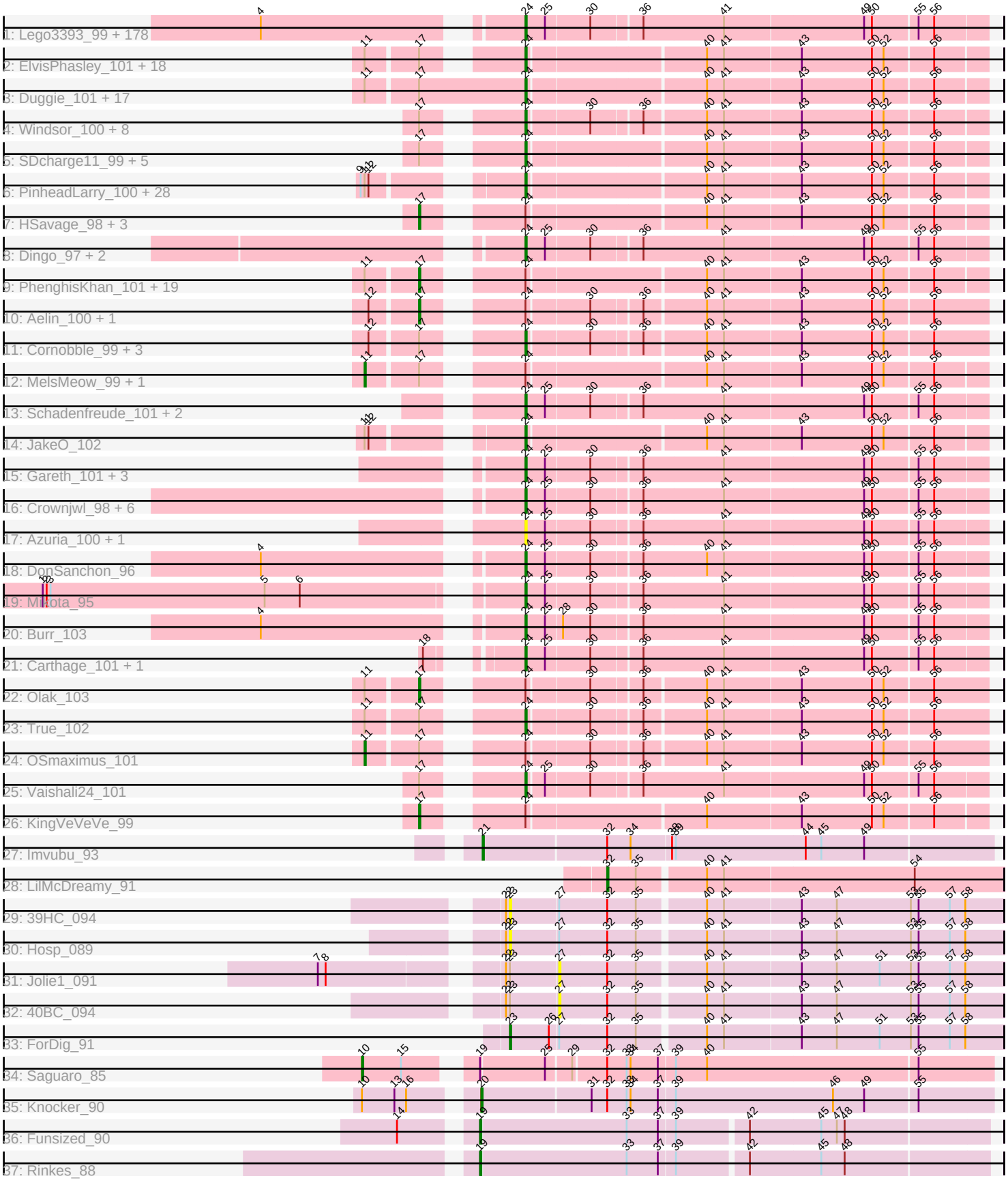
Pham 347144


1: Lego3393_99 + 178
2: ElvisPhasley_101 + 18
3: Duggie_101 + 17
4: Windsor_100 + 8
5: SDcharge11_99 + 5
6: PinheadLarry_100 + 28
7: HSavage_98 + 3
8: Dingo_97 + 2
9: PhenghisKhan_101 + 19
10: Aelin_100 + 1
11: Cornobble_99 + 3
12: MelsMeow_99 + 1
13: Schadenfreude_101 + 2
14: JakeO_102
15: Gareth_101 + 3
16: Crownjwl_98 + 6
17: Azuria_100 + 1
18: DonSanchon_96
19: Mikota_95
20: Burr_103
21: Carthage_101 + 1
22: Olak_103
23: True_102
24: OSmaximus_101
25: Vaishali24_101
26: KingVeVeVe_99
27: Imvubu_93
28: LilMcDreamy_91
29: 39HC_094
30: Hosp_089
31: Jolie1_091
32: 40BC_094
33: ForDig_91
34: Saguaro_85
35: Knocker_90
36: Funsized_90
37: Rinkes_88

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 347144 Report

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

Pham number 347144 has 333 members, 30 are drafts.

Phages represented in each track:
• Track 1 : Lego3393_99, Chah_103, Placalicious_98, Kikipoo_103, Pherdinand_102, Craff_102, Harvey_98, Xavier_100, Kimbrough_102, Andre_105, Giraffe_102, Puhltonio_96, Held_99, Olive_97, Quisquiliae_103, FugateOSU_101, Jillium_101, ThreeOh3D2_102, Boehler_98, PhrodoBaggins_103, Selr12_105, FremontTroll_103, Mecca_101, Hetaeria_100, Orfeu_101, Usavi_101, SallyH_104, Anderson_102, Cobra_101, Chorkpop_102, Megatron_102, Inverness_98, Slatt_103, Adriana_101, MitKao_101, Phareon_98, Hertubise_100, Phamished_100, Serendipity_100, Emiris_103, Waterdiva_102, Lasso_100, Aonishiki_101, NiaNia_102, Kwadwo_100, EmpTee_100, ABU_99, Newman_96, Jesabah_105, Podrick_99, Kahve_101, LemonSlice_101, PhatCats2014_100, Squiggle_100, Buckeye_99, Iridoclysis_100, Spartan300_100, Beaglebox_97, Legolas_102, Katniss_103, Bluephacebaby_100, BoogieWoogie_104, Prickles_101, Dione_99, UAch1_101, Lumine_102, Pacifista_103, Numberten_101, Oosterbaan_101, Kloppinator_101, Haimas_98, Roscoe_99, Pipsqueak_98, Cosmolli16_102, Chipette_100, Morty_101, GreenChile_99, Childish_101, Frankicide_98, Sigman_100, SilverBell_102, Charles1_104, Dice_101, Serpentine_00103, Virapocalypse_102, Fringe_105, Simielle_101, LeeLot_99, Bishoperium_101, LostAndPhound_100, Potter_95, Altwerkus_98, ShadowBud_101, Mutante_102, IsaacEli_103, AbsoluteMadLad_99, LuckyMarjie_98, Scrick_102, FriarPreacher_98, Freya_97, ProfessorX_98, Plmatters_98, MRabcd_101, Thora_99, UncleHowie_97, DolOn_104, Cannibal_101, Haleema_100, Banjo_97, ShiVal_100, YouGoGlencoco_101, Mana_98, Hamish_98, Grand2040_98, HenryJackson_101, Omniscient_102, Morgushi_98, TooFast2Furius_99, JangoPhett_99, HighStump_103, Orion_99, CheetO_97, Timmi_99, FluffyNinja_102, Daffy_100, Gophee_100, Surely_101, Valjean_99, Lulumae_96, Roy17_98, Sophia_99, Megamind20_103, Squid_100, JacAttac_101, Piglet_00100, Swish_102, Phipps_98, Lulwa_98, Zelda_101, Colbert_99, Skippy_101, Mesh1_101, Vista_100, Samaymay_101, Matalotodo_99, Vaticameos_98, OliverWalter_100, Mosaic_98, BlackStallion_100, Nicole21_102, TomBombadil_101, PG1_99, DoesntMatter_98, SassyCat97_99, Nyala_101, Mulan_100, Phunky_98, DirtJuice_102, KingTut_91, Fang_101, QueenBeane_101, Scoot17C_101, Mesmerelda_101, Maru_100, PallasAthena_102, CamL_101, Gyarad_0099, Badfish_101, Nacho_00103, FleetyMac_102, Riggan_102, Yoshand_102, Telesworld_99, Zaider_102, Murdoc_97, Eugenia_103, Tomlarah_101, Toni_100, RedMaple_99
• Track 2 : ElvisPhasley_101, LasagnaCat_102, AngelCake_101, ImtiyazSitla_102, DuchessDung_98, Veritas_100, Phleuron_98, Mag7_99, Kwksand96_102, Hartsy_99, Pinkman_100, Nathan_100, Maskar_102, Inchworm_102,

CampRoach_101, Ashraf_102, Caspiboi_100, Kailash_99, Wallhey_102
• Track 3 : Duggie_101, OneBrain_102, Longacauda_101, Nova1_100, KlimbOn_100, Salazzle_99, Jiminy_101, Struggle_101, Hekos_98, Ricotta_102, Karn_100, Gwilliam_101, Nehme_97, Thunderbird_101, Jiraiya_102, Plata_99, Aleia_100, DelRivs_100
• Track 4 : Windsor_100, Keitherie_104, Chaelin_101, Larson_103, Chuni_104, Flake_100, SirBeauregard_101, Coletti_104, Chute_101
• Track 5 : SDcharge11_99, BlueHusk_101, Horchata_95, Sheila_95, Roliet_98, Daka_102
• Track 6 : PinheadLarry_100, BlacksBerry_102, Durga_103, Happabalu_99, Weher20_98, Cornbread_101, GeneCoco_100, Khan1_100, Etaye_100, Doddsville_98, Iridessa_103, Gwennie1_100, Swiphy_103, LeiMonet_104, HogWash_101, Dati_98, Hocus_100, DaddyDaniels_104, PhatLouie_103, Trypo_101, Solosis_99, JDog_100, MrPhizzler_104, Virgeve_99, Brilliant_104, TallGrassMM_100, Vortex_99, Melc17_98, Rimu_100
• Track 7 : HSavage_98, MiniBoss_96, Eremos_98, AltPhacts_98
• Track 8 : Dingo_97, Soto_97, RedRaider89_99
• Track 9 : PhenghisKhan_101, PhrankReynolds_99, CharlieGBrown_99, Chunky_99, Mcshane_103, Derpp_100, TyrionL_101, Labeouficaum_101, BatteryCK_99, Lopsy_97, Apizium_99, Taraxa_101, Soile_102, Kiwot_101, Schueller_99, Phergie_101, Zonia_101, Vectra_100, Jbug01_99, MichaelPhcott_99
• Track 10 : Aelin_100, Antonia_100
• Track 11 : Cornobble_99, Vivaldi_101, Manad_100, EmGer13_100
• Track 12 : MelsMeow_99, Oline_100
• Track 13 : Schadenfreude_101, Fozzie_97, Triad_100
• Track 14 : JakeO_102
• Track 15 : Gareth_101, Orwigg_102, Cher_101, Tooj_98
• Track 16 : Crownjwl_98, Pops_98, Basato_99, KLucky39_98, Suffolk_96, Lehmann_101, Riverton_99
• Track 17 : Azuria_100, Septica_101
• Track 18 : DonSanchon_96
• Track 19 : Mikota_95
• Track 20 : Burr_103
• Track 21 : Carthage_101, Robyn_102
• Track 22 : Olak_103
• Track 23 : True_102
• Track 24 : OSmaximus_101
• Track 25 : Vaishali24_101
• Track 26 : KingVeVeVe_99
• Track 27 : Imvubu_93
• Track 28 : LilMcDreamy_91
• Track 29 : 39HC_094
• Track 30 : Hosp_089
• Track 31 : Jolie1_091
• Track 32 : 40BC_094
• Track 33 : ForDig_91
• Track 34 : Saguaro_85
• Track 35 : Knocker_90
• Track 36 : Funsized_90
• Track 37 : Rinkes_88

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

The start number called the most often in the published annotations is 24, it was called in 269 of the 303 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• ABU_99, AbsoluteMadLad_99, Adriana_101, Aleia_100, Altwerkus_98, Anderson_102, Andre_105, AngelCake_101, Aonishiki_101, Ashraf_102, Azuria_100, Badfish_101, Banjo_97, Basato_99, Beaglebox_97, Bishoperium_101, BlackStallion_100, BlacksBerry_102, BlueHusk_101, Bluephacebaby_100, Boehler_98, BoogieWoogie_104, Brilliant_104, Buckeye_99, Burr_103, CamL_101, CampRoach_101, Cannibal_101, Carthage_101, Caspiboi_100, Chaelin_101, Chah_103, Charles1_104, CheetO_97, Cher_101, Childish_101, Chipette_100, Chorkpop_102, Chuni_104, Chute_101, Cobra_101, Colbert_99, Coletti_104, Cornbread_101, Cornobble_99, Cosmolli16_102, Craff_102, Crownjwl_98, DaddyDaniels_104, Daffy_100, Daka_102, Dati_98, DelRivs_100, Dice_101, Dingo_97, Dione_99, DirtJuice_102, Doddsville_98, DoesntMatter_98, DolOn_104, DonSanchon_96, DuchessDung_98, Duggie_101, Durga_103, ElvisPhasley_101, EmGer13_100, Emiris_103, EmpTee_100, Etaye_100, Eugenia_103, Fang_101, Flake_100, FleetyMac_102, FluffyNinja_102, Fozzie_97, Frankicide_98, FremontTroll_103, Freya_97, FriarPreacher_98, Fringe_105, FugateOSU_101, Gareth_101, GeneCoco_100, Giraffe_102, Gophee_100, Grand2040_98, GreenChile_99, Gwennie1_100, Gwilliam_101, Gyarad_0099, Haimas_98, Haleema_100, Hamish_98, Happabalu_99, Hartsy_99, Harvey_98, Hekos_98, Held_99, HenryJackson_101, Hertubise_100, Hetaeria_100, HighStump_103, Hocus_100, HogWash_101, Horchata_95, ImtiyazSitla_102, Inchworm_102, Inverness_98, Iridessa_103, Iridoclysis_100, IsaacEli_103, JDog_100, JacAttac_101, JakeO_102, JangoPhett_99, Jesabah_105, Jillium_101, Jiminy_101, Jiraiya_102, KLucky39_98, Kahve_101, Kailash_99, Karn_100, Katniss_103, Keitherie_104, Khan1_100, Kikipoo_103, Kimbrough_102, KingTut_91, KlimbOn_100, Kloppinator_101, Kwadwo_100, Kwksand96_102, Larson_103, LasagnaCat_102, Lasso_100, LeeLot_99, Lego3393_99, Legolas_102, Lehmann_101, LeiMonet_104, LemonSlice_101, Longacauda_101, LostAndPhound_100, LuckyMarjie_98, Lulumae_96, Lulwa_98, Lumine_102, MRabcd_101, Mag7_99, Mana_98, Manad_100, Maru_100, Maskar_102, Matalotodo_99, Mecca_101, Megamind20_103, Megatron_102, Melc17_98, Mesh1_101, Mesmerelda_101, Mikota_95, MitKao_101, Morgushi_98, Morty_101, Mosaic_98, MrPhizzler_104, Mulan_100, Murdoc_97, Mutante_102, Nacho_00103, Nathan_100, Nehme_97, Newman_96, NiaNia_102, Nicole21_102, Nova1_100, Numberten_101, Nyala_101, Olive_97, OliverWalter_100, Omniscient_102, OneBrain_102, Oosterbaan_101, Orfeu_101, Orion_99, Orwigg_102, PG1_99, Pacifista_103, PallasAthena_102, Phamished_100, Phareon_98, PhatCats2014_100, PhatLouie_103, Pherdinand_102, Phipps_98, Phleuron_98, PhrodoBaggins_103, Phunky_98, Piglet_00100, PinheadLarry_100, Pinkman_100, Pipsqueak_98, Placalicious_98, Plata_99, Plmatters_98, Podrick_99, Pops_98, Potter_95, Prickles_101, ProfessorX_98, Puhltonio_96, QueenBeane_101, Quisquiliae_103, RedMaple_99, RedRaider89_99, Ricotta_102, Riggan_102, Rimu_100, Riverton_99, Robyn_102, Roliet_98, Roscoe_99, Roy17_98, SDcharge11_99, Salazzle_99, SallyH_104, Samaymay_101, SassyCat97_99, Schadenfreude_101, Scoot17C_101, Scrick_102, Selr12_105, Septica_101, Serendipity_100, Serpentine_00103, ShadowBud_101, Sheila_95, ShiVal_100, Sigman_100, SilverBell_102, Simielle_101, SirBeauregard_101, Skippy_101, Slatt_103, Solosis_99, Sophia_99, Soto_97, Spartan300_100,

Squid_100, Squiggle_100, Struggle_101, Suffolk_96, Surely_101, Swiphy_103, Swish_102, TallGrassMM_100, Telesworld_99, Thora_99, ThreeOh3D2_102, Thunderbird_101, Timmi_99, TomBombadil_101, Tomlarah_101, Toni_100, TooFast2Furius_99, Tooj_98, Triad_100, True_102, Trypo_101, UAch1_101, UncleHowie_97, Usavi_101, Vaishali24_101, Valjean_99, Vaticameos_98, Veritas_100, Virapocalypse_102, Virgeve_99, Vista_100, Vivaldi_101, Vortex_99, Wallhey_102, Waterdiva_102, Weher20_98, Windsor_100, Xavier_100, Yoshand_102, YouGoGlencoco_101, Zaider_102, Zelda_101,

Genes that have the "Most Annotated" start but do not call it:
• Aelin_100, AltPhacts_98, Antonia_100, Apizium_99, BatteryCK_99, CharlieGBrown_99, Chunky_99, Derpp_100, Eremos_98, HSavage_98, Jbug01_99, KingVeVeVe_99, Kiwot_101, Labeouficaum_101, Lopsy_97, Mcshane_103, MelsMeow_99, MichaelPhcott_99, MiniBoss_96, OSmaximus_101, Olak_103, Oline_100, PhenghisKhan_101, Phergie_101, PhrankReynolds_99, Schueller_99, Soile_102, Taraxa_101, TyrionL_101, Vectra_100, Zonia_101,

Genes that do not have the "Most Annotated" start:
• 39HC_094, 40BC_094, ForDig_91, Funsized_90, Hosp_089, Imvubu_93, Jolie1_091, Knocker_90, LilMcDreamy_91, Rinkes_88, Saguaro_85,

Summary by start number:

Start 10:
• Found in 2 of 333 (0.6%) of genes in pham
• Manual Annotations of this start: 1 of 303
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Saguaro_85 (B7),

Start 11:
• Found in 92 of 333 (27.6%) of genes in pham
• Manual Annotations of this start: 3 of 303
• Called 3.3% of time when present
• Phage (with cluster) where this start called: MelsMeow_99 (B1), OSmaximus_101 (B1), Oline_100 (B1),

Start 17:
• Found in 89 of 333 (26.7%) of genes in pham
• Manual Annotations of this start: 24 of 303
• Called 31.5% of time when present
• Phage (with cluster) where this start called: Aelin_100 (B1), AltPhacts_98 (B1), Antonia_100 (B1), Apizium_99 (B1), BatteryCK_99 (B1), CharlieGBrown_99 (B1), Chunky_99 (B1), Derpp_100 (B1), Eremos_98 (B1), HSavage_98 (B1), Jbug01_99 (B1), KingVeVeVe_99 (B1), Kiwot_101 (B1), Labeouficaum_101 (B1), Lopsy_97 (B1), Mcshane_103 (B1), MichaelPhcott_99 (B1), MiniBoss_96 (B1), Olak_103 (B1), PhenghisKhan_101 (B1), Phergie_101 (B1), PhrankReynolds_99 (B1), Schueller_99 (B1), Soile_102 (B1), Taraxa_101 (B1), TyrionL_101 (B1), Vectra_100 (B1), Zonia_101 (B1),

Start 19:
• Found in 3 of 333 (0.9%) of genes in pham
• Manual Annotations of this start: 2 of 303
• Called 66.7% of time when present

• Phage (with cluster) where this start called: Funsized_90 (B9), Rinkes_88 (B9),

Start 20:
• Found in 1 of 333 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 303
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Knocker_90 (B9),

Start 21:
• Found in 1 of 333 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 303
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Imvubu_93 (B10),

Start 23:
• Found in 5 of 333 (1.5%) of genes in pham
• Manual Annotations of this start: 1 of 303
• Called 60.0% of time when present
• Phage (with cluster) where this start called: 39HC_094 (B6), ForDig_91 (B6), Hosp_089 (B6),

Start 24:
• Found in 322 of 333 (96.7%) of genes in pham
• Manual Annotations of this start: 269 of 303
• Called 90.4% of time when present
• Phage (with cluster) where this start called: ABU_99 (B1), AbsoluteMadLad_99 (B1), Adriana_101 (B1), Aleia_100 (B1), Altwerkus_98 (B1), Anderson_102 (B1), Andre_105 (B1), AngelCake_101 (B1), Aonishiki_101 (B1), Ashraf_102 (B1), Azuria_100 (B1), Badfish_101 (B1), Banjo_97 (B1), Basato_99 (B1), Beaglebox_97 (B1), Bishoperium_101 (B1), BlackStallion_100 (B1), BlacksBerry_102 (B1), BlueHusk_101 (B1), Bluephacebaby_100 (B1), Boehler_98 (B1), BoogieWoogie_104 (B1), Brilliant_104 (B1), Buckeye_99 (B1), Burr_103 (B1), CamL_101 (B1), CampRoach_101 (B1), Cannibal_101 (B1), Carthage_101 (B1), Caspiboi_100 (B1), Chaelin_101 (B1), Chah_103 (B1), Charles1_104 (B1), CheetO_97 (B1), Cher_101 (B1), Childish_101 (B1), Chipette_100 (B1), Chorkpop_102 (B1), Chuni_104 (B1), Chute_101 (B1), Cobra_101 (B1), Colbert_99 (B1), Coletti_104 (B1), Cornbread_101 (B1), Cornobble_99 (B1), Cosmolli16_102 (B1), Craff_102 (B1), Crownjwl_98 (B1), DaddyDaniels_104 (B1), Daffy_100 (B1), Daka_102 (B1), Dati_98 (B1), DelRivs_100 (B1), Dice_101 (B1), Dingo_97 (B1), Dione_99 (B1), DirtJuice_102 (B1), Doddsville_98 (B1), DoesntMatter_98 (B1), DolOn_104 (B1), DonSanchon_96 (B1), DuchessDung_98 (B1), Duggie_101 (B1), Durga_103 (B1), ElvisPhasley_101 (B1), EmGer13_100 (B1), Emiris_103 (B1), EmpTee_100 (B1), Etaye_100 (B1), Eugenia_103 (B1), Fang_101 (B1), Flake_100 (B1), FleetyMac_102 (B1), FluffyNinja_102 (B1), Fozzie_97 (B1), Frankicide_98 (B1), FremontTroll_103 (B1), Freya_97 (B1), FriarPreacher_98 (B1), Fringe_105 (B1), FugateOSU_101 (B1), Gareth_101 (B1), GeneCoco_100 (B1), Giraffe_102 (B1), Gophee_100 (B1), Grand2040_98 (B1), GreenChile_99 (B1), Gwennie1_100 (B1), Gwilliam_101 (B1), Gyarad_0099 (B1), Haimas_98 (B1), Haleema_100 (B1), Hamish_98 (B1), Happabalu_99 (B1), Hartsy_99 (B1), Harvey_98 (B1), Hekos_98 (B1), Held_99 (B1), HenryJackson_101 (B1), Hertubise_100 (B1), Hetaeria_100 (B1), HighStump_103 (B1), Hocus_100 (B1), HogWash_101 (B1), Horchata_95 (B1), ImtiyazSitla_102 (B1), Inchworm_102 (B1), Inverness_98 (B1), Iridessa_103 (B1), Iridoclysis_100 (B1), IsaacEli_103 (B1), JDog_100 (B1), JacAttac_101 (B1), JakeO_102 (B1),

JangoPhett_99 (B1), Jesabah_105 (B1), Jillium_101 (B1), Jiminy_101 (B1), Jiraiya_102 (B1), KLucky39_98 (B1), Kahve_101 (B1), Kailash_99 (B1), Karn_100 (B1), Katniss_103 (B1), Keitherie_104 (B1), Khan1_100 (B1), Kikipoo_103 (B1), Kimbrough_102 (B1), KingTut_91 (B1), KlimbOn_100 (B1), Kloppinator_101 (B1), Kwadwo_100 (B1), Kwksand96_102 (B1), Larson_103 (B1), LasagnaCat_102 (B1), Lasso_100 (B1), LeeLot_99 (B1), Lego3393_99 (B1), Legolas_102 (B1), Lehmann_101 (B1), LeiMonet_104 (B1), LemonSlice_101 (B1), Longacauda_101 (B1), LostAndPhound_100 (B1), LuckyMarjie_98 (B1), Lulumae_96 (B1), Lulwa_98 (B1), Lumine_102 (B1), MRabcd_101 (B1), Mag7_99 (B1), Mana_98 (B1), Manad_100 (B1), Maru_100 (B1), Maskar_102 (B1), Matalotodo_99 (B1), Mecca_101 (B1), Megamind20_103 (B1), Megatron_102 (B1), Melc17_98 (B1), Mesh1_101 (B1), Mesmerelda_101 (B1), Mikota_95 (B1), MitKao_101 (B1), Morgushi_98 (B1), Morty_101 (B1), Mosaic_98 (B1), MrPhizzler_104 (B1), Mulan_100 (B1), Murdoc_97 (B1), Mutante_102 (B1), Nacho_00103 (B1), Nathan_100 (B1), Nehme_97 (B1), Newman_96 (B1), NiaNia_102 (B1), Nicole21_102 (B1), Nova1_100 (B1), Numberten_101 (B1), Nyala_101 (B1), Olive_97 (B1), OliverWalter_100 (B1), Omniscient_102 (B1), OneBrain_102 (B1), Oosterbaan_101 (B1), Orfeu_101 (B1), Orion_99 (B1), Orwigg_102 (B1), PG1_99 (B1), Pacifista_103 (B1), PallasAthena_102 (B1), Phamished_100 (B1), Phareon_98 (B1), PhatCats2014_100 (B1), PhatLouie_103 (B1), Pherdinand_102 (B1), Phipps_98 (B1), Phleuron_98 (B1), PhrodoBaggins_103 (B1), Phunky_98 (B1), Piglet_00100 (B1), PinheadLarry_100 (B1), Pinkman_100 (B1), Pipsqueak_98 (B1), Placalicious_98 (B1), Plata_99 (B1), Plmatters_98 (B1), Podrick_99 (B1), Pops_98 (B1), Potter_95 (B1), Prickles_101 (B1), ProfessorX_98 (B1), Puhltonio_96 (B1), QueenBeane_101 (B1), Quisquiliae_103 (B1), RedMaple_99 (B1), RedRaider89_99 (B1), Ricotta_102 (B1), Riggan_102 (B1), Rimu_100 (B1), Riverton_99 (B1), Robyn_102 (B1), Roliet_98 (B1), Roscoe_99 (B1), Roy17_98 (B1), SDcharge11_99 (B1), Salazzle_99 (B1), SallyH_104 (B1), Samaymay_101 (B1), SassyCat97_99 (B1), Schadenfreude_101 (B1), Scoot17C_101 (B1), Scrick_102 (B1), Selr12_105 (B1), Septica_101 (B1), Serendipity_100 (B1), Serpentine_00103 (B1), ShadowBud_101 (B1), Sheila_95 (B1), ShiVal_100 (B1), Sigman_100 (B1), SilverBell_102 (B1), Simielle_101 (B1), SirBeauregard_101 (B1), Skippy_101 (B1), Slatt_103 (B1), Solosis_99 (B1), Sophia_99 (B1), Soto_97 (B1), Spartan300_100 (B1), Squid_100 (B1), Squiggle_100 (B1), Struggle_101 (B1), Suffolk_96 (B1), Surely_101 (B1), Swiphy_103 (B1), Swish_102 (B1), TallGrassMM_100 (B1), Telesworld_99 (B1), Thora_99 (B1), ThreeOh3D2_102 (B1), Thunderbird_101 (B1), Timmi_99 (B1), TomBombadil_101 (B1), Tomlarah_101 (B1), Toni_100 (B1), TooFast2Furius_99 (B1), Tooj_98 (B1), Triad_100 (B1), True_102 (B1), Trypo_101 (B1), UAch1_101 (B1), UncleHowie_97 (B1), Usavi_101 (B1), Vaishali24_101 (B1), Valjean_99 (B1), Vaticameos_98 (B1), Veritas_100 (B1), Virapocalypse_102 (B1), Virgeve_99 (B1), Vista_100 (B1), Vivaldi_101 (B1), Vortex_99 (B1), Wallhey_102 (B1), Waterdiva_102 (B1), Weher20_98 (B1), Windsor_100 (B1), Xavier_100 (B1), Yoshand_102 (B1), YouGoGlencoco_101 (B1), Zaider_102 (B1), Zelda_101 (B1),

Start 27:
• Found in 5 of 333 (1.5%) of genes in pham
• No Manual Annotations of this start.
• Called 40.0% of time when present
• Phage (with cluster) where this start called: 40BC_094 (B6), Jolie1_091 (B6),

Start 32:
• Found in 9 of 333 (2.7%) of genes in pham
• Manual Annotations of this start: 1 of 303

• Called 11.1% of time when present
• Phage (with cluster) where this start called: LilMcDreamy_91 (B12),

Summary by clusters:

There are 6 clusters represented in this pham: B6, B7, B12, B1, B10, B9,

Info for manual annotations of cluster B1:
•Start number 11 was manually annotated 3 times for cluster B1.
•Start number 17 was manually annotated 24 times for cluster B1.
•Start number 24 was manually annotated 269 times for cluster B1.

Info for manual annotations of cluster B10:
•Start number 21 was manually annotated 1 time for cluster B10.

Info for manual annotations of cluster B12:
•Start number 32 was manually annotated 1 time for cluster B12.

Info for manual annotations of cluster B6:
•Start number 23 was manually annotated 1 time for cluster B6.

Info for manual annotations of cluster B7:
•Start number 10 was manually annotated 1 time for cluster B7.

Info for manual annotations of cluster B9:
•Start number 19 was manually annotated 2 times for cluster B9.
•Start number 20 was manually annotated 1 time for cluster B9.

Gene Information:

Gene: 39HC_094 Start: 68290, Stop: 67925, Start Num: 23
Candidate Starts for 39HC_094:
(22, 68293), (Start: 23 @68290 has 1 MA's), (27, 68254), (Start: 32 @68218 has 1 MA's), (35, 68197), (40, 68149), (41, 68137), (43, 68080), (47, 68053), (53, 67996), (55, 67990), (57, 67966), (58, 67954),

Gene: 40BC_094 Start: 68254, Stop: 67925, Start Num: 27
Candidate Starts for 40BC_094:
(22, 68293), (Start: 23 @68290 has 1 MA's), (27, 68254), (Start: 32 @68218 has 1 MA's), (35, 68197), (40, 68149), (41, 68137), (43, 68080), (47, 68053), (53, 67996), (55, 67990), (57, 67966), (58, 67954),

Gene: ABU_99 Start: 68479, Stop: 68141, Start Num: 24
Candidate Starts for ABU_99:
(4, 68653), (Start: 24 @68479 has 269 MA's), (25, 68464), (30, 68431), (36, 68395), (41, 68335), (49, 68230), (50, 68224), (55, 68191), (56, 68179),

Gene: AbsoluteMadLad_99 Start: 68432, Stop: 68094, Start Num: 24
Candidate Starts for AbsoluteMadLad_99:
(4, 68606), (Start: 24 @68432 has 269 MA's), (25, 68417), (30, 68384), (36, 68348), (41, 68288), (49, 68183), (50, 68177), (55, 68144), (56, 68132),

Gene: Adriana_101 Start: 68751, Stop: 68413, Start Num: 24

Candidate Starts for Adriana_101:
(4, 68925), (Start: 24 @68751 has 269 MA's), (25, 68736), (30, 68703), (36, 68667), (41, 68607), (49, 68502), (50, 68496), (55, 68463), (56, 68451),

Gene: Aelin_100 Start: 68163, Stop: 67771, Start Num: 17
Candidate Starts for Aelin_100:
(12, 68196), (Start: 17 @68163 has 24 MA's), (Start: 24 @68106 has 269 MA's), (30, 68061), (36, 68025), (40, 67980), (41, 67968), (43, 67911), (50, 67857), (52, 67848), (56, 67812),

Gene: Aleia_100 Start: 68115, Stop: 67780, Start Num: 24
Candidate Starts for Aleia_100:
(Start: 11 @68232 has 3 MA's), (Start: 17 @68196 has 24 MA's), (Start: 24 @68115 has 269 MA's), (40, 67986), (41, 67974), (43, 67917), (50, 67863), (52, 67854), (56, 67818),

Gene: AltPhacts_98 Start: 67737, Stop: 67345, Start Num: 17
Candidate Starts for AltPhacts_98:
(Start: 17 @67737 has 24 MA's), (Start: 24 @67680 has 269 MA's), (40, 67551), (41, 67539), (43, 67482), (50, 67428), (52, 67419), (56, 67383),

Gene: Altwerkus_98 Start: 67808, Stop: 67470, Start Num: 24
Candidate Starts for Altwerkus_98:
(4, 67982), (Start: 24 @67808 has 269 MA's), (25, 67793), (30, 67760), (36, 67724), (41, 67664), (49, 67559), (50, 67553), (55, 67520), (56, 67508),

Gene: Anderson_102 Start: 68355, Stop: 68017, Start Num: 24
Candidate Starts for Anderson_102:
(4, 68529), (Start: 24 @68355 has 269 MA's), (25, 68340), (30, 68307), (36, 68271), (41, 68211), (49, 68106), (50, 68100), (55, 68067), (56, 68055),

Gene: Andre_105 Start: 68746, Stop: 68408, Start Num: 24
Candidate Starts for Andre_105:
(4, 68920), (Start: 24 @68746 has 269 MA's), (25, 68731), (30, 68698), (36, 68662), (41, 68602), (49, 68497), (50, 68491), (55, 68458), (56, 68446),

Gene: AngelCake_101 Start: 68099, Stop: 67764, Start Num: 24
Candidate Starts for AngelCake_101:
(Start: 11 @68192 has 3 MA's), (Start: 17 @68156 has 24 MA's), (Start: 24 @68099 has 269 MA's), (40, 67970), (41, 67958), (43, 67901), (50, 67847), (52, 67838), (56, 67802),

Gene: Antonia_100 Start: 68034, Stop: 67642, Start Num: 17
Candidate Starts for Antonia_100:
(12, 68067), (Start: 17 @68034 has 24 MA's), (Start: 24 @67977 has 269 MA's), (30, 67932), (36, 67896), (40, 67851), (41, 67839), (43, 67782), (50, 67728), (52, 67719), (56, 67683),

Gene: Aonishiki_101 Start: 68290, Stop: 67952, Start Num: 24
Candidate Starts for Aonishiki_101:
(4, 68464), (Start: 24 @68290 has 269 MA's), (25, 68275), (30, 68242), (36, 68206), (41, 68146), (49, 68041), (50, 68035), (55, 68002), (56, 67990),

Gene: Apizium_99 Start: 67685, Stop: 67293, Start Num: 17
Candidate Starts for Apizium_99:
(Start: 11 @67721 has 3 MA's), (Start: 17 @67685 has 24 MA's), (Start: 24 @67628 has 269 MA's), (40, 67499), (41, 67487), (43, 67430), (50, 67376), (52, 67367), (56, 67331),

Gene: Ashraf_102 Start: 68483, Stop: 68148, Start Num: 24
Candidate Starts for Ashraf_102:
(Start: 11 @68576 has 3 MA's), (Start: 17 @68540 has 24 MA's), (Start: 24 @68483 has 269 MA's), (40, 68354), (41, 68342), (43, 68285), (50, 68231), (52, 68222), (56, 68186),

Gene: Azuria_100 Start: 68206, Stop: 67868, Start Num: 24
Candidate Starts for Azuria_100:
(Start: 24 @68206 has 269 MA's), (25, 68191), (30, 68158), (36, 68122), (41, 68062), (49, 67957), (50, 67951), (55, 67918), (56, 67906),

Gene: Badfish_101 Start: 68659, Stop: 68321, Start Num: 24
Candidate Starts for Badfish_101:
(4, 68833), (Start: 24 @68659 has 269 MA's), (25, 68644), (30, 68611), (36, 68575), (41, 68515), (49, 68410), (50, 68404), (55, 68371), (56, 68359),

Gene: Banjo_97 Start: 67925, Stop: 67587, Start Num: 24
Candidate Starts for Banjo_97:
(4, 68099), (Start: 24 @67925 has 269 MA's), (25, 67910), (30, 67877), (36, 67841), (41, 67781), (49, 67676), (50, 67670), (55, 67637), (56, 67625),

Gene: Basato_99 Start: 68145, Stop: 67807, Start Num: 24
Candidate Starts for Basato_99:
(Start: 24 @68145 has 269 MA's), (25, 68130), (30, 68097), (36, 68061), (41, 68001), (49, 67896), (50, 67890), (55, 67857), (56, 67845),

Gene: BatteryCK_99 Start: 67967, Stop: 67575, Start Num: 17
Candidate Starts for BatteryCK_99:
(Start: 11 @68003 has 3 MA's), (Start: 17 @67967 has 24 MA's), (Start: 24 @67910 has 269 MA's), (40, 67781), (41, 67769), (43, 67712), (50, 67658), (52, 67649), (56, 67613),

Gene: Beaglebox_97 Start: 68047, Stop: 67709, Start Num: 24
Candidate Starts for Beaglebox_97:
(4, 68221), (Start: 24 @68047 has 269 MA's), (25, 68032), (30, 67999), (36, 67963), (41, 67903), (49, 67798), (50, 67792), (55, 67759), (56, 67747),

Gene: Bishoperium_101 Start: 68494, Stop: 68156, Start Num: 24
Candidate Starts for Bishoperium_101:
(4, 68668), (Start: 24 @68494 has 269 MA's), (25, 68479), (30, 68446), (36, 68410), (41, 68350), (49, 68245), (50, 68239), (55, 68206), (56, 68194),

Gene: BlackStallion_100 Start: 68343, Stop: 68005, Start Num: 24
Candidate Starts for BlackStallion_100:
(4, 68517), (Start: 24 @68343 has 269 MA's), (25, 68328), (30, 68295), (36, 68259), (41, 68199), (49, 68094), (50, 68088), (55, 68055), (56, 68043),

Gene: BlacksBerry_102 Start: 67863, Stop: 67528, Start Num: 24
Candidate Starts for BlacksBerry_102:
(9, 67956), (Start: 11 @67953 has 3 MA's), (12, 67950), (Start: 24 @67863 has 269 MA's), (40, 67734), (41, 67722), (43, 67665), (50, 67611), (52, 67602), (56, 67566),

Gene: BlueHusk_101 Start: 67823, Stop: 67488, Start Num: 24
Candidate Starts for BlueHusk_101:

(Start: 17 @67880 has 24 MA's), (Start: 24 @67823 has 269 MA's), (40, 67694), (41, 67682), (43, 67625), (50, 67571), (52, 67562), (56, 67526),

Gene: Bluephacebaby_100 Start: 68528, Stop: 68190, Start Num: 24
Candidate Starts for Bluephacebaby_100:
(4, 68702), (Start: 24 @68528 has 269 MA's), (25, 68513), (30, 68480), (36, 68444), (41, 68384), (49, 68279), (50, 68273), (55, 68240), (56, 68228),

Gene: Boehler_98 Start: 67970, Stop: 67632, Start Num: 24
Candidate Starts for Boehler_98:
(4, 68144), (Start: 24 @67970 has 269 MA's), (25, 67955), (30, 67922), (36, 67886), (41, 67826), (49, 67721), (50, 67715), (55, 67682), (56, 67670),

Gene: BoogieWoogie_104 Start: 68309, Stop: 67971, Start Num: 24
Candidate Starts for BoogieWoogie_104:
(4, 68483), (Start: 24 @68309 has 269 MA's), (25, 68294), (30, 68261), (36, 68225), (41, 68165), (49, 68060), (50, 68054), (55, 68021), (56, 68009),

Gene: Brilliant_104 Start: 68501, Stop: 68166, Start Num: 24
Candidate Starts for Brilliant_104:
(9, 68594), (Start: 11 @68591 has 3 MA's), (12, 68588), (Start: 24 @68501 has 269 MA's), (40, 68372), (41, 68360), (43, 68303), (50, 68249), (52, 68240), (56, 68204),

Gene: Buckeye_99 Start: 68803, Stop: 68465, Start Num: 24
Candidate Starts for Buckeye_99:
(4, 68977), (Start: 24 @68803 has 269 MA's), (25, 68788), (30, 68755), (36, 68719), (41, 68659), (49, 68554), (50, 68548), (55, 68515), (56, 68503),

Gene: Burr_103 Start: 68349, Stop: 68011, Start Num: 24
Candidate Starts for Burr_103:
(4, 68523), (Start: 24 @68349 has 269 MA's), (25, 68334), (28, 68322), (30, 68301), (36, 68265), (41, 68205), (49, 68100), (50, 68094), (55, 68061), (56, 68049),

Gene: CamL_101 Start: 68279, Stop: 67941, Start Num: 24
Candidate Starts for CamL_101:
(4, 68453), (Start: 24 @68279 has 269 MA's), (25, 68264), (30, 68231), (36, 68195), (41, 68135), (49, 68030), (50, 68024), (55, 67991), (56, 67979),

Gene: CampRoach_101 Start: 68369, Stop: 68034, Start Num: 24
Candidate Starts for CampRoach_101:
(Start: 11 @68462 has 3 MA's), (Start: 17 @68426 has 24 MA's), (Start: 24 @68369 has 269 MA's), (40, 68240), (41, 68228), (43, 68171), (50, 68117), (52, 68108), (56, 68072),

Gene: Cannibal_101 Start: 68382, Stop: 68044, Start Num: 24
Candidate Starts for Cannibal_101:
(4, 68556), (Start: 24 @68382 has 269 MA's), (25, 68367), (30, 68334), (36, 68298), (41, 68238), (49, 68133), (50, 68127), (55, 68094), (56, 68082),

Gene: Carthage_101 Start: 67837, Stop: 67499, Start Num: 24
Candidate Starts for Carthage_101:
(18, 67882), (Start: 24 @67837 has 269 MA's), (25, 67822), (30, 67789), (36, 67753), (41, 67693), (49, 67588), (50, 67582), (55, 67549), (56, 67537),

Gene: Caspiboi_100 Start: 68207, Stop: 67872, Start Num: 24
Candidate Starts for Caspiboi_100:
(Start: 11 @68300 has 3 MA's), (Start: 17 @68264 has 24 MA's), (Start: 24 @68207 has 269 MA's), (40, 68078), (41, 68066), (43, 68009), (50, 67955), (52, 67946), (56, 67910),

Gene: Chaelin_101 Start: 68242, Stop: 67910, Start Num: 24
Candidate Starts for Chaelin_101:
(Start: 17 @68299 has 24 MA's), (Start: 24 @68242 has 269 MA's), (30, 68197), (36, 68161), (40, 68116), (41, 68104), (43, 68047), (50, 67993), (52, 67984), (56, 67948),

Gene: Chah_103 Start: 68079, Stop: 67741, Start Num: 24
Candidate Starts for Chah_103:
(4, 68253), (Start: 24 @68079 has 269 MA's), (25, 68064), (30, 68031), (36, 67995), (41, 67935), (49, 67830), (50, 67824), (55, 67791), (56, 67779),

Gene: Charles1_104 Start: 68657, Stop: 68319, Start Num: 24
Candidate Starts for Charles1_104:
(4, 68831), (Start: 24 @68657 has 269 MA's), (25, 68642), (30, 68609), (36, 68573), (41, 68513), (49, 68408), (50, 68402), (55, 68369), (56, 68357),

Gene: CharlieGBrown_99 Start: 68062, Stop: 67670, Start Num: 17
Candidate Starts for CharlieGBrown_99:
(Start: 11 @68098 has 3 MA's), (Start: 17 @68062 has 24 MA's), (Start: 24 @68005 has 269 MA's), (40, 67876), (41, 67864), (43, 67807), (50, 67753), (52, 67744), (56, 67708),

Gene: CheetO_97 Start: 68132, Stop: 67794, Start Num: 24
Candidate Starts for CheetO_97:
(4, 68306), (Start: 24 @68132 has 269 MA's), (25, 68117), (30, 68084), (36, 68048), (41, 67988), (49, 67883), (50, 67877), (55, 67844), (56, 67832),

Gene: Cher_101 Start: 68483, Stop: 68145, Start Num: 24
Candidate Starts for Cher_101:
(Start: 24 @68483 has 269 MA's), (25, 68468), (30, 68435), (36, 68399), (41, 68339), (49, 68234), (50, 68228), (55, 68195), (56, 68183),

Gene: Childish_101 Start: 68673, Stop: 68335, Start Num: 24
Candidate Starts for Childish_101:
(4, 68847), (Start: 24 @68673 has 269 MA's), (25, 68658), (30, 68625), (36, 68589), (41, 68529), (49, 68424), (50, 68418), (55, 68385), (56, 68373),

Gene: Chipette_100 Start: 67966, Stop: 67628, Start Num: 24
Candidate Starts for Chipette_100:
(4, 68140), (Start: 24 @67966 has 269 MA's), (25, 67951), (30, 67918), (36, 67882), (41, 67822), (49, 67717), (50, 67711), (55, 67678), (56, 67666),

Gene: Chorkpop_102 Start: 68135, Stop: 67797, Start Num: 24
Candidate Starts for Chorkpop_102:
(4, 68309), (Start: 24 @68135 has 269 MA's), (25, 68120), (30, 68087), (36, 68051), (41, 67991), (49, 67886), (50, 67880), (55, 67847), (56, 67835),

Gene: Chuni_104 Start: 68714, Stop: 68382, Start Num: 24
Candidate Starts for Chuni_104:

(Start: 17 @68771 has 24 MA's), (Start: 24 @68714 has 269 MA's), (30, 68669), (36, 68633), (40, 68588), (41, 68576), (43, 68519), (50, 68465), (52, 68456), (56, 68420),

Gene: Chunky_99 Start: 67707, Stop: 67291, Start Num: 17
Candidate Starts for Chunky_99:
(Start: 11 @67743 has 3 MA's), (Start: 17 @67707 has 24 MA's), (Start: 24 @67626 has 269 MA's), (40, 67497), (41, 67485), (43, 67428), (50, 67374), (52, 67365), (56, 67329),

Gene: Chute_101 Start: 68665, Stop: 68333, Start Num: 24
Candidate Starts for Chute_101:
(Start: 17 @68722 has 24 MA's), (Start: 24 @68665 has 269 MA's), (30, 68620), (36, 68584), (40, 68539), (41, 68527), (43, 68470), (50, 68416), (52, 68407), (56, 68371),

Gene: Cobra_101 Start: 68504, Stop: 68166, Start Num: 24
Candidate Starts for Cobra_101:
(4, 68678), (Start: 24 @68504 has 269 MA's), (25, 68489), (30, 68456), (36, 68420), (41, 68360), (49, 68255), (50, 68249), (55, 68216), (56, 68204),

Gene: Colbert_99 Start: 67403, Stop: 67065, Start Num: 24
Candidate Starts for Colbert_99:
(4, 67577), (Start: 24 @67403 has 269 MA's), (25, 67388), (30, 67355), (36, 67319), (41, 67259), (49, 67154), (50, 67148), (55, 67115), (56, 67103),

Gene: Coletti_104 Start: 69021, Stop: 68689, Start Num: 24
Candidate Starts for Coletti_104:
(Start: 17 @69078 has 24 MA's), (Start: 24 @69021 has 269 MA's), (30, 68976), (36, 68940), (40, 68895), (41, 68883), (43, 68826), (50, 68772), (52, 68763), (56, 68727),

Gene: Cornbread_101 Start: 68528, Stop: 68193, Start Num: 24
Candidate Starts for Cornbread_101:
(9, 68621), (Start: 11 @68618 has 3 MA's), (12, 68615), (Start: 24 @68528 has 269 MA's), (40, 68399), (41, 68387), (43, 68330), (50, 68276), (52, 68267), (56, 68231),

Gene: Cornobble_99 Start: 68126, Stop: 67791, Start Num: 24
Candidate Starts for Cornobble_99:
(12, 68216), (Start: 17 @68183 has 24 MA's), (Start: 24 @68126 has 269 MA's), (30, 68081), (36, 68045), (40, 68000), (41, 67988), (43, 67931), (50, 67877), (52, 67868), (56, 67832),

Gene: Cosmolli16_102 Start: 68607, Stop: 68269, Start Num: 24
Candidate Starts for Cosmolli16_102:
(4, 68781), (Start: 24 @68607 has 269 MA's), (25, 68592), (30, 68559), (36, 68523), (41, 68463), (49, 68358), (50, 68352), (55, 68319), (56, 68307),

Gene: Craff_102 Start: 68892, Stop: 68554, Start Num: 24
Candidate Starts for Craff_102:
(4, 69066), (Start: 24 @68892 has 269 MA's), (25, 68877), (30, 68844), (36, 68808), (41, 68748), (49, 68643), (50, 68637), (55, 68604), (56, 68592),

Gene: Crownjwl_98 Start: 68148, Stop: 67810, Start Num: 24
Candidate Starts for Crownjwl_98:
(Start: 24 @68148 has 269 MA's), (25, 68133), (30, 68100), (36, 68064), (41, 68004), (49, 67899), (50, 67893), (55, 67860), (56, 67848),

Gene: DaddyDaniels_104 Start: 68620, Stop: 68285, Start Num: 24
Candidate Starts for DaddyDaniels_104:
(9, 68713), (Start: 11 @68710 has 3 MA's), (12, 68707), (Start: 24 @68620 has 269 MA's), (40, 68491), (41, 68479), (43, 68422), (50, 68368), (52, 68359), (56, 68323),

Gene: Daffy_100 Start: 68120, Stop: 67782, Start Num: 24
Candidate Starts for Daffy_100:
(4, 68294), (Start: 24 @68120 has 269 MA's), (25, 68105), (30, 68072), (36, 68036), (41, 67976), (49, 67871), (50, 67865), (55, 67832), (56, 67820),

Gene: Daka_102 Start: 68077, Stop: 67742, Start Num: 24
Candidate Starts for Daka_102:
(Start: 17 @68134 has 24 MA's), (Start: 24 @68077 has 269 MA's), (40, 67948), (41, 67936), (43, 67879), (50, 67825), (52, 67816), (56, 67780),

Gene: Dati_98 Start: 68299, Stop: 67964, Start Num: 24
Candidate Starts for Dati_98:
(9, 68392), (Start: 11 @68389 has 3 MA's), (12, 68386), (Start: 24 @68299 has 269 MA's), (40, 68170), (41, 68158), (43, 68101), (50, 68047), (52, 68038), (56, 68002),

Gene: DelRivs_100 Start: 67928, Stop: 67593, Start Num: 24
Candidate Starts for DelRivs_100:
(Start: 11 @68045 has 3 MA's), (Start: 17 @68009 has 24 MA's), (Start: 24 @67928 has 269 MA's), (40, 67799), (41, 67787), (43, 67730), (50, 67676), (52, 67667), (56, 67631),

Gene: Derpp_100 Start: 68095, Stop: 67703, Start Num: 17
Candidate Starts for Derpp_100:
(Start: 11 @68131 has 3 MA's), (Start: 17 @68095 has 24 MA's), (Start: 24 @68038 has 269 MA's), (40, 67909), (41, 67897), (43, 67840), (50, 67786), (52, 67777), (56, 67741),

Gene: Dice_101 Start: 67966, Stop: 67628, Start Num: 24
Candidate Starts for Dice_101:
(4, 68140), (Start: 24 @67966 has 269 MA's), (25, 67951), (30, 67918), (36, 67882), (41, 67822), (49, 67717), (50, 67711), (55, 67678), (56, 67666),

Gene: Dingo_97 Start: 67408, Stop: 67070, Start Num: 24
Candidate Starts for Dingo_97:
(Start: 24 @67408 has 269 MA's), (25, 67393), (30, 67360), (36, 67324), (41, 67264), (49, 67159), (50, 67153), (55, 67120), (56, 67108),

Gene: Dione_99 Start: 67686, Stop: 67348, Start Num: 24
Candidate Starts for Dione_99:
(4, 67860), (Start: 24 @67686 has 269 MA's), (25, 67671), (30, 67638), (36, 67602), (41, 67542), (49, 67437), (50, 67431), (55, 67398), (56, 67386),

Gene: DirtJuice_102 Start: 68795, Stop: 68457, Start Num: 24
Candidate Starts for DirtJuice_102:
(4, 68969), (Start: 24 @68795 has 269 MA's), (25, 68780), (30, 68747), (36, 68711), (41, 68651), (49, 68546), (50, 68540), (55, 68507), (56, 68495),

Gene: Doddsville_98 Start: 68120, Stop: 67785, Start Num: 24
Candidate Starts for Doddsville_98:

(9, 68213), (Start: 11 @68210 has 3 MA's), (12, 68207), (Start: 24 @68120 has 269 MA's), (40, 67991), (41, 67979), (43, 67922), (50, 67868), (52, 67859), (56, 67823),

Gene: DoesntMatter_98 Start: 67960, Stop: 67622, Start Num: 24
Candidate Starts for DoesntMatter_98:
(4, 68134), (Start: 24 @67960 has 269 MA's), (25, 67945), (30, 67912), (36, 67876), (41, 67816), (49, 67711), (50, 67705), (55, 67672), (56, 67660),

Gene: DolOn_104 Start: 69168, Stop: 68830, Start Num: 24
Candidate Starts for DolOn_104:
(4, 69342), (Start: 24 @69168 has 269 MA's), (25, 69153), (30, 69120), (36, 69084), (41, 69024), (49, 68919), (50, 68913), (55, 68880), (56, 68868),

Gene: DonSanchon_96 Start: 67644, Stop: 67306, Start Num: 24
Candidate Starts for DonSanchon_96:
(4, 67818), (Start: 24 @67644 has 269 MA's), (25, 67629), (30, 67596), (36, 67560), (40, 67512), (41, 67500), (49, 67395), (50, 67389), (55, 67356), (56, 67344),

Gene: DuchessDung_98 Start: 67636, Stop: 67301, Start Num: 24
Candidate Starts for DuchessDung_98:
(Start: 11 @67729 has 3 MA's), (Start: 17 @67693 has 24 MA's), (Start: 24 @67636 has 269 MA's), (40, 67507), (41, 67495), (43, 67438), (50, 67384), (52, 67375), (56, 67339),

Gene: Duggie_101 Start: 68262, Stop: 67927, Start Num: 24
Candidate Starts for Duggie_101:
(Start: 11 @68379 has 3 MA's), (Start: 17 @68343 has 24 MA's), (Start: 24 @68262 has 269 MA's), (40, 68133), (41, 68121), (43, 68064), (50, 68010), (52, 68001), (56, 67965),

Gene: Durga_103 Start: 68743, Stop: 68408, Start Num: 24
Candidate Starts for Durga_103:
(9, 68836), (Start: 11 @68833 has 3 MA's), (12, 68830), (Start: 24 @68743 has 269 MA's), (40, 68614), (41, 68602), (43, 68545), (50, 68491), (52, 68482), (56, 68446),

Gene: ElvisPhasley_101 Start: 68901, Stop: 68566, Start Num: 24
Candidate Starts for ElvisPhasley_101:
(Start: 11 @68994 has 3 MA's), (Start: 17 @68958 has 24 MA's), (Start: 24 @68901 has 269 MA's), (40, 68772), (41, 68760), (43, 68703), (50, 68649), (52, 68640), (56, 68604),

Gene: EmGer13_100 Start: 67977, Stop: 67642, Start Num: 24
Candidate Starts for EmGer13_100:
(12, 68067), (Start: 17 @68034 has 24 MA's), (Start: 24 @67977 has 269 MA's), (30, 67932), (36, 67896), (40, 67851), (41, 67839), (43, 67782), (50, 67728), (52, 67719), (56, 67683),

Gene: Emiris_103 Start: 68656, Stop: 68318, Start Num: 24
Candidate Starts for Emiris_103:
(4, 68830), (Start: 24 @68656 has 269 MA's), (25, 68641), (30, 68608), (36, 68572), (41, 68512), (49, 68407), (50, 68401), (55, 68368), (56, 68356),

Gene: EmpTee_100 Start: 68057, Stop: 67719, Start Num: 24
Candidate Starts for EmpTee_100:
(4, 68231), (Start: 24 @68057 has 269 MA's), (25, 68042), (30, 68009), (36, 67973), (41, 67913), (49, 67808), (50, 67802), (55, 67769), (56, 67757),

Gene: Eremos_98 Start: 68156, Stop: 67764, Start Num: 17
Candidate Starts for Eremos_98:
(Start: 17 @68156 has 24 MA's), (Start: 24 @68099 has 269 MA's), (40, 67970), (41, 67958), (43, 67901), (50, 67847), (52, 67838), (56, 67802),

Gene: Etaye_100 Start: 68827, Stop: 68492, Start Num: 24
Candidate Starts for Etaye_100:
(9, 68920), (Start: 11 @68917 has 3 MA's), (12, 68914), (Start: 24 @68827 has 269 MA's), (40, 68698), (41, 68686), (43, 68629), (50, 68575), (52, 68566), (56, 68530),

Gene: Eugenia_103 Start: 68768, Stop: 68430, Start Num: 24
Candidate Starts for Eugenia_103:
(4, 68942), (Start: 24 @68768 has 269 MA's), (25, 68753), (30, 68720), (36, 68684), (41, 68624), (49, 68519), (50, 68513), (55, 68480), (56, 68468),

Gene: Fang_101 Start: 68198, Stop: 67860, Start Num: 24
Candidate Starts for Fang_101:
(4, 68372), (Start: 24 @68198 has 269 MA's), (25, 68183), (30, 68150), (36, 68114), (41, 68054), (49, 67949), (50, 67943), (55, 67910), (56, 67898),

Gene: Flake_100 Start: 68239, Stop: 67907, Start Num: 24
Candidate Starts for Flake_100:
(Start: 17 @68296 has 24 MA's), (Start: 24 @68239 has 269 MA's), (30, 68194), (36, 68158), (40, 68113), (41, 68101), (43, 68044), (50, 67990), (52, 67981), (56, 67945),

Gene: FleetyMac_102 Start: 68528, Stop: 68190, Start Num: 24
Candidate Starts for FleetyMac_102:
(4, 68702), (Start: 24 @68528 has 269 MA's), (25, 68513), (30, 68480), (36, 68444), (41, 68384), (49, 68279), (50, 68273), (55, 68240), (56, 68228),

Gene: FluffyNinja_102 Start: 68345, Stop: 68007, Start Num: 24
Candidate Starts for FluffyNinja_102:
(4, 68519), (Start: 24 @68345 has 269 MA's), (25, 68330), (30, 68297), (36, 68261), (41, 68201), (49, 68096), (50, 68090), (55, 68057), (56, 68045),

Gene: ForDig_91 Start: 67574, Stop: 67209, Start Num: 23
Candidate Starts for ForDig_91:
(Start: 23 @67574 has 1 MA's), (26, 67544), (27, 67538), (Start: 32 @67502 has 1 MA's), (35, 67481), (40, 67433), (41, 67421), (43, 67364), (47, 67337), (51, 67304), (53, 67280), (55, 67274), (57, 67250), (58, 67238),

Gene: Fozzie_97 Start: 68394, Stop: 68056, Start Num: 24
Candidate Starts for Fozzie_97:
(Start: 24 @68394 has 269 MA's), (25, 68379), (30, 68346), (36, 68310), (41, 68250), (49, 68145), (50, 68139), (55, 68106), (56, 68094),

Gene: Frankicide_98 Start: 67894, Stop: 67556, Start Num: 24
Candidate Starts for Frankicide_98:
(4, 68068), (Start: 24 @67894 has 269 MA's), (25, 67879), (30, 67846), (36, 67810), (41, 67750), (49, 67645), (50, 67639), (55, 67606), (56, 67594),

Gene: FremontTroll_103 Start: 68955, Stop: 68617, Start Num: 24
Candidate Starts for FremontTroll_103:

(4, 69129), (Start: 24 @68955 has 269 MA's), (25, 68940), (30, 68907), (36, 68871), (41, 68811), (49, 68706), (50, 68700), (55, 68667), (56, 68655),

Gene: Freya_97 Start: 67664, Stop: 67326, Start Num: 24
Candidate Starts for Freya_97:
(4, 67838), (Start: 24 @67664 has 269 MA's), (25, 67649), (30, 67616), (36, 67580), (41, 67520), (49, 67415), (50, 67409), (55, 67376), (56, 67364),

Gene: FriarPreacher_98 Start: 68043, Stop: 67705, Start Num: 24
Candidate Starts for FriarPreacher_98:
(4, 68217), (Start: 24 @68043 has 269 MA's), (25, 68028), (30, 67995), (36, 67959), (41, 67899), (49, 67794), (50, 67788), (55, 67755), (56, 67743),

Gene: Fringe_105 Start: 68820, Stop: 68482, Start Num: 24
Candidate Starts for Fringe_105:
(4, 68994), (Start: 24 @68820 has 269 MA's), (25, 68805), (30, 68772), (36, 68736), (41, 68676), (49, 68571), (50, 68565), (55, 68532), (56, 68520),

Gene: FugateOSU_101 Start: 69105, Stop: 68767, Start Num: 24
Candidate Starts for FugateOSU_101:
(4, 69279), (Start: 24 @69105 has 269 MA's), (25, 69090), (30, 69057), (36, 69021), (41, 68961), (49, 68856), (50, 68850), (55, 68817), (56, 68805),

Gene: Funsized_90 Start: 69980, Stop: 69603, Start Num: 19
Candidate Starts for Funsized_90:
(14, 70028), (Start: 19 @69980 has 2 MA's), (33, 69869), (37, 69845), (39, 69833), (42, 69782), (45, 69728), (47, 69716), (48, 69710),

Gene: Gareth_101 Start: 68494, Stop: 68156, Start Num: 24
Candidate Starts for Gareth_101:
(Start: 24 @68494 has 269 MA's), (25, 68479), (30, 68446), (36, 68410), (41, 68350), (49, 68245), (50, 68239), (55, 68206), (56, 68194),

Gene: GeneCoco_100 Start: 68424, Stop: 68089, Start Num: 24
Candidate Starts for GeneCoco_100:
(9, 68517), (Start: 11 @68514 has 3 MA's), (12, 68511), (Start: 24 @68424 has 269 MA's), (40, 68295), (41, 68283), (43, 68226), (50, 68172), (52, 68163), (56, 68127),

Gene: Giraffe_102 Start: 68498, Stop: 68160, Start Num: 24
Candidate Starts for Giraffe_102:
(4, 68672), (Start: 24 @68498 has 269 MA's), (25, 68483), (30, 68450), (36, 68414), (41, 68354), (49, 68249), (50, 68243), (55, 68210), (56, 68198),

Gene: Gophee_100 Start: 68485, Stop: 68147, Start Num: 24
Candidate Starts for Gophee_100:
(4, 68659), (Start: 24 @68485 has 269 MA's), (25, 68470), (30, 68437), (36, 68401), (41, 68341), (49, 68236), (50, 68230), (55, 68197), (56, 68185),

Gene: Grand2040_98 Start: 68220, Stop: 67882, Start Num: 24
Candidate Starts for Grand2040_98:
(4, 68394), (Start: 24 @68220 has 269 MA's), (25, 68205), (30, 68172), (36, 68136), (41, 68076), (49, 67971), (50, 67965), (55, 67932), (56, 67920),

Gene: GreenChile_99 Start: 67880, Stop: 67542, Start Num: 24
Candidate Starts for GreenChile_99:
(4, 68054), (Start: 24 @67880 has 269 MA's), (25, 67865), (30, 67832), (36, 67796), (41, 67736), (49, 67631), (50, 67625), (55, 67592), (56, 67580),

Gene: Gwennie1_100 Start: 68303, Stop: 67968, Start Num: 24
Candidate Starts for Gwennie1_100:
(9, 68396), (Start: 11 @68393 has 3 MA's), (12, 68390), (Start: 24 @68303 has 269 MA's), (40, 68174), (41, 68162), (43, 68105), (50, 68051), (52, 68042), (56, 68006),

Gene: Gwilliam_101 Start: 69023, Stop: 68688, Start Num: 24
Candidate Starts for Gwilliam_101:
(Start: 11 @69140 has 3 MA's), (Start: 17 @69104 has 24 MA's), (Start: 24 @69023 has 269 MA's), (40, 68894), (41, 68882), (43, 68825), (50, 68771), (52, 68762), (56, 68726),

Gene: Gyarad_0099 Start: 67633, Stop: 67295, Start Num: 24
Candidate Starts for Gyarad_0099:
(4, 67807), (Start: 24 @67633 has 269 MA's), (25, 67618), (30, 67585), (36, 67549), (41, 67489), (49, 67384), (50, 67378), (55, 67345), (56, 67333),

Gene: HSavage_98 Start: 67667, Stop: 67275, Start Num: 17
Candidate Starts for HSavage_98:
(Start: 17 @67667 has 24 MA's), (Start: 24 @67610 has 269 MA's), (40, 67481), (41, 67469), (43, 67412), (50, 67358), (52, 67349), (56, 67313),

Gene: Haimas_98 Start: 67925, Stop: 67587, Start Num: 24
Candidate Starts for Haimas_98:
(4, 68099), (Start: 24 @67925 has 269 MA's), (25, 67910), (30, 67877), (36, 67841), (41, 67781), (49, 67676), (50, 67670), (55, 67637), (56, 67625),

Gene: Haleema_100 Start: 68044, Stop: 67706, Start Num: 24
Candidate Starts for Haleema_100:
(4, 68218), (Start: 24 @68044 has 269 MA's), (25, 68029), (30, 67996), (36, 67960), (41, 67900), (49, 67795), (50, 67789), (55, 67756), (56, 67744),

Gene: Hamish_98 Start: 68213, Stop: 67875, Start Num: 24
Candidate Starts for Hamish_98:
(4, 68387), (Start: 24 @68213 has 269 MA's), (25, 68198), (30, 68165), (36, 68129), (41, 68069), (49, 67964), (50, 67958), (55, 67925), (56, 67913),

Gene: Happabalu_99 Start: 69132, Stop: 68797, Start Num: 24
Candidate Starts for Happabalu_99:
(9, 69225), (Start: 11 @69222 has 3 MA's), (12, 69219), (Start: 24 @69132 has 269 MA's), (40, 69003), (41, 68991), (43, 68934), (50, 68880), (52, 68871), (56, 68835),

Gene: Hartsy_99 Start: 68156, Stop: 67821, Start Num: 24
Candidate Starts for Hartsy_99:
(Start: 11 @68249 has 3 MA's), (Start: 17 @68213 has 24 MA's), (Start: 24 @68156 has 269 MA's), (40, 68027), (41, 68015), (43, 67958), (50, 67904), (52, 67895), (56, 67859),

Gene: Harvey_98 Start: 67821, Stop: 67483, Start Num: 24
Candidate Starts for Harvey_98:

(4, 67995), (Start: 24 @67821 has 269 MA's), (25, 67806), (30, 67773), (36, 67737), (41, 67677), (49, 67572), (50, 67566), (55, 67533), (56, 67521),

Gene: Hekos_98 Start: 67588, Stop: 67253, Start Num: 24
Candidate Starts for Hekos_98:
(Start: 11 @67705 has 3 MA's), (Start: 17 @67669 has 24 MA's), (Start: 24 @67588 has 269 MA's), (40, 67459), (41, 67447), (43, 67390), (50, 67336), (52, 67327), (56, 67291),

Gene: Held_99 Start: 67942, Stop: 67604, Start Num: 24
Candidate Starts for Held_99:
(4, 68116), (Start: 24 @67942 has 269 MA's), (25, 67927), (30, 67894), (36, 67858), (41, 67798), (49, 67693), (50, 67687), (55, 67654), (56, 67642),

Gene: HenryJackson_101 Start: 68662, Stop: 68324, Start Num: 24
Candidate Starts for HenryJackson_101:
(4, 68836), (Start: 24 @68662 has 269 MA's), (25, 68647), (30, 68614), (36, 68578), (41, 68518), (49, 68413), (50, 68407), (55, 68374), (56, 68362),

Gene: Hertubise_100 Start: 68304, Stop: 67966, Start Num: 24
Candidate Starts for Hertubise_100:
(4, 68478), (Start: 24 @68304 has 269 MA's), (25, 68289), (30, 68256), (36, 68220), (41, 68160), (49, 68055), (50, 68049), (55, 68016), (56, 68004),

Gene: Hetaeria_100 Start: 68034, Stop: 67696, Start Num: 24
Candidate Starts for Hetaeria_100:
(4, 68208), (Start: 24 @68034 has 269 MA's), (25, 68019), (30, 67986), (36, 67950), (41, 67890), (49, 67785), (50, 67779), (55, 67746), (56, 67734),

Gene: HighStump_103 Start: 68450, Stop: 68112, Start Num: 24
Candidate Starts for HighStump_103:
(4, 68624), (Start: 24 @68450 has 269 MA's), (25, 68435), (30, 68402), (36, 68366), (41, 68306), (49, 68201), (50, 68195), (55, 68162), (56, 68150),

Gene: Hocus_100 Start: 67960, Stop: 67625, Start Num: 24
Candidate Starts for Hocus_100:
(9, 68053), (Start: 11 @68050 has 3 MA's), (12, 68047), (Start: 24 @67960 has 269 MA's), (40, 67831), (41, 67819), (43, 67762), (50, 67708), (52, 67699), (56, 67663),

Gene: HogWash_101 Start: 68969, Stop: 68634, Start Num: 24
Candidate Starts for HogWash_101:
(9, 69062), (Start: 11 @69059 has 3 MA's), (12, 69056), (Start: 24 @68969 has 269 MA's), (40, 68840), (41, 68828), (43, 68771), (50, 68717), (52, 68708), (56, 68672),

Gene: Horchata_95 Start: 67795, Stop: 67460, Start Num: 24
Candidate Starts for Horchata_95:
(Start: 17 @67852 has 24 MA's), (Start: 24 @67795 has 269 MA's), (40, 67666), (41, 67654), (43, 67597), (50, 67543), (52, 67534), (56, 67498),

Gene: Hosp_089 Start: 65595, Stop: 65230, Start Num: 23
Candidate Starts for Hosp_089:
(22, 65598), (Start: 23 @65595 has 1 MA's), (27, 65559), (Start: 32 @65523 has 1 MA's), (35, 65502), (40, 65454), (41, 65442), (43, 65385), (47, 65358), (53, 65301), (55, 65295), (57, 65271), (58, 65259),

Gene: ImtiyazSitla_102 Start: 68483, Stop: 68148, Start Num: 24
Candidate Starts for ImtiyazSitla_102:
(Start: 11 @68576 has 3 MA's), (Start: 17 @68540 has 24 MA's), (Start: 24 @68483 has 269 MA's), (40, 68354), (41, 68342), (43, 68285), (50, 68231), (52, 68222), (56, 68186),

Gene: Imvubu_93 Start: 66861, Stop: 66478, Start Num: 21
Candidate Starts for Imvubu_93:
(Start: 21 @66861 has 1 MA's), (Start: 32 @66768 has 1 MA's), (34, 66750), (38, 66720), (39, 66717), (44, 66618), (45, 66606), (49, 66573),

Gene: Inchworm_102 Start: 68330, Stop: 67995, Start Num: 24
Candidate Starts for Inchworm_102:
(Start: 11 @68423 has 3 MA's), (Start: 17 @68387 has 24 MA's), (Start: 24 @68330 has 269 MA's), (40, 68201), (41, 68189), (43, 68132), (50, 68078), (52, 68069), (56, 68033),

Gene: Inverness_98 Start: 67893, Stop: 67555, Start Num: 24
Candidate Starts for Inverness_98:
(4, 68067), (Start: 24 @67893 has 269 MA's), (25, 67878), (30, 67845), (36, 67809), (41, 67749), (49, 67644), (50, 67638), (55, 67605), (56, 67593),

Gene: Iridessa_103 Start: 68055, Stop: 67720, Start Num: 24
Candidate Starts for Iridessa_103:
(9, 68148), (Start: 11 @68145 has 3 MA's), (12, 68142), (Start: 24 @68055 has 269 MA's), (40, 67926), (41, 67914), (43, 67857), (50, 67803), (52, 67794), (56, 67758),

Gene: Iridoclysis_100 Start: 68226, Stop: 67888, Start Num: 24
Candidate Starts for Iridoclysis_100:
(4, 68400), (Start: 24 @68226 has 269 MA's), (25, 68211), (30, 68178), (36, 68142), (41, 68082), (49, 67977), (50, 67971), (55, 67938), (56, 67926),

Gene: IsaacEli_103 Start: 68467, Stop: 68129, Start Num: 24
Candidate Starts for IsaacEli_103:
(4, 68641), (Start: 24 @68467 has 269 MA's), (25, 68452), (30, 68419), (36, 68383), (41, 68323), (49, 68218), (50, 68212), (55, 68179), (56, 68167),

Gene: JDog_100 Start: 68490, Stop: 68155, Start Num: 24
Candidate Starts for JDog_100:
(9, 68583), (Start: 11 @68580 has 3 MA's), (12, 68577), (Start: 24 @68490 has 269 MA's), (40, 68361), (41, 68349), (43, 68292), (50, 68238), (52, 68229), (56, 68193),

Gene: JacAttac_101 Start: 67940, Stop: 67602, Start Num: 24
Candidate Starts for JacAttac_101:
(4, 68114), (Start: 24 @67940 has 269 MA's), (25, 67925), (30, 67892), (36, 67856), (41, 67796), (49, 67691), (50, 67685), (55, 67652), (56, 67640),

Gene: JakeO_102 Start: 68218, Stop: 67883, Start Num: 24
Candidate Starts for JakeO_102:
(Start: 11 @68308 has 3 MA's), (12, 68305), (Start: 24 @68218 has 269 MA's), (40, 68089), (41, 68077), (43, 68020), (50, 67966), (52, 67957), (56, 67921),

Gene: JangoPhett_99 Start: 68302, Stop: 67964, Start Num: 24
Candidate Starts for JangoPhett_99:

(4, 68476), (Start: 24 @68302 has 269 MA's), (25, 68287), (30, 68254), (36, 68218), (41, 68158), (49, 68053), (50, 68047), (55, 68014), (56, 68002),

Gene: Jbug01_99 Start: 67927, Stop: 67511, Start Num: 17
Candidate Starts for Jbug01_99:
(Start: 11 @67963 has 3 MA's), (Start: 17 @67927 has 24 MA's), (Start: 24 @67846 has 269 MA's), (40, 67717), (41, 67705), (43, 67648), (50, 67594), (52, 67585), (56, 67549),

Gene: Jesabah_105 Start: 69065, Stop: 68727, Start Num: 24
Candidate Starts for Jesabah_105:
(4, 69239), (Start: 24 @69065 has 269 MA's), (25, 69050), (30, 69017), (36, 68981), (41, 68921), (49, 68816), (50, 68810), (55, 68777), (56, 68765),

Gene: Jillium_101 Start: 68379, Stop: 68041, Start Num: 24
Candidate Starts for Jillium_101:
(4, 68553), (Start: 24 @68379 has 269 MA's), (25, 68364), (30, 68331), (36, 68295), (41, 68235), (49, 68130), (50, 68124), (55, 68091), (56, 68079),

Gene: Jiminy_101 Start: 68154, Stop: 67819, Start Num: 24
Candidate Starts for Jiminy_101:
(Start: 11 @68271 has 3 MA's), (Start: 17 @68235 has 24 MA's), (Start: 24 @68154 has 269 MA's), (40, 68025), (41, 68013), (43, 67956), (50, 67902), (52, 67893), (56, 67857),

Gene: Jiraiya_102 Start: 68238, Stop: 67903, Start Num: 24
Candidate Starts for Jiraiya_102:
(Start: 11 @68355 has 3 MA's), (Start: 17 @68319 has 24 MA's), (Start: 24 @68238 has 269 MA's), (40, 68109), (41, 68097), (43, 68040), (50, 67986), (52, 67977), (56, 67941),

Gene: Jolie1_091 Start: 67627, Stop: 67298, Start Num: 27
Candidate Starts for Jolie1_091:
(7, 67786), (8, 67780), (22, 67666), (Start: 23 @67663 has 1 MA's), (27, 67627), (Start: 32 @67591 has 1 MA's), (35, 67570), (40, 67522), (41, 67510), (43, 67453), (47, 67426), (51, 67393), (53, 67369), (55, 67363), (57, 67339), (58, 67327),

Gene: KLucky39_98 Start: 67765, Stop: 67427, Start Num: 24
Candidate Starts for KLucky39_98:
(Start: 24 @67765 has 269 MA's), (25, 67750), (30, 67717), (36, 67681), (41, 67621), (49, 67516), (50, 67510), (55, 67477), (56, 67465),

Gene: Kahve_101 Start: 68660, Stop: 68322, Start Num: 24
Candidate Starts for Kahve_101:
(4, 68834), (Start: 24 @68660 has 269 MA's), (25, 68645), (30, 68612), (36, 68576), (41, 68516), (49, 68411), (50, 68405), (55, 68372), (56, 68360),

Gene: Kailash_99 Start: 68354, Stop: 68019, Start Num: 24
Candidate Starts for Kailash_99:
(Start: 11 @68447 has 3 MA's), (Start: 17 @68411 has 24 MA's), (Start: 24 @68354 has 269 MA's), (40, 68225), (41, 68213), (43, 68156), (50, 68102), (52, 68093), (56, 68057),

Gene: Karn_100 Start: 67966, Stop: 67631, Start Num: 24
Candidate Starts for Karn_100:
(Start: 11 @68083 has 3 MA's), (Start: 17 @68047 has 24 MA's), (Start: 24 @67966 has 269 MA's), (40, 67837), (41, 67825), (43, 67768), (50, 67714), (52, 67705), (56, 67669),

Gene: Katniss_103 Start: 68076, Stop: 67738, Start Num: 24
Candidate Starts for Katniss_103:
(4, 68250), (Start: 24 @68076 has 269 MA's), (25, 68061), (30, 68028), (36, 67992), (41, 67932), (49, 67827), (50, 67821), (55, 67788), (56, 67776),

Gene: Keitherie_104 Start: 68709, Stop: 68377, Start Num: 24
Candidate Starts for Keitherie_104:
(Start: 17 @68766 has 24 MA's), (Start: 24 @68709 has 269 MA's), (30, 68664), (36, 68628), (40, 68583), (41, 68571), (43, 68514), (50, 68460), (52, 68451), (56, 68415),

Gene: Khan1_100 Start: 68433, Stop: 68098, Start Num: 24
Candidate Starts for Khan1_100:
(9, 68526), (Start: 11 @68523 has 3 MA's), (12, 68520), (Start: 24 @68433 has 269 MA's), (40, 68304), (41, 68292), (43, 68235), (50, 68181), (52, 68172), (56, 68136),

Gene: Kikipoo_103 Start: 68467, Stop: 68129, Start Num: 24
Candidate Starts for Kikipoo_103:
(4, 68641), (Start: 24 @68467 has 269 MA's), (25, 68452), (30, 68419), (36, 68383), (41, 68323), (49, 68218), (50, 68212), (55, 68179), (56, 68167),

Gene: Kimbrough_102 Start: 68539, Stop: 68201, Start Num: 24
Candidate Starts for Kimbrough_102:
(4, 68713), (Start: 24 @68539 has 269 MA's), (25, 68524), (30, 68491), (36, 68455), (41, 68395), (49, 68290), (50, 68284), (55, 68251), (56, 68239),

Gene: KingTut_91 Start: 64456, Stop: 64118, Start Num: 24
Candidate Starts for KingTut_91:
(4, 64630), (Start: 24 @64456 has 269 MA's), (25, 64441), (30, 64408), (36, 64372), (41, 64312), (49, 64207), (50, 64201), (55, 64168), (56, 64156),

Gene: KingVeVeVe_99 Start: 67723, Stop: 67331, Start Num: 17
Candidate Starts for KingVeVeVe_99:
(Start: 17 @67723 has 24 MA's), (Start: 24 @67666 has 269 MA's), (40, 67537), (43, 67468), (50, 67414), (52, 67405), (56, 67369),

Gene: Kiwot_101 Start: 68201, Stop: 67785, Start Num: 17
Candidate Starts for Kiwot_101:
(Start: 11 @68237 has 3 MA's), (Start: 17 @68201 has 24 MA's), (Start: 24 @68120 has 269 MA's), (40, 67991), (41, 67979), (43, 67922), (50, 67868), (52, 67859), (56, 67823),

Gene: KlimbOn_100 Start: 67973, Stop: 67638, Start Num: 24
Candidate Starts for KlimbOn_100:
(Start: 11 @68090 has 3 MA's), (Start: 17 @68054 has 24 MA's), (Start: 24 @67973 has 269 MA's), (40, 67844), (41, 67832), (43, 67775), (50, 67721), (52, 67712), (56, 67676),

Gene: Kloppinator_101 Start: 68109, Stop: 67771, Start Num: 24
Candidate Starts for Kloppinator_101:
(4, 68283), (Start: 24 @68109 has 269 MA's), (25, 68094), (30, 68061), (36, 68025), (41, 67965), (49, 67860), (50, 67854), (55, 67821), (56, 67809),

Gene: Knocker_90 Start: 68842, Stop: 68459, Start Num: 20
Candidate Starts for Knocker_90:

(Start: 10 @68917 has 1 MA's), (13, 68893), (16, 68884), (Start: 20 @68842 has 1 MA's), (31, 68761), (Start: 32 @68749 has 1 MA's), (33, 68734), (34, 68731), (37, 68710), (39, 68698), (46, 68578), (49, 68554), (55, 68515),

Gene: Kwadwo_100 Start: 67963, Stop: 67625, Start Num: 24
Candidate Starts for Kwadwo_100:
(4, 68137), (Start: 24 @67963 has 269 MA's), (25, 67948), (30, 67915), (36, 67879), (41, 67819), (49, 67714), (50, 67708), (55, 67675), (56, 67663),

Gene: Kwksand96_102 Start: 68223, Stop: 67888, Start Num: 24
Candidate Starts for Kwksand96_102:
(Start: 11 @68316 has 3 MA's), (Start: 17 @68280 has 24 MA's), (Start: 24 @68223 has 269 MA's), (40, 68094), (41, 68082), (43, 68025), (50, 67971), (52, 67962), (56, 67926),

Gene: Labeouficaum_101 Start: 68095, Stop: 67703, Start Num: 17
Candidate Starts for Labeouficaum_101:
(Start: 11 @68131 has 3 MA's), (Start: 17 @68095 has 24 MA's), (Start: 24 @68038 has 269 MA's), (40, 67909), (41, 67897), (43, 67840), (50, 67786), (52, 67777), (56, 67741),

Gene: Larson_103 Start: 68299, Stop: 67967, Start Num: 24
Candidate Starts for Larson_103:
(Start: 17 @68356 has 24 MA's), (Start: 24 @68299 has 269 MA's), (30, 68254), (36, 68218), (40, 68173), (41, 68161), (43, 68104), (50, 68050), (52, 68041), (56, 68005),

Gene: LasagnaCat_102 Start: 68339, Stop: 68004, Start Num: 24
Candidate Starts for LasagnaCat_102:
(Start: 11 @68432 has 3 MA's), (Start: 17 @68396 has 24 MA's), (Start: 24 @68339 has 269 MA's), (40, 68210), (41, 68198), (43, 68141), (50, 68087), (52, 68078), (56, 68042),

Gene: Lasso_100 Start: 68205, Stop: 67867, Start Num: 24
Candidate Starts for Lasso_100:
(4, 68379), (Start: 24 @68205 has 269 MA's), (25, 68190), (30, 68157), (36, 68121), (41, 68061), (49, 67956), (50, 67950), (55, 67917), (56, 67905),

Gene: LeeLot_99 Start: 68550, Stop: 68212, Start Num: 24
Candidate Starts for LeeLot_99:
(4, 68724), (Start: 24 @68550 has 269 MA's), (25, 68535), (30, 68502), (36, 68466), (41, 68406), (49, 68301), (50, 68295), (55, 68262), (56, 68250),

Gene: Lego3393_99 Start: 68666, Stop: 68328, Start Num: 24
Candidate Starts for Lego3393_99:
(4, 68840), (Start: 24 @68666 has 269 MA's), (25, 68651), (30, 68618), (36, 68582), (41, 68522), (49, 68417), (50, 68411), (55, 68378), (56, 68366),

Gene: Legolas_102 Start: 68293, Stop: 67955, Start Num: 24
Candidate Starts for Legolas_102:
(4, 68467), (Start: 24 @68293 has 269 MA's), (25, 68278), (30, 68245), (36, 68209), (41, 68149), (49, 68044), (50, 68038), (55, 68005), (56, 67993),

Gene: Lehmann_101 Start: 68180, Stop: 67842, Start Num: 24
Candidate Starts for Lehmann_101:
(Start: 24 @68180 has 269 MA's), (25, 68165), (30, 68132), (36, 68096), (41, 68036), (49, 67931), (50, 67925), (55, 67892), (56, 67880),

Gene: LeiMonet_104 Start: 68420, Stop: 68085, Start Num: 24
Candidate Starts for LeiMonet_104:
(9, 68513), (Start: 11 @68510 has 3 MA's), (12, 68507), (Start: 24 @68420 has 269 MA's), (40, 68291), (41, 68279), (43, 68222), (50, 68168), (52, 68159), (56, 68123),

Gene: LemonSlice_101 Start: 67952, Stop: 67614, Start Num: 24
Candidate Starts for LemonSlice_101:
(4, 68126), (Start: 24 @67952 has 269 MA's), (25, 67937), (30, 67904), (36, 67868), (41, 67808), (49, 67703), (50, 67697), (55, 67664), (56, 67652),

Gene: LilMcDreamy_91 Start: 68544, Stop: 68251, Start Num: 32
Candidate Starts for LilMcDreamy_91:
(Start: 32 @68544 has 1 MA's), (35, 68523), (40, 68475), (41, 68463), (54, 68319),

Gene: Longacauda_101 Start: 68181, Stop: 67846, Start Num: 24
Candidate Starts for Longacauda_101:
(Start: 11 @68298 has 3 MA's), (Start: 17 @68262 has 24 MA's), (Start: 24 @68181 has 269 MA's), (40, 68052), (41, 68040), (43, 67983), (50, 67929), (52, 67920), (56, 67884),

Gene: Lopsy_97 Start: 67909, Stop: 67517, Start Num: 17
Candidate Starts for Lopsy_97:
(Start: 11 @67945 has 3 MA's), (Start: 17 @67909 has 24 MA's), (Start: 24 @67852 has 269 MA's), (40, 67723), (41, 67711), (43, 67654), (50, 67600), (52, 67591), (56, 67555),

Gene: LostAndPhound_100 Start: 68494, Stop: 68156, Start Num: 24
Candidate Starts for LostAndPhound_100:
(4, 68668), (Start: 24 @68494 has 269 MA's), (25, 68479), (30, 68446), (36, 68410), (41, 68350), (49, 68245), (50, 68239), (55, 68206), (56, 68194),

Gene: LuckyMarjie_98 Start: 67704, Stop: 67366, Start Num: 24
Candidate Starts for LuckyMarjie_98:
(4, 67878), (Start: 24 @67704 has 269 MA's), (25, 67689), (30, 67656), (36, 67620), (41, 67560), (49, 67455), (50, 67449), (55, 67416), (56, 67404),

Gene: Lulumae_96 Start: 67685, Stop: 67347, Start Num: 24
Candidate Starts for Lulumae_96:
(4, 67859), (Start: 24 @67685 has 269 MA's), (25, 67670), (30, 67637), (36, 67601), (41, 67541), (49, 67436), (50, 67430), (55, 67397), (56, 67385),

Gene: Lulwa_98 Start: 67318, Stop: 66980, Start Num: 24
Candidate Starts for Lulwa_98:
(4, 67492), (Start: 24 @67318 has 269 MA's), (25, 67303), (30, 67270), (36, 67234), (41, 67174), (49, 67069), (50, 67063), (55, 67030), (56, 67018),

Gene: Lumine_102 Start: 68142, Stop: 67804, Start Num: 24
Candidate Starts for Lumine_102:
(4, 68316), (Start: 24 @68142 has 269 MA's), (25, 68127), (30, 68094), (36, 68058), (41, 67998), (49, 67893), (50, 67887), (55, 67854), (56, 67842),

Gene: MRabcd_101 Start: 68420, Stop: 68082, Start Num: 24
Candidate Starts for MRabcd_101:

(4, 68594), (Start: 24 @68420 has 269 MA's), (25, 68405), (30, 68372), (36, 68336), (41, 68276), (49, 68171), (50, 68165), (55, 68132), (56, 68120),

Gene: Mag7_99 Start: 67898, Stop: 67563, Start Num: 24
Candidate Starts for Mag7_99:
(Start: 11 @67991 has 3 MA's), (Start: 17 @67955 has 24 MA's), (Start: 24 @67898 has 269 MA's), (40, 67769), (41, 67757), (43, 67700), (50, 67646), (52, 67637), (56, 67601),

Gene: Mana_98 Start: 68108, Stop: 67770, Start Num: 24
Candidate Starts for Mana_98:
(4, 68282), (Start: 24 @68108 has 269 MA's), (25, 68093), (30, 68060), (36, 68024), (41, 67964), (49, 67859), (50, 67853), (55, 67820), (56, 67808),

Gene: Manad_100 Start: 68211, Stop: 67876, Start Num: 24
Candidate Starts for Manad_100:
(12, 68301), (Start: 17 @68268 has 24 MA's), (Start: 24 @68211 has 269 MA's), (30, 68166), (36, 68130), (40, 68085), (41, 68073), (43, 68016), (50, 67962), (52, 67953), (56, 67917),

Gene: Maru_100 Start: 68313, Stop: 67975, Start Num: 24
Candidate Starts for Maru_100:
(4, 68487), (Start: 24 @68313 has 269 MA's), (25, 68298), (30, 68265), (36, 68229), (41, 68169), (49, 68064), (50, 68058), (55, 68025), (56, 68013),

Gene: Maskar_102 Start: 68483, Stop: 68148, Start Num: 24
Candidate Starts for Maskar_102:
(Start: 11 @68576 has 3 MA's), (Start: 17 @68540 has 24 MA's), (Start: 24 @68483 has 269 MA's), (40, 68354), (41, 68342), (43, 68285), (50, 68231), (52, 68222), (56, 68186),

Gene: Matalotodo_99 Start: 68952, Stop: 68614, Start Num: 24
Candidate Starts for Matalotodo_99:
(4, 69126), (Start: 24 @68952 has 269 MA's), (25, 68937), (30, 68904), (36, 68868), (41, 68808), (49, 68703), (50, 68697), (55, 68664), (56, 68652),

Gene: Mcshane_103 Start: 68387, Stop: 67995, Start Num: 17
Candidate Starts for Mcshane_103:
(Start: 11 @68423 has 3 MA's), (Start: 17 @68387 has 24 MA's), (Start: 24 @68330 has 269 MA's), (40, 68201), (41, 68189), (43, 68132), (50, 68078), (52, 68069), (56, 68033),

Gene: Mecca_101 Start: 68519, Stop: 68181, Start Num: 24
Candidate Starts for Mecca_101:
(4, 68693), (Start: 24 @68519 has 269 MA's), (25, 68504), (30, 68471), (36, 68435), (41, 68375), (49, 68270), (50, 68264), (55, 68231), (56, 68219),

Gene: Megamind20_103 Start: 68299, Stop: 67961, Start Num: 24
Candidate Starts for Megamind20_103:
(4, 68473), (Start: 24 @68299 has 269 MA's), (25, 68284), (30, 68251), (36, 68215), (41, 68155), (49, 68050), (50, 68044), (55, 68011), (56, 67999),

Gene: Megatron_102 Start: 68638, Stop: 68300, Start Num: 24
Candidate Starts for Megatron_102:
(4, 68812), (Start: 24 @68638 has 269 MA's), (25, 68623), (30, 68590), (36, 68554), (41, 68494), (49, 68389), (50, 68383), (55, 68350), (56, 68338),

Gene: Melc17_98 Start: 68582, Stop: 68247, Start Num: 24
Candidate Starts for Melc17_98:
(9, 68675), (Start: 11 @68672 has 3 MA's), (12, 68669), (Start: 24 @68582 has 269 MA's), (40, 68453), (41, 68441), (43, 68384), (50, 68330), (52, 68321), (56, 68285),

Gene: MelsMeow_99 Start: 68057, Stop: 67629, Start Num: 11
Candidate Starts for MelsMeow_99:
(Start: 11 @68057 has 3 MA's), (Start: 17 @68021 has 24 MA's), (Start: 24 @67964 has 269 MA's), (40, 67835), (41, 67823), (43, 67766), (50, 67712), (52, 67703), (56, 67667),

Gene: Mesh1_101 Start: 68403, Stop: 68065, Start Num: 24
Candidate Starts for Mesh1_101:
(4, 68577), (Start: 24 @68403 has 269 MA's), (25, 68388), (30, 68355), (36, 68319), (41, 68259), (49, 68154), (50, 68148), (55, 68115), (56, 68103),

Gene: Mesmerelda_101 Start: 68519, Stop: 68181, Start Num: 24
Candidate Starts for Mesmerelda_101:
(4, 68693), (Start: 24 @68519 has 269 MA's), (25, 68504), (30, 68471), (36, 68435), (41, 68375), (49, 68270), (50, 68264), (55, 68231), (56, 68219),

Gene: MichaelPhcott_99 Start: 67952, Stop: 67560, Start Num: 17
Candidate Starts for MichaelPhcott_99:
(Start: 11 @67988 has 3 MA's), (Start: 17 @67952 has 24 MA's), (Start: 24 @67895 has 269 MA's), (40, 67766), (41, 67754), (43, 67697), (50, 67643), (52, 67634), (56, 67598),

Gene: Mikota_95 Start: 67396, Stop: 67058, Start Num: 24
Candidate Starts for Mikota_95:
(1, 67738), (2, 67735), (3, 67732), (5, 67567), (6, 67540), (Start: 24 @67396 has 269 MA's), (25, 67381), (30, 67348), (36, 67312), (41, 67252), (49, 67147), (50, 67141), (55, 67108), (56, 67096),

Gene: MiniBoss_96 Start: 67067, Stop: 66675, Start Num: 17
Candidate Starts for MiniBoss_96:
(Start: 17 @67067 has 24 MA's), (Start: 24 @67010 has 269 MA's), (40, 66881), (41, 66869), (43, 66812), (50, 66758), (52, 66749), (56, 66713),

Gene: MitKao_101 Start: 68121, Stop: 67783, Start Num: 24
Candidate Starts for MitKao_101:
(4, 68295), (Start: 24 @68121 has 269 MA's), (25, 68106), (30, 68073), (36, 68037), (41, 67977), (49, 67872), (50, 67866), (55, 67833), (56, 67821),

Gene: Morgushi_98 Start: 67936, Stop: 67598, Start Num: 24
Candidate Starts for Morgushi_98:
(4, 68110), (Start: 24 @67936 has 269 MA's), (25, 67921), (30, 67888), (36, 67852), (41, 67792), (49, 67687), (50, 67681), (55, 67648), (56, 67636),

Gene: Morty_101 Start: 68506, Stop: 68168, Start Num: 24
Candidate Starts for Morty_101:
(4, 68680), (Start: 24 @68506 has 269 MA's), (25, 68491), (30, 68458), (36, 68422), (41, 68362), (49, 68257), (50, 68251), (55, 68218), (56, 68206),

Gene: Mosaic_98 Start: 68117, Stop: 67779, Start Num: 24
Candidate Starts for Mosaic_98:

(4, 68291), (Start: 24 @68117 has 269 MA's), (25, 68102), (30, 68069), (36, 68033), (41, 67973), (49, 67868), (50, 67862), (55, 67829), (56, 67817),

Gene: MrPhizzler_104 Start: 68410, Stop: 68075, Start Num: 24
Candidate Starts for MrPhizzler_104:
(9, 68503), (Start: 11 @68500 has 3 MA's), (12, 68497), (Start: 24 @68410 has 269 MA's), (40, 68281), (41, 68269), (43, 68212), (50, 68158), (52, 68149), (56, 68113),

Gene: Mulan_100 Start: 68150, Stop: 67812, Start Num: 24
Candidate Starts for Mulan_100:
(4, 68324), (Start: 24 @68150 has 269 MA's), (25, 68135), (30, 68102), (36, 68066), (41, 68006), (49, 67901), (50, 67895), (55, 67862), (56, 67850),

Gene: Murdoc_97 Start: 68229, Stop: 67891, Start Num: 24
Candidate Starts for Murdoc_97:
(4, 68403), (Start: 24 @68229 has 269 MA's), (25, 68214), (30, 68181), (36, 68145), (41, 68085), (49, 67980), (50, 67974), (55, 67941), (56, 67929),

Gene: Mutante_102 Start: 68123, Stop: 67785, Start Num: 24
Candidate Starts for Mutante_102:
(4, 68297), (Start: 24 @68123 has 269 MA's), (25, 68108), (30, 68075), (36, 68039), (41, 67979), (49, 67874), (50, 67868), (55, 67835), (56, 67823),

Gene: Nacho_00103 Start: 68950, Stop: 68612, Start Num: 24
Candidate Starts for Nacho_00103:
(4, 69124), (Start: 24 @68950 has 269 MA's), (25, 68935), (30, 68902), (36, 68866), (41, 68806), (49, 68701), (50, 68695), (55, 68662), (56, 68650),

Gene: Nathan_100 Start: 68365, Stop: 68030, Start Num: 24
Candidate Starts for Nathan_100:
(Start: 11 @68458 has 3 MA's), (Start: 17 @68422 has 24 MA's), (Start: 24 @68365 has 269 MA's), (40, 68236), (41, 68224), (43, 68167), (50, 68113), (52, 68104), (56, 68068),

Gene: Nehme_97 Start: 68305, Stop: 67970, Start Num: 24
Candidate Starts for Nehme_97:
(Start: 11 @68422 has 3 MA's), (Start: 17 @68386 has 24 MA's), (Start: 24 @68305 has 269 MA's), (40, 68176), (41, 68164), (43, 68107), (50, 68053), (52, 68044), (56, 68008),

Gene: Newman_96 Start: 68227, Stop: 67889, Start Num: 24
Candidate Starts for Newman_96:
(4, 68401), (Start: 24 @68227 has 269 MA's), (25, 68212), (30, 68179), (36, 68143), (41, 68083), (49, 67978), (50, 67972), (55, 67939), (56, 67927),

Gene: NiaNia_102 Start: 67997, Stop: 67659, Start Num: 24
Candidate Starts for NiaNia_102:
(4, 68171), (Start: 24 @67997 has 269 MA's), (25, 67982), (30, 67949), (36, 67913), (41, 67853), (49, 67748), (50, 67742), (55, 67709), (56, 67697),

Gene: Nicole21_102 Start: 68257, Stop: 67919, Start Num: 24
Candidate Starts for Nicole21_102:
(4, 68431), (Start: 24 @68257 has 269 MA's), (25, 68242), (30, 68209), (36, 68173), (41, 68113), (49, 68008), (50, 68002), (55, 67969), (56, 67957),

Gene: Nova1_100 Start: 68096, Stop: 67761, Start Num: 24
Candidate Starts for Nova1_100:
(Start: 11 @68213 has 3 MA's), (Start: 17 @68177 has 24 MA's), (Start: 24 @68096 has 269 MA's), (40, 67967), (41, 67955), (43, 67898), (50, 67844), (52, 67835), (56, 67799),

Gene: Numberten_101 Start: 68236, Stop: 67898, Start Num: 24
Candidate Starts for Numberten_101:
(4, 68410), (Start: 24 @68236 has 269 MA's), (25, 68221), (30, 68188), (36, 68152), (41, 68092), (49, 67987), (50, 67981), (55, 67948), (56, 67936),

Gene: Nyala_101 Start: 67972, Stop: 67634, Start Num: 24
Candidate Starts for Nyala_101:
(4, 68146), (Start: 24 @67972 has 269 MA's), (25, 67957), (30, 67924), (36, 67888), (41, 67828), (49, 67723), (50, 67717), (55, 67684), (56, 67672),

Gene: OSmaximus_101 Start: 68612, Stop: 68184, Start Num: 11
Candidate Starts for OSmaximus_101:
(Start: 11 @68612 has 3 MA's), (Start: 17 @68576 has 24 MA's), (Start: 24 @68519 has 269 MA's), (30, 68474), (36, 68438), (40, 68393), (41, 68381), (43, 68324), (50, 68270), (52, 68261), (56, 68225),

Gene: Olak_103 Start: 68558, Stop: 68166, Start Num: 17
Candidate Starts for Olak_103:
(Start: 11 @68594 has 3 MA's), (Start: 17 @68558 has 24 MA's), (Start: 24 @68501 has 269 MA's), (30, 68456), (36, 68420), (40, 68375), (41, 68363), (43, 68306), (50, 68252), (52, 68243), (56, 68207),

Gene: Oline_100 Start: 68214, Stop: 67786, Start Num: 11
Candidate Starts for Oline_100:
(Start: 11 @68214 has 3 MA's), (Start: 17 @68178 has 24 MA's), (Start: 24 @68121 has 269 MA's), (40, 67992), (41, 67980), (43, 67923), (50, 67869), (52, 67860), (56, 67824),

Gene: Olive_97 Start: 68369, Stop: 68031, Start Num: 24
Candidate Starts for Olive_97:
(4, 68543), (Start: 24 @68369 has 269 MA's), (25, 68354), (30, 68321), (36, 68285), (41, 68225), (49, 68120), (50, 68114), (55, 68081), (56, 68069),

Gene: OliverWalter_100 Start: 68421, Stop: 68083, Start Num: 24
Candidate Starts for OliverWalter_100:
(4, 68595), (Start: 24 @68421 has 269 MA's), (25, 68406), (30, 68373), (36, 68337), (41, 68277), (49, 68172), (50, 68166), (55, 68133), (56, 68121),

Gene: Omniscient_102 Start: 68826, Stop: 68488, Start Num: 24
Candidate Starts for Omniscient_102:
(4, 69000), (Start: 24 @68826 has 269 MA's), (25, 68811), (30, 68778), (36, 68742), (41, 68682), (49, 68577), (50, 68571), (55, 68538), (56, 68526),

Gene: OneBrain_102 Start: 68102, Stop: 67767, Start Num: 24
Candidate Starts for OneBrain_102:
(Start: 11 @68219 has 3 MA's), (Start: 17 @68183 has 24 MA's), (Start: 24 @68102 has 269 MA's), (40, 67973), (41, 67961), (43, 67904), (50, 67850), (52, 67841), (56, 67805),

Gene: Oosterbaan_101 Start: 68364, Stop: 68026, Start Num: 24
Candidate Starts for Oosterbaan_101:

(4, 68538), (Start: 24 @68364 has 269 MA's), (25, 68349), (30, 68316), (36, 68280), (41, 68220), (49, 68115), (50, 68109), (55, 68076), (56, 68064),

Gene: Orfeu_101 Start: 68485, Stop: 68147, Start Num: 24
Candidate Starts for Orfeu_101:
(4, 68659), (Start: 24 @68485 has 269 MA's), (25, 68470), (30, 68437), (36, 68401), (41, 68341), (49, 68236), (50, 68230), (55, 68197), (56, 68185),

Gene: Orion_99 Start: 68056, Stop: 67718, Start Num: 24
Candidate Starts for Orion_99:
(4, 68230), (Start: 24 @68056 has 269 MA's), (25, 68041), (30, 68008), (36, 67972), (41, 67912), (49, 67807), (50, 67801), (55, 67768), (56, 67756),

Gene: Orwigg_102 Start: 68261, Stop: 67923, Start Num: 24
Candidate Starts for Orwigg_102:
(Start: 24 @68261 has 269 MA's), (25, 68246), (30, 68213), (36, 68177), (41, 68117), (49, 68012), (50, 68006), (55, 67973), (56, 67961),

Gene: PG1_99 Start: 68628, Stop: 68290, Start Num: 24
Candidate Starts for PG1_99:
(4, 68802), (Start: 24 @68628 has 269 MA's), (25, 68613), (30, 68580), (36, 68544), (41, 68484), (49, 68379), (50, 68373), (55, 68340), (56, 68328),

Gene: Pacifista_103 Start: 68348, Stop: 68010, Start Num: 24
Candidate Starts for Pacifista_103:
(4, 68522), (Start: 24 @68348 has 269 MA's), (25, 68333), (30, 68300), (36, 68264), (41, 68204), (49, 68099), (50, 68093), (55, 68060), (56, 68048),

Gene: PallasAthena_102 Start: 67958, Stop: 67620, Start Num: 24
Candidate Starts for PallasAthena_102:
(4, 68132), (Start: 24 @67958 has 269 MA's), (25, 67943), (30, 67910), (36, 67874), (41, 67814), (49, 67709), (50, 67703), (55, 67670), (56, 67658),

Gene: Phamished_100 Start: 68144, Stop: 67806, Start Num: 24
Candidate Starts for Phamished_100:
(4, 68318), (Start: 24 @68144 has 269 MA's), (25, 68129), (30, 68096), (36, 68060), (41, 68000), (49, 67895), (50, 67889), (55, 67856), (56, 67844),

Gene: Phareon_98 Start: 67669, Stop: 67331, Start Num: 24
Candidate Starts for Phareon_98:
(4, 67843), (Start: 24 @67669 has 269 MA's), (25, 67654), (30, 67621), (36, 67585), (41, 67525), (49, 67420), (50, 67414), (55, 67381), (56, 67369),

Gene: PhatCats2014_100 Start: 68629, Stop: 68291, Start Num: 24
Candidate Starts for PhatCats2014_100:
(4, 68803), (Start: 24 @68629 has 269 MA's), (25, 68614), (30, 68581), (36, 68545), (41, 68485), (49, 68380), (50, 68374), (55, 68341), (56, 68329),

Gene: PhatLouie_103 Start: 68496, Stop: 68161, Start Num: 24
Candidate Starts for PhatLouie_103:
(9, 68589), (Start: 11 @68586 has 3 MA's), (12, 68583), (Start: 24 @68496 has 269 MA's), (40, 68367), (41, 68355), (43, 68298), (50, 68244), (52, 68235), (56, 68199),

Gene: PhenghisKhan_101 Start: 68185, Stop: 67793, Start Num: 17
Candidate Starts for PhenghisKhan_101:
(Start: 11 @68221 has 3 MA's), (Start: 17 @68185 has 24 MA's), (Start: 24 @68128 has 269 MA's), (40, 67999), (41, 67987), (43, 67930), (50, 67876), (52, 67867), (56, 67831),

Gene: Pherdinand_102 Start: 68348, Stop: 68010, Start Num: 24
Candidate Starts for Pherdinand_102:
(4, 68522), (Start: 24 @68348 has 269 MA's), (25, 68333), (30, 68300), (36, 68264), (41, 68204), (49, 68099), (50, 68093), (55, 68060), (56, 68048),

Gene: Phergie_101 Start: 68174, Stop: 67782, Start Num: 17
Candidate Starts for Phergie_101:
(Start: 11 @68210 has 3 MA's), (Start: 17 @68174 has 24 MA's), (Start: 24 @68117 has 269 MA's), (40, 67988), (41, 67976), (43, 67919), (50, 67865), (52, 67856), (56, 67820),

Gene: Phipps_98 Start: 67922, Stop: 67584, Start Num: 24
Candidate Starts for Phipps_98:
(4, 68096), (Start: 24 @67922 has 269 MA's), (25, 67907), (30, 67874), (36, 67838), (41, 67778), (49, 67673), (50, 67667), (55, 67634), (56, 67622),

Gene: Phleuron_98 Start: 67928, Stop: 67593, Start Num: 24
Candidate Starts for Phleuron_98:
(Start: 11 @68021 has 3 MA's), (Start: 17 @67985 has 24 MA's), (Start: 24 @67928 has 269 MA's), (40, 67799), (41, 67787), (43, 67730), (50, 67676), (52, 67667), (56, 67631),

Gene: PhrankReynolds_99 Start: 68179, Stop: 67787, Start Num: 17
Candidate Starts for PhrankReynolds_99:
(Start: 11 @68215 has 3 MA's), (Start: 17 @68179 has 24 MA's), (Start: 24 @68122 has 269 MA's), (40, 67993), (41, 67981), (43, 67924), (50, 67870), (52, 67861), (56, 67825),

Gene: PhrodoBaggins_103 Start: 68502, Stop: 68164, Start Num: 24
Candidate Starts for PhrodoBaggins_103:
(4, 68676), (Start: 24 @68502 has 269 MA's), (25, 68487), (30, 68454), (36, 68418), (41, 68358), (49, 68253), (50, 68247), (55, 68214), (56, 68202),

Gene: Phunky_98 Start: 68004, Stop: 67666, Start Num: 24
Candidate Starts for Phunky_98:
(4, 68178), (Start: 24 @68004 has 269 MA's), (25, 67989), (30, 67956), (36, 67920), (41, 67860), (49, 67755), (50, 67749), (55, 67716), (56, 67704),

Gene: Piglet_00100 Start: 68621, Stop: 68283, Start Num: 24
Candidate Starts for Piglet_00100:
(4, 68795), (Start: 24 @68621 has 269 MA's), (25, 68606), (30, 68573), (36, 68537), (41, 68477), (49, 68372), (50, 68366), (55, 68333), (56, 68321),

Gene: PinheadLarry_100 Start: 68267, Stop: 67932, Start Num: 24
Candidate Starts for PinheadLarry_100:
(9, 68360), (Start: 11 @68357 has 3 MA's), (12, 68354), (Start: 24 @68267 has 269 MA's), (40, 68138), (41, 68126), (43, 68069), (50, 68015), (52, 68006), (56, 67970),

Gene: Pinkman_100 Start: 68339, Stop: 68004, Start Num: 24
Candidate Starts for Pinkman_100:

(Start: 11 @68432 has 3 MA's), (Start: 17 @68396 has 24 MA's), (Start: 24 @68339 has 269 MA's), (40, 68210), (41, 68198), (43, 68141), (50, 68087), (52, 68078), (56, 68042),

Gene: Pipsqueak_98 Start: 67956, Stop: 67618, Start Num: 24
Candidate Starts for Pipsqueak_98:
(4, 68130), (Start: 24 @67956 has 269 MA's), (25, 67941), (30, 67908), (36, 67872), (41, 67812), (49, 67707), (50, 67701), (55, 67668), (56, 67656),

Gene: Placalicious_98 Start: 68714, Stop: 68376, Start Num: 24
Candidate Starts for Placalicious_98:
(4, 68888), (Start: 24 @68714 has 269 MA's), (25, 68699), (30, 68666), (36, 68630), (41, 68570), (49, 68465), (50, 68459), (55, 68426), (56, 68414),

Gene: Plata_99 Start: 67930, Stop: 67595, Start Num: 24
Candidate Starts for Plata_99:
(Start: 11 @68047 has 3 MA's), (Start: 17 @68011 has 24 MA's), (Start: 24 @67930 has 269 MA's), (40, 67801), (41, 67789), (43, 67732), (50, 67678), (52, 67669), (56, 67633),

Gene: Plmatters_98 Start: 67947, Stop: 67609, Start Num: 24
Candidate Starts for Plmatters_98:
(4, 68121), (Start: 24 @67947 has 269 MA's), (25, 67932), (30, 67899), (36, 67863), (41, 67803), (49, 67698), (50, 67692), (55, 67659), (56, 67647),

Gene: Podrick_99 Start: 68035, Stop: 67697, Start Num: 24
Candidate Starts for Podrick_99:
(4, 68209), (Start: 24 @68035 has 269 MA's), (25, 68020), (30, 67987), (36, 67951), (41, 67891), (49, 67786), (50, 67780), (55, 67747), (56, 67735),

Gene: Pops_98 Start: 67995, Stop: 67657, Start Num: 24
Candidate Starts for Pops_98:
(Start: 24 @67995 has 269 MA's), (25, 67980), (30, 67947), (36, 67911), (41, 67851), (49, 67746), (50, 67740), (55, 67707), (56, 67695),

Gene: Potter_95 Start: 67956, Stop: 67618, Start Num: 24
Candidate Starts for Potter_95:
(4, 68130), (Start: 24 @67956 has 269 MA's), (25, 67941), (30, 67908), (36, 67872), (41, 67812), (49, 67707), (50, 67701), (55, 67668), (56, 67656),

Gene: Prickles_101 Start: 68082, Stop: 67744, Start Num: 24
Candidate Starts for Prickles_101:
(4, 68256), (Start: 24 @68082 has 269 MA's), (25, 68067), (30, 68034), (36, 67998), (41, 67938), (49, 67833), (50, 67827), (55, 67794), (56, 67782),

Gene: ProfessorX_98 Start: 67715, Stop: 67377, Start Num: 24
Candidate Starts for ProfessorX_98:
(4, 67889), (Start: 24 @67715 has 269 MA's), (25, 67700), (30, 67667), (36, 67631), (41, 67571), (49, 67466), (50, 67460), (55, 67427), (56, 67415),

Gene: Puhltonio_96 Start: 67952, Stop: 67614, Start Num: 24
Candidate Starts for Puhltonio_96:
(4, 68126), (Start: 24 @67952 has 269 MA's), (25, 67937), (30, 67904), (36, 67868), (41, 67808), (49, 67703), (50, 67697), (55, 67664), (56, 67652),

Gene: QueenBeane_101 Start: 68279, Stop: 67941, Start Num: 24
Candidate Starts for QueenBeane_101:
(4, 68453), (Start: 24 @68279 has 269 MA's), (25, 68264), (30, 68231), (36, 68195), (41, 68135), (49, 68030), (50, 68024), (55, 67991), (56, 67979),

Gene: Quisquiliae_103 Start: 68290, Stop: 67952, Start Num: 24
Candidate Starts for Quisquiliae_103:
(4, 68464), (Start: 24 @68290 has 269 MA's), (25, 68275), (30, 68242), (36, 68206), (41, 68146), (49, 68041), (50, 68035), (55, 68002), (56, 67990),

Gene: RedMaple_99 Start: 68613, Stop: 68275, Start Num: 24
Candidate Starts for RedMaple_99:
(4, 68787), (Start: 24 @68613 has 269 MA's), (25, 68598), (30, 68565), (36, 68529), (41, 68469), (49, 68364), (50, 68358), (55, 68325), (56, 68313),

Gene: RedRaider89_99 Start: 68336, Stop: 67998, Start Num: 24
Candidate Starts for RedRaider89_99:
(Start: 24 @68336 has 269 MA's), (25, 68321), (30, 68288), (36, 68252), (41, 68192), (49, 68087), (50, 68081), (55, 68048), (56, 68036),

Gene: Ricotta_102 Start: 67969, Stop: 67634, Start Num: 24
Candidate Starts for Ricotta_102:
(Start: 11 @68086 has 3 MA's), (Start: 17 @68050 has 24 MA's), (Start: 24 @67969 has 269 MA's), (40, 67840), (41, 67828), (43, 67771), (50, 67717), (52, 67708), (56, 67672),

Gene: Riggan_102 Start: 68460, Stop: 68122, Start Num: 24
Candidate Starts for Riggan_102:
(4, 68634), (Start: 24 @68460 has 269 MA's), (25, 68445), (30, 68412), (36, 68376), (41, 68316), (49, 68211), (50, 68205), (55, 68172), (56, 68160),

Gene: Rimu_100 Start: 68433, Stop: 68098, Start Num: 24
Candidate Starts for Rimu_100:
(9, 68526), (Start: 11 @68523 has 3 MA's), (12, 68520), (Start: 24 @68433 has 269 MA's), (40, 68304), (41, 68292), (43, 68235), (50, 68181), (52, 68172), (56, 68136),

Gene: Rinkes_88 Start: 68809, Stop: 68432, Start Num: 19
Candidate Starts for Rinkes_88:
(Start: 19 @68809 has 2 MA's), (33, 68698), (37, 68674), (39, 68662), (42, 68611), (45, 68557), (48, 68539),

Gene: Riverton_99 Start: 67964, Stop: 67626, Start Num: 24
Candidate Starts for Riverton_99:
(Start: 24 @67964 has 269 MA's), (25, 67949), (30, 67916), (36, 67880), (41, 67820), (49, 67715), (50, 67709), (55, 67676), (56, 67664),

Gene: Robyn_102 Start: 68352, Stop: 68014, Start Num: 24
Candidate Starts for Robyn_102:
(18, 68397), (Start: 24 @68352 has 269 MA's), (25, 68337), (30, 68304), (36, 68268), (41, 68208), (49, 68103), (50, 68097), (55, 68064), (56, 68052),

Gene: Roliet_98 Start: 67314, Stop: 66979, Start Num: 24
Candidate Starts for Roliet_98:

(Start: 17 @67371 has 24 MA's), (Start: 24 @67314 has 269 MA's), (40, 67185), (41, 67173), (43, 67116), (50, 67062), (52, 67053), (56, 67017),

Gene: Roscoe_99 Start: 68232, Stop: 67894, Start Num: 24
Candidate Starts for Roscoe_99:
(4, 68406), (Start: 24 @68232 has 269 MA's), (25, 68217), (30, 68184), (36, 68148), (41, 68088), (49, 67983), (50, 67977), (55, 67944), (56, 67932),

Gene: Roy17_98 Start: 67685, Stop: 67347, Start Num: 24
Candidate Starts for Roy17_98:
(4, 67859), (Start: 24 @67685 has 269 MA's), (25, 67670), (30, 67637), (36, 67601), (41, 67541), (49, 67436), (50, 67430), (55, 67397), (56, 67385),

Gene: SDcharge11_99 Start: 67329, Stop: 66994, Start Num: 24
Candidate Starts for SDcharge11_99:
(Start: 17 @67386 has 24 MA's), (Start: 24 @67329 has 269 MA's), (40, 67200), (41, 67188), (43, 67131), (50, 67077), (52, 67068), (56, 67032),

Gene: Saguaro_85 Start: 66656, Stop: 66207, Start Num: 10
Candidate Starts for Saguaro_85:
(Start: 10 @66656 has 1 MA's), (15, 66626), (Start: 19 @66587 has 2 MA's), (25, 66539), (29, 66521), (Start: 32 @66497 has 1 MA's), (33, 66482), (34, 66479), (37, 66458), (39, 66446), (40, 66422), (55, 66263),

Gene: Salazzle_99 Start: 68133, Stop: 67798, Start Num: 24
Candidate Starts for Salazzle_99:
(Start: 11 @68250 has 3 MA's), (Start: 17 @68214 has 24 MA's), (Start: 24 @68133 has 269 MA's), (40, 68004), (41, 67992), (43, 67935), (50, 67881), (52, 67872), (56, 67836),

Gene: SallyH_104 Start: 68219, Stop: 67881, Start Num: 24
Candidate Starts for SallyH_104:
(4, 68393), (Start: 24 @68219 has 269 MA's), (25, 68204), (30, 68171), (36, 68135), (41, 68075), (49, 67970), (50, 67964), (55, 67931), (56, 67919),

Gene: Samaymay_101 Start: 68279, Stop: 67941, Start Num: 24
Candidate Starts for Samaymay_101:
(4, 68453), (Start: 24 @68279 has 269 MA's), (25, 68264), (30, 68231), (36, 68195), (41, 68135), (49, 68030), (50, 68024), (55, 67991), (56, 67979),

Gene: SassyCat97_99 Start: 67947, Stop: 67609, Start Num: 24
Candidate Starts for SassyCat97_99:
(4, 68121), (Start: 24 @67947 has 269 MA's), (25, 67932), (30, 67899), (36, 67863), (41, 67803), (49, 67698), (50, 67692), (55, 67659), (56, 67647),

Gene: Schadenfreude_101 Start: 67996, Stop: 67658, Start Num: 24
Candidate Starts for Schadenfreude_101:
(Start: 24 @67996 has 269 MA's), (25, 67981), (30, 67948), (36, 67912), (41, 67852), (49, 67747), (50, 67741), (55, 67708), (56, 67696),

Gene: Schueller_99 Start: 68272, Stop: 67880, Start Num: 17
Candidate Starts for Schueller_99:
(Start: 11 @68308 has 3 MA's), (Start: 17 @68272 has 24 MA's), (Start: 24 @68215 has 269 MA's), (40, 68086), (41, 68074), (43, 68017), (50, 67963), (52, 67954), (56, 67918),

Gene: Scoot17C_101 Start: 68061, Stop: 67723, Start Num: 24
Candidate Starts for Scoot17C_101:
(4, 68235), (Start: 24 @68061 has 269 MA's), (25, 68046), (30, 68013), (36, 67977), (41, 67917), (49, 67812), (50, 67806), (55, 67773), (56, 67761),

Gene: Scrick_102 Start: 68330, Stop: 67992, Start Num: 24
Candidate Starts for Scrick_102:
(4, 68504), (Start: 24 @68330 has 269 MA's), (25, 68315), (30, 68282), (36, 68246), (41, 68186), (49, 68081), (50, 68075), (55, 68042), (56, 68030),

Gene: Selr12_105 Start: 68371, Stop: 68033, Start Num: 24
Candidate Starts for Selr12_105:
(4, 68545), (Start: 24 @68371 has 269 MA's), (25, 68356), (30, 68323), (36, 68287), (41, 68227), (49, 68122), (50, 68116), (55, 68083), (56, 68071),

Gene: Septica_101 Start: 68207, Stop: 67869, Start Num: 24
Candidate Starts for Septica_101:
(Start: 24 @68207 has 269 MA's), (25, 68192), (30, 68159), (36, 68123), (41, 68063), (49, 67958), (50, 67952), (55, 67919), (56, 67907),

Gene: Serendipity_100 Start: 68433, Stop: 68095, Start Num: 24
Candidate Starts for Serendipity_100:
(4, 68607), (Start: 24 @68433 has 269 MA's), (25, 68418), (30, 68385), (36, 68349), (41, 68289), (49, 68184), (50, 68178), (55, 68145), (56, 68133),

Gene: Serpentine_00103 Start: 68513, Stop: 68175, Start Num: 24
Candidate Starts for Serpentine_00103:
(4, 68687), (Start: 24 @68513 has 269 MA's), (25, 68498), (30, 68465), (36, 68429), (41, 68369), (49, 68264), (50, 68258), (55, 68225), (56, 68213),

Gene: ShadowBud_101 Start: 68287, Stop: 67949, Start Num: 24
Candidate Starts for ShadowBud_101:
(4, 68461), (Start: 24 @68287 has 269 MA's), (25, 68272), (30, 68239), (36, 68203), (41, 68143), (49, 68038), (50, 68032), (55, 67999), (56, 67987),

Gene: Sheila_95 Start: 67507, Stop: 67172, Start Num: 24
Candidate Starts for Sheila_95:
(Start: 17 @67564 has 24 MA's), (Start: 24 @67507 has 269 MA's), (40, 67378), (41, 67366), (43, 67309), (50, 67255), (52, 67246), (56, 67210),

Gene: ShiVal_100 Start: 67984, Stop: 67646, Start Num: 24
Candidate Starts for ShiVal_100:
(4, 68158), (Start: 24 @67984 has 269 MA's), (25, 67969), (30, 67936), (36, 67900), (41, 67840), (49, 67735), (50, 67729), (55, 67696), (56, 67684),

Gene: Sigman_100 Start: 67940, Stop: 67602, Start Num: 24
Candidate Starts for Sigman_100:
(4, 68114), (Start: 24 @67940 has 269 MA's), (25, 67925), (30, 67892), (36, 67856), (41, 67796), (49, 67691), (50, 67685), (55, 67652), (56, 67640),

Gene: SilverBell_102 Start: 68394, Stop: 68056, Start Num: 24
Candidate Starts for SilverBell_102:

(4, 68568), (Start: 24 @68394 has 269 MA's), (25, 68379), (30, 68346), (36, 68310), (41, 68250), (49, 68145), (50, 68139), (55, 68106), (56, 68094),

Gene: Simielle_101 Start: 67926, Stop: 67588, Start Num: 24
Candidate Starts for Simielle_101:
(4, 68100), (Start: 24 @67926 has 269 MA's), (25, 67911), (30, 67878), (36, 67842), (41, 67782), (49, 67677), (50, 67671), (55, 67638), (56, 67626),

Gene: SirBeauregard_101 Start: 68239, Stop: 67907, Start Num: 24
Candidate Starts for SirBeauregard_101:
(Start: 17 @68296 has 24 MA's), (Start: 24 @68239 has 269 MA's), (30, 68194), (36, 68158), (40, 68113), (41, 68101), (43, 68044), (50, 67990), (52, 67981), (56, 67945),

Gene: Skippy_101 Start: 68355, Stop: 68017, Start Num: 24
Candidate Starts for Skippy_101:
(4, 68529), (Start: 24 @68355 has 269 MA's), (25, 68340), (30, 68307), (36, 68271), (41, 68211), (49, 68106), (50, 68100), (55, 68067), (56, 68055),

Gene: Slatt_103 Start: 68611, Stop: 68273, Start Num: 24
Candidate Starts for Slatt_103:
(4, 68785), (Start: 24 @68611 has 269 MA's), (25, 68596), (30, 68563), (36, 68527), (41, 68467), (49, 68362), (50, 68356), (55, 68323), (56, 68311),

Gene: Soile_102 Start: 68555, Stop: 68139, Start Num: 17
Candidate Starts for Soile_102:
(Start: 11 @68591 has 3 MA's), (Start: 17 @68555 has 24 MA's), (Start: 24 @68474 has 269 MA's), (40, 68345), (41, 68333), (43, 68276), (50, 68222), (52, 68213), (56, 68177),

Gene: Solosis_99 Start: 67945, Stop: 67610, Start Num: 24
Candidate Starts for Solosis_99:
(9, 68038), (Start: 11 @68035 has 3 MA's), (12, 68032), (Start: 24 @67945 has 269 MA's), (40, 67816), (41, 67804), (43, 67747), (50, 67693), (52, 67684), (56, 67648),

Gene: Sophia_99 Start: 67935, Stop: 67597, Start Num: 24
Candidate Starts for Sophia_99:
(4, 68109), (Start: 24 @67935 has 269 MA's), (25, 67920), (30, 67887), (36, 67851), (41, 67791), (49, 67686), (50, 67680), (55, 67647), (56, 67635),

Gene: Soto_97 Start: 67376, Stop: 67038, Start Num: 24
Candidate Starts for Soto_97:
(Start: 24 @67376 has 269 MA's), (25, 67361), (30, 67328), (36, 67292), (41, 67232), (49, 67127), (50, 67121), (55, 67088), (56, 67076),

Gene: Spartan300_100 Start: 68197, Stop: 67859, Start Num: 24
Candidate Starts for Spartan300_100:
(4, 68371), (Start: 24 @68197 has 269 MA's), (25, 68182), (30, 68149), (36, 68113), (41, 68053), (49, 67948), (50, 67942), (55, 67909), (56, 67897),

Gene: Squid_100 Start: 68225, Stop: 67887, Start Num: 24
Candidate Starts for Squid_100:
(4, 68399), (Start: 24 @68225 has 269 MA's), (25, 68210), (30, 68177), (36, 68141), (41, 68081), (49, 67976), (50, 67970), (55, 67937), (56, 67925),

Gene: Squiggle_100 Start: 67954, Stop: 67616, Start Num: 24
Candidate Starts for Squiggle_100:
(4, 68128), (Start: 24 @67954 has 269 MA's), (25, 67939), (30, 67906), (36, 67870), (41, 67810), (49, 67705), (50, 67699), (55, 67666), (56, 67654),

Gene: Struggle_101 Start: 68046, Stop: 67711, Start Num: 24
Candidate Starts for Struggle_101:
(Start: 11 @68163 has 3 MA's), (Start: 17 @68127 has 24 MA's), (Start: 24 @68046 has 269 MA's), (40, 67917), (41, 67905), (43, 67848), (50, 67794), (52, 67785), (56, 67749),

Gene: Suffolk_96 Start: 67882, Stop: 67544, Start Num: 24
Candidate Starts for Suffolk_96:
(Start: 24 @67882 has 269 MA's), (25, 67867), (30, 67834), (36, 67798), (41, 67738), (49, 67633), (50, 67627), (55, 67594), (56, 67582),

Gene: Surely_101 Start: 68517, Stop: 68179, Start Num: 24
Candidate Starts for Surely_101:
(4, 68691), (Start: 24 @68517 has 269 MA's), (25, 68502), (30, 68469), (36, 68433), (41, 68373), (49, 68268), (50, 68262), (55, 68229), (56, 68217),

Gene: Swiphy_103 Start: 68496, Stop: 68161, Start Num: 24
Candidate Starts for Swiphy_103:
(9, 68589), (Start: 11 @68586 has 3 MA's), (12, 68583), (Start: 24 @68496 has 269 MA's), (40, 68367), (41, 68355), (43, 68298), (50, 68244), (52, 68235), (56, 68199),

Gene: Swish_102 Start: 68364, Stop: 68026, Start Num: 24
Candidate Starts for Swish_102:
(4, 68538), (Start: 24 @68364 has 269 MA's), (25, 68349), (30, 68316), (36, 68280), (41, 68220), (49, 68115), (50, 68109), (55, 68076), (56, 68064),

Gene: TallGrassMM_100 Start: 68010, Stop: 67675, Start Num: 24
Candidate Starts for TallGrassMM_100:
(9, 68103), (Start: 11 @68100 has 3 MA's), (12, 68097), (Start: 24 @68010 has 269 MA's), (40, 67881), (41, 67869), (43, 67812), (50, 67758), (52, 67749), (56, 67713),

Gene: Taraxa_101 Start: 67918, Stop: 67502, Start Num: 17
Candidate Starts for Taraxa_101:
(Start: 11 @67954 has 3 MA's), (Start: 17 @67918 has 24 MA's), (Start: 24 @67837 has 269 MA's), (40, 67708), (41, 67696), (43, 67639), (50, 67585), (52, 67576), (56, 67540),

Gene: Telesworld_99 Start: 68087, Stop: 67749, Start Num: 24
Candidate Starts for Telesworld_99:
(4, 68261), (Start: 24 @68087 has 269 MA's), (25, 68072), (30, 68039), (36, 68003), (41, 67943), (49, 67838), (50, 67832), (55, 67799), (56, 67787),

Gene: Thora_99 Start: 68468, Stop: 68130, Start Num: 24
Candidate Starts for Thora_99:
(4, 68642), (Start: 24 @68468 has 269 MA's), (25, 68453), (30, 68420), (36, 68384), (41, 68324), (49, 68219), (50, 68213), (55, 68180), (56, 68168),

Gene: ThreeOh3D2_102 Start: 68621, Stop: 68283, Start Num: 24
Candidate Starts for ThreeOh3D2_102:

(4, 68795), (Start: 24 @68621 has 269 MA's), (25, 68606), (30, 68573), (36, 68537), (41, 68477), (49, 68372), (50, 68366), (55, 68333), (56, 68321),

Gene: Thunderbird_101 Start: 68203, Stop: 67868, Start Num: 24
Candidate Starts for Thunderbird_101:
(Start: 11 @68320 has 3 MA's), (Start: 17 @68284 has 24 MA's), (Start: 24 @68203 has 269 MA's), (40, 68074), (41, 68062), (43, 68005), (50, 67951), (52, 67942), (56, 67906),

Gene: Timmi_99 Start: 67984, Stop: 67646, Start Num: 24
Candidate Starts for Timmi_99:
(4, 68158), (Start: 24 @67984 has 269 MA's), (25, 67969), (30, 67936), (36, 67900), (41, 67840), (49, 67735), (50, 67729), (55, 67696), (56, 67684),

Gene: TomBombadil_101 Start: 68509, Stop: 68171, Start Num: 24
Candidate Starts for TomBombadil_101:
(4, 68683), (Start: 24 @68509 has 269 MA's), (25, 68494), (30, 68461), (36, 68425), (41, 68365), (49, 68260), (50, 68254), (55, 68221), (56, 68209),

Gene: Tomlarah_101 Start: 68817, Stop: 68479, Start Num: 24
Candidate Starts for Tomlarah_101:
(4, 68991), (Start: 24 @68817 has 269 MA's), (25, 68802), (30, 68769), (36, 68733), (41, 68673), (49, 68568), (50, 68562), (55, 68529), (56, 68517),

Gene: Toni_100 Start: 68413, Stop: 68075, Start Num: 24
Candidate Starts for Toni_100:
(4, 68587), (Start: 24 @68413 has 269 MA's), (25, 68398), (30, 68365), (36, 68329), (41, 68269), (49, 68164), (50, 68158), (55, 68125), (56, 68113),

Gene: TooFast2Furius_99 Start: 68131, Stop: 67793, Start Num: 24
Candidate Starts for TooFast2Furius_99:
(4, 68305), (Start: 24 @68131 has 269 MA's), (25, 68116), (30, 68083), (36, 68047), (41, 67987), (49, 67882), (50, 67876), (55, 67843), (56, 67831),

Gene: Tooj_98 Start: 67628, Stop: 67290, Start Num: 24
Candidate Starts for Tooj_98:
(Start: 24 @67628 has 269 MA's), (25, 67613), (30, 67580), (36, 67544), (41, 67484), (49, 67379), (50, 67373), (55, 67340), (56, 67328),

Gene: Triad_100 Start: 67485, Stop: 67147, Start Num: 24
Candidate Starts for Triad_100:
(Start: 24 @67485 has 269 MA's), (25, 67470), (30, 67437), (36, 67401), (41, 67341), (49, 67236), (50, 67230), (55, 67197), (56, 67185),

Gene: True_102 Start: 68323, Stop: 67988, Start Num: 24
Candidate Starts for True_102:
(Start: 11 @68416 has 3 MA's), (Start: 17 @68380 has 24 MA's), (Start: 24 @68323 has 269 MA's), (30, 68278), (36, 68242), (40, 68197), (41, 68185), (43, 68128), (50, 68074), (52, 68065), (56, 68029),

Gene: Trypo_101 Start: 68675, Stop: 68340, Start Num: 24
Candidate Starts for Trypo_101:
(9, 68768), (Start: 11 @68765 has 3 MA's), (12, 68762), (Start: 24 @68675 has 269 MA's), (40, 68546), (41, 68534), (43, 68477), (50, 68423), (52, 68414), (56, 68378),

Gene: TyrionL_101 Start: 68095, Stop: 67703, Start Num: 17
Candidate Starts for TyrionL_101:
(Start: 11 @68131 has 3 MA's), (Start: 17 @68095 has 24 MA's), (Start: 24 @68038 has 269 MA's), (40, 67909), (41, 67897), (43, 67840), (50, 67786), (52, 67777), (56, 67741),

Gene: UAch1_101 Start: 68034, Stop: 67696, Start Num: 24
Candidate Starts for UAch1_101:
(4, 68208), (Start: 24 @68034 has 269 MA's), (25, 68019), (30, 67986), (36, 67950), (41, 67890), (49, 67785), (50, 67779), (55, 67746), (56, 67734),

Gene: UncleHowie_97 Start: 67645, Stop: 67307, Start Num: 24
Candidate Starts for UncleHowie_97:
(4, 67819), (Start: 24 @67645 has 269 MA's), (25, 67630), (30, 67597), (36, 67561), (41, 67501), (49, 67396), (50, 67390), (55, 67357), (56, 67345),

Gene: Usavi_101 Start: 68807, Stop: 68469, Start Num: 24
Candidate Starts for Usavi_101:
(4, 68981), (Start: 24 @68807 has 269 MA's), (25, 68792), (30, 68759), (36, 68723), (41, 68663), (49, 68558), (50, 68552), (55, 68519), (56, 68507),

Gene: Vaishali24_101 Start: 68022, Stop: 67687, Start Num: 24
Candidate Starts for Vaishali24_101:
(Start: 17 @68079 has 24 MA's), (Start: 24 @68022 has 269 MA's), (25, 68010), (30, 67977), (36, 67941), (41, 67881), (49, 67776), (50, 67770), (55, 67737), (56, 67725),

Gene: Valjean_99 Start: 68189, Stop: 67851, Start Num: 24
Candidate Starts for Valjean_99:
(4, 68363), (Start: 24 @68189 has 269 MA's), (25, 68174), (30, 68141), (36, 68105), (41, 68045), (49, 67940), (50, 67934), (55, 67901), (56, 67889),

Gene: Vaticameos_98 Start: 66516, Stop: 66178, Start Num: 24
Candidate Starts for Vaticameos_98:
(4, 66690), (Start: 24 @66516 has 269 MA's), (25, 66501), (30, 66468), (36, 66432), (41, 66372), (49, 66267), (50, 66261), (55, 66228), (56, 66216),

Gene: Vectra_100 Start: 68176, Stop: 67760, Start Num: 17
Candidate Starts for Vectra_100:
(Start: 11 @68212 has 3 MA's), (Start: 17 @68176 has 24 MA's), (Start: 24 @68095 has 269 MA's), (40, 67966), (41, 67954), (43, 67897), (50, 67843), (52, 67834), (56, 67798),

Gene: Veritas_100 Start: 68119, Stop: 67784, Start Num: 24
Candidate Starts for Veritas_100:
(Start: 11 @68212 has 3 MA's), (Start: 17 @68176 has 24 MA's), (Start: 24 @68119 has 269 MA's), (40, 67990), (41, 67978), (43, 67921), (50, 67867), (52, 67858), (56, 67822),

Gene: Virapocalypse_102 Start: 68311, Stop: 67973, Start Num: 24
Candidate Starts for Virapocalypse_102:
(4, 68485), (Start: 24 @68311 has 269 MA's), (25, 68296), (30, 68263), (36, 68227), (41, 68167), (49, 68062), (50, 68056), (55, 68023), (56, 68011),

Gene: Virgeve_99 Start: 67923, Stop: 67588, Start Num: 24
Candidate Starts for Virgeve_99:

(9, 68016), (Start: 11 @68013 has 3 MA's), (12, 68010), (Start: 24 @67923 has 269 MA's), (40, 67794), (41, 67782), (43, 67725), (50, 67671), (52, 67662), (56, 67626),

Gene: Vista_100 Start: 68123, Stop: 67785, Start Num: 24
Candidate Starts for Vista_100:
(4, 68297), (Start: 24 @68123 has 269 MA's), (25, 68108), (30, 68075), (36, 68039), (41, 67979), (49, 67874), (50, 67868), (55, 67835), (56, 67823),

Gene: Vivaldi_101 Start: 68277, Stop: 67942, Start Num: 24
Candidate Starts for Vivaldi_101:
(12, 68367), (Start: 17 @68334 has 24 MA's), (Start: 24 @68277 has 269 MA's), (30, 68232), (36, 68196), (40, 68151), (41, 68139), (43, 68082), (50, 68028), (52, 68019), (56, 67983),

Gene: Vortex_99 Start: 68223, Stop: 67888, Start Num: 24
Candidate Starts for Vortex_99:
(9, 68316), (Start: 11 @68313 has 3 MA's), (12, 68310), (Start: 24 @68223 has 269 MA's), (40, 68094), (41, 68082), (43, 68025), (50, 67971), (52, 67962), (56, 67926),

Gene: Wallhey_102 Start: 68222, Stop: 67887, Start Num: 24
Candidate Starts for Wallhey_102:
(Start: 11 @68315 has 3 MA's), (Start: 17 @68279 has 24 MA's), (Start: 24 @68222 has 269 MA's), (40, 68093), (41, 68081), (43, 68024), (50, 67970), (52, 67961), (56, 67925),

Gene: Waterdiva_102 Start: 68495, Stop: 68157, Start Num: 24
Candidate Starts for Waterdiva_102:
(4, 68669), (Start: 24 @68495 has 269 MA's), (25, 68480), (30, 68447), (36, 68411), (41, 68351), (49, 68246), (50, 68240), (55, 68207), (56, 68195),

Gene: Weher20_98 Start: 68561, Stop: 68226, Start Num: 24
Candidate Starts for Weher20_98:
(9, 68654), (Start: 11 @68651 has 3 MA's), (12, 68648), (Start: 24 @68561 has 269 MA's), (40, 68432), (41, 68420), (43, 68363), (50, 68309), (52, 68300), (56, 68264),

Gene: Windsor_100 Start: 68245, Stop: 67913, Start Num: 24
Candidate Starts for Windsor_100:
(Start: 17 @68302 has 24 MA's), (Start: 24 @68245 has 269 MA's), (30, 68200), (36, 68164), (40, 68119), (41, 68107), (43, 68050), (50, 67996), (52, 67987), (56, 67951),

Gene: Xavier_100 Start: 68122, Stop: 67784, Start Num: 24
Candidate Starts for Xavier_100:
(4, 68296), (Start: 24 @68122 has 269 MA's), (25, 68107), (30, 68074), (36, 68038), (41, 67978), (49, 67873), (50, 67867), (55, 67834), (56, 67822),

Gene: Yoshand_102 Start: 68347, Stop: 68009, Start Num: 24
Candidate Starts for Yoshand_102:
(4, 68521), (Start: 24 @68347 has 269 MA's), (25, 68332), (30, 68299), (36, 68263), (41, 68203), (49, 68098), (50, 68092), (55, 68059), (56, 68047),

Gene: YouGoGlencoco_101 Start: 68237, Stop: 67899, Start Num: 24
Candidate Starts for YouGoGlencoco_101:
(4, 68411), (Start: 24 @68237 has 269 MA's), (25, 68222), (30, 68189), (36, 68153), (41, 68093), (49, 67988), (50, 67982), (55, 67949), (56, 67937),

Gene: Zaider_102 Start: 68612, Stop: 68274, Start Num: 24
Candidate Starts for Zaider_102:
(4, 68786), (Start: 24 @68612 has 269 MA's), (25, 68597), (30, 68564), (36, 68528), (41, 68468), (49, 68363), (50, 68357), (55, 68324), (56, 68312),

Gene: Zelda_101 Start: 68568, Stop: 68230, Start Num: 24
Candidate Starts for Zelda_101:
(4, 68742), (Start: 24 @68568 has 269 MA's), (25, 68553), (30, 68520), (36, 68484), (41, 68424), (49, 68319), (50, 68313), (55, 68280), (56, 68268),

Gene: Zonia_101 Start: 68729, Stop: 68337, Start Num: 17
Candidate Starts for Zonia_101:
(Start: 11 @68765 has 3 MA's), (Start: 17 @68729 has 24 MA's), (Start: 24 @68672 has 269 MA's), (40, 68543), (41, 68531), (43, 68474), (50, 68420), (52, 68411), (56, 68375),