's), (Start: 23 @56852 has 30 MA's), (32, 56921), (41, 56963),

Gene: Placalicious_68 Start: 57839, Stop: 58141, Start Num: 12

Candidate Starts for Placalicious_68:

(Start: 12 @57839 has 74 MA's), (Start: 23 @57893 has 30 MA's), (32, 57962), (41, 58004),

Gene: Plmatters_66 Start: 56864, Stop: 57112, Start Num: 23

Candidate Starts for Plmatters_66:

(Start: 12 @56810 has 74 MA's), (Start: 23 @56864 has 30 MA's), (32, 56933), (41, 56975),

Gene: Podrick_67 Start: 56879, Stop: 57181, Start Num: 12

Candidate Starts for Podrick_67:

(Start: 12 @56879 has 74 MA's), (Start: 23 @56933 has 30 MA's), (32, 57002), (41, 57044),

Gene: Pops_66 Start: 56842, Stop: 57093, Start Num: 20

Candidate Starts for Pops_66:

(Start: 20 @56842 has 12 MA's), (Start: 23 @56851 has 30 MA's), (33, 56914), (39, 56941), (51, 57064),

Gene: Prickles_69 Start: 57305, Stop: 57607, Start Num: 12

Candidate Starts for Prickles_69:

(Start: 12 @57305 has 74 MA's), (Start: 23 @57359 has 30 MA's), (32, 57428), (41, 57470),

Gene: ProfessorX_66 Start: 56815, Stop: 57087, Start Num: 14

Candidate Starts for ProfessorX_66:

(Start: 14 @56815 has 125 MA's), (Start: 20 @56836 has 12 MA's), (Start: 23 @56845 has 30 MA's), (33, 56908), (39, 56935), (51, 57058),

Gene: Puhltonio_66 Start: 57079, Stop: 57381, Start Num: 12

Candidate Starts for Puhltonio_66:

(Start: 12 @57079 has 74 MA's), (Start: 23 @57133 has 30 MA's), (32, 57202), (41, 57244),

Gene: QueenBeane_68 Start: 57139, Stop: 57390, Start Num: 20

Candidate Starts for QueenBeane_68:

(Start: 14 @57118 has 125 MA's), (Start: 20 @57139 has 12 MA's), (Start: 23 @57148 has 30 MA's), (33, 57211), (39, 57238), (51, 57361),

Gene: Quisquiliae_69 Start: 57079, Stop: 57351, Start Num: 14

Candidate Starts for Quisquiliae_69:

(Start: 14 @57079 has 125 MA's), (Start: 20 @57100 has 12 MA's), (Start: 23 @57109 has 30 MA's), (33, 57172), (39, 57199), (51, 57322),

Gene: Reprobate_65 Start: 58173, Stop: 58430, Start Num: 20

Candidate Starts for Reprobate_65:

(Start: 16 @58146 has 4 MA's), (Start: 20 @58173 has 12 MA's), (Start: 23 @58182 has 30 MA's), (30, 58242), (35, 58248), (41, 58284), (45, 58326), (49, 58380),

Gene: Rich_66 Start: 59397, Stop: 59645, Start Num: 23

Candidate Starts for Rich_66:

(Start: 16 @59361 has 4 MA's), (Start: 20 @59388 has 12 MA's), (Start: 23 @59397 has 30 MA's), (35, 59463), (44, 59526), (45, 59541), (49, 59595), (52, 59631), (54, 59640),

Gene: Ricotta_68 Start: 56812, Stop: 57084, Start Num: 14

Candidate Starts for Ricotta_68:

(Start: 14 @56812 has 125 MA's), (Start: 20 @56833 has 12 MA's), (Start: 23 @56842 has 30 MA's), (39, 56932), (51, 57055),

Gene: Riggan_69 Start: 57111, Stop: 57383, Start Num: 14

Candidate Starts for Riggan_69:

(Start: 14 @57111 has 125 MA's), (Start: 20 @57132 has 12 MA's), (Start: 23 @57141 has 30 MA's), (33, 57204), (39, 57231), (51, 57354),

Gene: Rimu_68 Start: 57279, Stop: 57551, Start Num: 14

Candidate Starts for Rimu_68:

(Start: 14 @57279 has 125 MA's), (Start: 20 @57300 has 12 MA's), (Start: 23 @57309 has 30 MA's), (39, 57399), (51, 57522),

Gene: Rita130_66 Start: 58235, Stop: 58483, Start Num: 23

Candidate Starts for Rita130_66:

(Start: 16 @58199 has 4 MA's), (Start: 20 @58226 has 12 MA's), (Start: 23 @58235 has 30 MA's), (35, 58301), (45, 58379), (46, 58391), (49, 58433), (52, 58469),

Gene: Riverton_67 Start: 57041, Stop: 57313, Start Num: 14

Candidate Starts for Riverton_67:

(Start: 14 @57041 has 125 MA's), (Start: 20 @57062 has 12 MA's), (Start: 23 @57071 has 30 MA's), (33, 57134), (39, 57161), (51, 57284),

Gene: Robyn_68 Start: 57384, Stop: 57656, Start Num: 14

Candidate Starts for Robyn_68:

(Start: 14 @57384 has 125 MA's), (Start: 20 @57405 has 12 MA's), (Start: 23 @57414 has 30 MA's), (33, 57477), (39, 57504), (51, 57627),

Gene: Roliet_65 Start: 56199, Stop: 56447, Start Num: 23

Candidate Starts for Roliet_65:

(Start: 12 @56145 has 74 MA's), (Start: 23 @56199 has 30 MA's), (32, 56268), (41, 56310),

Gene: Roscoe_68 Start: 57258, Stop: 57530, Start Num: 14

Candidate Starts for Roscoe_68:

(Start: 14 @57258 has 125 MA's), (Start: 20 @57279 has 12 MA's), (Start: 23 @57288 has 30 MA's), (39, 57378), (51, 57501),

Gene: Roy17_66 Start: 56511, Stop: 56783, Start Num: 14

Candidate Starts for Roy17_66:

(Start: 14 @56511 has 125 MA's), (Start: 20 @56532 has 12 MA's), (Start: 23 @56541 has 30 MA's), (33, 56604), (39, 56631), (51, 56754),

Gene: SDcharge11_67 Start: 56317, Stop: 56619, Start Num: 12

Candidate Starts for SDcharge11_67:

(Start: 12 @56317 has 74 MA's), (Start: 23 @56371 has 30 MA's), (32, 56440), (41, 56482),

Gene: SallyH_70 Start: 57110, Stop: 57358, Start Num: 23

Candidate Starts for SallyH_70:

(Start: 12 @57056 has 74 MA's), (Start: 23 @57110 has 30 MA's), (32, 57179), (41, 57221),

Gene: Samaymay_68 Start: 57118, Stop: 57390, Start Num: 14

Candidate Starts for Samaymay_68:

(Start: 14 @57118 has 125 MA's), (Start: 20 @57139 has 12 MA's), (Start: 23 @57148 has 30 MA's), (33, 57211), (39, 57238), (51, 57361),

Gene: SassyCat97_66 Start: 56794, Stop: 57096, Start Num: 12

Candidate Starts for SassyCat97_66:

(Start: 12 @56794 has 74 MA's), (Start: 23 @56848 has 30 MA's), (32, 56917), (41, 56959),

Gene: Schadenfreude_68 Start: 56686, Stop: 56958, Start Num: 14

Candidate Starts for Schadenfreude_68:

(Start: 14 @56686 has 125 MA's), (Start: 20 @56707 has 12 MA's), (Start: 23 @56716 has 30 MA's), (33, 56779), (39, 56806), (51, 56929),

Gene: Scoot17C_68 Start: 56745, Stop: 57017, Start Num: 14

Candidate Starts for Scoot17C_68:

(Start: 14 @56745 has 125 MA's), (Start: 20 @56766 has 12 MA's), (Start: 23 @56775 has 30 MA's), (33, 56838), (39, 56865), (51, 56988),

Gene: Selr12_69 Start: 56827, Stop: 57099, Start Num: 14

Candidate Starts for Selr12_69:

(Start: 14 @56827 has 125 MA's), (Start: 20 @56848 has 12 MA's), (Start: 23 @56857 has 30 MA's), (33, 56920), (39, 56947), (51, 57070),

Gene: Serendipitous_65 Start: 57769, Stop: 58026, Start Num: 23

Candidate Starts for Serendipitous_65:

(9, 57688), (22, 57763), (Start: 23 @57769 has 30 MA's), (43, 57895), (45, 57922), (49, 57976),

Gene: Serendipity_67 Start: 57100, Stop: 57372, Start Num: 14

Candidate Starts for Serendipity_67:

(Start: 14 @57100 has 125 MA's), (Start: 20 @57121 has 12 MA's), (Start: 23 @57130 has 30 MA's), (33, 57193), (39, 57220), (51, 57343),

Gene: Serpentine_0068 Start: 57183, Stop: 57455, Start Num: 14

Candidate Starts for Serpentine_0068:

(Start: 14 @57183 has 125 MA's), (Start: 20 @57204 has 12 MA's), (Start: 23 @57213 has 30 MA's), (33, 57276), (39, 57303), (51, 57426),

Gene: ShadowBud_69 Start: 57076, Stop: 57348, Start Num: 14

Candidate Starts for ShadowBud_69:

(Start: 14 @57076 has 125 MA's), (Start: 20 @57097 has 12 MA's), (Start: 23 @57106 has 30 MA's), (33, 57169), (39, 57196), (51, 57319),

Gene: ShiVal_66 Start: 56826, Stop: 57098, Start Num: 14

Candidate Starts for ShiVal_66:

(Start: 14 @56826 has 125 MA's), (Start: 20 @56847 has 12 MA's), (Start: 23 @56856 has 30 MA's), (33, 56919), (39, 56946), (51, 57069),

Gene: Sigman_68 Start: 56782, Stop: 57054, Start Num: 14

Candidate Starts for Sigman_68:

(Start: 14 @56782 has 125 MA's), (Start: 20 @56803 has 12 MA's), (Start: 23 @56812 has 30 MA's), (33, 56875), (39, 56902), (51, 57025),

Gene: Simielle_68 Start: 56783, Stop: 57055, Start Num: 14

Candidate Starts for Simielle_68:

(Start: 14 @56783 has 125 MA's), (Start: 20 @56804 has 12 MA's), (Start: 23 @56813 has 30 MA's), (33, 56876), (39, 56903), (51, 57026),

Gene: SirBeauregard_69 Start: 57349, Stop: 57621, Start Num: 14

Candidate Starts for SirBeauregard_69:

(Start: 14 @57349 has 125 MA's), (Start: 20 @57370 has 12 MA's), (Start: 23 @57379 has 30 MA's), (33, 57442), (39, 57469), (51, 57592),

Gene: SirJeffery_66 Start: 58371, Stop: 58619, Start Num: 23

Candidate Starts for SirJeffery_66:

(Start: 16 @58335 has 4 MA's), (Start: 20 @58362 has 12 MA's), (Start: 23 @58371 has 30 MA's), (35, 58437), (45, 58515), (49, 58569), (51, 58584), (52, 58605),

Gene: Skippy_69 Start: 57036, Stop: 57308, Start Num: 14

Candidate Starts for Skippy_69:

(Start: 14 @57036 has 125 MA's), (Start: 20 @57057 has 12 MA's), (Start: 23 @57066 has 30 MA's), (33, 57129), (39, 57156), (51, 57279),

Gene: Slatt_68 Start: 57090, Stop: 57392, Start Num: 12

Candidate Starts for Slatt_68:

(Start: 12 @57090 has 74 MA's), (Start: 23 @57144 has 30 MA's), (32, 57213), (41, 57255),

Gene: Soile_69 Start: 57332, Stop: 57604, Start Num: 14

Candidate Starts for Soile_69:

(Start: 14 @57332 has 125 MA's), (Start: 20 @57353 has 12 MA's), (Start: 23 @57362 has 30 MA's), (39, 57452), (51, 57575),

Gene: Solosis_66 Start: 56843, Stop: 57091, Start Num: 23

Candidate Starts for Solosis_66:

(Start: 12 @56789 has 74 MA's), (Start: 23 @56843 has 30 MA's), (32, 56912), (41, 56954),

Gene: Sophia_66 Start: 56836, Stop: 57084, Start Num: 23

Candidate Starts for Sophia_66:

(Start: 12 @56782 has 74 MA's), (Start: 23 @56836 has 30 MA's), (32, 56905), (41, 56947),

Gene: Soto_65 Start: 56349, Stop: 56651, Start Num: 12

Candidate Starts for Soto_65:

(Start: 12 @56349 has 74 MA's), (Start: 23 @56403 has 30 MA's), (32, 56472), (41, 56514),

Gene: Spartan300_67 Start: 57023, Stop: 57295, Start Num: 14

Candidate Starts for Spartan300_67:

(Start: 14 @57023 has 125 MA's), (Start: 20 @57044 has 12 MA's), (Start: 23 @57053 has 30 MA's), (33, 57116), (39, 57143), (51, 57266),

Gene: Squid_67 Start: 57082, Stop: 57384, Start Num: 12

Candidate Starts for Squid_67:

(Start: 12 @57082 has 74 MA's), (Start: 23 @57136 has 30 MA's), (32, 57205), (41, 57247),

Gene: Squiggle_67 Start: 56801, Stop: 57103, Start Num: 12

Candidate Starts for Squiggle_67:

(Start: 12 @56801 has 74 MA's), (Start: 23 @56855 has 30 MA's), (32, 56924), (41, 56966),

Gene: Struggle_68 Start: 56927, Stop: 57169, Start Num: 23

Candidate Starts for Struggle_68:

(Start: 20 @56918 has 12 MA's), (Start: 23 @56927 has 30 MA's), (33, 56990), (39, 57017), (51, 57140),

Gene: Suffolk_66 Start: 56596, Stop: 56868, Start Num: 14

Candidate Starts for Suffolk_66:

(Start: 14 @56596 has 125 MA's), (Start: 20 @56617 has 12 MA's), (Start: 23 @56626 has 30 MA's), (33, 56689), (39, 56716), (51, 56839),

Gene: Suigeneris_68 Start: 58477, Stop: 58761, Start Num: 16

Candidate Starts for Suigeneris_68:

(Start: 16 @58477 has 4 MA's), (Start: 20 @58504 has 12 MA's), (Start: 23 @58513 has 30 MA's), (35, 58579), (45, 58657), (49, 58711), (51, 58726), (52, 58747),

Gene: Surely_68 Start: 57426, Stop: 57674, Start Num: 23

Candidate Starts for Surely_68:

(Start: 12 @57372 has 74 MA's), (Start: 23 @57426 has 30 MA's), (32, 57495), (41, 57537),

Gene: Swiphy_70 Start: 57338, Stop: 57610, Start Num: 14

Candidate Starts for Swiphy_70:

(Start: 14 @57338 has 125 MA's), (Start: 20 @57359 has 12 MA's), (Start: 23 @57368 has 30 MA's), (33, 57431), (39, 57458), (51, 57581),

Gene: Swish_68 Start: 57058, Stop: 57360, Start Num: 12

Candidate Starts for Swish_68:

(Start: 12 @57058 has 74 MA's), (Start: 23 @57112 has 30 MA's), (32, 57181), (41, 57223),

Gene: TallGrassMM_66 Start: 56698, Stop: 57000, Start Num: 12

Candidate Starts for TallGrassMM_66:

(Start: 12 @56698 has 74 MA's), (Start: 23 @56752 has 30 MA's), (32, 56821), (41, 56863),

Gene: Telesworld_66 Start: 56912, Stop: 57184, Start Num: 14

Candidate Starts for Telesworld_66:

(Start: 14 @56912 has 125 MA's), (Start: 20 @56933 has 12 MA's), (Start: 23 @56942 has 30 MA's), (33, 57005), (39, 57032), (51, 57155),

Gene: Thonko_67 Start: 56230, Stop: 56466, Start Num: 25

Candidate Starts for Thonko_67:

(1, 55804), (5, 55999), (7, 56032), (17, 56158), (22, 56191), (Start: 23 @56197 has 30 MA's), (Start: 25 @56230 has 1 MA's), (29, 56260), (42, 56326), (44, 56347), (45, 56362),

Gene: Thora_66 Start: 57138, Stop: 57440, Start Num: 12

Candidate Starts for Thora_66:

(Start: 12 @57138 has 74 MA's), (Start: 23 @57192 has 30 MA's), (32, 57261), (41, 57303),

Gene: ThreeOh3D2_69 Start: 57310, Stop: 57582, Start Num: 14

Candidate Starts for ThreeOh3D2_69:

(Start: 14 @57310 has 125 MA's), (Start: 20 @57331 has 12 MA's), (Start: 23 @57340 has 30 MA's), (33, 57403), (39, 57430), (51, 57553),

Gene: Thunderbird_68 Start: 57071, Stop: 57322, Start Num: 20

Candidate Starts for Thunderbird_68:

(Start: 20 @57071 has 12 MA's), (Start: 23 @57080 has 30 MA's), (33, 57143), (39, 57170), (51, 57293),

Gene: Timmi_67 Start: 56794, Stop: 57066, Start Num: 14

Candidate Starts for Timmi_67:

(Start: 14 @56794 has 125 MA's), (Start: 20 @56815 has 12 MA's), (Start: 23 @56824 has 30 MA's), (33, 56887), (39, 56914), (51, 57037),

Gene: TomBombadil_68 Start: 57410, Stop: 57658, Start Num: 23

Candidate Starts for TomBombadil_68:

(Start: 12 @57356 has 74 MA's), (Start: 23 @57410 has 30 MA's), (32, 57479), (41, 57521),

Gene: Tomlarah_69 Start: 57647, Stop: 57919, Start Num: 14

Candidate Starts for Tomlarah_69:

(Start: 14 @57647 has 125 MA's), (Start: 20 @57668 has 12 MA's), (Start: 23 @57677 has 30 MA's), (33, 57740), (39, 57767), (51, 57890),

Gene: Toni_68 Start: 57239, Stop: 57511, Start Num: 14

Candidate Starts for Toni_68:

(Start: 14 @57239 has 125 MA's), (Start: 20 @57260 has 12 MA's), (Start: 23 @57269 has 30 MA's), (33, 57332), (39, 57359), (51, 57482),

Gene: Tooj_66 Start: 56464, Stop: 56736, Start Num: 14

Candidate Starts for Tooj_66:

(Start: 14 @56464 has 125 MA's), (Start: 20 @56485 has 12 MA's), (Start: 23 @56494 has 30 MA's), (33, 56557), (39, 56584), (51, 56707),

Gene: True_66 Start: 56803, Stop: 57075, Start Num: 14

Candidate Starts for True_66:

(Start: 14 @56803 has 125 MA's), (Start: 20 @56824 has 12 MA's), (Start: 23 @56833 has 30 MA's), (33, 56896), (39, 56923), (51, 57046),

Gene: Trypo_69 Start: 57523, Stop: 57825, Start Num: 12

Candidate Starts for Trypo_69:

(Start: 12 @57523 has 74 MA's), (Start: 23 @57577 has 30 MA's), (32, 57646), (41, 57688),

Gene: TyrionL_68 Start: 56891, Stop: 57193, Start Num: 12

Candidate Starts for TyrionL_68:

(Start: 12 @56891 has 74 MA's), (Start: 23 @56945 has 30 MA's), (32, 57014), (41, 57056),

Gene: UncleHowie_65 Start: 56493, Stop: 56795, Start Num: 12

Candidate Starts for UncleHowie_65:

(Start: 12 @56493 has 74 MA's), (Start: 23 @56547 has 30 MA's), (32, 56616), (41, 56658),

Gene: Usavi_69 Start: 57492, Stop: 57734, Start Num: 23

Candidate Starts for Usavi_69:

(Start: 14 @57462 has 125 MA's), (Start: 20 @57483 has 12 MA's), (Start: 23 @57492 has 30 MA's), (33, 57555), (39, 57582), (51, 57705),

Gene: Vaishali24_68 Start: 57154, Stop: 57405, Start Num: 20

Candidate Starts for Vaishali24_68:

(Start: 14 @57133 has 125 MA's), (Start: 20 @57154 has 12 MA's), (Start: 23 @57163 has 30 MA's),
(33, 57226), (39, 57253), (44, 57292), (51, 57376),

Gene: Valjean_67 Start: 57033, Stop: 57305, Start Num: 14

Candidate Starts for Valjean_67:

(Start: 14 @57033 has 125 MA's), (Start: 20 @57054 has 12 MA's), (Start: 23 @57063 has 30 MA's),
(33, 57126), (39, 57153), (51, 57276),

Gene: Vaticameos_65 Start: 55337, Stop: 55609, Start Num: 14

Candidate Starts for Vaticameos_65:

(Start: 14 @55337 has 125 MA's), (Start: 20 @55358 has 12 MA's), (Start: 23 @55367 has 30 MA's),
(33, 55430), (39, 55457), (51, 55580),

Gene: Veritas_67 Start: 57024, Stop: 57272, Start Num: 23

Candidate Starts for Veritas_67:

(Start: 12 @56970 has 74 MA's), (Start: 23 @57024 has 30 MA's), (32, 57093), (41, 57135),

Gene: Virapocalypse_69 Start: 57132, Stop: 57404, Start Num: 14

Candidate Starts for Virapocalypse_69:

(Start: 14 @57132 has 125 MA's), (Start: 20 @57153 has 12 MA's), (Start: 23 @57162 has 30 MA's),
(33, 57225), (39, 57252), (51, 57375),

Gene: Vista_66 Start: 56794, Stop: 57096, Start Num: 12

Candidate Starts for Vista_66:

(Start: 12 @56794 has 74 MA's), (Start: 23 @56848 has 30 MA's), (32, 56917), (41, 56959),

Gene: Vivaldi_68 Start: 57255, Stop: 57557, Start Num: 12

Candidate Starts for Vivaldi_68:

(Start: 12 @57255 has 74 MA's), (Start: 23 @57309 has 30 MA's), (32, 57378), (41, 57420),

Gene: Vortex_67 Start: 57078, Stop: 57380, Start Num: 12

Candidate Starts for Vortex_67:

(Start: 12 @57078 has 74 MA's), (Start: 23 @57132 has 30 MA's), (32, 57201), (41, 57243),

Gene: Wallhey_68 Start: 56955, Stop: 57203, Start Num: 23

Candidate Starts for Wallhey_68:

(Start: 12 @56901 has 74 MA's), (Start: 23 @56955 has 30 MA's), (32, 57024), (41, 57066),

Gene: Waterdiva_68 Start: 57166, Stop: 57438, Start Num: 14

Candidate Starts for Waterdiva_68:

(Start: 14 @57166 has 125 MA's), (Start: 20 @57187 has 12 MA's), (Start: 23 @57196 has 30 MA's),
(33, 57259), (39, 57286), (51, 57409),

Gene: Weher20_65 Start: 57467, Stop: 57715, Start Num: 23

Candidate Starts for Weher20_65:

(11, 57404), (Start: 23 @57467 has 30 MA's), (32, 57536), (41, 57578),

Gene: Windsor_68 Start: 57353, Stop: 57625, Start Num: 14

Candidate Starts for Windsor_68:

(Start: 14 @57353 has 125 MA's), (Start: 20 @57374 has 12 MA's), (Start: 23 @57383 has 30 MA's),
(33, 57446), (39, 57473), (51, 57596),

Gene: Xavier_67 Start: 56794, Stop: 57066, Start Num: 14

Candidate Starts for Xavier_67:

(Start: 14 @56794 has 125 MA's), (Start: 20 @56815 has 12 MA's), (Start: 23 @56824 has 30 MA's),
(33, 56887), (39, 56914), (51, 57037),

Gene: Yoshand_68 Start: 57071, Stop: 57373, Start Num: 12

Candidate Starts for Yoshand_68:

(Start: 12 @57071 has 74 MA's), (Start: 23 @57125 has 30 MA's), (32, 57194), (41, 57236),

Gene: YouGoGlencoco_68 Start: 57137, Stop: 57385, Start Num: 23

Candidate Starts for YouGoGlencoco_68:

(Start: 12 @57083 has 74 MA's), (Start: 23 @57137 has 30 MA's), (32, 57206), (41, 57248),

Gene: Zaider_69 Start: 57303, Stop: 57545, Start Num: 23

Candidate Starts for Zaider_69:

(Start: 14 @57273 has 125 MA's), (Start: 20 @57294 has 12 MA's), (Start: 23 @57303 has 30 MA's),
(33, 57366), (39, 57393), (51, 57516),

Gene: Zelda_68 Start: 57477, Stop: 57725, Start Num: 23

Candidate Starts for Zelda_68:

(Start: 12 @57423 has 74 MA's), (Start: 23 @57477 has 30 MA's), (32, 57546), (41, 57588),

Gene: Zenteno07_73 Start: 58751, Stop: 59014, Start Num: 23

Candidate Starts for Zenteno07_73:

(8, 58664), (15, 58709), (Start: 20 @58742 has 12 MA's), (Start: 23 @58751 has 30 MA's), (27, 58790),
(34, 58817), (36, 58820), (37, 58826), (40, 58844), (44, 58883), (53, 58994),

Gene: Zonia_68 Start: 57352, Stop: 57654, Start Num: 12

Candidate Starts for Zonia_68:

(Start: 12 @57352 has 74 MA's), (Start: 23 @57406 has 30 MA's), (32, 57475), (41, 57517),