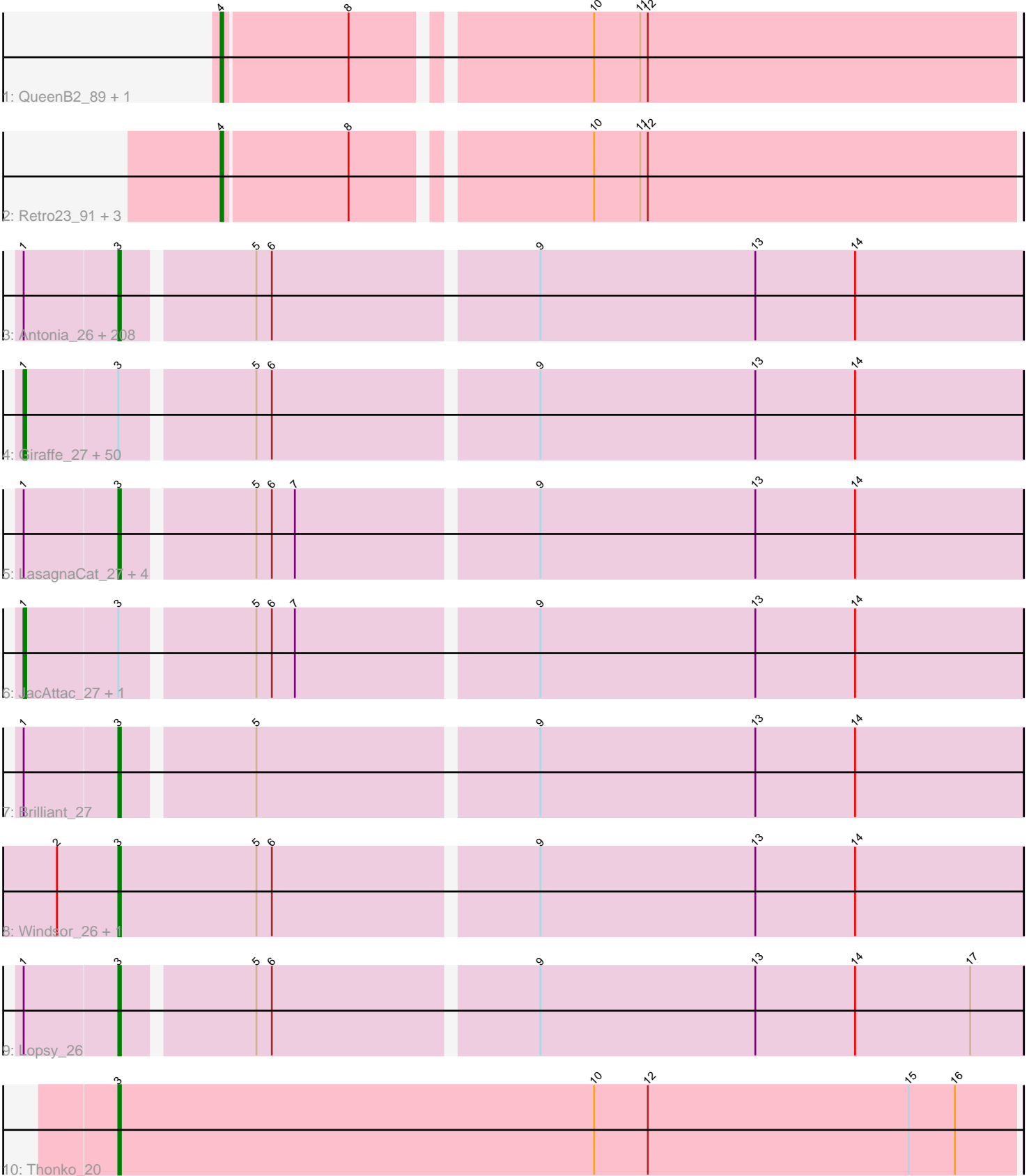


Pham 84764



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 84764 Report

This analysis was run 04/28/24 on database version 559.

Pham number 84764 has 278 members, 27 are drafts.

Phages represented in each track:

- Track 1 : QueenB2_89, Anselm_93
- Track 2 : Retro23_91, Benvolio_90, Echid_95, DudeLittle_89
- Track 3 : Antonia_26, Mag7_26, IsaacEli_27, SassyCat97_26, Kwksand96_26, Jiminy_26, Dice_28, Spartan300_27, Fringe_27, Haimas_27, Solosis_26, Banjo_26, Crownjwl_27, Chah_28, Roliet_27, Iridoclysis_27, Megamind20_27, Burr_26, Newman_27, Buckeye_27, Katniss_27, MRabcd_26, Kikipoo_27, Oline_26, Pops_27, Plmatters_27, Chunky_27, Telesworld_26, Kailash_27, Charles1_27, Adriana_27, Dione_26, Schueller_27, Lasso_27, UAch1_27, Simielle_26, GeneCoco_27, Sheila_27, Nicole21_27, Mesh1_27, Samaymay_27, Mana_26, Daffy_27, Dati_27, DuchessDung_25, DelRivs_26, QueenBeane_27, DaddyDaniels_27, Daka_27, Phleuron_26, True_26, Cornobble_26, Lumine_26, Megatron_27, Freya_26, Grand2040_26, Chute_26, MiniBoss_27, Hocus_26, Omniscient_27, TomBombadil_27, Duggie_26, Soile_27, Hamish_27, AltPhacts_27, Maru_26, Selr12_27, Rimu_28, Kloppinator_27, Craff_27, Swiphy_28, PhatCats2014_27, Badfish_27, MelsMeow_26, Inchworm_27, Scoot17C_27, Andre_27, Potter_26, ThreeOh3D2_27, BlackStallion_27, Childish_26, HSavage_27, Timmi_26, Zaider_28, Matalotodo_26, Valjean_27, JangoPhett_27, Mecca_26, Mcshane_26, FluffyNinja_27, LostAndPhound_26, Basato_28, Horchata_27, Morty_27, BlueHusk_27, Ashraf_26, Placalicious_26, Struggle_26, ImtiyazSitla_26, Olive_27, CamL_27, Vivaldi_27, HenryJackson_26, Hartsy_26, Roscoe_28, Usavi_27, Fozzie_26, Phamished_27, Swish_27, Zelda_27, Weher20_27, HighStump_26, EmpTee_27, JDog_27, FugateOSU_26, Eugenia_27, Vaishali24_26, DoesntMatter_27, Bishoperium_26, Murdoc_27, PhrankReynolds_26, Mutante_26, Carthage_25, Robyn_26, Longacauda_26, Prickles_27, Serendipity_27, Podrick_27, Orion_27, Durga_27, Maskar_26, Lulwa_27, Nyala_26, LuckyMarjie_26, Orwigg_27, MichaelPhcott_26, CheetO_27, Colbert_27, Emiris_27, PG1_27, Phareon_27, Altwerkus_26, Phergie_26, Pherdinand_27, AbsoluteMadLad_26, Frankicide_27, CampRoach_26, Tooj_27, PhatLouie_27, Kahve_26, Fang_27, Mikota_27, Inverness_27, LeiMonet_27, Magic8_27, Waterdiva_27, Bluephacebaby_26, Dingo_27, Boehler_27, Yoshand_27, RedMaple_26, YouGoGlencoco_27, Quisquilliae_27, Etaye_27, Squiggle_27, Kimbrough_27, Melc17_27, Cosmolli16_26, Pacifista_28, LemonSlice_27, Cher_26, TyrionL_26, Wallhey_26, Beaglebox_26, Aelin_26, Vaticameos_27, Legolas_26, JakeO_26, Cannibal_27, Labeouficaum_26, Phenghiskhan_26, Trypo_27, Toni_26, Tomlarah_27, Gophee_27, CharlieGBrown_26, Schadenfreude_26, MrPhizzler_26, Veritas_26, TallGrassMM_27, Scrick_27, Jillium_26, Sophia_26, Haleema_26, Pipsqueak_27, Skippy_27, Surely_27, Eremos_27, ProfessorX_27, Apizium_26, Gwilliam_27,

Chorkpop_27, Coletti_26, Riggan_27, SDcharge11_27, Slatt_27, Pinkman_26, Doddsville_27, MitKao_27

- Track 4 : Giraffe_27, Gyarad_0027, Serpentine_0027, Virapocalypse_27, Harvey_27, Anderson_27, Kwadwo_26, Puhltonio_27, Manad_26, Squid_27, Hertubise_27, Cobra_27, Hetaeria_27, ABU_27, Ricotta_27, Oosterbaan_27, Phipps_27, Held_27, Lego3393_27, Lulumae_26, Virgeve_26, BatteryCK_26, Orfeu_26, KingVeVeVe_27, Olak_27, FriarPreacher_27, Roy17_27, Thora_27, Vista_27, OliverWalter_27, Piglet_0026, Nacho_0027, Derpp_26, Zonia_27, LeeLot_27, UncleHowie_27, KlimbOn_27, Thunderbird_27, ShiVal_27, KLucky39_27, Suffolk_27, Numberten_27, PinheadLarry_27, DonSancho_26, Jiraiya_27, OSmaximus_27, Phunky_27, Mosaic_26, Vortex_27, Xavier_26, Morgushi_27
- Track 5 : LasagnaCat_27, Mulan_26, Sigman_27, DirtJuice_27, PhrodoBaggins_26
- Track 6 : JacAttac_27, Soto_27
- Track 7 : Brilliant_27
- Track 8 : Windsor_26, Keitherie_27
- Track 9 : Lopsy_26
- Track 10 : Thonko_20

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

The start number called the most often in the published annotations is 3, it was called in 197 of the 251 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AbsoluteMadLad_26, Adriana_27, Aelin_26, AltPhacts_27, Altwerkus_26, Andre_27, Antonia_26, Apizium_26, Ashraf_26, Badfish_27, Banjo_26, Basato_28, Beaglebox_26, Bishoperium_26, BlackStallion_27, BlueHusk_27, Bluephacebaby_26, Boehler_27, Brilliant_27, Buckeye_27, Burr_26, CamL_27, CampRoach_26, Cannibal_27, Carthage_25, Chah_28, Charles1_27, CharlieGBrown_26, CheetO_27, Cher_26, Childish_26, Chorkpop_27, Chunky_27, Chute_26, Colbert_27, Coletti_26, Cornobble_26, Cosmolli16_26, Craff_27, Crownjwl_27, DaddyDaniels_27, Daffy_27, Daka_27, Dati_27, DelRivs_26, Dice_28, Dingo_27, Dione_26, DirtJuice_27, Doddsville_27, DoesntMatter_27, DuchessDung_25, Duggie_26, Durga_27, Emiris_27, EmpTee_27, Eremos_27, Etaye_27, Eugenia_27, Fang_27, FluffyNinja_27, Fozzie_26, Frankicide_27, Freya_26, Fringe_27, FugateOSU_26, GeneCoco_27, Gophee_27, Grand2040_26, Gwilliam_27, HSavage_27, Haimas_27, Haleema_26, Hamish_27, Hartsy_26, HenryJackson_26, HighStump_26, Hocus_26, Horchata_27, ImtiyazSitla_26, Inchworm_27, Inverness_27, Iridoclysis_27, IsaacEli_27, JDog_27, JakeO_26, JangoPhett_27, Jillium_26, Jiminy_26, Kahve_26, Kailash_27, Katniss_27, Keitherie_27, Kikipoo_27, Kimbrough_27, Kloppinator_27, Kwksand96_26, Labeoufcaum_26, LasagnaCat_27, Lasso_27, Legolas_26, LeiMonet_27, LemonSlice_27, Longacauda_26, Lopsy_26, LostAndPhound_26, LuckyMarjie_26, Lulwa_27, Lumine_26, MRabcd_26, Mag7_26, Magic8_27, Mana_26, Maru_26, Maskar_26, Matalotodo_26, Mcshane_26, Mecca_26, Megamind20_27, Megatron_27, Melc17_27, MelsMeow_26, Mesh1_27, MichaelPhcott_26, Mikota_27, MiniBoss_27, MitKao_27, Morty_27, MrPhizzler_26, Mulan_26, Murdoc_27, Mutante_26, Newman_27, Nicole21_27, Nyala_26, Oline_26, Olive_27, Omniscient_27, Orion_27, Orwigg_27, PG1_27, Pacifista_28, Phamished_27, Phareon_27, PhatCats2014_27, PhatLouie_27, PhenghisKhan_26, Pherdinand_27,

Phergie_26, Phleuron_26, PhrankReynolds_26, PhrodoBaggins_26, Pinkman_26, Pipsqueak_27, Placalicious_26, Plmatters_27, Podrick_27, Pops_27, Potter_26, Prickles_27, ProfessorX_27, QueenBeane_27, Quisquilliae_27, RedMaple_26, Riggan_27, Rimu_28, Robyn_26, Roliet_27, Roscoe_28, SDcharge11_27, Samaymay_27, SassyCat97_26, Schadenfreude_26, Schueller_27, Scoot17C_27, Scrick_27, Selr12_27, Serendipity_27, Sheila_27, Sigman_27, Simielle_26, Skippy_27, Slatt_27, Soile_27, Solosis_26, Sophia_26, Spartan300_27, Squiggle_27, Struggle_26, Surely_27, Swiphy_28, Swish_27, TallGrassMM_27, Telesworld_26, Thonko_20, ThreeOh3D2_27, Timmi_26, TomBombadil_27, Tomlarah_27, Toni_26, Tooj_27, True_26, Trypo_27, TyrionL_26, UAch1_27, Usavi_27, Vaishali24_26, Valjean_27, Vaticameos_27, Veritas_26, Vivaldi_27, Wallhey_26, Waterdiva_27, Weher20_27, Windsor_26, Yoshand_27, YouGoGlencoco_27, Zaider_28, Zelda_27,

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

- ABU_27, Anderson_27, BatteryCK_26, Cobra_27, Derpp_26, DonSanchon_26, FriarPreacher_27, Giraffe_27, Gyarad_0027, Harvey_27, Held_27, Hertubise_27, Hetaeria_27, JacAttac_27, Jiraiya_27, KLUcky39_27, KingVeVeVe_27, KlimbOn_27, Kwadwo_26, LeeLot_27, Lego3393_27, Lulumae_26, Manad_26, Morgushi_27, Mosaic_26, Nacho_0027, Numberten_27, OSmaximus_27, Olak_27, OliverWalter_27, Oosterbaan_27, Orfeu_26, Phipps_27, Phunky_27, Piglet_0026, PinheadLarry_27, Puhltonio_27, Ricotta_27, Roy17_27, Serpentine_0027, ShiVal_27, Soto_27, Squid_27, Suffolk_27, Thora_27, Thunderbird_27, UncleHowie_27, Virapocalypse_27, Virgeve_26, Vista_27, Vortex_27, Xavier_26, Zonia_27,

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

- Anselm_93, Benvolio_90, DudeLittle_89, Echid_95, QueenB2_89, Retro23_91,

Summary by start number:

Start 1:

- Found in 269 of 278 (96.8%) of genes in pham
- Manual Annotations of this start: 48 of 251
- Called 19.7% of time when present
- Phage (with cluster) where this start called: ABU_27 (B1), Anderson_27 (B1), BatteryCK_26 (B1), Cobra_27 (B1), Derpp_26 (B1), DonSanchon_26 (B1), FriarPreacher_27 (B1), Giraffe_27 (B1), Gyarad_0027 (B1), Harvey_27 (B1), Held_27 (B1), Hertubise_27 (B1), Hetaeria_27 (B1), JacAttac_27 (B1), Jiraiya_27 (B1), KLUcky39_27 (B1), KingVeVeVe_27 (B1), KlimbOn_27 (B1), Kwadwo_26 (B1), LeeLot_27 (B1), Lego3393_27 (B1), Lulumae_26 (B1), Manad_26 (B1), Morgushi_27 (B1), Mosaic_26 (B1), Nacho_0027 (B1), Numberten_27 (B1), OSmaximus_27 (B1), Olak_27 (B1), OliverWalter_27 (B1), Oosterbaan_27 (B1), Orfeu_26 (B1), Phipps_27 (B1), Phunky_27 (B1), Piglet_0026 (B1), PinheadLarry_27 (B1), Puhltonio_27 (B1), Ricotta_27 (B1), Roy17_27 (B1), Serpentine_0027 (B1), ShiVal_27 (B1), Soto_27 (B1), Squid_27 (B1), Suffolk_27 (B1), Thora_27 (B1), Thunderbird_27 (B1), UncleHowie_27 (B1), Virapocalypse_27 (B1), Virgeve_26 (B1), Vista_27 (B1), Vortex_27 (B1), Xavier_26 (B1), Zonia_27 (B1),

Start 3:

- Found in 272 of 278 (97.8%) of genes in pham
- Manual Annotations of this start: 197 of 251
- Called 80.5% of time when present

• Phage (with cluster) where this start called: AbsoluteMadLad_26 (B1), Adriana_27 (B1), Aelin_26 (B1), AltPhacts_27 (B1), Altwerkus_26 (B1), Andre_27 (B1), Antonia_26 (B1), Apizium_26 (B1), Ashraf_26 (B1), Badfish_27 (B1), Banjo_26 (B1), Basato_28 (B1), Beaglebox_26 (B1), Bishoperium_26 (B1), BlackStallion_27 (B1), BlueHusk_27 (B1), Bluephacebaby_26 (B1), Boehler_27 (B1), Brilliant_27 (B1), Buckeye_27 (B1), Burr_26 (B1), CamL_27 (B1), CampRoach_26 (B1), Cannibal_27 (B1), Carthage_25 (B1), Chah_28 (B1), Charles1_27 (B1), CharlieGBrown_26 (B1), CheetO_27 (B1), Cher_26 (B1), Childish_26 (B1), Chorkpop_27 (B1), Chunky_27 (B1), Chute_26 (B1), Colbert_27 (B1), Coletti_26 (B1), Cornobble_26 (B1), Cosmolli16_26 (B1), Craff_27 (B1), Crownjwl_27 (B1), DaddyDaniels_27 (B1), Daffy_27 (B1), Daka_27 (B1), Dati_27 (B1), DelRivs_26 (B1), Dice_28 (B1), Dingo_27 (B1), Dione_26 (B1), DirtJuice_27 (B1), Doddsville_27 (B1), DoesntMatter_27 (B1), DuchessDung_25 (B1), Duggie_26 (B1), Durga_27 (B1), Emiris_27 (B1), EmpTee_27 (B1), Eremos_27 (B1), Etaye_27 (B1), Eugenia_27 (B1), Fang_27 (B1), FluffyNinja_27 (B1), Fozzie_26 (B1), Frankicide_27 (B1), Freya_26 (B1), Fringe_27 (B1), FugateOSU_26 (B1), GeneCoco_27 (B1), Gophee_27 (B1), Grand2040_26 (B1), Gwilliam_27 (B1), HSavage_27 (B1), Haimas_27 (B1), Haleema_26 (B1), Hamish_27 (B1), Hartsy_26 (B1), HenryJackson_26 (B1), HighStump_26 (B1), Hocus_26 (B1), Horchata_27 (B1), ImtiyazSitla_26 (B1), Inchworm_27 (B1), Inverness_27 (B1), Iridoclysis_27 (B1), IsaacEli_27 (B1), JDog_27 (B1), JakeO_26 (B1), JangoPhett_27 (B1), Jillium_26 (B1), Jiminy_26 (B1), Kahve_26 (B1), Kailash_27 (B1), Katniss_27 (B1), Keitherie_27 (B1), Kikipoo_27 (B1), Kimbrough_27 (B1), Kloppinator_27 (B1), Kwksand96_26 (B1), Labeouficaum_26 (B1), LasagnaCat_27 (B1), Lasso_27 (B1), Legolas_26 (B1), LeiMonet_27 (B1), LemonSlice_27 (B1), Longacauda_26 (B1), Lopsy_26 (B1), LostAndPhound_26 (B1), LuckyMarjie_26 (B1), Lulwa_27 (B1), Lumine_26 (B1), MRabcd_26 (B1), Mag7_26 (B1), Magic8_27 (B1), Mana_26 (B1), Maru_26 (B1), Maskar_26 (B1), Matalotodo_26 (B1), Mcshane_26 (B1), Mecca_26 (B1), Megamind20_27 (B1), Megatron_27 (B1), Melc17_27 (B1), MelsMeow_26 (B1), Mesh1_27 (B1), MichaelPhcott_26 (B1), Mikota_27 (B1), MiniBoss_27 (B1), MitKao_27 (B1), Morty_27 (B1), MrPhizzler_26 (B1), Mulan_26 (B1), Murdoc_27 (B1), Mutante_26 (B1), Newman_27 (B1), Nicole21_27 (B1), Nyala_26 (B1), Oline_26 (B1), Olive_27 (B1), Omniscient_27 (B1), Orion_27 (B1), Orwigg_27 (B1), PG1_27 (B1), Pacifista_28 (B1), Phamished_27 (B1), Phareon_27 (B1), PhatCats2014_27 (B1), PhatLouie_27 (B1), PhenghisKhan_26 (B1), Pherdinand_27 (B1), Phergie_26 (B1), Phleuron_26 (B1), PhrankReynolds_26 (B1), PhrodoBaggins_26 (B1), Pinkman_26 (B1), Pipsqueak_27 (B1), Placalicious_26 (B1), Plmatters_27 (B1), Podrick_27 (B1), Pops_27 (B1), Potter_26 (B1), Prickles_27 (B1), ProfessorX_27 (B1), QueenBeane_27 (B1), Quisquiliae_27 (B1), RedMaple_26 (B1), Riggan_27 (B1), Rimu_28 (B1), Robyn_26 (B1), Roliet_27 (B1), Roscoe_28 (B1), SDcharge11_27 (B1), Samaymay_27 (B1), SassyCat97_26 (B1), Schadenfreude_26 (B1), Schueller_27 (B1), Scoot17C_27 (B1), Scrick_27 (B1), Selr12_27 (B1), Serendipity_27 (B1), Sheila_27 (B1), Sigman_27 (B1), Simielle_26 (B1), Skippy_27 (B1), Slatt_27 (B1), Soile_27 (B1), Solosis_26 (B1), Sophia_26 (B1), Spartan300_27 (B1), Squiggle_27 (B1), Struggle_26 (B1), Surely_27 (B1), Swiphy_28 (B1), Swish_27 (B1), TallGrassMM_27 (B1), Telesworld_26 (B1), Thonko_20 (B8), ThreeOh3D2_27 (B1), Timmi_26 (B1), TomBombadil_27 (B1), Tomlarah_27 (B1), Toni_26 (B1), Tooj_27 (B1), True_26 (B1), Trypo_27 (B1), TyrionL_26 (B1), UAch1_27 (B1), Usavi_27 (B1), Vaishali24_26 (B1), Valjean_27 (B1), Vaticameos_27 (B1), Veritas_26 (B1), Vivaldi_27 (B1), Wallhey_26 (B1), Waterdiva_27 (B1), Weher20_27 (B1), Windsor_26 (B1), Yoshand_27 (B1), YouGoGlencoco_27 (B1), Zaider_28 (B1), Zelda_27 (B1),

Start 4:

- Found in 6 of 278 (2.2%) of genes in pham
- Manual Annotations of this start: 6 of 251
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Anselm_93 (A2), Benvolio_90 (A2), DudeLittle_89 (A2), Echid_95 (A2), QueenB2_89 (A2), Retro23_91 (A2),

Summary by clusters:

There are 3 clusters represented in this pham: A2, B8, B1,

Info for manual annotations of cluster A2:

- Start number 4 was manually annotated 6 times for cluster A2.

Info for manual annotations of cluster B1:

- Start number 1 was manually annotated 48 times for cluster B1.
- Start number 3 was manually annotated 196 times for cluster B1.

Info for manual annotations of cluster B8:

- Start number 3 was manually annotated 1 time for cluster B8.

Gene Information:

Gene: ABU_27 Start: 20145, Stop: 19768, Start Num: 1

Candidate Starts for ABU_27:

(Start: 1 @20145 has 48 MA's), (Start: 3 @20109 has 197 MA's), (5, 20061), (6, 20055), (9, 19956), (13, 19872), (14, 19833),

Gene: AbsoluteMadLad_26 Start: 20109, Stop: 19768, Start Num: 3

Candidate Starts for AbsoluteMadLad_26:

(Start: 1 @20145 has 48 MA's), (Start: 3 @20109 has 197 MA's), (5, 20061), (6, 20055), (9, 19956), (13, 19872), (14, 19833),

Gene: Adriana_27 Start: 20107, Stop: 19766, Start Num: 3

Candidate Starts for Adriana_27:

(Start: 1 @20143 has 48 MA's), (Start: 3 @20107 has 197 MA's), (5, 20059), (6, 20053), (9, 19954), (13, 19870), (14, 19831),

Gene: Aelin_26 Start: 19670, Stop: 19329, Start Num: 3

Candidate Starts for Aelin_26:

(Start: 1 @19706 has 48 MA's), (Start: 3 @19670 has 197 MA's), (5, 19622), (6, 19616), (9, 19517), (13, 19433), (14, 19394),

Gene: AltPhacts_27 Start: 20099, Stop: 19758, Start Num: 3

Candidate Starts for AltPhacts_27:

(Start: 1 @20135 has 48 MA's), (Start: 3 @20099 has 197 MA's), (5, 20051), (6, 20045), (9, 19946), (13, 19862), (14, 19823),

Gene: Altwerkus_26 Start: 19799, Stop: 19458, Start Num: 3

Candidate Starts for Altwerkus_26:

(Start: 1 @19835 has 48 MA's), (Start: 3 @19799 has 197 MA's), (5, 19751), (6, 19745), (9, 19646), (13, 19562), (14, 19523),

Gene: Anderson_27 Start: 20138, Stop: 19761, Start Num: 1

Candidate Starts for Anderson_27:

(Start: 1 @20138 has 48 MA's), (Start: 3 @20102 has 197 MA's), (5, 20054), (6, 20048), (9, 19949), (13, 19865), (14, 19826),

Gene: Andre_27 Start: 20100, Stop: 19759, Start Num: 3

Candidate Starts for Andre_27:

(Start: 1 @20136 has 48 MA's), (Start: 3 @20100 has 197 MA's), (5, 20052), (6, 20046), (9, 19947), (13, 19863), (14, 19824),

Gene: Anselm_93 Start: 50548, Stop: 50252, Start Num: 4

Candidate Starts for Anselm_93:

(Start: 4 @50548 has 6 MA's), (8, 50500), (10, 50416), (11, 50398), (12, 50395),

Gene: Antonia_26 Start: 19670, Stop: 19329, Start Num: 3

Candidate Starts for Antonia_26:

(Start: 1 @19706 has 48 MA's), (Start: 3 @19670 has 197 MA's), (5, 19622), (6, 19616), (9, 19517), (13, 19433), (14, 19394),

Gene: Apizium_26 Start: 19864, Stop: 19523, Start Num: 3

Candidate Starts for Apizium_26:

(Start: 1 @19900 has 48 MA's), (Start: 3 @19864 has 197 MA's), (5, 19816), (6, 19810), (9, 19711), (13, 19627), (14, 19588),

Gene: Ashraf_26 Start: 19668, Stop: 19327, Start Num: 3

Candidate Starts for Ashraf_26:

(Start: 1 @19704 has 48 MA's), (Start: 3 @19668 has 197 MA's), (5, 19620), (6, 19614), (9, 19515), (13, 19431), (14, 19392),

Gene: Badfish_27 Start: 20131, Stop: 19790, Start Num: 3

Candidate Starts for Badfish_27:

(Start: 1 @20167 has 48 MA's), (Start: 3 @20131 has 197 MA's), (5, 20083), (6, 20077), (9, 19978), (13, 19894), (14, 19855),

Gene: Banjo_26 Start: 19810, Stop: 19469, Start Num: 3

Candidate Starts for Banjo_26:

(Start: 1 @19846 has 48 MA's), (Start: 3 @19810 has 197 MA's), (5, 19762), (6, 19756), (9, 19657), (13, 19573), (14, 19534),

Gene: Basato_28 Start: 20335, Stop: 19994, Start Num: 3

Candidate Starts for Basato_28:

(Start: 1 @20371 has 48 MA's), (Start: 3 @20335 has 197 MA's), (5, 20287), (6, 20281), (9, 20182), (13, 20098), (14, 20059),

Gene: BatteryCK_26 Start: 19732, Stop: 19349, Start Num: 1

Candidate Starts for BatteryCK_26:

(Start: 1 @19732 has 48 MA's), (Start: 3 @19696 has 197 MA's), (5, 19642), (6, 19636), (9, 19537), (13, 19453), (14, 19414),

Gene: Beaglebox_26 Start: 19830, Stop: 19489, Start Num: 3

Candidate Starts for Beaglebox_26:

(Start: 1 @19866 has 48 MA's), (Start: 3 @19830 has 197 MA's), (5, 19782), (6, 19776), (9, 19677), (13, 19593), (14, 19554),

Gene: Benvolio_90 Start: 50164, Stop: 49868, Start Num: 4

Candidate Starts for Benvolio_90:

(Start: 4 @50164 has 6 MA's), (8, 50116), (10, 50032), (11, 50014), (12, 50011),

Gene: Bishoperium_26 Start: 19816, Stop: 19475, Start Num: 3

Candidate Starts for Bishoperium_26:

(Start: 1 @19852 has 48 MA's), (Start: 3 @19816 has 197 MA's), (5, 19768), (6, 19762), (9, 19663), (13, 19579), (14, 19540),

Gene: BlackStallion_27 Start: 20121, Stop: 19780, Start Num: 3

Candidate Starts for BlackStallion_27:

(Start: 1 @20157 has 48 MA's), (Start: 3 @20121 has 197 MA's), (5, 20073), (6, 20067), (9, 19968), (13, 19884), (14, 19845),

Gene: BlueHusk_27 Start: 19618, Stop: 19277, Start Num: 3

Candidate Starts for BlueHusk_27:

(Start: 1 @19654 has 48 MA's), (Start: 3 @19618 has 197 MA's), (5, 19570), (6, 19564), (9, 19465), (13, 19381), (14, 19342),

Gene: Bluephacebaby_26 Start: 19816, Stop: 19475, Start Num: 3

Candidate Starts for Bluephacebaby_26:

(Start: 1 @19852 has 48 MA's), (Start: 3 @19816 has 197 MA's), (5, 19768), (6, 19762), (9, 19663), (13, 19579), (14, 19540),

Gene: Boehler_27 Start: 20122, Stop: 19781, Start Num: 3

Candidate Starts for Boehler_27:

(Start: 1 @20158 has 48 MA's), (Start: 3 @20122 has 197 MA's), (5, 20074), (6, 20068), (9, 19969), (13, 19885), (14, 19846),

Gene: Brilliant_27 Start: 19824, Stop: 19483, Start Num: 3

Candidate Starts for Brilliant_27:

(Start: 1 @19860 has 48 MA's), (Start: 3 @19824 has 197 MA's), (5, 19776), (9, 19671), (13, 19587), (14, 19548),

Gene: Buckeye_27 Start: 20136, Stop: 19795, Start Num: 3

Candidate Starts for Buckeye_27:

(Start: 1 @20172 has 48 MA's), (Start: 3 @20136 has 197 MA's), (5, 20088), (6, 20082), (9, 19983), (13, 19899), (14, 19860),

Gene: Burr_26 Start: 19815, Stop: 19474, Start Num: 3

Candidate Starts for Burr_26:

(Start: 1 @19851 has 48 MA's), (Start: 3 @19815 has 197 MA's), (5, 19767), (6, 19761), (9, 19662), (13, 19578), (14, 19539),

Gene: CamL_27 Start: 20114, Stop: 19773, Start Num: 3

Candidate Starts for CamL_27:

(Start: 1 @20150 has 48 MA's), (Start: 3 @20114 has 197 MA's), (5, 20066), (6, 20060), (9, 19961), (13, 19877), (14, 19838),

Gene: CampRoach_26 Start: 20107, Stop: 19766, Start Num: 3
Candidate Starts for CampRoach_26:
(Start: 1 @20143 has 48 MA's), (Start: 3 @20107 has 197 MA's), (5, 20059), (6, 20053), (9, 19954),
(13, 19870), (14, 19831),

Gene: Cannibal_27 Start: 20100, Stop: 19759, Start Num: 3
Candidate Starts for Cannibal_27:
(Start: 1 @20136 has 48 MA's), (Start: 3 @20100 has 197 MA's), (5, 20052), (6, 20046), (9, 19947),
(13, 19863), (14, 19824),

Gene: Carthage_25 Start: 19026, Stop: 18685, Start Num: 3
Candidate Starts for Carthage_25:
(Start: 1 @19062 has 48 MA's), (Start: 3 @19026 has 197 MA's), (5, 18978), (6, 18972), (9, 18873),
(13, 18789), (14, 18750),

Gene: Chah_28 Start: 20134, Stop: 19793, Start Num: 3
Candidate Starts for Chah_28:
(Start: 1 @20170 has 48 MA's), (Start: 3 @20134 has 197 MA's), (5, 20086), (6, 20080), (9, 19981),
(13, 19897), (14, 19858),

Gene: Charles1_27 Start: 20099, Stop: 19758, Start Num: 3
Candidate Starts for Charles1_27:
(Start: 1 @20135 has 48 MA's), (Start: 3 @20099 has 197 MA's), (5, 20051), (6, 20045), (9, 19946),
(13, 19862), (14, 19823),

Gene: CharlieGBrown_26 Start: 19688, Stop: 19347, Start Num: 3
Candidate Starts for CharlieGBrown_26:
(Start: 1 @19724 has 48 MA's), (Start: 3 @19688 has 197 MA's), (5, 19640), (6, 19634), (9, 19535),
(13, 19451), (14, 19412),

Gene: CheetO_27 Start: 20113, Stop: 19772, Start Num: 3
Candidate Starts for CheetO_27:
(Start: 1 @20149 has 48 MA's), (Start: 3 @20113 has 197 MA's), (5, 20065), (6, 20059), (9, 19960),
(13, 19876), (14, 19837),

Gene: Cher_26 Start: 19839, Stop: 19498, Start Num: 3
Candidate Starts for Cher_26:
(Start: 1 @19875 has 48 MA's), (Start: 3 @19839 has 197 MA's), (5, 19791), (6, 19785), (9, 19686),
(13, 19602), (14, 19563),

Gene: Childish_26 Start: 19827, Stop: 19486, Start Num: 3
Candidate Starts for Childish_26:
(Start: 1 @19863 has 48 MA's), (Start: 3 @19827 has 197 MA's), (5, 19779), (6, 19773), (9, 19674),
(13, 19590), (14, 19551),

Gene: Chorkpop_27 Start: 19838, Stop: 19497, Start Num: 3
Candidate Starts for Chorkpop_27:
(Start: 1 @19874 has 48 MA's), (Start: 3 @19838 has 197 MA's), (5, 19790), (6, 19784), (9, 19685),
(13, 19601), (14, 19562),

Gene: Chunky_27 Start: 20122, Stop: 19781, Start Num: 3
Candidate Starts for Chunky_27:

(Start: 1 @20158 has 48 MA's), (Start: 3 @20122 has 197 MA's), (5, 20074), (6, 20068), (9, 19969), (13, 19885), (14, 19846),

Gene: Chute_26 Start: 20154, Stop: 19813, Start Num: 3

Candidate Starts for Chute_26:

(Start: 1 @20190 has 48 MA's), (Start: 3 @20154 has 197 MA's), (5, 20106), (6, 20100), (9, 20001), (13, 19917), (14, 19878),

Gene: Cobra_27 Start: 20155, Stop: 19778, Start Num: 1

Candidate Starts for Cobra_27:

(Start: 1 @20155 has 48 MA's), (Start: 3 @20119 has 197 MA's), (5, 20071), (6, 20065), (9, 19966), (13, 19882), (14, 19843),

Gene: Colbert_27 Start: 20172, Stop: 19831, Start Num: 3

Candidate Starts for Colbert_27:

(Start: 1 @20208 has 48 MA's), (Start: 3 @20172 has 197 MA's), (5, 20124), (6, 20118), (9, 20019), (13, 19935), (14, 19896),

Gene: Coletti_26 Start: 20154, Stop: 19813, Start Num: 3

Candidate Starts for Coletti_26:

(Start: 1 @20190 has 48 MA's), (Start: 3 @20154 has 197 MA's), (5, 20106), (6, 20100), (9, 20001), (13, 19917), (14, 19878),

Gene: Cornobble_26 Start: 19674, Stop: 19333, Start Num: 3

Candidate Starts for Cornobble_26:

(Start: 1 @19710 has 48 MA's), (Start: 3 @19674 has 197 MA's), (5, 19626), (6, 19620), (9, 19521), (13, 19437), (14, 19398),

Gene: Cosmolli16_26 Start: 19833, Stop: 19492, Start Num: 3

Candidate Starts for Cosmolli16_26:

(Start: 1 @19869 has 48 MA's), (Start: 3 @19833 has 197 MA's), (5, 19785), (6, 19779), (9, 19680), (13, 19596), (14, 19557),

Gene: Craff_27 Start: 20120, Stop: 19779, Start Num: 3

Candidate Starts for Craff_27:

(Start: 1 @20156 has 48 MA's), (Start: 3 @20120 has 197 MA's), (5, 20072), (6, 20066), (9, 19967), (13, 19883), (14, 19844),

Gene: Crownjwl_27 Start: 19883, Stop: 19542, Start Num: 3

Candidate Starts for Crownjwl_27:

(Start: 1 @19919 has 48 MA's), (Start: 3 @19883 has 197 MA's), (5, 19835), (6, 19829), (9, 19730), (13, 19646), (14, 19607),

Gene: DaddyDaniels_27 Start: 19808, Stop: 19467, Start Num: 3

Candidate Starts for DaddyDaniels_27:

(Start: 1 @19844 has 48 MA's), (Start: 3 @19808 has 197 MA's), (5, 19760), (6, 19754), (9, 19655), (13, 19571), (14, 19532),

Gene: Daffy_27 Start: 19839, Stop: 19498, Start Num: 3

Candidate Starts for Daffy_27:

(Start: 1 @19875 has 48 MA's), (Start: 3 @19839 has 197 MA's), (5, 19791), (6, 19785), (9, 19686), (13, 19602), (14, 19563),

Gene: Daka_27 Start: 20116, Stop: 19775, Start Num: 3

Candidate Starts for Daka_27:

(Start: 1 @20152 has 48 MA's), (Start: 3 @20116 has 197 MA's), (5, 20068), (6, 20062), (9, 19963), (13, 19879), (14, 19840),

Gene: Dati_27 Start: 19833, Stop: 19492, Start Num: 3

Candidate Starts for Dati_27:

(Start: 1 @19869 has 48 MA's), (Start: 3 @19833 has 197 MA's), (5, 19785), (6, 19779), (9, 19680), (13, 19596), (14, 19557),

Gene: DelRivs_26 Start: 19831, Stop: 19490, Start Num: 3

Candidate Starts for DelRivs_26:

(Start: 1 @19867 has 48 MA's), (Start: 3 @19831 has 197 MA's), (5, 19783), (6, 19777), (9, 19678), (13, 19594), (14, 19555),

Gene: Derpp_26 Start: 19714, Stop: 19337, Start Num: 1

Candidate Starts for Derpp_26:

(Start: 1 @19714 has 48 MA's), (Start: 3 @19678 has 197 MA's), (5, 19630), (6, 19624), (9, 19525), (13, 19441), (14, 19402),

Gene: Dice_28 Start: 19816, Stop: 19475, Start Num: 3

Candidate Starts for Dice_28:

(Start: 1 @19852 has 48 MA's), (Start: 3 @19816 has 197 MA's), (5, 19768), (6, 19762), (9, 19663), (13, 19579), (14, 19540),

Gene: Dingo_27 Start: 20096, Stop: 19755, Start Num: 3

Candidate Starts for Dingo_27:

(Start: 1 @20132 has 48 MA's), (Start: 3 @20096 has 197 MA's), (5, 20048), (6, 20042), (9, 19943), (13, 19859), (14, 19820),

Gene: Dione_26 Start: 19818, Stop: 19477, Start Num: 3

Candidate Starts for Dione_26:

(Start: 1 @19854 has 48 MA's), (Start: 3 @19818 has 197 MA's), (5, 19770), (6, 19764), (9, 19665), (13, 19581), (14, 19542),

Gene: DirtJuice_27 Start: 20102, Stop: 19761, Start Num: 3

Candidate Starts for DirtJuice_27:

(Start: 1 @20138 has 48 MA's), (Start: 3 @20102 has 197 MA's), (5, 20054), (6, 20048), (7, 20039), (9, 19949), (13, 19865), (14, 19826),

Gene: Doddsville_27 Start: 19832, Stop: 19491, Start Num: 3

Candidate Starts for Doddsville_27:

(Start: 1 @19868 has 48 MA's), (Start: 3 @19832 has 197 MA's), (5, 19784), (6, 19778), (9, 19679), (13, 19595), (14, 19556),

Gene: DoesntMatter_27 Start: 20098, Stop: 19757, Start Num: 3

Candidate Starts for DoesntMatter_27:

(Start: 1 @20134 has 48 MA's), (Start: 3 @20098 has 197 MA's), (5, 20050), (6, 20044), (9, 19945), (13, 19861), (14, 19822),

Gene: DonSanchon_26 Start: 19851, Stop: 19474, Start Num: 1

Candidate Starts for DonSanchon_26:

(Start: 1 @19851 has 48 MA's), (Start: 3 @19815 has 197 MA's), (5, 19767), (6, 19761), (9, 19662), (13, 19578), (14, 19539),

Gene: DuchessDung_25 Start: 18969, Stop: 18628, Start Num: 3

Candidate Starts for DuchessDung_25:

(Start: 1 @19005 has 48 MA's), (Start: 3 @18969 has 197 MA's), (5, 18921), (6, 18915), (9, 18816), (13, 18732), (14, 18693),

Gene: DudeLittle_89 Start: 49915, Stop: 49619, Start Num: 4

Candidate Starts for DudeLittle_89:

(Start: 4 @49915 has 6 MA's), (8, 49867), (10, 49783), (11, 49765), (12, 49762),

Gene: Duggie_26 Start: 19834, Stop: 19493, Start Num: 3

Candidate Starts for Duggie_26:

(Start: 1 @19870 has 48 MA's), (Start: 3 @19834 has 197 MA's), (5, 19786), (6, 19780), (9, 19681), (13, 19597), (14, 19558),

Gene: Durga_27 Start: 20131, Stop: 19790, Start Num: 3

Candidate Starts for Durga_27:

(Start: 1 @20167 has 48 MA's), (Start: 3 @20131 has 197 MA's), (5, 20083), (6, 20077), (9, 19978), (13, 19894), (14, 19855),

Gene: Echild_95 Start: 50188, Stop: 49892, Start Num: 4

Candidate Starts for Echild_95:

(Start: 4 @50188 has 6 MA's), (8, 50140), (10, 50056), (11, 50038), (12, 50035),

Gene: Emiris_27 Start: 20105, Stop: 19764, Start Num: 3

Candidate Starts for Emiris_27:

(Start: 1 @20141 has 48 MA's), (Start: 3 @20105 has 197 MA's), (5, 20057), (6, 20051), (9, 19952), (13, 19868), (14, 19829),

Gene: EmpTee_27 Start: 20115, Stop: 19774, Start Num: 3

Candidate Starts for EmpTee_27:

(Start: 1 @20151 has 48 MA's), (Start: 3 @20115 has 197 MA's), (5, 20067), (6, 20061), (9, 19962), (13, 19878), (14, 19839),

Gene: Eremos_27 Start: 20111, Stop: 19770, Start Num: 3

Candidate Starts for Eremos_27:

(Start: 1 @20147 has 48 MA's), (Start: 3 @20111 has 197 MA's), (5, 20063), (6, 20057), (9, 19958), (13, 19874), (14, 19835),

Gene: Etaye_27 Start: 20104, Stop: 19763, Start Num: 3

Candidate Starts for Etaye_27:

(Start: 1 @20140 has 48 MA's), (Start: 3 @20104 has 197 MA's), (5, 20056), (6, 20050), (9, 19951), (13, 19867), (14, 19828),

Gene: Eugenia_27 Start: 20124, Stop: 19783, Start Num: 3

Candidate Starts for Eugenia_27:

(Start: 1 @20160 has 48 MA's), (Start: 3 @20124 has 197 MA's), (5, 20076), (6, 20070), (9, 19971), (13, 19887), (14, 19848),

Gene: Fang_27 Start: 20125, Stop: 19784, Start Num: 3

Candidate Starts for Fang_27:

(Start: 1 @20161 has 48 MA's), (Start: 3 @20125 has 197 MA's), (5, 20077), (6, 20071), (9, 19972), (13, 19888), (14, 19849),

Gene: FluffyNinja_27 Start: 20121, Stop: 19780, Start Num: 3

Candidate Starts for FluffyNinja_27:

(Start: 1 @20157 has 48 MA's), (Start: 3 @20121 has 197 MA's), (5, 20073), (6, 20067), (9, 19968), (13, 19884), (14, 19845),

Gene: Fozzie_26 Start: 20127, Stop: 19786, Start Num: 3

Candidate Starts for Fozzie_26:

(Start: 1 @20163 has 48 MA's), (Start: 3 @20127 has 197 MA's), (5, 20079), (6, 20073), (9, 19974), (13, 19890), (14, 19851),

Gene: Frankicide_27 Start: 20115, Stop: 19774, Start Num: 3

Candidate Starts for Frankicide_27:

(Start: 1 @20151 has 48 MA's), (Start: 3 @20115 has 197 MA's), (5, 20067), (6, 20061), (9, 19962), (13, 19878), (14, 19839),

Gene: Freya_26 Start: 19806, Stop: 19465, Start Num: 3

Candidate Starts for Freya_26:

(Start: 1 @19842 has 48 MA's), (Start: 3 @19806 has 197 MA's), (5, 19758), (6, 19752), (9, 19653), (13, 19569), (14, 19530),

Gene: FriarPreacher_27 Start: 20172, Stop: 19795, Start Num: 1

Candidate Starts for FriarPreacher_27:

(Start: 1 @20172 has 48 MA's), (Start: 3 @20136 has 197 MA's), (5, 20088), (6, 20082), (9, 19983), (13, 19899), (14, 19860),

Gene: Fringe_27 Start: 20100, Stop: 19759, Start Num: 3

Candidate Starts for Fringe_27:

(Start: 1 @20136 has 48 MA's), (Start: 3 @20100 has 197 MA's), (5, 20052), (6, 20046), (9, 19947), (13, 19863), (14, 19824),

Gene: FugateOSU_26 Start: 19817, Stop: 19476, Start Num: 3

Candidate Starts for FugateOSU_26:

(Start: 1 @19853 has 48 MA's), (Start: 3 @19817 has 197 MA's), (5, 19769), (6, 19763), (9, 19664), (13, 19580), (14, 19541),

Gene: GeneCoco_27 Start: 20123, Stop: 19782, Start Num: 3

Candidate Starts for GeneCoco_27:

(Start: 1 @20159 has 48 MA's), (Start: 3 @20123 has 197 MA's), (5, 20075), (6, 20069), (9, 19970), (13, 19886), (14, 19847),

Gene: Giraffe_27 Start: 19859, Stop: 19482, Start Num: 1

Candidate Starts for Giraffe_27:

(Start: 1 @19859 has 48 MA's), (Start: 3 @19823 has 197 MA's), (5, 19775), (6, 19769), (9, 19670), (13, 19586), (14, 19547),

Gene: Gophee_27 Start: 20102, Stop: 19761, Start Num: 3

Candidate Starts for Gophee_27:

(Start: 1 @20138 has 48 MA's), (Start: 3 @20102 has 197 MA's), (5, 20054), (6, 20048), (9, 19949), (13, 19865), (14, 19826),

Gene: Grand2040_26 Start: 19838, Stop: 19497, Start Num: 3

Candidate Starts for Grand2040_26:

(Start: 1 @19874 has 48 MA's), (Start: 3 @19838 has 197 MA's), (5, 19790), (6, 19784), (9, 19685), (13, 19601), (14, 19562),

Gene: Gwilliam_27 Start: 20111, Stop: 19770, Start Num: 3

Candidate Starts for Gwilliam_27:

(Start: 1 @20147 has 48 MA's), (Start: 3 @20111 has 197 MA's), (5, 20063), (6, 20057), (9, 19958), (13, 19874), (14, 19835),

Gene: Gyarad_0027 Start: 20149, Stop: 19772, Start Num: 1

Candidate Starts for Gyarad_0027:

(Start: 1 @20149 has 48 MA's), (Start: 3 @20113 has 197 MA's), (5, 20065), (6, 20059), (9, 19960), (13, 19876), (14, 19837),

Gene: HSavage_27 Start: 20121, Stop: 19780, Start Num: 3

Candidate Starts for HSavage_27:

(Start: 1 @20157 has 48 MA's), (Start: 3 @20121 has 197 MA's), (5, 20073), (6, 20067), (9, 19968), (13, 19884), (14, 19845),

Gene: Haimas_27 Start: 20112, Stop: 19771, Start Num: 3

Candidate Starts for Haimas_27:

(Start: 1 @20148 has 48 MA's), (Start: 3 @20112 has 197 MA's), (5, 20064), (6, 20058), (9, 19959), (13, 19875), (14, 19836),

Gene: Haleema_26 Start: 19838, Stop: 19497, Start Num: 3

Candidate Starts for Haleema_26:

(Start: 1 @19874 has 48 MA's), (Start: 3 @19838 has 197 MA's), (5, 19790), (6, 19784), (9, 19685), (13, 19601), (14, 19562),

Gene: Hamish_27 Start: 20104, Stop: 19763, Start Num: 3

Candidate Starts for Hamish_27:

(Start: 1 @20140 has 48 MA's), (Start: 3 @20104 has 197 MA's), (5, 20056), (6, 20050), (9, 19951), (13, 19867), (14, 19828),

Gene: Hartsy_26 Start: 20140, Stop: 19793, Start Num: 3

Candidate Starts for Hartsy_26:

(Start: 1 @20176 has 48 MA's), (Start: 3 @20140 has 197 MA's), (5, 20086), (6, 20080), (9, 19981), (13, 19897), (14, 19858),

Gene: Harvey_27 Start: 20169, Stop: 19792, Start Num: 1

Candidate Starts for Harvey_27:

(Start: 1 @20169 has 48 MA's), (Start: 3 @20133 has 197 MA's), (5, 20085), (6, 20079), (9, 19980), (13, 19896), (14, 19857),

Gene: Held_27 Start: 19858, Stop: 19481, Start Num: 1

Candidate Starts for Held_27:

(Start: 1 @19858 has 48 MA's), (Start: 3 @19822 has 197 MA's), (5, 19774), (6, 19768), (9, 19669), (13, 19585), (14, 19546),

Gene: HenryJackson_26 Start: 19838, Stop: 19497, Start Num: 3

Candidate Starts for HenryJackson_26:

(Start: 1 @19874 has 48 MA's), (Start: 3 @19838 has 197 MA's), (5, 19790), (6, 19784), (9, 19685), (13, 19601), (14, 19562),

Gene: Hertubise_27 Start: 20162, Stop: 19785, Start Num: 1

Candidate Starts for Hertubise_27:

(Start: 1 @20162 has 48 MA's), (Start: 3 @20126 has 197 MA's), (5, 20078), (6, 20072), (9, 19973), (13, 19889), (14, 19850),

Gene: Hetaeria_27 Start: 20167, Stop: 19790, Start Num: 1

Candidate Starts for Hetaeria_27:

(Start: 1 @20167 has 48 MA's), (Start: 3 @20131 has 197 MA's), (5, 20083), (6, 20077), (9, 19978), (13, 19894), (14, 19855),

Gene: HighStump_26 Start: 19821, Stop: 19480, Start Num: 3

Candidate Starts for HighStump_26:

(Start: 1 @19857 has 48 MA's), (Start: 3 @19821 has 197 MA's), (5, 19773), (6, 19767), (9, 19668), (13, 19584), (14, 19545),

Gene: Hocus_26 Start: 19827, Stop: 19486, Start Num: 3

Candidate Starts for Hocus_26:

(Start: 1 @19863 has 48 MA's), (Start: 3 @19827 has 197 MA's), (5, 19779), (6, 19773), (9, 19674), (13, 19590), (14, 19551),

Gene: Horchata_27 Start: 20100, Stop: 19759, Start Num: 3

Candidate Starts for Horchata_27:

(Start: 1 @20136 has 48 MA's), (Start: 3 @20100 has 197 MA's), (5, 20052), (6, 20046), (9, 19947), (13, 19863), (14, 19824),

Gene: ImtiyazSitla_26 Start: 19668, Stop: 19327, Start Num: 3

Candidate Starts for ImtiyazSitla_26:

(Start: 1 @19704 has 48 MA's), (Start: 3 @19668 has 197 MA's), (5, 19620), (6, 19614), (9, 19515), (13, 19431), (14, 19392),

Gene: Inchworm_27 Start: 20107, Stop: 19766, Start Num: 3

Candidate Starts for Inchworm_27:

(Start: 1 @20143 has 48 MA's), (Start: 3 @20107 has 197 MA's), (5, 20059), (6, 20053), (9, 19954), (13, 19870), (14, 19831),

Gene: Inverness_27 Start: 20121, Stop: 19780, Start Num: 3

Candidate Starts for Inverness_27:

(Start: 1 @20157 has 48 MA's), (Start: 3 @20121 has 197 MA's), (5, 20073), (6, 20067), (9, 19968), (13, 19884), (14, 19845),

Gene: Iridoclysis_27 Start: 20095, Stop: 19754, Start Num: 3

Candidate Starts for Iridoclysis_27:

(Start: 1 @20131 has 48 MA's), (Start: 3 @20095 has 197 MA's), (5, 20047), (6, 20041), (9, 19942), (13, 19858), (14, 19819),

Gene: IsaacEli_27 Start: 20125, Stop: 19784, Start Num: 3

Candidate Starts for IsaacEli_27:

(Start: 1 @20161 has 48 MA's), (Start: 3 @20125 has 197 MA's), (5, 20077), (6, 20071), (9, 19972), (13, 19888), (14, 19849),

Gene: JDog_27 Start: 19831, Stop: 19490, Start Num: 3

Candidate Starts for JDog_27:

(Start: 1 @19867 has 48 MA's), (Start: 3 @19831 has 197 MA's), (5, 19783), (6, 19777), (9, 19678), (13, 19594), (14, 19555),

Gene: JacAttac_27 Start: 20143, Stop: 19766, Start Num: 1

Candidate Starts for JacAttac_27:

(Start: 1 @20143 has 48 MA's), (Start: 3 @20107 has 197 MA's), (5, 20059), (6, 20053), (7, 20044), (9, 19954), (13, 19870), (14, 19831),

Gene: JakeO_26 Start: 19834, Stop: 19493, Start Num: 3

Candidate Starts for JakeO_26:

(Start: 1 @19870 has 48 MA's), (Start: 3 @19834 has 197 MA's), (5, 19786), (6, 19780), (9, 19681), (13, 19597), (14, 19558),

Gene: JangoPhett_27 Start: 20105, Stop: 19764, Start Num: 3

Candidate Starts for JangoPhett_27:

(Start: 1 @20141 has 48 MA's), (Start: 3 @20105 has 197 MA's), (5, 20057), (6, 20051), (9, 19952), (13, 19868), (14, 19829),

Gene: Jillium_26 Start: 19831, Stop: 19490, Start Num: 3

Candidate Starts for Jillium_26:

(Start: 1 @19867 has 48 MA's), (Start: 3 @19831 has 197 MA's), (5, 19783), (6, 19777), (9, 19678), (13, 19594), (14, 19555),

Gene: Jiminy_26 Start: 19672, Stop: 19331, Start Num: 3

Candidate Starts for Jiminy_26:

(Start: 1 @19708 has 48 MA's), (Start: 3 @19672 has 197 MA's), (5, 19624), (6, 19618), (9, 19519), (13, 19435), (14, 19396),

Gene: Jiraiya_27 Start: 19861, Stop: 19484, Start Num: 1

Candidate Starts for Jiraiya_27:

(Start: 1 @19861 has 48 MA's), (Start: 3 @19825 has 197 MA's), (5, 19777), (6, 19771), (9, 19672), (13, 19588), (14, 19549),

Gene: KLUcky39_27 Start: 20149, Stop: 19772, Start Num: 1

Candidate Starts for KLUcky39_27:

(Start: 1 @20149 has 48 MA's), (Start: 3 @20113 has 197 MA's), (5, 20065), (6, 20059), (9, 19960), (13, 19876), (14, 19837),

Gene: Kahve_26 Start: 19835, Stop: 19494, Start Num: 3

Candidate Starts for Kahve_26:

(Start: 1 @19871 has 48 MA's), (Start: 3 @19835 has 197 MA's), (5, 19787), (6, 19781), (9, 19682), (13, 19598), (14, 19559),

Gene: Kailash_27 Start: 20152, Stop: 19805, Start Num: 3

Candidate Starts for Kailash_27:

(Start: 1 @20188 has 48 MA's), (Start: 3 @20152 has 197 MA's), (5, 20098), (6, 20092), (9, 19993), (13, 19909), (14, 19870),

Gene: Katniss_27 Start: 20131, Stop: 19790, Start Num: 3

Candidate Starts for Katniss_27:

(Start: 1 @20167 has 48 MA's), (Start: 3 @20131 has 197 MA's), (5, 20083), (6, 20077), (9, 19978), (13, 19894), (14, 19855),

Gene: Keitherie_27 Start: 20159, Stop: 19812, Start Num: 3

Candidate Starts for Keitherie_27:

(2, 20183), (Start: 3 @20159 has 197 MA's), (5, 20105), (6, 20099), (9, 20000), (13, 19916), (14, 19877),

Gene: Kikipoo_27 Start: 20125, Stop: 19784, Start Num: 3

Candidate Starts for Kikipoo_27:

(Start: 1 @20161 has 48 MA's), (Start: 3 @20125 has 197 MA's), (5, 20077), (6, 20071), (9, 19972), (13, 19888), (14, 19849),

Gene: Kimbrough_27 Start: 19827, Stop: 19486, Start Num: 3

Candidate Starts for Kimbrough_27:

(Start: 1 @19863 has 48 MA's), (Start: 3 @19827 has 197 MA's), (5, 19779), (6, 19773), (9, 19674), (13, 19590), (14, 19551),

Gene: KingVeVeVe_27 Start: 20136, Stop: 19759, Start Num: 1

Candidate Starts for KingVeVeVe_27:

(Start: 1 @20136 has 48 MA's), (Start: 3 @20100 has 197 MA's), (5, 20052), (6, 20046), (9, 19947), (13, 19863), (14, 19824),

Gene: KlimbOn_27 Start: 20149, Stop: 19772, Start Num: 1

Candidate Starts for KlimbOn_27:

(Start: 1 @20149 has 48 MA's), (Start: 3 @20113 has 197 MA's), (5, 20065), (6, 20059), (9, 19960), (13, 19876), (14, 19837),

Gene: Kloppinator_27 Start: 20133, Stop: 19792, Start Num: 3

Candidate Starts for Kloppinator_27:

(Start: 1 @20169 has 48 MA's), (Start: 3 @20133 has 197 MA's), (5, 20085), (6, 20079), (9, 19980), (13, 19896), (14, 19857),

Gene: Kwadwo_26 Start: 19853, Stop: 19476, Start Num: 1

Candidate Starts for Kwadwo_26:

(Start: 1 @19853 has 48 MA's), (Start: 3 @19817 has 197 MA's), (5, 19769), (6, 19763), (9, 19664), (13, 19580), (14, 19541),

Gene: Kwksand96_26 Start: 19682, Stop: 19341, Start Num: 3

Candidate Starts for Kwksand96_26:

(Start: 1 @19718 has 48 MA's), (Start: 3 @19682 has 197 MA's), (5, 19634), (6, 19628), (9, 19529), (13, 19445), (14, 19406),

Gene: Labeouficaum_26 Start: 19678, Stop: 19337, Start Num: 3

Candidate Starts for Labeouficaum_26:

(Start: 1 @19714 has 48 MA's), (Start: 3 @19678 has 197 MA's), (5, 19630), (6, 19624), (9, 19525), (13, 19441), (14, 19402),

Gene: LasagnaCat_27 Start: 20119, Stop: 19778, Start Num: 3

Candidate Starts for LasagnaCat_27:

(Start: 1 @20155 has 48 MA's), (Start: 3 @20119 has 197 MA's), (5, 20071), (6, 20065), (7, 20056), (9, 19966), (13, 19882), (14, 19843),

Gene: Lasso_27 Start: 20092, Stop: 19751, Start Num: 3

Candidate Starts for Lasso_27:

(Start: 1 @20128 has 48 MA's), (Start: 3 @20092 has 197 MA's), (5, 20044), (6, 20038), (9, 19939), (13, 19855), (14, 19816),

Gene: LeeLot_27 Start: 20156, Stop: 19779, Start Num: 1

Candidate Starts for LeeLot_27:

(Start: 1 @20156 has 48 MA's), (Start: 3 @20120 has 197 MA's), (5, 20072), (6, 20066), (9, 19967), (13, 19883), (14, 19844),

Gene: Lego3393_27 Start: 20161, Stop: 19784, Start Num: 1

Candidate Starts for Lego3393_27:

(Start: 1 @20161 has 48 MA's), (Start: 3 @20125 has 197 MA's), (5, 20077), (6, 20071), (9, 19972), (13, 19888), (14, 19849),

Gene: Legolas_26 Start: 19833, Stop: 19492, Start Num: 3

Candidate Starts for Legolas_26:

(Start: 1 @19869 has 48 MA's), (Start: 3 @19833 has 197 MA's), (5, 19785), (6, 19779), (9, 19680), (13, 19596), (14, 19557),

Gene: LeiMonet_27 Start: 19824, Stop: 19483, Start Num: 3

Candidate Starts for LeiMonet_27:

(Start: 1 @19860 has 48 MA's), (Start: 3 @19824 has 197 MA's), (5, 19776), (6, 19770), (9, 19671), (13, 19587), (14, 19548),

Gene: LemonSlice_27 Start: 19820, Stop: 19479, Start Num: 3

Candidate Starts for LemonSlice_27:

(Start: 1 @19856 has 48 MA's), (Start: 3 @19820 has 197 MA's), (5, 19772), (6, 19766), (9, 19667), (13, 19583), (14, 19544),

Gene: Longacauda_26 Start: 19822, Stop: 19481, Start Num: 3

Candidate Starts for Longacauda_26:

(Start: 1 @19858 has 48 MA's), (Start: 3 @19822 has 197 MA's), (5, 19774), (6, 19768), (9, 19669), (13, 19585), (14, 19546),

Gene: Lopsy_26 Start: 19675, Stop: 19334, Start Num: 3

Candidate Starts for Lopsy_26:

(Start: 1 @19711 has 48 MA's), (Start: 3 @19675 has 197 MA's), (5, 19627), (6, 19621), (9, 19522), (13, 19438), (14, 19399), (17, 19354),

Gene: LostAndPhound_26 Start: 19826, Stop: 19485, Start Num: 3

Candidate Starts for LostAndPhound_26:

(Start: 1 @19862 has 48 MA's), (Start: 3 @19826 has 197 MA's), (5, 19778), (6, 19772), (9, 19673), (13, 19589), (14, 19550),

Gene: LuckyMarjie_26 Start: 19835, Stop: 19494, Start Num: 3

Candidate Starts for LuckyMarjie_26:

(Start: 1 @19871 has 48 MA's), (Start: 3 @19835 has 197 MA's), (5, 19787), (6, 19781), (9, 19682), (13, 19598), (14, 19559),

Gene: Lulumae_26 Start: 19853, Stop: 19476, Start Num: 1

Candidate Starts for Lulumae_26:

(Start: 1 @19853 has 48 MA's), (Start: 3 @19817 has 197 MA's), (5, 19769), (6, 19763), (9, 19664), (13, 19580), (14, 19541),

Gene: Lulwa_27 Start: 20104, Stop: 19763, Start Num: 3

Candidate Starts for Lulwa_27:

(Start: 1 @20140 has 48 MA's), (Start: 3 @20104 has 197 MA's), (5, 20056), (6, 20050), (9, 19951), (13, 19867), (14, 19828),

Gene: Lumine_26 Start: 19813, Stop: 19472, Start Num: 3

Candidate Starts for Lumine_26:

(Start: 1 @19849 has 48 MA's), (Start: 3 @19813 has 197 MA's), (5, 19765), (6, 19759), (9, 19660), (13, 19576), (14, 19537),

Gene: MRabcd_26 Start: 19814, Stop: 19473, Start Num: 3

Candidate Starts for MRabcd_26:

(Start: 1 @19850 has 48 MA's), (Start: 3 @19814 has 197 MA's), (5, 19766), (6, 19760), (9, 19661), (13, 19577), (14, 19538),

Gene: Mag7_26 Start: 19702, Stop: 19355, Start Num: 3

Candidate Starts for Mag7_26:

(Start: 1 @19738 has 48 MA's), (Start: 3 @19702 has 197 MA's), (5, 19648), (6, 19642), (9, 19543), (13, 19459), (14, 19420),

Gene: Magic8_27 Start: 20140, Stop: 19793, Start Num: 3

Candidate Starts for Magic8_27:

(Start: 1 @20176 has 48 MA's), (Start: 3 @20140 has 197 MA's), (5, 20086), (6, 20080), (9, 19981), (13, 19897), (14, 19858),

Gene: Mana_26 Start: 19820, Stop: 19479, Start Num: 3

Candidate Starts for Mana_26:

(Start: 1 @19856 has 48 MA's), (Start: 3 @19820 has 197 MA's), (5, 19772), (6, 19766), (9, 19667), (13, 19583), (14, 19544),

Gene: Manad_26 Start: 19704, Stop: 19327, Start Num: 1

Candidate Starts for Manad_26:

(Start: 1 @19704 has 48 MA's), (Start: 3 @19668 has 197 MA's), (5, 19620), (6, 19614), (9, 19515), (13, 19431), (14, 19392),

Gene: Maru_26 Start: 19819, Stop: 19478, Start Num: 3

Candidate Starts for Maru_26:

(Start: 1 @19855 has 48 MA's), (Start: 3 @19819 has 197 MA's), (5, 19771), (6, 19765), (9, 19666), (13, 19582), (14, 19543),

Gene: Maskar_26 Start: 19668, Stop: 19327, Start Num: 3

Candidate Starts for Maskar_26:

(Start: 1 @19704 has 48 MA's), (Start: 3 @19668 has 197 MA's), (5, 19620), (6, 19614), (9, 19515), (13, 19431), (14, 19392),

Gene: Matalotodo_26 Start: 20115, Stop: 19774, Start Num: 3

Candidate Starts for Matalotodo_26:

(Start: 1 @20151 has 48 MA's), (Start: 3 @20115 has 197 MA's), (5, 20067), (6, 20061), (9, 19962), (13, 19878), (14, 19839),

Gene: Mcshane_26 Start: 19815, Stop: 19474, Start Num: 3

Candidate Starts for Mcshane_26:

(Start: 1 @19851 has 48 MA's), (Start: 3 @19815 has 197 MA's), (5, 19767), (6, 19761), (9, 19662), (13, 19578), (14, 19539),

Gene: Mecca_26 Start: 19812, Stop: 19471, Start Num: 3

Candidate Starts for Mecca_26:

(Start: 1 @19848 has 48 MA's), (Start: 3 @19812 has 197 MA's), (5, 19764), (6, 19758), (9, 19659), (13, 19575), (14, 19536),

Gene: Megamind20_27 Start: 19834, Stop: 19493, Start Num: 3

Candidate Starts for Megamind20_27:

(Start: 1 @19870 has 48 MA's), (Start: 3 @19834 has 197 MA's), (5, 19786), (6, 19780), (9, 19681), (13, 19597), (14, 19558),

Gene: Megatron_27 Start: 20116, Stop: 19775, Start Num: 3

Candidate Starts for Megatron_27:

(Start: 1 @20152 has 48 MA's), (Start: 3 @20116 has 197 MA's), (5, 20068), (6, 20062), (9, 19963), (13, 19879), (14, 19840),

Gene: Melc17_27 Start: 20110, Stop: 19769, Start Num: 3

Candidate Starts for Melc17_27:

(Start: 1 @20146 has 48 MA's), (Start: 3 @20110 has 197 MA's), (5, 20062), (6, 20056), (9, 19957), (13, 19873), (14, 19834),

Gene: MelsMeow_26 Start: 19702, Stop: 19355, Start Num: 3

Candidate Starts for MelsMeow_26:

(Start: 1 @19738 has 48 MA's), (Start: 3 @19702 has 197 MA's), (5, 19648), (6, 19642), (9, 19543), (13, 19459), (14, 19420),

Gene: Mesh1_27 Start: 20127, Stop: 19786, Start Num: 3

Candidate Starts for Mesh1_27:

(Start: 1 @20163 has 48 MA's), (Start: 3 @20127 has 197 MA's), (5, 20079), (6, 20073), (9, 19974), (13, 19890), (14, 19851),

Gene: MichaelPhcott_26 Start: 19702, Stop: 19355, Start Num: 3

Candidate Starts for MichaelPhcott_26:

(Start: 1 @19738 has 48 MA's), (Start: 3 @19702 has 197 MA's), (5, 19648), (6, 19642), (9, 19543), (13, 19459), (14, 19420),

Gene: Mikota_27 Start: 20100, Stop: 19759, Start Num: 3

Candidate Starts for Mikota_27:

(Start: 1 @20136 has 48 MA's), (Start: 3 @20100 has 197 MA's), (5, 20052), (6, 20046), (9, 19947), (13, 19863), (14, 19824),

Gene: MiniBoss_27 Start: 20103, Stop: 19762, Start Num: 3

Candidate Starts for MiniBoss_27:

(Start: 1 @20139 has 48 MA's), (Start: 3 @20103 has 197 MA's), (5, 20055), (6, 20049), (9, 19950), (13, 19866), (14, 19827),

Gene: MitKao_27 Start: 19821, Stop: 19480, Start Num: 3

Candidate Starts for MitKao_27:

(Start: 1 @19857 has 48 MA's), (Start: 3 @19821 has 197 MA's), (5, 19773), (6, 19767), (9, 19668), (13, 19584), (14, 19545),

Gene: Morgushi_27 Start: 19858, Stop: 19481, Start Num: 1

Candidate Starts for Morgushi_27:

(Start: 1 @19858 has 48 MA's), (Start: 3 @19822 has 197 MA's), (5, 19774), (6, 19768), (9, 19669), (13, 19585), (14, 19546),

Gene: Morty_27 Start: 20125, Stop: 19784, Start Num: 3

Candidate Starts for Morty_27:

(Start: 1 @20161 has 48 MA's), (Start: 3 @20125 has 197 MA's), (5, 20077), (6, 20071), (9, 19972), (13, 19888), (14, 19849),

Gene: Mosaic_26 Start: 19863, Stop: 19486, Start Num: 1

Candidate Starts for Mosaic_26:

(Start: 1 @19863 has 48 MA's), (Start: 3 @19827 has 197 MA's), (5, 19779), (6, 19773), (9, 19674), (13, 19590), (14, 19551),

Gene: MrPhizzler_26 Start: 19829, Stop: 19488, Start Num: 3

Candidate Starts for MrPhizzler_26:

(Start: 1 @19865 has 48 MA's), (Start: 3 @19829 has 197 MA's), (5, 19781), (6, 19775), (9, 19676), (13, 19592), (14, 19553),

Gene: Mulan_26 Start: 19821, Stop: 19480, Start Num: 3

Candidate Starts for Mulan_26:

(Start: 1 @19857 has 48 MA's), (Start: 3 @19821 has 197 MA's), (5, 19773), (6, 19767), (7, 19758), (9, 19668), (13, 19584), (14, 19545),

Gene: Murdoc_27 Start: 20117, Stop: 19776, Start Num: 3

Candidate Starts for Murdoc_27:

(Start: 1 @20153 has 48 MA's), (Start: 3 @20117 has 197 MA's), (5, 20069), (6, 20063), (9, 19964), (13, 19880), (14, 19841),

Gene: Mutante_26 Start: 19824, Stop: 19483, Start Num: 3

Candidate Starts for Mutante_26:

(Start: 1 @19860 has 48 MA's), (Start: 3 @19824 has 197 MA's), (5, 19776), (6, 19770), (9, 19671), (13, 19587), (14, 19548),

Gene: Nacho_0027 Start: 20149, Stop: 19772, Start Num: 1

Candidate Starts for Nacho_0027:

(Start: 1 @20149 has 48 MA's), (Start: 3 @20113 has 197 MA's), (5, 20065), (6, 20059), (9, 19960), (13, 19876), (14, 19837),

Gene: Newman_27 Start: 20109, Stop: 19768, Start Num: 3

Candidate Starts for Newman_27:

(Start: 1 @20145 has 48 MA's), (Start: 3 @20109 has 197 MA's), (5, 20061), (6, 20055), (9, 19956), (13, 19872), (14, 19833),

Gene: Nicole21_27 Start: 20105, Stop: 19764, Start Num: 3

Candidate Starts for Nicole21_27:

(Start: 1 @20141 has 48 MA's), (Start: 3 @20105 has 197 MA's), (5, 20057), (6, 20051), (9, 19952), (13, 19868), (14, 19829),

Gene: Numberten_27 Start: 20155, Stop: 19778, Start Num: 1

Candidate Starts for Numberten_27:

(Start: 1 @20155 has 48 MA's), (Start: 3 @20119 has 197 MA's), (5, 20071), (6, 20065), (9, 19966), (13, 19882), (14, 19843),

Gene: Nyala_26 Start: 19816, Stop: 19475, Start Num: 3

Candidate Starts for Nyala_26:

(Start: 1 @19852 has 48 MA's), (Start: 3 @19816 has 197 MA's), (5, 19768), (6, 19762), (9, 19663), (13, 19579), (14, 19540),

Gene: OSmaximus_27 Start: 20181, Stop: 19804, Start Num: 1

Candidate Starts for OSmaximus_27:

(Start: 1 @20181 has 48 MA's), (Start: 3 @20145 has 197 MA's), (5, 20097), (6, 20091), (9, 19992), (13, 19908), (14, 19869),

Gene: Olak_27 Start: 19853, Stop: 19476, Start Num: 1

Candidate Starts for Olak_27:

(Start: 1 @19853 has 48 MA's), (Start: 3 @19817 has 197 MA's), (5, 19769), (6, 19763), (9, 19664), (13, 19580), (14, 19541),

Gene: Oline_26 Start: 19682, Stop: 19341, Start Num: 3

Candidate Starts for Oline_26:

(Start: 1 @19718 has 48 MA's), (Start: 3 @19682 has 197 MA's), (5, 19634), (6, 19628), (9, 19529), (13, 19445), (14, 19406),

Gene: Olive_27 Start: 20106, Stop: 19765, Start Num: 3

Candidate Starts for Olive_27:

(Start: 1 @20142 has 48 MA's), (Start: 3 @20106 has 197 MA's), (5, 20058), (6, 20052), (9, 19953), (13, 19869), (14, 19830),

Gene: OliverWalter_27 Start: 20158, Stop: 19781, Start Num: 1

Candidate Starts for OliverWalter_27:

(Start: 1 @20158 has 48 MA's), (Start: 3 @20122 has 197 MA's), (5, 20074), (6, 20068), (9, 19969), (13, 19885), (14, 19846),

Gene: Omniscient_27 Start: 20125, Stop: 19784, Start Num: 3

Candidate Starts for Omniscient_27:

(Start: 1 @20161 has 48 MA's), (Start: 3 @20125 has 197 MA's), (5, 20077), (6, 20071), (9, 19972), (13, 19888), (14, 19849),

Gene: Oosterbaan_27 Start: 20149, Stop: 19772, Start Num: 1

Candidate Starts for Oosterbaan_27:

(Start: 1 @20149 has 48 MA's), (Start: 3 @20113 has 197 MA's), (5, 20065), (6, 20059), (9, 19960), (13, 19876), (14, 19837),

Gene: Orfeu_26 Start: 19857, Stop: 19480, Start Num: 1

Candidate Starts for Orfeu_26:

(Start: 1 @19857 has 48 MA's), (Start: 3 @19821 has 197 MA's), (5, 19773), (6, 19767), (9, 19668), (13, 19584), (14, 19545),

Gene: Orion_27 Start: 20114, Stop: 19773, Start Num: 3

Candidate Starts for Orion_27:

(Start: 1 @20150 has 48 MA's), (Start: 3 @20114 has 197 MA's), (5, 20066), (6, 20060), (9, 19961), (13, 19877), (14, 19838),

Gene: Orwigg_27 Start: 19812, Stop: 19471, Start Num: 3

Candidate Starts for Orwigg_27:

(Start: 1 @19848 has 48 MA's), (Start: 3 @19812 has 197 MA's), (5, 19764), (6, 19758), (9, 19659), (13, 19575), (14, 19536),

Gene: PG1_27 Start: 20127, Stop: 19786, Start Num: 3

Candidate Starts for PG1_27:

(Start: 1 @20163 has 48 MA's), (Start: 3 @20127 has 197 MA's), (5, 20079), (6, 20073), (9, 19974), (13, 19890), (14, 19851),

Gene: Pacifista_28 Start: 19818, Stop: 19477, Start Num: 3

Candidate Starts for Pacifista_28:

(Start: 1 @19854 has 48 MA's), (Start: 3 @19818 has 197 MA's), (5, 19770), (6, 19764), (9, 19665), (13, 19581), (14, 19542),

Gene: Phamished_27 Start: 20122, Stop: 19781, Start Num: 3

Candidate Starts for Phamished_27:

(Start: 1 @20158 has 48 MA's), (Start: 3 @20122 has 197 MA's), (5, 20074), (6, 20068), (9, 19969), (13, 19885), (14, 19846),

Gene: Phareon_27 Start: 19823, Stop: 19482, Start Num: 3

Candidate Starts for Phareon_27:

(Start: 1 @19859 has 48 MA's), (Start: 3 @19823 has 197 MA's), (5, 19775), (6, 19769), (9, 19670), (13, 19586), (14, 19547),

Gene: PhatCats2014_27 Start: 20128, Stop: 19787, Start Num: 3

Candidate Starts for PhatCats2014_27:

(Start: 1 @20164 has 48 MA's), (Start: 3 @20128 has 197 MA's), (5, 20080), (6, 20074), (9, 19975), (13, 19891), (14, 19852),

Gene: PhatLouie_27 Start: 20117, Stop: 19776, Start Num: 3

Candidate Starts for PhatLouie_27:

(Start: 1 @20153 has 48 MA's), (Start: 3 @20117 has 197 MA's), (5, 20069), (6, 20063), (9, 19964), (13, 19880), (14, 19841),

Gene: PhenghisKhan_26 Start: 19702, Stop: 19355, Start Num: 3

Candidate Starts for PhenghisKhan_26:

(Start: 1 @19738 has 48 MA's), (Start: 3 @19702 has 197 MA's), (5, 19648), (6, 19642), (9, 19543), (13, 19459), (14, 19420),

Gene: Pherdinand_27 Start: 20122, Stop: 19781, Start Num: 3

Candidate Starts for Pherdinand_27:

(Start: 1 @20158 has 48 MA's), (Start: 3 @20122 has 197 MA's), (5, 20074), (6, 20068), (9, 19969), (13, 19885), (14, 19846),

Gene: Phergie_26 Start: 19696, Stop: 19349, Start Num: 3

Candidate Starts for Phergie_26:

(Start: 1 @19732 has 48 MA's), (Start: 3 @19696 has 197 MA's), (5, 19642), (6, 19636), (9, 19537), (13, 19453), (14, 19414),

Gene: Phipps_27 Start: 20128, Stop: 19751, Start Num: 1

Candidate Starts for Phipps_27:

(Start: 1 @20128 has 48 MA's), (Start: 3 @20092 has 197 MA's), (5, 20044), (6, 20038), (9, 19939), (13, 19855), (14, 19816),

Gene: Phleuron_26 Start: 19702, Stop: 19355, Start Num: 3

Candidate Starts for Phleuron_26:

(Start: 1 @19738 has 48 MA's), (Start: 3 @19702 has 197 MA's), (5, 19648), (6, 19642), (9, 19543), (13, 19459), (14, 19420),

Gene: PhrankReynolds_26 Start: 19702, Stop: 19355, Start Num: 3

Candidate Starts for PhrankReynolds_26:

(Start: 1 @19738 has 48 MA's), (Start: 3 @19702 has 197 MA's), (5, 19648), (6, 19642), (9, 19543), (13, 19459), (14, 19420),

Gene: PhrodoBaggins_26 Start: 20110, Stop: 19769, Start Num: 3

Candidate Starts for PhrodoBaggins_26:

(Start: 1 @20146 has 48 MA's), (Start: 3 @20110 has 197 MA's), (5, 20062), (6, 20056), (7, 20047), (9, 19957), (13, 19873), (14, 19834),

Gene: Phunky_27 Start: 20153, Stop: 19776, Start Num: 1

Candidate Starts for Phunky_27:

(Start: 1 @20153 has 48 MA's), (Start: 3 @20117 has 197 MA's), (5, 20069), (6, 20063), (9, 19964), (13, 19880), (14, 19841),

Gene: Piglet_0026 Start: 20152, Stop: 19775, Start Num: 1

Candidate Starts for Piglet_0026:

(Start: 1 @20152 has 48 MA's), (Start: 3 @20116 has 197 MA's), (5, 20068), (6, 20062), (9, 19963), (13, 19879), (14, 19840),

Gene: PinheadLarry_27 Start: 19869, Stop: 19492, Start Num: 1

Candidate Starts for PinheadLarry_27:

(Start: 1 @19869 has 48 MA's), (Start: 3 @19833 has 197 MA's), (5, 19785), (6, 19779), (9, 19680), (13, 19596), (14, 19557),

Gene: Pinkman_26 Start: 19676, Stop: 19335, Start Num: 3

Candidate Starts for Pinkman_26:

(Start: 1 @19712 has 48 MA's), (Start: 3 @19676 has 197 MA's), (5, 19628), (6, 19622), (9, 19523), (13, 19439), (14, 19400),

Gene: Pipsqueak_27 Start: 20118, Stop: 19777, Start Num: 3

Candidate Starts for Pipsqueak_27:

(Start: 1 @20154 has 48 MA's), (Start: 3 @20118 has 197 MA's), (5, 20070), (6, 20064), (9, 19965), (13, 19881), (14, 19842),

Gene: Placalicious_26 Start: 19811, Stop: 19470, Start Num: 3

Candidate Starts for Placalicious_26:

(Start: 1 @19847 has 48 MA's), (Start: 3 @19811 has 197 MA's), (5, 19763), (6, 19757), (9, 19658), (13, 19574), (14, 19535),

Gene: Plmatters_27 Start: 20119, Stop: 19778, Start Num: 3

Candidate Starts for Plmatters_27:

(Start: 1 @20155 has 48 MA's), (Start: 3 @20119 has 197 MA's), (5, 20071), (6, 20065), (9, 19966), (13, 19882), (14, 19843),

Gene: Podrick_27 Start: 20111, Stop: 19770, Start Num: 3

Candidate Starts for Podrick_27:

(Start: 1 @20147 has 48 MA's), (Start: 3 @20111 has 197 MA's), (5, 20063), (6, 20057), (9, 19958), (13, 19874), (14, 19835),

Gene: Pops_27 Start: 20119, Stop: 19778, Start Num: 3

Candidate Starts for Pops_27:

(Start: 1 @20155 has 48 MA's), (Start: 3 @20119 has 197 MA's), (5, 20071), (6, 20065), (9, 19966), (13, 19882), (14, 19843),

Gene: Potter_26 Start: 19829, Stop: 19488, Start Num: 3

Candidate Starts for Potter_26:

(Start: 1 @19865 has 48 MA's), (Start: 3 @19829 has 197 MA's), (5, 19781), (6, 19775), (9, 19676), (13, 19592), (14, 19553),

Gene: Prickles_27 Start: 20108, Stop: 19767, Start Num: 3

Candidate Starts for Prickles_27:

(Start: 1 @20144 has 48 MA's), (Start: 3 @20108 has 197 MA's), (5, 20060), (6, 20054), (9, 19955), (13, 19871), (14, 19832),

Gene: ProfessorX_27 Start: 20106, Stop: 19765, Start Num: 3

Candidate Starts for ProfessorX_27:

(Start: 1 @20142 has 48 MA's), (Start: 3 @20106 has 197 MA's), (5, 20058), (6, 20052), (9, 19953), (13, 19869), (14, 19830),

Gene: Puhltonio_27 Start: 20159, Stop: 19782, Start Num: 1

Candidate Starts for Puhltonio_27:

(Start: 1 @20159 has 48 MA's), (Start: 3 @20123 has 197 MA's), (5, 20075), (6, 20069), (9, 19970), (13, 19886), (14, 19847),

Gene: QueenB2_89 Start: 49741, Stop: 49445, Start Num: 4

Candidate Starts for QueenB2_89:

(Start: 4 @49741 has 6 MA's), (8, 49693), (10, 49609), (11, 49591), (12, 49588),

Gene: QueenBeane_27 Start: 20114, Stop: 19773, Start Num: 3

Candidate Starts for QueenBeane_27:

(Start: 1 @20150 has 48 MA's), (Start: 3 @20114 has 197 MA's), (5, 20066), (6, 20060), (9, 19961), (13, 19877), (14, 19838),

Gene: Quisquiliae_27 Start: 20130, Stop: 19789, Start Num: 3

Candidate Starts for Quisquiliae_27:

(Start: 1 @20166 has 48 MA's), (Start: 3 @20130 has 197 MA's), (5, 20082), (6, 20076), (9, 19977), (13, 19893), (14, 19854),

Gene: RedMaple_26 Start: 20121, Stop: 19780, Start Num: 3

Candidate Starts for RedMaple_26:

(Start: 1 @20157 has 48 MA's), (Start: 3 @20121 has 197 MA's), (5, 20073), (6, 20067), (9, 19968), (13, 19884), (14, 19845),

Gene: Retro23_91 Start: 50039, Stop: 49743, Start Num: 4

Candidate Starts for Retro23_91:

(Start: 4 @50039 has 6 MA's), (8, 49991), (10, 49907), (11, 49889), (12, 49886),

Gene: Ricotta_27 Start: 19874, Stop: 19497, Start Num: 1

Candidate Starts for Ricotta_27:

(Start: 1 @19874 has 48 MA's), (Start: 3 @19838 has 197 MA's), (5, 19790), (6, 19784), (9, 19685), (13, 19601), (14, 19562),

Gene: Riggan_27 Start: 20097, Stop: 19756, Start Num: 3

Candidate Starts for Riggan_27:

(Start: 1 @20133 has 48 MA's), (Start: 3 @20097 has 197 MA's), (5, 20049), (6, 20043), (9, 19944), (13, 19860), (14, 19821),

Gene: Rimu_28 Start: 19849, Stop: 19508, Start Num: 3

Candidate Starts for Rimu_28:

(Start: 1 @19885 has 48 MA's), (Start: 3 @19849 has 197 MA's), (5, 19801), (6, 19795), (9, 19696), (13, 19612), (14, 19573),

Gene: Robyn_26 Start: 19688, Stop: 19347, Start Num: 3

Candidate Starts for Robyn_26:

(Start: 1 @19724 has 48 MA's), (Start: 3 @19688 has 197 MA's), (5, 19640), (6, 19634), (9, 19535), (13, 19451), (14, 19412),

Gene: Roliet_27 Start: 20113, Stop: 19772, Start Num: 3

Candidate Starts for Roliet_27:

(Start: 1 @20149 has 48 MA's), (Start: 3 @20113 has 197 MA's), (5, 20065), (6, 20059), (9, 19960), (13, 19876), (14, 19837),

Gene: Roscoe_28 Start: 20351, Stop: 20010, Start Num: 3

Candidate Starts for Roscoe_28:

(Start: 1 @20387 has 48 MA's), (Start: 3 @20351 has 197 MA's), (5, 20303), (6, 20297), (9, 20198), (13, 20114), (14, 20075),

Gene: Roy17_27 Start: 19853, Stop: 19476, Start Num: 1

Candidate Starts for Roy17_27:

(Start: 1 @19853 has 48 MA's), (Start: 3 @19817 has 197 MA's), (5, 19769), (6, 19763), (9, 19664), (13, 19580), (14, 19541),

Gene: SDcharge11_27 Start: 20091, Stop: 19750, Start Num: 3

Candidate Starts for SDcharge11_27:

(Start: 1 @20127 has 48 MA's), (Start: 3 @20091 has 197 MA's), (5, 20043), (6, 20037), (9, 19938), (13, 19854), (14, 19815),

Gene: Samaymay_27 Start: 20114, Stop: 19773, Start Num: 3

Candidate Starts for Samaymay_27:

(Start: 1 @20150 has 48 MA's), (Start: 3 @20114 has 197 MA's), (5, 20066), (6, 20060), (9, 19961), (13, 19877), (14, 19838),

Gene: SassyCat97_26 Start: 19823, Stop: 19482, Start Num: 3

Candidate Starts for SassyCat97_26:

(Start: 1 @19859 has 48 MA's), (Start: 3 @19823 has 197 MA's), (5, 19775), (6, 19769), (9, 19670), (13, 19586), (14, 19547),

Gene: Schadenfreude_26 Start: 19671, Stop: 19330, Start Num: 3
Candidate Starts for Schadenfreude_26:
(Start: 1 @19707 has 48 MA's), (Start: 3 @19671 has 197 MA's), (5, 19623), (6, 19617), (9, 19518),
(13, 19434), (14, 19395),

Gene: Schueller_27 Start: 19817, Stop: 19476, Start Num: 3
Candidate Starts for Schueller_27:
(Start: 1 @19853 has 48 MA's), (Start: 3 @19817 has 197 MA's), (5, 19769), (6, 19763), (9, 19664),
(13, 19580), (14, 19541),

Gene: Scoot17C_27 Start: 20116, Stop: 19775, Start Num: 3
Candidate Starts for Scoot17C_27:
(Start: 1 @20152 has 48 MA's), (Start: 3 @20116 has 197 MA's), (5, 20068), (6, 20062), (9, 19963),
(13, 19879), (14, 19840),

Gene: Scrick_27 Start: 19841, Stop: 19500, Start Num: 3
Candidate Starts for Scrick_27:
(Start: 1 @19877 has 48 MA's), (Start: 3 @19841 has 197 MA's), (5, 19793), (6, 19787), (9, 19688),
(13, 19604), (14, 19565),

Gene: Selr12_27 Start: 19839, Stop: 19498, Start Num: 3
Candidate Starts for Selr12_27:
(Start: 1 @19875 has 48 MA's), (Start: 3 @19839 has 197 MA's), (5, 19791), (6, 19785), (9, 19686),
(13, 19602), (14, 19563),

Gene: Serendipity_27 Start: 20132, Stop: 19791, Start Num: 3
Candidate Starts for Serendipity_27:
(Start: 1 @20168 has 48 MA's), (Start: 3 @20132 has 197 MA's), (5, 20084), (6, 20078), (9, 19979),
(13, 19895), (14, 19856),

Gene: Serpentine_0027 Start: 20152, Stop: 19775, Start Num: 1
Candidate Starts for Serpentine_0027:
(Start: 1 @20152 has 48 MA's), (Start: 3 @20116 has 197 MA's), (5, 20068), (6, 20062), (9, 19963),
(13, 19879), (14, 19840),

Gene: Sheila_27 Start: 20108, Stop: 19767, Start Num: 3
Candidate Starts for Sheila_27:
(Start: 1 @20144 has 48 MA's), (Start: 3 @20108 has 197 MA's), (5, 20060), (6, 20054), (9, 19955),
(13, 19871), (14, 19832),

Gene: ShiVal_27 Start: 20145, Stop: 19768, Start Num: 1
Candidate Starts for ShiVal_27:
(Start: 1 @20145 has 48 MA's), (Start: 3 @20109 has 197 MA's), (5, 20061), (6, 20055), (9, 19956),
(13, 19872), (14, 19833),

Gene: Sigman_27 Start: 20107, Stop: 19766, Start Num: 3
Candidate Starts for Sigman_27:
(Start: 1 @20143 has 48 MA's), (Start: 3 @20107 has 197 MA's), (5, 20059), (6, 20053), (7, 20044),
(9, 19954), (13, 19870), (14, 19831),

Gene: Simielle_26 Start: 19807, Stop: 19466, Start Num: 3
Candidate Starts for Simielle_26:

(Start: 1 @19843 has 48 MA's), (Start: 3 @19807 has 197 MA's), (5, 19759), (6, 19753), (9, 19654), (13, 19570), (14, 19531),

Gene: Skippy_27 Start: 20102, Stop: 19761, Start Num: 3

Candidate Starts for Skippy_27:

(Start: 1 @20138 has 48 MA's), (Start: 3 @20102 has 197 MA's), (5, 20054), (6, 20048), (9, 19949), (13, 19865), (14, 19826),

Gene: Slatt_27 Start: 20130, Stop: 19789, Start Num: 3

Candidate Starts for Slatt_27:

(Start: 1 @20166 has 48 MA's), (Start: 3 @20130 has 197 MA's), (5, 20082), (6, 20076), (9, 19977), (13, 19893), (14, 19854),

Gene: Soile_27 Start: 19831, Stop: 19490, Start Num: 3

Candidate Starts for Soile_27:

(Start: 1 @19867 has 48 MA's), (Start: 3 @19831 has 197 MA's), (5, 19783), (6, 19777), (9, 19678), (13, 19594), (14, 19555),

Gene: Solosis_26 Start: 19829, Stop: 19488, Start Num: 3

Candidate Starts for Solosis_26:

(Start: 1 @19865 has 48 MA's), (Start: 3 @19829 has 197 MA's), (5, 19781), (6, 19775), (9, 19676), (13, 19592), (14, 19553),

Gene: Sophia_26 Start: 19829, Stop: 19488, Start Num: 3

Candidate Starts for Sophia_26:

(Start: 1 @19865 has 48 MA's), (Start: 3 @19829 has 197 MA's), (5, 19781), (6, 19775), (9, 19676), (13, 19592), (14, 19553),

Gene: Soto_27 Start: 20146, Stop: 19769, Start Num: 1

Candidate Starts for Soto_27:

(Start: 1 @20146 has 48 MA's), (Start: 3 @20110 has 197 MA's), (5, 20062), (6, 20056), (7, 20047), (9, 19957), (13, 19873), (14, 19834),

Gene: Spartan300_27 Start: 20111, Stop: 19770, Start Num: 3

Candidate Starts for Spartan300_27:

(Start: 1 @20147 has 48 MA's), (Start: 3 @20111 has 197 MA's), (5, 20063), (6, 20057), (9, 19958), (13, 19874), (14, 19835),

Gene: Squid_27 Start: 19859, Stop: 19482, Start Num: 1

Candidate Starts for Squid_27:

(Start: 1 @19859 has 48 MA's), (Start: 3 @19823 has 197 MA's), (5, 19775), (6, 19769), (9, 19670), (13, 19586), (14, 19547),

Gene: Squiggle_27 Start: 19820, Stop: 19479, Start Num: 3

Candidate Starts for Squiggle_27:

(Start: 1 @19856 has 48 MA's), (Start: 3 @19820 has 197 MA's), (5, 19772), (6, 19766), (9, 19667), (13, 19583), (14, 19544),

Gene: Struggle_26 Start: 19670, Stop: 19329, Start Num: 3

Candidate Starts for Struggle_26:

(Start: 1 @19706 has 48 MA's), (Start: 3 @19670 has 197 MA's), (5, 19622), (6, 19616), (9, 19517), (13, 19433), (14, 19394),

Gene: Suffolk_27 Start: 20149, Stop: 19772, Start Num: 1

Candidate Starts for Suffolk_27:

(Start: 1 @20149 has 48 MA's), (Start: 3 @20113 has 197 MA's), (5, 20065), (6, 20059), (9, 19960), (13, 19876), (14, 19837),

Gene: Surely_27 Start: 20125, Stop: 19784, Start Num: 3

Candidate Starts for Surely_27:

(Start: 1 @20161 has 48 MA's), (Start: 3 @20125 has 197 MA's), (5, 20077), (6, 20071), (9, 19972), (13, 19888), (14, 19849),

Gene: Swiphy_28 Start: 20117, Stop: 19776, Start Num: 3

Candidate Starts for Swiphy_28:

(Start: 1 @20153 has 48 MA's), (Start: 3 @20117 has 197 MA's), (5, 20069), (6, 20063), (9, 19964), (13, 19880), (14, 19841),

Gene: Swish_27 Start: 20108, Stop: 19767, Start Num: 3

Candidate Starts for Swish_27:

(Start: 1 @20144 has 48 MA's), (Start: 3 @20108 has 197 MA's), (5, 20060), (6, 20054), (9, 19955), (13, 19871), (14, 19832),

Gene: TallGrassMM_27 Start: 19840, Stop: 19499, Start Num: 3

Candidate Starts for TallGrassMM_27:

(Start: 1 @19876 has 48 MA's), (Start: 3 @19840 has 197 MA's), (5, 19792), (6, 19786), (9, 19687), (13, 19603), (14, 19564),

Gene: Telesworld_26 Start: 19819, Stop: 19478, Start Num: 3

Candidate Starts for Telesworld_26:

(Start: 1 @19855 has 48 MA's), (Start: 3 @19819 has 197 MA's), (5, 19771), (6, 19765), (9, 19666), (13, 19582), (14, 19543),

Gene: Thonko_20 Start: 15395, Stop: 15045, Start Num: 3

Candidate Starts for Thonko_20:

(Start: 3 @15395 has 197 MA's), (10, 15209), (12, 15188), (15, 15086), (16, 15068),

Gene: Thora_27 Start: 20157, Stop: 19780, Start Num: 1

Candidate Starts for Thora_27:

(Start: 1 @20157 has 48 MA's), (Start: 3 @20121 has 197 MA's), (5, 20073), (6, 20067), (9, 19968), (13, 19884), (14, 19845),

Gene: ThreeOh3D2_27 Start: 20119, Stop: 19778, Start Num: 3

Candidate Starts for ThreeOh3D2_27:

(Start: 1 @20155 has 48 MA's), (Start: 3 @20119 has 197 MA's), (5, 20071), (6, 20065), (9, 19966), (13, 19882), (14, 19843),

Gene: Thunderbird_27 Start: 19855, Stop: 19478, Start Num: 1

Candidate Starts for Thunderbird_27:

(Start: 1 @19855 has 48 MA's), (Start: 3 @19819 has 197 MA's), (5, 19771), (6, 19765), (9, 19666), (13, 19582), (14, 19543),

Gene: Timmi_26 Start: 19830, Stop: 19489, Start Num: 3

Candidate Starts for Timmi_26:

(Start: 1 @19866 has 48 MA's), (Start: 3 @19830 has 197 MA's), (5, 19782), (6, 19776), (9, 19677), (13, 19593), (14, 19554),

Gene: TomBombadil_27 Start: 20115, Stop: 19774, Start Num: 3
Candidate Starts for TomBombadil_27:
(Start: 1 @20151 has 48 MA's), (Start: 3 @20115 has 197 MA's), (5, 20067), (6, 20061), (9, 19962),
(13, 19878), (14, 19839),

Gene: Tomlarah_27 Start: 20109, Stop: 19768, Start Num: 3
Candidate Starts for Tomlarah_27:
(Start: 1 @20145 has 48 MA's), (Start: 3 @20109 has 197 MA's), (5, 20061), (6, 20055), (9, 19956),
(13, 19872), (14, 19833),

Gene: Toni_26 Start: 19819, Stop: 19478, Start Num: 3
Candidate Starts for Toni_26:
(Start: 1 @19855 has 48 MA's), (Start: 3 @19819 has 197 MA's), (5, 19771), (6, 19765), (9, 19666),
(13, 19582), (14, 19543),

Gene: Tooj_27 Start: 20176, Stop: 19835, Start Num: 3
Candidate Starts for Tooj_27:
(Start: 1 @20212 has 48 MA's), (Start: 3 @20176 has 197 MA's), (5, 20128), (6, 20122), (9, 20023),
(13, 19939), (14, 19900),

Gene: True_26 Start: 19822, Stop: 19481, Start Num: 3
Candidate Starts for True_26:
(Start: 1 @19858 has 48 MA's), (Start: 3 @19822 has 197 MA's), (5, 19774), (6, 19768), (9, 19669),
(13, 19585), (14, 19546),

Gene: Trypo_27 Start: 20114, Stop: 19773, Start Num: 3
Candidate Starts for Trypo_27:
(Start: 1 @20150 has 48 MA's), (Start: 3 @20114 has 197 MA's), (5, 20066), (6, 20060), (9, 19961),
(13, 19877), (14, 19838),

Gene: TyrionL_26 Start: 19678, Stop: 19337, Start Num: 3
Candidate Starts for TyrionL_26:
(Start: 1 @19714 has 48 MA's), (Start: 3 @19678 has 197 MA's), (5, 19630), (6, 19624), (9, 19525),
(13, 19441), (14, 19402),

Gene: UAch1_27 Start: 20131, Stop: 19790, Start Num: 3
Candidate Starts for UAch1_27:
(Start: 1 @20167 has 48 MA's), (Start: 3 @20131 has 197 MA's), (5, 20083), (6, 20077), (9, 19978),
(13, 19894), (14, 19855),

Gene: UncleHowie_27 Start: 19857, Stop: 19480, Start Num: 1
Candidate Starts for UncleHowie_27:
(Start: 1 @19857 has 48 MA's), (Start: 3 @19821 has 197 MA's), (5, 19773), (6, 19767), (9, 19668),
(13, 19584), (14, 19545),

Gene: Usavi_27 Start: 20122, Stop: 19781, Start Num: 3
Candidate Starts for Usavi_27:
(Start: 1 @20158 has 48 MA's), (Start: 3 @20122 has 197 MA's), (5, 20074), (6, 20068), (9, 19969),
(13, 19885), (14, 19846),

Gene: Vaishali24_26 Start: 19780, Stop: 19439, Start Num: 3
Candidate Starts for Vaishali24_26:

(Start: 1 @19816 has 48 MA's), (Start: 3 @19780 has 197 MA's), (5, 19732), (6, 19726), (9, 19627), (13, 19543), (14, 19504),

Gene: Valjean_27 Start: 20114, Stop: 19773, Start Num: 3

Candidate Starts for Valjean_27:

(Start: 1 @20150 has 48 MA's), (Start: 3 @20114 has 197 MA's), (5, 20066), (6, 20060), (9, 19961), (13, 19877), (14, 19838),

Gene: Vaticameos_27 Start: 19812, Stop: 19471, Start Num: 3

Candidate Starts for Vaticameos_27:

(Start: 1 @19848 has 48 MA's), (Start: 3 @19812 has 197 MA's), (5, 19764), (6, 19758), (9, 19659), (13, 19575), (14, 19536),

Gene: Veritas_26 Start: 19681, Stop: 19340, Start Num: 3

Candidate Starts for Veritas_26:

(Start: 1 @19717 has 48 MA's), (Start: 3 @19681 has 197 MA's), (5, 19633), (6, 19627), (9, 19528), (13, 19444), (14, 19405),

Gene: Virapocalypse_27 Start: 20141, Stop: 19764, Start Num: 1

Candidate Starts for Virapocalypse_27:

(Start: 1 @20141 has 48 MA's), (Start: 3 @20105 has 197 MA's), (5, 20057), (6, 20051), (9, 19952), (13, 19868), (14, 19829),

Gene: Virgeve_26 Start: 19892, Stop: 19509, Start Num: 1

Candidate Starts for Virgeve_26:

(Start: 1 @19892 has 48 MA's), (Start: 3 @19856 has 197 MA's), (5, 19802), (6, 19796), (9, 19697), (13, 19613), (14, 19574),

Gene: Vista_27 Start: 20155, Stop: 19778, Start Num: 1

Candidate Starts for Vista_27:

(Start: 1 @20155 has 48 MA's), (Start: 3 @20119 has 197 MA's), (5, 20071), (6, 20065), (9, 19966), (13, 19882), (14, 19843),

Gene: Vivaldi_27 Start: 20145, Stop: 19804, Start Num: 3

Candidate Starts for Vivaldi_27:

(Start: 1 @20181 has 48 MA's), (Start: 3 @20145 has 197 MA's), (5, 20097), (6, 20091), (9, 19992), (13, 19908), (14, 19869),

Gene: Vortex_27 Start: 19861, Stop: 19484, Start Num: 1

Candidate Starts for Vortex_27:

(Start: 1 @19861 has 48 MA's), (Start: 3 @19825 has 197 MA's), (5, 19777), (6, 19771), (9, 19672), (13, 19588), (14, 19549),

Gene: Wallhey_26 Start: 19682, Stop: 19341, Start Num: 3

Candidate Starts for Wallhey_26:

(Start: 1 @19718 has 48 MA's), (Start: 3 @19682 has 197 MA's), (5, 19634), (6, 19628), (9, 19529), (13, 19445), (14, 19406),

Gene: Waterdiva_27 Start: 20114, Stop: 19773, Start Num: 3

Candidate Starts for Waterdiva_27:

(Start: 1 @20150 has 48 MA's), (Start: 3 @20114 has 197 MA's), (5, 20066), (6, 20060), (9, 19961), (13, 19877), (14, 19838),

Gene: Weher20_27 Start: 20110, Stop: 19769, Start Num: 3

Candidate Starts for Weher20_27:

(Start: 1 @20146 has 48 MA's), (Start: 3 @20110 has 197 MA's), (5, 20062), (6, 20056), (9, 19957), (13, 19873), (14, 19834),

Gene: Windsor_26 Start: 19805, Stop: 19458, Start Num: 3

Candidate Starts for Windsor_26:

(2, 19829), (Start: 3 @19805 has 197 MA's), (5, 19751), (6, 19745), (9, 19646), (13, 19562), (14, 19523),

Gene: Xavier_26 Start: 19868, Stop: 19491, Start Num: 1

Candidate Starts for Xavier_26:

(Start: 1 @19868 has 48 MA's), (Start: 3 @19832 has 197 MA's), (5, 19784), (6, 19778), (9, 19679), (13, 19595), (14, 19556),

Gene: Yoshand_27 Start: 20121, Stop: 19780, Start Num: 3

Candidate Starts for Yoshand_27:

(Start: 1 @20157 has 48 MA's), (Start: 3 @20121 has 197 MA's), (5, 20073), (6, 20067), (9, 19968), (13, 19884), (14, 19845),

Gene: YouGoGlencoco_27 Start: 20113, Stop: 19772, Start Num: 3

Candidate Starts for YouGoGlencoco_27:

(Start: 1 @20149 has 48 MA's), (Start: 3 @20113 has 197 MA's), (5, 20065), (6, 20059), (9, 19960), (13, 19876), (14, 19837),

Gene: Zaider_28 Start: 20346, Stop: 20005, Start Num: 3

Candidate Starts for Zaider_28:

(Start: 1 @20382 has 48 MA's), (Start: 3 @20346 has 197 MA's), (5, 20298), (6, 20292), (9, 20193), (13, 20109), (14, 20070),

Gene: Zelda_27 Start: 20115, Stop: 19774, Start Num: 3

Candidate Starts for Zelda_27:

(Start: 1 @20151 has 48 MA's), (Start: 3 @20115 has 197 MA's), (5, 20067), (6, 20061), (9, 19962), (13, 19878), (14, 19839),

Gene: Zonia_27 Start: 20168, Stop: 19791, Start Num: 1

Candidate Starts for Zonia_27:

(Start: 1 @20168 has 48 MA's), (Start: 3 @20132 has 197 MA's), (5, 20084), (6, 20078), (9, 19979), (13, 19895), (14, 19856),