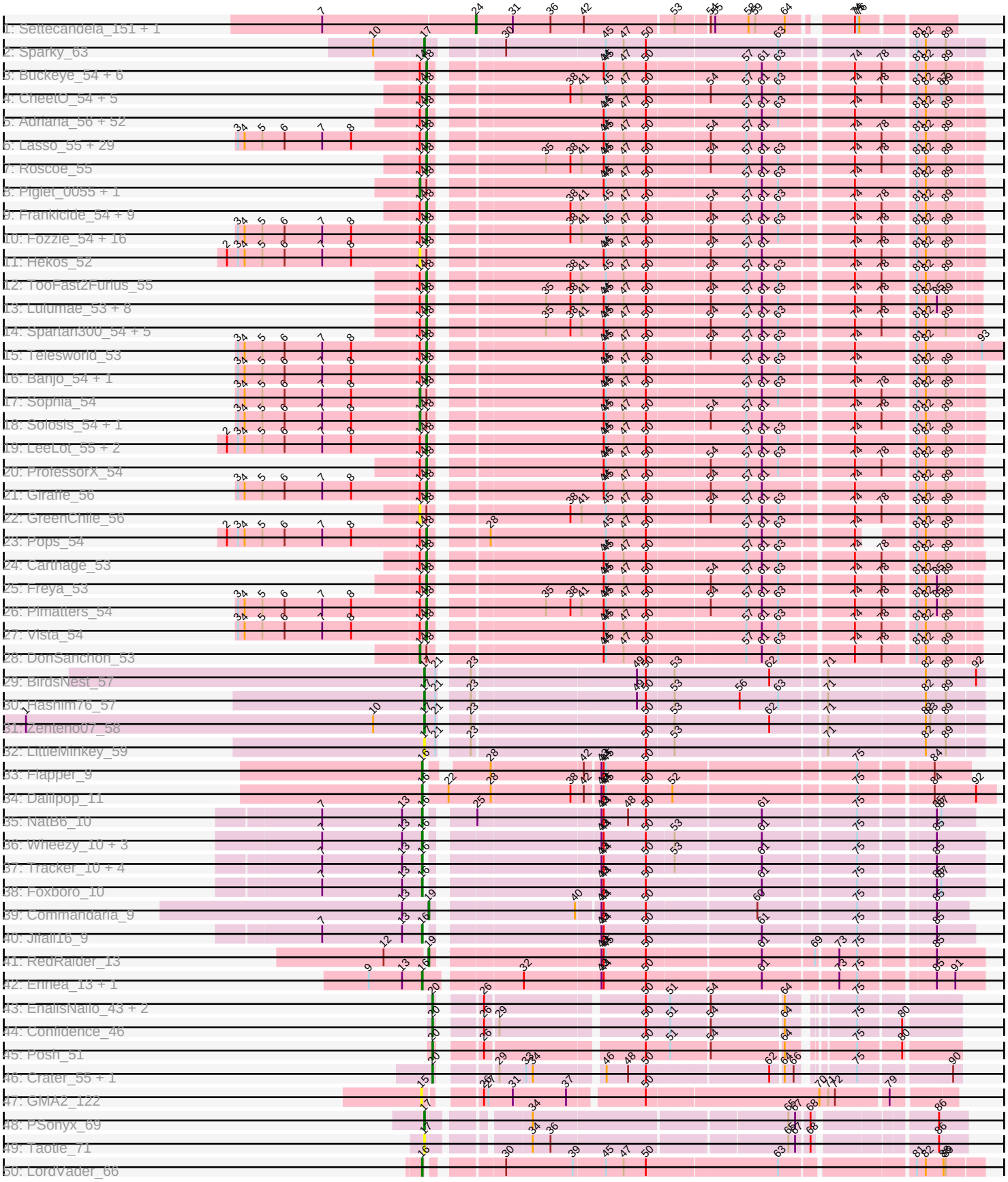
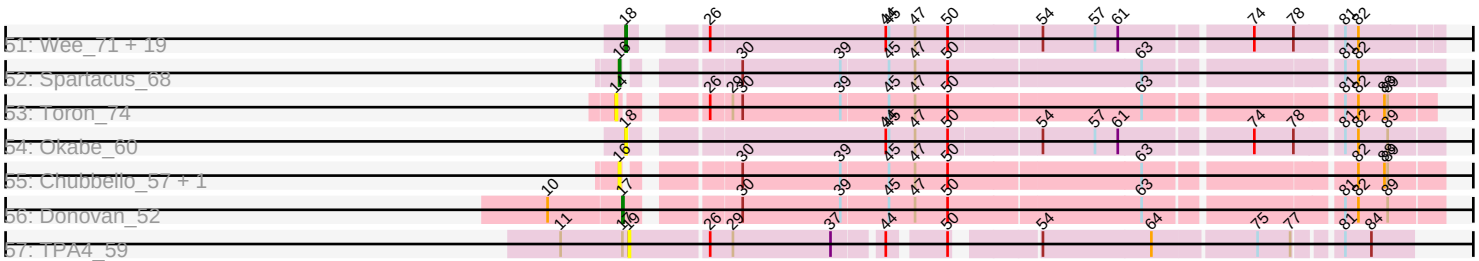
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1: Settecandela_151 + 1
2: Sparky_63
3: Buckeye_54 + 6
4: CheetO_54 + 5
5: Adriana_56 + 52
6: Lasso_55 + 29
7: Roscoe_55
8: Piglet_0055 + 1
9: Frankicide_54 + 9
10: Fozzie_54 + 16
11: Hekos_52
12: TooFast2Furius_55
13: Lulumae_53 + 8
14: Spartan300_54 + 5
15: Telesworld_53
16: Banjo_54 + 1
17: Sophia_54
18: Solosis_54 + 1
19: LeeLot_55 + 2
20: ProfessorX_54
21: Giraffe_56
22: GreenChile_56
23: Pops_54
24: Carthage_53
25: Freya_53
26: Pimatters_54
27: Vista_54
28: DonSanchon_53
29: BirdsNest_57
30: Hashim76_57
31: Izenteno07_58
32: LittleMinkey_59
33: Flapper_9
34: Dallpop_11
35: NatB6_10
36: Wheezy_10 + 3
37: Tracker_10 + 4
38: Foxboro_10
39: Commandaria_9
40: Jfall16_9
41: RedRaider_13
42: Ennea_13 + 1
43: EnalisNallo_43 + 2
44: Confidence_46
45: Posh_51
46: Crater_55 + 1
47: GMA2_122
48: PSonyx_69
49: Taotie_71
50: LordVader_66

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51: Wee_71 + 19
52: Spartacus_68
53: Toron_74
54: Okabe_60
55: Chubbello_57 + 1
56: Donovan_52
57: TPA4_59

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 347243 Report

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

Pham number 347243 has 224 members, 21 are drafts.

Phages represented in each track:
• Track 1 : Settecandela_151, Phrappuccino_151
• Track 2 : Sparky_63
• Track 3 : Buckeye_54, SilverBell_54, Murdoc_54, PinheadLarry_56, UncleHowie_54, Matalotodo_54, Pipsqueak_54
• Track 4 : CheetO_54, Schadenfreude_54, KlimbOn_54, Crownjwl_55, AbsoluteMadLad_54, Riverton_54
• Track 5 : Adriana_56, Thora_55, Morty_56, Samaymay_55, CamL_55, ABU_56, Serpentine_0055, Soile_56, Hamish_54, Chaelin_56, Mulan_55, Cher_55, Nacho_0056, Bluephacebaby_55, Bishoperium_55, ThreeOh3D2_56, Brilliant_57, Windsor_55, Mecca_55, Megatron_56, Kahve_55, QueenBeane_55, Usavi_55, Weher20_55, Omniscient_56, Dati_55, Eugenia_55, Jesabah_56, DolOn_59, HogWash_55, IsaacEli_56, Vaticameos_52, PhatCats2014_56, Happabalu_55, Lego3393_54, Placalicious_55, Kimbrough_56, Badfish_56, HenryJackson_55, FugateOSU_55, Gareth_55, Oosterbaan_55, Jillium_55, Gwilliam_56, PG1_56, Hertubise_55, Etaye_55, Haimas_54, Waterdiva_55, Melc17_55, KingTut_47, Kikipoo_56, Tomlarah_56
• Track 6 : Lasso_55, Squid_55, Daffy_55, Haleema_54, MrPhizzler_57, DaddyDaniels_57, Held_55, Mosaic_54, Grand2040_55, MRabcd_54, Potter_54, SassyCat97_54, Vortex_55, Mana_54, MitKao_55, Timmi_54, Chorkpop_55, Serendipity_55, Childish_55, Puhltonio_55, Cosmolli16_56, TomBombadil_55, Craff_58, TallGrassMM_55, Maru_55, Khan1_55, Morgushi_55, Surely_55, Cannibal_55, Kwadwo_54
• Track 7 : Roscoe_55
• Track 8 : Piglet_0055, SirBeauregard_56
• Track 9 : Frankicide_54, Eremos_54, Basato_55, Horchata_54, RedRaider89_55, Aelin_54, HSavage_54, OneBrain_56, Azuria_53, OliverWalter_54
• Track 10 : Fozzie_54, Harvey_54, Inverness_54, ElvisPhasley_56, Lehmann_55, EmGer13_55, Mesh1_56, UAch1_54, Vaishali24_53, Antonia_54, OSmaximus_56, Manad_54, Hetaeria_54, Cornobble_54, Newman_54, Triad_55, Robyn_54
• Track 11 : Hekos_52
• Track 12 : TooFast2Furius_55
• Track 13 : Lulumae_53, Altwerkus_53, Phunky_54, DoesntMatter_53, Roy17_54, LuckyMarjie_53, Dione_53, Phareon_54, Numberten_54
• Track 14 : Spartan300_54, Valjean_54, Boehler_54, Zaider_55, Olive_54, EmpTee_54
• Track 15 : Telesworld_53
• Track 16 : Banjo_54, FremontTroll_55

• Track 17 : Sophia_54
• Track 18 : Solosis_54, Xavier_54
• Track 19 : LeeLot_55, JDog_54, Zelda_55
• Track 20 : ProfessorX_54
• Track 21 : Giraffe_56
• Track 22 : GreenChile_56
• Track 23 : Pops_54
• Track 24 : Carthage_53
• Track 25 : Freya_53
• Track 26 : Plmatters_54
• Track 27 : Vista_54
• Track 28 : DonSanchon_53
• Track 29 : BirdsNest_57
• Track 30 : Hashim76_57
• Track 31 : Zenteno07_58
• Track 32 : LittleMinkey_59
• Track 33 : Flapper_9
• Track 34 : Dalilpop_11
• Track 35 : NatB6_10
• Track 36 : Wheezy_10, Arti_10, GrootJr_12, NovumRegina_10
• Track 37 : Tracker_10, Phomeo_9, Emianna_10, Kurt_10, KidneyBean_10
• Track 38 : Foxboro_10
• Track 39 : Commandaria_9
• Track 40 : Jifall16_9
• Track 41 : RedRaider_13
• Track 42 : Ennea_13, Lollipop1437_12
• Track 43 : EnalisNailo_43, Bradissa_44, Lilas_46
• Track 44 : Confidence_46
• Track 45 : Posh_51
• Track 46 : Crater_55, Apricot_55
• Track 47 : GMA2_122
• Track 48 : PSonyx_69
• Track 49 : Taotie_71
• Track 50 : LordVader_66
• Track 51 : Wee_71, WillSterrel_67, SilverChicken_76, Ogopogo_73, TDanisky_73, UncleRicky_65, Doomphist_66, Poenanya_66, Enby_67, Llij_62, Lorde_66, Sparkdehlily_73, Tootsieroll_66, DirtMcgirt_65, Phatniss_64, Drago_63, Fruitloop_61, IrishSherpFalk_67, Oksu_73, Taj_71
• Track 52 : Spartacus_68
• Track 53 : Toron_74
• Track 54 : Okabe_60
• Track 55 : Chubbello_57, BronnyJr_56
• Track 56 : Donovan_52
• Track 57 : TPA4_59

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

The start number called the most often in the published annotations is 18, it was called in 163 of the 203 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• ABU_56, AbsoluteMadLad_54, Adriana_56, Aelin_54, Altwerkus_53, Antonia_54, Azuria_53, Badfish_56, Banjo_54, Basato_55, Bishoperium_55, Bluephacebaby_55, Boehler_54, Brilliant_57, Buckeye_54, CamL_55, Cannibal_55, Carthage_53, Chaelin_56, CheetO_54, Cher_55, Childish_55, Chorkpop_55, Cornobble_54, Cosmolli16_56, Craff_58, Crownjwl_55, DaddyDaniels_57, Daffy_55, Dati_55, Dione_53, DirtMcgirt_65, DoesntMatter_53, DolOn_59, Doomphist_66, Drago_63, ElvisPhasley_56, EmGer13_55, EmpTee_54, Enby_67, Eremos_54, Etaye_55, Eugenia_55, Fozzie_54, Frankicide_54, FremontTroll_55, Freya_53, Fruitloop_61, FugateOSU_55, Gareth_55, Giraffe_56, Grand2040_55, Gwilliam_56, HSavage_54, Haimas_54, Haleema_54, Hamish_54, Happabalu_55, Harvey_54, Held_55, HenryJackson_55, Hertubise_55, Hetaeria_54, HogWash_55, Horchata_54, Inverness_54, IrishSherpFalk_67, IsaacEli_56, JDog_54, Jesabah_56, Jillium_55, Kahve_55, Khan1_55, Kikipoo_56, Kimbrough_56, KingTut_47, KlimbOn_54, Kwadwo_54, Lasso_55, LeeLot_55, Lego3393_54, Lehmann_55, Llij_62, Lorde_66, LuckyMarjie_53, Lulumae_53, MRabcd_54, Mana_54, Manad_54, Maru_55, Matalotodo_54, Mecca_55, Megatron_56, Melc17_55, Mesh1_56, MitKao_55, Morgushi_55, Morty_56, Mosaic_54, MrPhizzler_57, Mulan_55, Murdoc_54, Nacho_0056, Newman_54, Numberten_54, OSmaximus_56, Ogopogo_73, Okabe_60, Oksu_73, Olive_54, OliverWalter_54, Omniscient_56, OneBrain_56, Oosterbaan_55, PG1_56, Phareon_54, PhatCats2014_56, Phatniss_64, Phunky_54, PinheadLarry_56, Pipsqueak_54, Placalicious_55, Plmatters_54, Poenanya_66, Pops_54, Potter_54, ProfessorX_54, Puhltonio_55, QueenBeane_55, RedRaider89_55, Riverton_54, Robyn_54, Roscoe_55, Roy17_54, Samaymay_55, SassyCat97_54, Schadenfreude_54, Serendipity_55, Serpentine_0055, SilverBell_54, SilverChicken_76, Soile_56, Sparkdehlily_73, Spartan300_54, Squid_55, Surely_55, TDanisky_73, Taj_71, TallGrassMM_55, Telesworld_53, Thora_55, ThreeOh3D2_56, Timmi_54, TomBombadil_55, Tomlarah_56, TooFast2Furius_55, Tootsieroll_66, Triad_55, UAch1_54, UncleHowie_54, UncleRicky_65, Usavi_55, Vaishali24_53, Valjean_54, Vaticameos_52, Vista_54, Vortex_55, Waterdiva_55, Wee_71, Weher20_55, WillSterrel_67, Windsor_55, Zaider_55, Zelda_55,

Genes that have the "Most Annotated" start but do not call it:
• DonSanchon_53, GreenChile_56, Hekos_52, Piglet_0055, SirBeauregard_56, Solosis_54, Sophia_54, Xavier_54,

Genes that do not have the "Most Annotated" start:
• Apricot_55, Arti_10, BirdsNest_57, Bradissa_44, BronnyJr_56, Chubbello_57, Commandaria_9, Confidence_46, Crater_55, Dalilpop_11, Donovan_52, Emianna_10, EnalisNailo_43, Ennea_13, Flapper_9, Foxboro_10, GMA2_122, GrootJr_12, Hashim76_57, Jifall16_9, KidneyBean_10, Kurt_10, Lilas_46, LittleMinkey_59, Lollipop1437_12, LordVader_66, NatB6_10, NovumRegina_10, PSonyx_69, Phomeo_9, Phrappuccino_151, Posh_51, RedRaider_13, Settecandela_151, Sparky_63, Spartacus_68, TPA4_59, Taotie_71, Toron_74, Tracker_10, Wheezy_10, Zenteno07_58,

Summary by start number:

Start 14:
• Found in 162 of 224 (72.3%) of genes in pham
• Manual Annotations of this start: 5 of 203
• Called 5.6% of time when present

• Phage (with cluster) where this start called: DonSanchon_53 (B1), GreenChile_56 (B1), Hekos_52 (B1), Piglet_0055 (B1), SirBeauregard_56 (B1), Solosis_54 (B1), Sophia_54 (B1), Toron_74 (F6), Xavier_54 (B1),

Start 15:
• Found in 1 of 224 (0.4%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: GMA2_122 (DS),

Start 16:
• Found in 20 of 224 (8.9%) of genes in pham
• Manual Annotations of this start: 18 of 203
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Arti_10 (CR2), BronnyJr_56 (P1), Chubbello_57 (P1), Dalilpop_11 (CR1), Emianna_10 (CR2), Ennea_13 (CR3), Flapper_9 (CR1), Foxboro_10 (CR2), GrootJr_12 (CR2), Jifall16_9 (CR2), KidneyBean_10 (CR2), Kurt_10 (CR2), Lollipop1437_12 (CR3), LordVader_66 (F), NatB6_10 (CR2), NovumRegina_10 (CR2), Phomeo_9 (CR2), Spartacus_68 (F1), Tracker_10 (CR2), Wheezy_10 (CR2),

Start 17:
• Found in 9 of 224 (4.0%) of genes in pham
• Manual Annotations of this start: 6 of 203
• Called 88.9% of time when present
• Phage (with cluster) where this start called: BirdsNest_57 (B13), Donovan_52 (P1), Hashim76_57 (B13), LittleMinkey_59 (B13), PSonyx_69 (EQ), Sparky_63 (AF), Taotie_71 (EQ), Zenteno07_58 (B13),

Start 18:
• Found in 182 of 224 (81.2%) of genes in pham
• Manual Annotations of this start: 163 of 203
• Called 95.6% of time when present
• Phage (with cluster) where this start called: ABU_56 (B1), AbsoluteMadLad_54 (B1), Adriana_56 (B1), Aelin_54 (B1), Altwerkus_53 (B1), Antonia_54 (B1), Azuria_53 (B1), Badfish_56 (B1), Banjo_54 (B1), Basato_55 (B1), Bishoperium_55 (B1), Bluephacebaby_55 (B1), Boehler_54 (B1), Brilliant_57 (B1), Buckeye_54 (B1), CamL_55 (B1), Cannibal_55 (B1), Carthage_53 (B1), Chaelin_56 (B1), CheetO_54 (B1), Cher_55 (B1), Childish_55 (B1), Chorkpop_55 (B1), Cornobble_54 (B1), Cosmolli16_56 (B1), Craff_58 (B1), Crownjwl_55 (B1), DaddyDaniels_57 (B1), Daffy_55 (B1), Dati_55 (B1), Dione_53 (B1), DirtMcgirt_65 (F1), DoesntMatter_53 (B1), DolOn_59 (B1), Doomphist_66 (F1), Drago_63 (F1), ElvisPhasley_56 (B1), EmGer13_55 (B1), EmpTee_54 (B1), Enby_67 (F1), Eremos_54 (B1), Etaye_55 (B1), Eugenia_55 (B1), Fozzie_54 (B1), Frankicide_54 (B1), FremontTroll_55 (B1), Freya_53 (B1), Fruitloop_61 (F1), FugateOSU_55 (B1), Gareth_55 (B1), Giraffe_56 (B1), Grand2040_55 (B1), Gwilliam_56 (B1), HSavage_54 (B1), Haimas_54 (B1), Haleema_54 (B1), Hamish_54 (B1), Happabalu_55 (B1), Harvey_54 (B1), Held_55 (B1), HenryJackson_55 (B1), Hertubise_55 (B1), Hetaeria_54 (B1), HogWash_55 (B1), Horchata_54 (B1), Inverness_54 (B1), IrishSherpFalk_67 (F1), IsaacEli_56 (B1), JDog_54 (B1), Jesabah_56 (B1), Jillium_55 (B1), Kahve_55 (B1), Khan1_55 (B1), Kikipoo_56 (B1), Kimbrough_56 (B1), KingTut_47 (B1), KlimbOn_54 (B1), Kwadwo_54 (B1), Lasso_55 (B1), LeeLot_55 (B1), Lego3393_54 (B1), Lehmann_55 (B1), Llij_62 (F1), Lorde_66 (F1), LuckyMarjie_53 (B1), Lulumae_53 (B1),

MRabcd_54 (B1), Mana_54 (B1), Manad_54 (B1), Maru_55 (B1), Matalotodo_54 (B1), Mecca_55 (B1), Megatron_56 (B1), Melc17_55 (B1), Mesh1_56 (B1), MitKao_55 (B1), Morgushi_55 (B1), Morty_56 (B1), Mosaic_54 (B1), MrPhizzler_57 (B1), Mulan_55 (B1), Murdoc_54 (B1), Nacho_0056 (B1), Newman_54 (B1), Numberten_54 (B1), OSmaximus_56 (B1), Ogopogo_73 (F1), Okabe_60 (F8), Oksu_73 (F1), Olive_54 (B1), OliverWalter_54 (B1), Omniscient_56 (B1), OneBrain_56 (B1), Oosterbaan_55 (B1), PG1_56 (B1), Phareon_54 (B1), PhatCats2014_56 (B1), Phatniss_64 (F1), Phunky_54 (B1), PinheadLarry_56 (B1), Pipsqueak_54 (B1), Placalicious_55 (B1), Plmatters_54 (B1), Poenanya_66 (F1), Pops_54 (B1), Potter_54 (B1), ProfessorX_54 (B1), Puhltonio_55 (B1), QueenBeane_55 (B1), RedRaider89_55 (B1), Riverton_54 (B1), Robyn_54 (B1), Roscoe_55 (B1), Roy17_54 (B1), Samaymay_55 (B1), SassyCat97_54 (B1), Schadenfreude_54 (B1), Serendipity_55 (B1), Serpentine_0055 (B1), SilverBell_54 (B1), SilverChicken_76 (F2), Soile_56 (B1), Sparkdehlily_73 (F1), Spartan300_54 (B1), Squid_55 (B1), Surely_55 (B1), TDanisky_73 (F1), Taj_71 (F1), TallGrassMM_55 (B1), Telesworld_53 (B1), Thora_55 (B1), ThreeOh3D2_56 (B1), Timmi_54 (B1), TomBombadil_55 (B1), Tomlarah_56 (B1), TooFast2Furius_55 (B1), Tootsieroll_66 (F1), Triad_55 (B1), UAch1_54 (B1), UncleHowie_54 (B1), UncleRicky_65 (F1), Usavi_55 (B1), Vaishali24_53 (B1), Valjean_54 (B1), Vaticameos_52 (B1), Vista_54 (B1), Vortex_55 (B1), Waterdiva_55 (B1), Wee_71 (F1), Weher20_55 (B1), WillSterrel_67 (F1), Windsor_55 (B1), Zaider_55 (B1), Zelda_55 (B1),

Start 19:
• Found in 3 of 224 (1.3%) of genes in pham
• Manual Annotations of this start: 2 of 203
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Commandaria_9 (CR2), RedRaider_13 (CR3), TPA4_59 (singleton),

Start 20:
• Found in 7 of 224 (3.1%) of genes in pham
• Manual Annotations of this start: 7 of 203
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Apricot_55 (DN3), Bradissa_44 (CY1), Confidence_46 (CY1), Crater_55 (DN3), EnalisNailo_43 (CY1), Lilas_46 (CY1), Posh_51 (CY4),

Start 24:
• Found in 2 of 224 (0.9%) of genes in pham
• Manual Annotations of this start: 2 of 203
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Phrappuccino_151 (AA), Settecandela_151 (AA),

Summary by clusters:

There are 19 clusters represented in this pham: CR2, F1, F2, CR1, AA, DN3, F6, AF, F8, F, CR3, CY1, P1, B1, CY4, singleton, EQ, DS, B13,

Info for manual annotations of cluster AA:
•Start number 24 was manually annotated 2 times for cluster AA.

Info for manual annotations of cluster AF:
•Start number 17 was manually annotated 1 time for cluster AF.

Info for manual annotations of cluster B1:
•Start number 14 was manually annotated 5 times for cluster B1.
•Start number 18 was manually annotated 144 times for cluster B1.

Info for manual annotations of cluster B13:
•Start number 17 was manually annotated 3 times for cluster B13.

Info for manual annotations of cluster CR1:
•Start number 16 was manually annotated 2 times for cluster CR1.

Info for manual annotations of cluster CR2:
•Start number 16 was manually annotated 12 times for cluster CR2.
•Start number 19 was manually annotated 1 time for cluster CR2.

Info for manual annotations of cluster CR3:
•Start number 16 was manually annotated 2 times for cluster CR3.
•Start number 19 was manually annotated 1 time for cluster CR3.

Info for manual annotations of cluster CY1:
•Start number 20 was manually annotated 4 times for cluster CY1.

Info for manual annotations of cluster CY4:
•Start number 20 was manually annotated 1 time for cluster CY4.

Info for manual annotations of cluster DN3:
•Start number 20 was manually annotated 2 times for cluster DN3.

Info for manual annotations of cluster EQ:
•Start number 17 was manually annotated 1 time for cluster EQ.

Info for manual annotations of cluster F:
•Start number 16 was manually annotated 1 time for cluster F.

Info for manual annotations of cluster F1:
•Start number 16 was manually annotated 1 time for cluster F1.
•Start number 18 was manually annotated 19 times for cluster F1.

Info for manual annotations of cluster P1:
•Start number 17 was manually annotated 1 time for cluster P1.

Gene Information:

Gene: ABU_56 Start: 48493, Stop: 47813, Start Num: 18
Candidate Starts for ABU_56:

(Start: 14 @48502 has 5 MA's), (Start: 18 @48493 has 163 MA's), (44, 48286), (45, 48283), (47, 48259), (50, 48229), (57, 48103), (61, 48082), (63, 48061), (74, 47971), (81, 47896), (82, 47884), (89, 47857),

Gene: AbsoluteMadLad_54 Start: 48205, Stop: 47528, Start Num: 18
Candidate Starts for AbsoluteMadLad_54:
(Start: 14 @48214 has 5 MA's), (Start: 18 @48205 has 163 MA's), (38, 48043), (41, 48028), (45, 47995), (47, 47971), (50, 47941), (54, 47863), (57, 47815), (61, 47794), (63, 47773), (74, 47683), (78, 47647), (81, 47608), (82, 47596), (87, 47575), (89, 47569),

Gene: Adriana_56 Start: 48490, Stop: 47810, Start Num: 18
Candidate Starts for Adriana_56:
(Start: 14 @48499 has 5 MA's), (Start: 18 @48490 has 163 MA's), (44, 48283), (45, 48280), (47, 48256), (50, 48226), (57, 48100), (61, 48079), (63, 48058), (74, 47968), (81, 47893), (82, 47881), (89, 47854),

Gene: Aelin_54 Start: 47769, Stop: 47092, Start Num: 18
Candidate Starts for Aelin_54:
(Start: 14 @47778 has 5 MA's), (Start: 18 @47769 has 163 MA's), (38, 47607), (41, 47592), (45, 47559), (47, 47535), (50, 47505), (54, 47427), (57, 47379), (61, 47358), (63, 47337), (74, 47247), (78, 47211), (81, 47172), (82, 47160), (89, 47133),

Gene: Altwerkus_53 Start: 47657, Stop: 46980, Start Num: 18
Candidate Starts for Altwerkus_53:
(Start: 14 @47666 has 5 MA's), (Start: 18 @47657 has 163 MA's), (35, 47528), (38, 47495), (41, 47480), (44, 47450), (45, 47447), (47, 47423), (50, 47393), (54, 47315), (57, 47267), (61, 47246), (63, 47225), (74, 47135), (78, 47099), (81, 47060), (82, 47048), (85, 47033), (89, 47021),

Gene: Antonia_54 Start: 47769, Stop: 47092, Start Num: 18
Candidate Starts for Antonia_54:
(3, 48021), (4, 48012), (5, 47988), (6, 47958), (7, 47907), (8, 47868), (Start: 14 @47778 has 5 MA's), (Start: 18 @47769 has 163 MA's), (38, 47607), (41, 47592), (45, 47559), (47, 47535), (50, 47505), (54, 47427), (57, 47379), (61, 47358), (63, 47337), (74, 47247), (78, 47211), (81, 47172), (82, 47160), (89, 47133),

Gene: Apricot_55 Start: 35565, Stop: 36167, Start Num: 20
Candidate Starts for Apricot_55:
(Start: 20 @35565 has 7 MA's), (29, 35622), (33, 35658), (34, 35667), (46, 35751), (48, 35778), (50, 35802), (62, 35958), (64, 35973), (66, 35985), (75, 36042), (90, 36156),

Gene: Arti_10 Start: 5991, Stop: 6665, Start Num: 16
Candidate Starts for Arti_10:
(7, 5856), (13, 5964), (Start: 16 @5991 has 18 MA's), (43, 6192), (44, 6195), (50, 6252), (53, 6285), (61, 6396), (75, 6513), (85, 6603),

Gene: Azuria_53 Start: 48004, Stop: 47327, Start Num: 18
Candidate Starts for Azuria_53:
(Start: 14 @48013 has 5 MA's), (Start: 18 @48004 has 163 MA's), (38, 47842), (41, 47827), (45, 47794), (47, 47770), (50, 47740), (54, 47662), (57, 47614), (61, 47593), (63, 47572), (74, 47482), (78, 47446), (81, 47407), (82, 47395), (89, 47368),

Gene: Badfish_56 Start: 48515, Stop: 47835, Start Num: 18
Candidate Starts for Badfish_56:

(Start: 14 @48524 has 5 MA's), (Start: 18 @48515 has 163 MA's), (44, 48308), (45, 48305), (47, 48281), (50, 48251), (57, 48125), (61, 48104), (63, 48083), (74, 47993), (81, 47918), (82, 47906), (89, 47879),

Gene: Banjo_54 Start: 47962, Stop: 47282, Start Num: 18
Candidate Starts for Banjo_54:
(3, 48214), (4, 48205), (5, 48181), (6, 48151), (7, 48100), (8, 48061), (Start: 14 @47971 has 5 MA's), (Start: 18 @47962 has 163 MA's), (44, 47755), (45, 47752), (47, 47728), (50, 47698), (57, 47572), (61, 47551), (63, 47530), (74, 47440), (81, 47365), (82, 47353), (89, 47326),

Gene: Basato_55 Start: 48237, Stop: 47560, Start Num: 18
Candidate Starts for Basato_55:
(Start: 14 @48246 has 5 MA's), (Start: 18 @48237 has 163 MA's), (38, 48075), (41, 48060), (45, 48027), (47, 48003), (50, 47973), (54, 47895), (57, 47847), (61, 47826), (63, 47805), (74, 47715), (78, 47679), (81, 47640), (82, 47628), (89, 47601),

Gene: BirdsNest_57 Start: 47703, Stop: 46999, Start Num: 17
Candidate Starts for BirdsNest_57:
(Start: 17 @47703 has 6 MA's), (21, 47688), (23, 47658), (49, 47448), (50, 47436), (53, 47400), (62, 47274), (71, 47205), (82, 47076), (89, 47049), (92, 47010),

Gene: Bishoperium_55 Start: 48501, Stop: 47821, Start Num: 18
Candidate Starts for Bishoperium_55:
(Start: 14 @48510 has 5 MA's), (Start: 18 @48501 has 163 MA's), (44, 48294), (45, 48291), (47, 48267), (50, 48237), (57, 48111), (61, 48090), (63, 48069), (74, 47979), (81, 47904), (82, 47892), (89, 47865),

Gene: Bluephacebaby_55 Start: 48504, Stop: 47824, Start Num: 18
Candidate Starts for Bluephacebaby_55:
(Start: 14 @48513 has 5 MA's), (Start: 18 @48504 has 163 MA's), (44, 48297), (45, 48294), (47, 48270), (50, 48240), (57, 48114), (61, 48093), (63, 48072), (74, 47982), (81, 47907), (82, 47895), (89, 47868),

Gene: Boehler_54 Start: 47946, Stop: 47269, Start Num: 18
Candidate Starts for Boehler_54:
(Start: 14 @47955 has 5 MA's), (Start: 18 @47946 has 163 MA's), (35, 47817), (38, 47784), (41, 47769), (44, 47739), (45, 47736), (47, 47712), (50, 47682), (54, 47604), (57, 47556), (61, 47535), (63, 47514), (74, 47424), (78, 47388), (81, 47349), (82, 47337), (89, 47310),

Gene: Bradissa_44 Start: 36341, Stop: 36946, Start Num: 20
Candidate Starts for Bradissa_44:
(Start: 20 @36341 has 7 MA's), (26, 36383), (50, 36578), (51, 36611), (54, 36659), (64, 36752), (75, 36821),

Gene: Brilliant_57 Start: 48504, Stop: 47824, Start Num: 18
Candidate Starts for Brilliant_57:
(Start: 14 @48513 has 5 MA's), (Start: 18 @48504 has 163 MA's), (44, 48297), (45, 48294), (47, 48270), (50, 48240), (57, 48114), (61, 48093), (63, 48072), (74, 47982), (81, 47907), (82, 47895), (89, 47868),

Gene: BronnyJr_56 Start: 38699, Stop: 39382, Start Num: 16
Candidate Starts for BronnyJr_56:

(Start: 16 @38699 has 18 MA's), (30, 38777), (39, 38867), (45, 38909), (47, 38933), (50, 38963), (63, 39134), (82, 39308), (88, 39332), (89, 39335),

Gene: Buckeye_54 Start: 48015, Stop: 47338, Start Num: 18
Candidate Starts for Buckeye_54:
(Start: 14 @48024 has 5 MA's), (Start: 18 @48015 has 163 MA's), (44, 47808), (45, 47805), (47, 47781), (50, 47751), (57, 47625), (61, 47604), (63, 47583), (74, 47493), (78, 47457), (81, 47418), (82, 47406), (89, 47379),

Gene: CamL_55 Start: 48269, Stop: 47589, Start Num: 18
Candidate Starts for CamL_55:
(Start: 14 @48278 has 5 MA's), (Start: 18 @48269 has 163 MA's), (44, 48062), (45, 48059), (47, 48035), (50, 48005), (57, 47879), (61, 47858), (63, 47837), (74, 47747), (81, 47672), (82, 47660), (89, 47633),

Gene: Cannibal_55 Start: 48252, Stop: 47572, Start Num: 18
Candidate Starts for Cannibal_55:
(3, 48504), (4, 48495), (5, 48471), (6, 48441), (7, 48390), (8, 48351), (Start: 14 @48261 has 5 MA's), (Start: 18 @48252 has 163 MA's), (44, 48045), (45, 48042), (47, 48018), (50, 47988), (54, 47910), (57, 47862), (61, 47841), (74, 47730), (78, 47694), (81, 47655), (82, 47643), (89, 47616),

Gene: Carthage_53 Start: 47247, Stop: 46567, Start Num: 18
Candidate Starts for Carthage_53:
(Start: 14 @47256 has 5 MA's), (Start: 18 @47247 has 163 MA's), (44, 47040), (45, 47037), (47, 47013), (50, 46983), (57, 46857), (61, 46836), (63, 46815), (74, 46725), (78, 46689), (81, 46650), (82, 46638), (89, 46611),

Gene: Chaelin_56 Start: 48499, Stop: 47819, Start Num: 18
Candidate Starts for Chaelin_56:
(Start: 14 @48508 has 5 MA's), (Start: 18 @48499 has 163 MA's), (44, 48292), (45, 48289), (47, 48265), (50, 48235), (57, 48109), (61, 48088), (63, 48067), (74, 47977), (81, 47902), (82, 47890), (89, 47863),

Gene: CheetO_54 Start: 47985, Stop: 47308, Start Num: 18
Candidate Starts for CheetO_54:
(Start: 14 @47994 has 5 MA's), (Start: 18 @47985 has 163 MA's), (38, 47823), (41, 47808), (45, 47775), (47, 47751), (50, 47721), (54, 47643), (57, 47595), (61, 47574), (63, 47553), (74, 47463), (78, 47427), (81, 47388), (82, 47376), (87, 47355), (89, 47349),

Gene: Cher_55 Start: 48521, Stop: 47841, Start Num: 18
Candidate Starts for Cher_55:
(Start: 14 @48530 has 5 MA's), (Start: 18 @48521 has 163 MA's), (44, 48314), (45, 48311), (47, 48287), (50, 48257), (57, 48131), (61, 48110), (63, 48089), (74, 47999), (81, 47924), (82, 47912), (89, 47885),

Gene: Childish_55 Start: 48531, Stop: 47851, Start Num: 18
Candidate Starts for Childish_55:
(3, 48783), (4, 48774), (5, 48750), (6, 48720), (7, 48669), (8, 48630), (Start: 14 @48540 has 5 MA's), (Start: 18 @48531 has 163 MA's), (44, 48324), (45, 48321), (47, 48297), (50, 48267), (54, 48189), (57, 48141), (61, 48120), (74, 48009), (78, 47973), (81, 47934), (82, 47922), (89, 47895),

Gene: Chorkpop_55 Start: 48008, Stop: 47328, Start Num: 18
Candidate Starts for Chorkpop_55:

(3, 48260), (4, 48251), (5, 48227), (6, 48197), (7, 48146), (8, 48107), (Start: 14 @48017 has 5 MA's), (Start: 18 @48008 has 163 MA's), (44, 47801), (45, 47798), (47, 47774), (50, 47744), (54, 47666), (57, 47618), (61, 47597), (74, 47486), (78, 47450), (81, 47411), (82, 47399), (89, 47372),

Gene: Chubbello_57 Start: 37644, Stop: 38327, Start Num: 16
Candidate Starts for Chubbello_57:
(Start: 16 @37644 has 18 MA's), (30, 37722), (39, 37812), (45, 37854), (47, 37878), (50, 37908), (63, 38079), (82, 38253), (88, 38277), (89, 38280),

Gene: Commandaria_9 Start: 5029, Stop: 5676, Start Num: 19
Candidate Starts for Commandaria_9:
(13, 4993), (Start: 19 @5029 has 2 MA's), (40, 5200), (43, 5227), (44, 5230), (50, 5287), (60, 5425), (75, 5548), (85, 5638),

Gene: Confidence_46 Start: 34232, Stop: 34837, Start Num: 20
Candidate Starts for Confidence_46:
(Start: 20 @34232 has 7 MA's), (26, 34274), (29, 34289), (50, 34469), (51, 34502), (54, 34550), (64, 34643), (75, 34712), (80, 34766),

Gene: Cornobble_54 Start: 47922, Stop: 47242, Start Num: 18
Candidate Starts for Cornobble_54:
(3, 48174), (4, 48165), (5, 48141), (6, 48111), (7, 48060), (8, 48021), (Start: 14 @47931 has 5 MA's), (Start: 18 @47922 has 163 MA's), (38, 47760), (41, 47745), (45, 47712), (47, 47688), (50, 47658), (54, 47580), (57, 47532), (61, 47511), (63, 47490), (74, 47400), (78, 47364), (81, 47325), (82, 47313), (89, 47286),

Gene: Cosmolli16_56 Start: 48711, Stop: 48031, Start Num: 18
Candidate Starts for Cosmolli16_56:
(3, 48963), (4, 48954), (5, 48930), (6, 48900), (7, 48849), (8, 48810), (Start: 14 @48720 has 5 MA's), (Start: 18 @48711 has 163 MA's), (44, 48504), (45, 48501), (47, 48477), (50, 48447), (54, 48369), (57, 48321), (61, 48300), (74, 48189), (78, 48153), (81, 48114), (82, 48102), (89, 48075),

Gene: Craff_58 Start: 48956, Stop: 48276, Start Num: 18
Candidate Starts for Craff_58:
(3, 49208), (4, 49199), (5, 49175), (6, 49145), (7, 49094), (8, 49055), (Start: 14 @48965 has 5 MA's), (Start: 18 @48956 has 163 MA's), (44, 48749), (45, 48746), (47, 48722), (50, 48692), (54, 48614), (57, 48566), (61, 48545), (74, 48434), (78, 48398), (81, 48359), (82, 48347), (89, 48320),

Gene: Crater_55 Start: 35960, Stop: 36562, Start Num: 20
Candidate Starts for Crater_55:
(Start: 20 @35960 has 7 MA's), (29, 36017), (33, 36053), (34, 36062), (46, 36146), (48, 36173), (50, 36197), (62, 36353), (64, 36368), (66, 36380), (75, 36437), (90, 36551),

Gene: Crownjwl_55 Start: 47988, Stop: 47311, Start Num: 18
Candidate Starts for Crownjwl_55:
(Start: 14 @47997 has 5 MA's), (Start: 18 @47988 has 163 MA's), (38, 47826), (41, 47811), (45, 47778), (47, 47754), (50, 47724), (54, 47646), (57, 47598), (61, 47577), (63, 47556), (74, 47466), (78, 47430), (81, 47391), (82, 47379), (87, 47358), (89, 47352),

Gene: DaddyDaniels_57 Start: 48488, Stop: 47808, Start Num: 18
Candidate Starts for DaddyDaniels_57:
(3, 48740), (4, 48731), (5, 48707), (6, 48677), (7, 48626), (8, 48587), (Start: 14 @48497 has 5 MA's), (Start: 18 @48488 has 163 MA's), (44, 48281), (45, 48278), (47, 48254), (50, 48224), (54, 48146), (57,

48098), (61, 48077), (74, 47966), (78, 47930), (81, 47891), (82, 47879), (89, 47852),

Gene: Daffy_55 Start: 47994, Stop: 47314, Start Num: 18
Candidate Starts for Daffy_55:
(3, 48246), (4, 48237), (5, 48213), (6, 48183), (7, 48132), (8, 48093), (Start: 14 @48003 has 5 MA's), (Start: 18 @47994 has 163 MA's), (44, 47787), (45, 47784), (47, 47760), (50, 47730), (54, 47652), (57, 47604), (61, 47583), (74, 47472), (78, 47436), (81, 47397), (82, 47385), (89, 47358),

Gene: Dalilpop_11 Start: 6087, Stop: 6800, Start Num: 16
Candidate Starts for Dalilpop_11:
(Start: 16 @6087 has 18 MA's), (22, 6114), (28, 6171), (38, 6276), (42, 6291), (43, 6309), (44, 6312), (45, 6315), (50, 6369), (52, 6402), (75, 6633), (84, 6720), (92, 6774),

Gene: Dati_55 Start: 48526, Stop: 47846, Start Num: 18
Candidate Starts for Dati_55:
(Start: 14 @48535 has 5 MA's), (Start: 18 @48526 has 163 MA's), (44, 48319), (45, 48316), (47, 48292), (50, 48262), (57, 48136), (61, 48115), (63, 48094), (74, 48004), (81, 47929), (82, 47917), (89, 47890),

Gene: Dione_53 Start: 47666, Stop: 46989, Start Num: 18
Candidate Starts for Dione_53:
(Start: 14 @47675 has 5 MA's), (Start: 18 @47666 has 163 MA's), (35, 47537), (38, 47504), (41, 47489), (44, 47459), (45, 47456), (47, 47432), (50, 47402), (54, 47324), (57, 47276), (61, 47255), (63, 47234), (74, 47144), (78, 47108), (81, 47069), (82, 47057), (85, 47042), (89, 47030),

Gene: DirtMcgirt_65 Start: 40913, Stop: 41590, Start Num: 18
Candidate Starts for DirtMcgirt_65:
(Start: 18 @40913 has 163 MA's), (26, 40955), (44, 41114), (45, 41117), (47, 41141), (50, 41171), (54, 41249), (57, 41297), (61, 41318), (74, 41429), (78, 41465), (81, 41504), (82, 41516),

Gene: DoesntMatter_53 Start: 47959, Stop: 47282, Start Num: 18
Candidate Starts for DoesntMatter_53:
(Start: 14 @47968 has 5 MA's), (Start: 18 @47959 has 163 MA's), (35, 47830), (38, 47797), (41, 47782), (44, 47752), (45, 47749), (47, 47725), (50, 47695), (54, 47617), (57, 47569), (61, 47548), (63, 47527), (74, 47437), (78, 47401), (81, 47362), (82, 47350), (85, 47335), (89, 47323),

Gene: DolOn_59 Start: 49214, Stop: 48534, Start Num: 18
Candidate Starts for DolOn_59:
(Start: 14 @49223 has 5 MA's), (Start: 18 @49214 has 163 MA's), (44, 49007), (45, 49004), (47, 48980), (50, 48950), (57, 48824), (61, 48803), (63, 48782), (74, 48692), (81, 48617), (82, 48605), (89, 48578),

Gene: DonSanchon_53 Start: 47700, Stop: 47014, Start Num: 14
Candidate Starts for DonSanchon_53:
(Start: 14 @47700 has 5 MA's), (Start: 18 @47691 has 163 MA's), (44, 47484), (45, 47481), (47, 47457), (50, 47427), (57, 47301), (61, 47280), (63, 47259), (74, 47169), (78, 47133), (81, 47094), (82, 47082), (89, 47055),

Gene: Donovan_52 Start: 35711, Stop: 36400, Start Num: 17
Candidate Starts for Donovan_52:
(10, 35645), (Start: 17 @35711 has 6 MA's), (30, 35795), (39, 35885), (45, 35927), (47, 35951), (50, 35981), (63, 36152), (81, 36314), (82, 36326), (89, 36353),

Gene: Doomphist_66 Start: 43323, Stop: 44000, Start Num: 18
Candidate Starts for Doomphist_66:
(Start: 18 @43323 has 163 MA's), (26, 43365), (44, 43524), (45, 43527), (47, 43551), (50, 43581), (54, 43659), (57, 43707), (61, 43728), (74, 43839), (78, 43875), (81, 43914), (82, 43926),

Gene: Drago_63 Start: 40916, Stop: 41593, Start Num: 18
Candidate Starts for Drago_63:
(Start: 18 @40916 has 163 MA's), (26, 40958), (44, 41117), (45, 41120), (47, 41144), (50, 41174), (54, 41252), (57, 41300), (61, 41321), (74, 41432), (78, 41468), (81, 41507), (82, 41519),

Gene: ElvisPhasley_56 Start: 48537, Stop: 47857, Start Num: 18
Candidate Starts for ElvisPhasley_56:
(3, 48789), (4, 48780), (5, 48756), (6, 48726), (7, 48675), (8, 48636), (Start: 14 @48546 has 5 MA's), (Start: 18 @48537 has 163 MA's), (38, 48375), (41, 48360), (45, 48327), (47, 48303), (50, 48273), (54, 48195), (57, 48147), (61, 48126), (63, 48105), (74, 48015), (78, 47979), (81, 47940), (82, 47928), (89, 47901),

Gene: EmGer13_55 Start: 47769, Stop: 47092, Start Num: 18
Candidate Starts for EmGer13_55:
(3, 48021), (4, 48012), (5, 47988), (6, 47958), (7, 47907), (8, 47868), (Start: 14 @47778 has 5 MA's), (Start: 18 @47769 has 163 MA's), (38, 47607), (41, 47592), (45, 47559), (47, 47535), (50, 47505), (54, 47427), (57, 47379), (61, 47358), (63, 47337), (74, 47247), (78, 47211), (81, 47172), (82, 47160), (89, 47133),

Gene: Emianna_10 Start: 5953, Stop: 6612, Start Num: 16
Candidate Starts for Emianna_10:
(7, 5818), (13, 5926), (Start: 16 @5953 has 18 MA's), (43, 6154), (44, 6157), (50, 6214), (53, 6247), (61, 6358), (75, 6475), (85, 6565),

Gene: EmpTee_54 Start: 47972, Stop: 47295, Start Num: 18
Candidate Starts for EmpTee_54:
(Start: 14 @47981 has 5 MA's), (Start: 18 @47972 has 163 MA's), (35, 47843), (38, 47810), (41, 47795), (44, 47765), (45, 47762), (47, 47738), (50, 47708), (54, 47630), (57, 47582), (61, 47561), (63, 47540), (74, 47450), (78, 47414), (81, 47375), (82, 47363), (89, 47336),

Gene: EnalisNailo_43 Start: 35875, Stop: 36480, Start Num: 20
Candidate Starts for EnalisNailo_43:
(Start: 20 @35875 has 7 MA's), (26, 35917), (50, 36112), (51, 36145), (54, 36193), (64, 36286), (75, 36355),

Gene: Enby_67 Start: 41192, Stop: 41869, Start Num: 18
Candidate Starts for Enby_67:
(Start: 18 @41192 has 163 MA's), (26, 41234), (44, 41393), (45, 41396), (47, 41420), (50, 41450), (54, 41528), (57, 41576), (61, 41597), (74, 41708), (78, 41744), (81, 41783), (82, 41795),

Gene: Ennea_13 Start: 6764, Stop: 7453, Start Num: 16
Candidate Starts for Ennea_13:
(9, 6692), (13, 6737), (Start: 16 @6764 has 18 MA's), (32, 6881), (43, 6980), (44, 6983), (50, 7040), (61, 7184), (73, 7277), (75, 7301), (85, 7391), (91, 7415),

Gene: Eremos_54 Start: 47965, Stop: 47288, Start Num: 18
Candidate Starts for Eremos_54:

(Start: 14 @47974 has 5 MA's), (Start: 18 @47965 has 163 MA's), (38, 47803), (41, 47788), (45, 47755), (47, 47731), (50, 47701), (54, 47623), (57, 47575), (61, 47554), (63, 47533), (74, 47443), (78, 47407), (81, 47368), (82, 47356), (89, 47329),

Gene: Etaye_55 Start: 48795, Stop: 48115, Start Num: 18
Candidate Starts for Etaye_55:
(Start: 14 @48804 has 5 MA's), (Start: 18 @48795 has 163 MA's), (44, 48588), (45, 48585), (47, 48561), (50, 48531), (57, 48405), (61, 48384), (63, 48363), (74, 48273), (81, 48198), (82, 48186), (89, 48159),

Gene: Eugenia_55 Start: 48360, Stop: 47680, Start Num: 18
Candidate Starts for Eugenia_55:
(Start: 14 @48369 has 5 MA's), (Start: 18 @48360 has 163 MA's), (44, 48153), (45, 48150), (47, 48126), (50, 48096), (57, 47970), (61, 47949), (63, 47928), (74, 47838), (81, 47763), (82, 47751), (89, 47724),

Gene: Flapper_9 Start: 4974, Stop: 5633, Start Num: 16
Candidate Starts for Flapper_9:
(Start: 16 @4974 has 18 MA's), (28, 5037), (42, 5157), (43, 5175), (44, 5178), (45, 5181), (50, 5235), (75, 5499), (84, 5586),

Gene: Foxboro_10 Start: 5964, Stop: 6641, Start Num: 16
Candidate Starts for Foxboro_10:
(7, 5829), (13, 5937), (Start: 16 @5964 has 18 MA's), (43, 6165), (44, 6168), (50, 6225), (61, 6372), (75, 6489), (85, 6579), (87, 6585),

Gene: Fozzie_54 Start: 48298, Stop: 47618, Start Num: 18
Candidate Starts for Fozzie_54:
(3, 48550), (4, 48541), (5, 48517), (6, 48487), (7, 48436), (8, 48397), (Start: 14 @48307 has 5 MA's), (Start: 18 @48298 has 163 MA's), (38, 48136), (41, 48121), (45, 48088), (47, 48064), (50, 48034), (54, 47956), (57, 47908), (61, 47887), (63, 47866), (74, 47776), (78, 47740), (81, 47701), (82, 47689), (89, 47662),

Gene: Frankicide_54 Start: 47996, Stop: 47319, Start Num: 18
Candidate Starts for Frankicide_54:
(Start: 14 @48005 has 5 MA's), (Start: 18 @47996 has 163 MA's), (38, 47834), (41, 47819), (45, 47786), (47, 47762), (50, 47732), (54, 47654), (57, 47606), (61, 47585), (63, 47564), (74, 47474), (78, 47438), (81, 47399), (82, 47387), (89, 47360),

Gene: FremontTroll_55 Start: 48563, Stop: 47883, Start Num: 18
Candidate Starts for FremontTroll_55:
(3, 48815), (4, 48806), (5, 48782), (6, 48752), (7, 48701), (8, 48662), (Start: 14 @48572 has 5 MA's), (Start: 18 @48563 has 163 MA's), (44, 48356), (45, 48353), (47, 48329), (50, 48299), (57, 48173), (61, 48152), (63, 48131), (74, 48041), (81, 47966), (82, 47954), (89, 47927),

Gene: Freya_53 Start: 47657, Stop: 46980, Start Num: 18
Candidate Starts for Freya_53:
(Start: 14 @47666 has 5 MA's), (Start: 18 @47657 has 163 MA's), (44, 47450), (45, 47447), (47, 47423), (50, 47393), (54, 47315), (57, 47267), (61, 47246), (63, 47225), (74, 47135), (78, 47099), (81, 47060), (82, 47048), (85, 47033), (89, 47021),

Gene: Fruitloop_61 Start: 42550, Stop: 43227, Start Num: 18
Candidate Starts for Fruitloop_61:

(Start: 18 @42550 has 163 MA's), (26, 42592), (44, 42751), (45, 42754), (47, 42778), (50, 42808), (54, 42886), (57, 42934), (61, 42955), (74, 43066), (78, 43102), (81, 43141), (82, 43153),

Gene: FugateOSU_55 Start: 48502, Stop: 47822, Start Num: 18
Candidate Starts for FugateOSU_55:
(Start: 14 @48511 has 5 MA's), (Start: 18 @48502 has 163 MA's), (44, 48295), (45, 48292), (47, 48268), (50, 48238), (57, 48112), (61, 48091), (63, 48070), (74, 47980), (81, 47905), (82, 47893), (89, 47866),

Gene: GMA2_122 Start: 101578, Stop: 100931, Start Num: 15
Candidate Starts for GMA2_122:
(15, 101578), (26, 101527), (27, 101521), (31, 101488), (37, 101416), (50, 101323), (70, 101098), (71, 101086), (72, 101077), (79, 101011),

Gene: Gareth_55 Start: 48496, Stop: 47816, Start Num: 18
Candidate Starts for Gareth_55:
(Start: 14 @48505 has 5 MA's), (Start: 18 @48496 has 163 MA's), (44, 48289), (45, 48286), (47, 48262), (50, 48232), (57, 48106), (61, 48085), (63, 48064), (74, 47974), (81, 47899), (82, 47887), (89, 47860),

Gene: Giraffe_56 Start: 48492, Stop: 47812, Start Num: 18
Candidate Starts for Giraffe_56:
(3, 48744), (4, 48735), (5, 48711), (6, 48681), (7, 48630), (8, 48591), (Start: 14 @48501 has 5 MA's), (Start: 18 @48492 has 163 MA's), (44, 48285), (45, 48282), (47, 48258), (50, 48228), (54, 48150), (57, 48102), (61, 48081), (74, 47970), (81, 47895), (82, 47883), (89, 47856),

Gene: Grand2040_55 Start: 48486, Stop: 47806, Start Num: 18
Candidate Starts for Grand2040_55:
(3, 48738), (4, 48729), (5, 48705), (6, 48675), (7, 48624), (8, 48585), (Start: 14 @48495 has 5 MA's), (Start: 18 @48486 has 163 MA's), (44, 48279), (45, 48276), (47, 48252), (50, 48222), (54, 48144), (57, 48096), (61, 48075), (74, 47964), (78, 47928), (81, 47889), (82, 47877), (89, 47850),

Gene: GreenChile_56 Start: 47987, Stop: 47301, Start Num: 14
Candidate Starts for GreenChile_56:
(Start: 14 @47987 has 5 MA's), (Start: 18 @47978 has 163 MA's), (38, 47816), (41, 47801), (45, 47768), (47, 47744), (50, 47714), (54, 47636), (57, 47588), (61, 47567), (63, 47546), (74, 47456), (78, 47420), (81, 47381), (82, 47369), (89, 47342),

Gene: GrootJr_12 Start: 6386, Stop: 7060, Start Num: 16
Candidate Starts for GrootJr_12:
(7, 6251), (13, 6359), (Start: 16 @6386 has 18 MA's), (43, 6587), (44, 6590), (50, 6647), (53, 6680), (61, 6791), (75, 6908), (85, 6998),

Gene: Gwilliam_56 Start: 48849, Stop: 48169, Start Num: 18
Candidate Starts for Gwilliam_56:
(Start: 14 @48858 has 5 MA's), (Start: 18 @48849 has 163 MA's), (44, 48642), (45, 48639), (47, 48615), (50, 48585), (57, 48459), (61, 48438), (63, 48417), (74, 48327), (81, 48252), (82, 48240), (89, 48213),

Gene: HSavage_54 Start: 47975, Stop: 47298, Start Num: 18
Candidate Starts for HSavage_54:
(Start: 14 @47984 has 5 MA's), (Start: 18 @47975 has 163 MA's), (38, 47813), (41, 47798), (45, 47765), (47, 47741), (50, 47711), (54, 47633), (57, 47585), (61, 47564), (63, 47543), (74, 47453), (78,

47417), (81, 47378), (82, 47366), (89, 47339),

Gene: Haimas_54 Start: 47991, Stop: 47314, Start Num: 18
Candidate Starts for Haimas_54:
(Start: 14 @48000 has 5 MA's), (Start: 18 @47991 has 163 MA's), (44, 47784), (45, 47781), (47, 47757), (50, 47727), (57, 47601), (61, 47580), (63, 47559), (74, 47469), (81, 47394), (82, 47382), (89, 47355),

Gene: Haleema_54 Start: 47990, Stop: 47310, Start Num: 18
Candidate Starts for Haleema_54:
(3, 48242), (4, 48233), (5, 48209), (6, 48179), (7, 48128), (8, 48089), (Start: 14 @47999 has 5 MA's), (Start: 18 @47990 has 163 MA's), (44, 47783), (45, 47780), (47, 47756), (50, 47726), (54, 47648), (57, 47600), (61, 47579), (74, 47468), (78, 47432), (81, 47393), (82, 47381), (89, 47354),

Gene: Hamish_54 Start: 47984, Stop: 47307, Start Num: 18
Candidate Starts for Hamish_54:
(Start: 14 @47993 has 5 MA's), (Start: 18 @47984 has 163 MA's), (44, 47777), (45, 47774), (47, 47750), (50, 47720), (57, 47594), (61, 47573), (63, 47552), (74, 47462), (81, 47387), (82, 47375), (89, 47348),

Gene: Happabalu_55 Start: 48526, Stop: 47846, Start Num: 18
Candidate Starts for Happabalu_55:
(Start: 14 @48535 has 5 MA's), (Start: 18 @48526 has 163 MA's), (44, 48319), (45, 48316), (47, 48292), (50, 48262), (57, 48136), (61, 48115), (63, 48094), (74, 48004), (81, 47929), (82, 47917), (89, 47890),

Gene: Harvey_54 Start: 48021, Stop: 47344, Start Num: 18
Candidate Starts for Harvey_54:
(3, 48273), (4, 48264), (5, 48240), (6, 48210), (7, 48159), (8, 48120), (Start: 14 @48030 has 5 MA's), (Start: 18 @48021 has 163 MA's), (38, 47859), (41, 47844), (45, 47811), (47, 47787), (50, 47757), (54, 47679), (57, 47631), (61, 47610), (63, 47589), (74, 47499), (78, 47463), (81, 47424), (82, 47412), (89, 47385),

Gene: Hashim76_57 Start: 48273, Stop: 47572, Start Num: 17
Candidate Starts for Hashim76_57:
(Start: 17 @48273 has 6 MA's), (21, 48258), (23, 48228), (49, 48018), (50, 48006), (53, 47970), (56, 47883), (63, 47832), (71, 47775), (82, 47646), (89, 47619),

Gene: Hekos_52 Start: 47372, Stop: 46683, Start Num: 14
Candidate Starts for Hekos_52:
(2, 47630), (3, 47615), (4, 47606), (5, 47582), (6, 47552), (7, 47501), (8, 47462), (Start: 14 @47372 has 5 MA's), (Start: 18 @47363 has 163 MA's), (44, 47156), (45, 47153), (47, 47129), (50, 47099), (54, 47021), (57, 46973), (61, 46952), (74, 46841), (78, 46805), (81, 46766), (82, 46754), (89, 46727),

Gene: Held_55 Start: 47995, Stop: 47315, Start Num: 18
Candidate Starts for Held_55:
(3, 48247), (4, 48238), (5, 48214), (6, 48184), (7, 48133), (8, 48094), (Start: 14 @48004 has 5 MA's), (Start: 18 @47995 has 163 MA's), (44, 47788), (45, 47785), (47, 47761), (50, 47731), (54, 47653), (57, 47605), (61, 47584), (74, 47473), (78, 47437), (81, 47398), (82, 47386), (89, 47359),

Gene: HenryJackson_55 Start: 48520, Stop: 47840, Start Num: 18
Candidate Starts for HenryJackson_55:

(Start: 14 @48529 has 5 MA's), (Start: 18 @48520 has 163 MA's), (44, 48313), (45, 48310), (47, 48286), (50, 48256), (57, 48130), (61, 48109), (63, 48088), (74, 47998), (81, 47923), (82, 47911), (89, 47884),

Gene: Hertubise_55 Start: 48287, Stop: 47607, Start Num: 18
Candidate Starts for Hertubise_55:
(Start: 14 @48296 has 5 MA's), (Start: 18 @48287 has 163 MA's), (44, 48080), (45, 48077), (47, 48053), (50, 48023), (57, 47897), (61, 47876), (63, 47855), (74, 47765), (81, 47690), (82, 47678), (89, 47651),

Gene: Hetaeria_54 Start: 48022, Stop: 47345, Start Num: 18
Candidate Starts for Hetaeria_54:
(3, 48274), (4, 48265), (5, 48241), (6, 48211), (7, 48160), (8, 48121), (Start: 14 @48031 has 5 MA's), (Start: 18 @48022 has 163 MA's), (38, 47860), (41, 47845), (45, 47812), (47, 47788), (50, 47758), (54, 47680), (57, 47632), (61, 47611), (63, 47590), (74, 47500), (78, 47464), (81, 47425), (82, 47413), (89, 47386),

Gene: HogWash_55 Start: 48817, Stop: 48137, Start Num: 18
Candidate Starts for HogWash_55:
(Start: 14 @48826 has 5 MA's), (Start: 18 @48817 has 163 MA's), (44, 48610), (45, 48607), (47, 48583), (50, 48553), (57, 48427), (61, 48406), (63, 48385), (74, 48295), (81, 48220), (82, 48208), (89, 48181),

Gene: Horchata_54 Start: 47975, Stop: 47298, Start Num: 18
Candidate Starts for Horchata_54:
(Start: 14 @47984 has 5 MA's), (Start: 18 @47975 has 163 MA's), (38, 47813), (41, 47798), (45, 47765), (47, 47741), (50, 47711), (54, 47633), (57, 47585), (61, 47564), (63, 47543), (74, 47453), (78, 47417), (81, 47378), (82, 47366), (89, 47339),

Gene: Inverness_54 Start: 47984, Stop: 47307, Start Num: 18
Candidate Starts for Inverness_54:
(3, 48236), (4, 48227), (5, 48203), (6, 48173), (7, 48122), (8, 48083), (Start: 14 @47993 has 5 MA's), (Start: 18 @47984 has 163 MA's), (38, 47822), (41, 47807), (45, 47774), (47, 47750), (50, 47720), (54, 47642), (57, 47594), (61, 47573), (63, 47552), (74, 47462), (78, 47426), (81, 47387), (82, 47375), (89, 47348),

Gene: IrishSherpFalk_67 Start: 43906, Stop: 44583, Start Num: 18
Candidate Starts for IrishSherpFalk_67:
(Start: 18 @43906 has 163 MA's), (26, 43948), (44, 44107), (45, 44110), (47, 44134), (50, 44164), (54, 44242), (57, 44290), (61, 44311), (74, 44422), (78, 44458), (81, 44497), (82, 44509),

Gene: IsaacEli_56 Start: 48508, Stop: 47828, Start Num: 18
Candidate Starts for IsaacEli_56:
(Start: 14 @48517 has 5 MA's), (Start: 18 @48508 has 163 MA's), (44, 48301), (45, 48298), (47, 48274), (50, 48244), (57, 48118), (61, 48097), (63, 48076), (74, 47986), (81, 47911), (82, 47899), (89, 47872),

Gene: JDog_54 Start: 48524, Stop: 47844, Start Num: 18
Candidate Starts for JDog_54:
(2, 48791), (3, 48776), (4, 48767), (5, 48743), (6, 48713), (7, 48662), (8, 48623), (Start: 14 @48533 has 5 MA's), (Start: 18 @48524 has 163 MA's), (44, 48317), (45, 48314), (47, 48290), (50, 48260), (57, 48134), (61, 48113), (63, 48092), (74, 48002), (81, 47927), (82, 47915), (89, 47888),

Gene: Jesabah_56 Start: 48525, Stop: 47845, Start Num: 18
Candidate Starts for Jesabah_56:
(Start: 14 @48534 has 5 MA's), (Start: 18 @48525 has 163 MA's), (44, 48318), (45, 48315), (47, 48291), (50, 48261), (57, 48135), (61, 48114), (63, 48093), (74, 48003), (81, 47928), (82, 47916), (89, 47889),

Gene: Jifall16_9 Start: 5425, Stop: 6087, Start Num: 16
Candidate Starts for Jifall16_9:
(7, 5290), (13, 5398), (Start: 16 @5425 has 18 MA's), (43, 5626), (44, 5629), (50, 5686), (61, 5833), (75, 5950), (85, 6040),

Gene: Jillium_55 Start: 48516, Stop: 47836, Start Num: 18
Candidate Starts for Jillium_55:
(Start: 14 @48525 has 5 MA's), (Start: 18 @48516 has 163 MA's), (44, 48309), (45, 48306), (47, 48282), (50, 48252), (57, 48126), (61, 48105), (63, 48084), (74, 47994), (81, 47919), (82, 47907), (89, 47880),

Gene: Kahve_55 Start: 48517, Stop: 47837, Start Num: 18
Candidate Starts for Kahve_55:
(Start: 14 @48526 has 5 MA's), (Start: 18 @48517 has 163 MA's), (44, 48310), (45, 48307), (47, 48283), (50, 48253), (57, 48127), (61, 48106), (63, 48085), (74, 47995), (81, 47920), (82, 47908), (89, 47881),

Gene: Khan1_55 Start: 48473, Stop: 47793, Start Num: 18
Candidate Starts for Khan1_55:
(3, 48725), (4, 48716), (5, 48692), (6, 48662), (7, 48611), (8, 48572), (Start: 14 @48482 has 5 MA's), (Start: 18 @48473 has 163 MA's), (44, 48266), (45, 48263), (47, 48239), (50, 48209), (54, 48131), (57, 48083), (61, 48062), (74, 47951), (78, 47915), (81, 47876), (82, 47864), (89, 47837),

Gene: KidneyBean_10 Start: 5770, Stop: 6429, Start Num: 16
Candidate Starts for KidneyBean_10:
(7, 5635), (13, 5743), (Start: 16 @5770 has 18 MA's), (43, 5971), (44, 5974), (50, 6031), (53, 6064), (61, 6175), (75, 6292), (85, 6382),

Gene: Kikipoo_56 Start: 48508, Stop: 47828, Start Num: 18
Candidate Starts for Kikipoo_56:
(Start: 14 @48517 has 5 MA's), (Start: 18 @48508 has 163 MA's), (44, 48301), (45, 48298), (47, 48274), (50, 48244), (57, 48118), (61, 48097), (63, 48076), (74, 47986), (81, 47911), (82, 47899), (89, 47872),

Gene: Kimbrough_56 Start: 48517, Stop: 47837, Start Num: 18
Candidate Starts for Kimbrough_56:
(Start: 14 @48526 has 5 MA's), (Start: 18 @48517 has 163 MA's), (44, 48310), (45, 48307), (47, 48283), (50, 48253), (57, 48127), (61, 48106), (63, 48085), (74, 47995), (81, 47920), (82, 47908), (89, 47881),

Gene: KingTut_47 Start: 44181, Stop: 43501, Start Num: 18
Candidate Starts for KingTut_47:
(Start: 14 @44190 has 5 MA's), (Start: 18 @44181 has 163 MA's), (44, 43974), (45, 43971), (47, 43947), (50, 43917), (57, 43791), (61, 43770), (63, 43749), (74, 43659), (81, 43584), (82, 43572), (89, 43545),

Gene: KlimbOn_54 Start: 47976, Stop: 47299, Start Num: 18

Candidate Starts for KlimbOn_54:
(Start: 14 @47985 has 5 MA's), (Start: 18 @47976 has 163 MA's), (38, 47814), (41, 47799), (45, 47766), (47, 47742), (50, 47712), (54, 47634), (57, 47586), (61, 47565), (63, 47544), (74, 47454), (78, 47418), (81, 47379), (82, 47367), (87, 47346), (89, 47340),

Gene: Kurt_10 Start: 5953, Stop: 6612, Start Num: 16
Candidate Starts for Kurt_10:
(7, 5818), (13, 5926), (Start: 16 @5953 has 18 MA's), (43, 6154), (44, 6157), (50, 6214), (53, 6247), (61, 6358), (75, 6475), (85, 6565),

Gene: Kwadwo_54 Start: 47969, Stop: 47289, Start Num: 18
Candidate Starts for Kwadwo_54:
(3, 48221), (4, 48212), (5, 48188), (6, 48158), (7, 48107), (8, 48068), (Start: 14 @47978 has 5 MA's), (Start: 18 @47969 has 163 MA's), (44, 47762), (45, 47759), (47, 47735), (50, 47705), (54, 47627), (57, 47579), (61, 47558), (74, 47447), (78, 47411), (81, 47372), (82, 47360), (89, 47333),

Gene: Lasso_55 Start: 48244, Stop: 47564, Start Num: 18
Candidate Starts for Lasso_55:
(3, 48496), (4, 48487), (5, 48463), (6, 48433), (7, 48382), (8, 48343), (Start: 14 @48253 has 5 MA's), (Start: 18 @48244 has 163 MA's), (44, 48037), (45, 48034), (47, 48010), (50, 47980), (54, 47902), (57, 47854), (61, 47833), (74, 47722), (78, 47686), (81, 47647), (82, 47635), (89, 47608),

Gene: LeeLot_55 Start: 48296, Stop: 47616, Start Num: 18
Candidate Starts for LeeLot_55:
(2, 48563), (3, 48548), (4, 48539), (5, 48515), (6, 48485), (7, 48434), (8, 48395), (Start: 14 @48305 has 5 MA's), (Start: 18 @48296 has 163 MA's), (44, 48089), (45, 48086), (47, 48062), (50, 48032), (57, 47906), (61, 47885), (63, 47864), (74, 47774), (81, 47699), (82, 47687), (89, 47660),

Gene: Lego3393_54 Start: 48508, Stop: 47828, Start Num: 18
Candidate Starts for Lego3393_54:
(Start: 14 @48517 has 5 MA's), (Start: 18 @48508 has 163 MA's), (44, 48301), (45, 48298), (47, 48274), (50, 48244), (57, 48118), (61, 48097), (63, 48076), (74, 47986), (81, 47911), (82, 47899), (89, 47872),

Gene: Lehmann_55 Start: 47867, Stop: 47187, Start Num: 18
Candidate Starts for Lehmann_55:
(3, 48119), (4, 48110), (5, 48086), (6, 48056), (7, 48005), (8, 47966), (Start: 14 @47876 has 5 MA's), (Start: 18 @47867 has 163 MA's), (38, 47705), (41, 47690), (45, 47657), (47, 47633), (50, 47603), (54, 47525), (57, 47477), (61, 47456), (63, 47435), (74, 47345), (78, 47309), (81, 47270), (82, 47258), (89, 47231),

Gene: Lilas_46 Start: 37586, Stop: 38191, Start Num: 20
Candidate Starts for Lilas_46:
(Start: 20 @37586 has 7 MA's), (26, 37628), (50, 37823), (51, 37856), (54, 37904), (64, 37997), (75, 38066),

Gene: LittleMinkey_59 Start: 47912, Stop: 47211, Start Num: 17
Candidate Starts for LittleMinkey_59:
(Start: 17 @47912 has 6 MA's), (21, 47897), (23, 47867), (50, 47645), (53, 47609), (71, 47414), (82, 47285), (89, 47258),

Gene: Llij_62 Start: 41070, Stop: 41747, Start Num: 18
Candidate Starts for Llij_62:

(Start: 18 @41070 has 163 MA's), (26, 41112), (44, 41271), (45, 41274), (47, 41298), (50, 41328), (54, 41406), (57, 41454), (61, 41475), (74, 41586), (78, 41622), (81, 41661), (82, 41673),

Gene: Lollipop1437_12 Start: 6752, Stop: 7441, Start Num: 16
Candidate Starts for Lollipop1437_12:
(9, 6680), (13, 6725), (Start: 16 @6752 has 18 MA's), (32, 6869), (43, 6968), (44, 6971), (50, 7028), (61, 7172), (73, 7265), (75, 7289), (85, 7379), (91, 7403),

Gene: LordVader_66 Start: 40689, Stop: 41372, Start Num: 16
Candidate Starts for LordVader_66:
(Start: 16 @40689 has 18 MA's), (30, 40767), (39, 40857), (45, 40899), (47, 40923), (50, 40953), (63, 41124), (81, 41286), (82, 41298), (88, 41322), (89, 41325),

Gene: Lorde_66 Start: 40357, Stop: 41034, Start Num: 18
Candidate Starts for Lorde_66:
(Start: 18 @40357 has 163 MA's), (26, 40399), (44, 40558), (45, 40561), (47, 40585), (50, 40615), (54, 40693), (57, 40741), (61, 40762), (74, 40873), (78, 40909), (81, 40948), (82, 40960),

Gene: LuckyMarjie_53 Start: 47677, Stop: 47000, Start Num: 18
Candidate Starts for LuckyMarjie_53:
(Start: 14 @47686 has 5 MA's), (Start: 18 @47677 has 163 MA's), (35, 47548), (38, 47515), (41, 47500), (44, 47470), (45, 47467), (47, 47443), (50, 47413), (54, 47335), (57, 47287), (61, 47266), (63, 47245), (74, 47155), (78, 47119), (81, 47080), (82, 47068), (85, 47053), (89, 47041),

Gene: Lulumae_53 Start: 47662, Stop: 46985, Start Num: 18
Candidate Starts for Lulumae_53:
(Start: 14 @47671 has 5 MA's), (Start: 18 @47662 has 163 MA's), (35, 47533), (38, 47500), (41, 47485), (44, 47455), (45, 47452), (47, 47428), (50, 47398), (54, 47320), (57, 47272), (61, 47251), (63, 47230), (74, 47140), (78, 47104), (81, 47065), (82, 47053), (85, 47038), (89, 47026),

Gene: MRabcd_54 Start: 48059, Stop: 47379, Start Num: 18
Candidate Starts for MRabcd_54:
(3, 48311), (4, 48302), (5, 48278), (6, 48248), (7, 48197), (8, 48158), (Start: 14 @48068 has 5 MA's), (Start: 18 @48059 has 163 MA's), (44, 47852), (45, 47849), (47, 47825), (50, 47795), (54, 47717), (57, 47669), (61, 47648), (74, 47537), (78, 47501), (81, 47462), (82, 47450), (89, 47423),

Gene: Mana_54 Start: 47984, Stop: 47304, Start Num: 18
Candidate Starts for Mana_54:
(3, 48236), (4, 48227), (5, 48203), (6, 48173), (7, 48122), (8, 48083), (Start: 14 @47993 has 5 MA's), (Start: 18 @47984 has 163 MA's), (44, 47777), (45, 47774), (47, 47750), (50, 47720), (54, 47642), (57, 47594), (61, 47573), (74, 47462), (78, 47426), (81, 47387), (82, 47375), (89, 47348),

Gene: Manad_54 Start: 47959, Stop: 47282, Start Num: 18
Candidate Starts for Manad_54:
(3, 48211), (4, 48202), (5, 48178), (6, 48148), (7, 48097), (8, 48058), (Start: 14 @47968 has 5 MA's), (Start: 18 @47959 has 163 MA's), (38, 47797), (41, 47782), (45, 47749), (47, 47725), (50, 47695), (54, 47617), (57, 47569), (61, 47548), (63, 47527), (74, 47437), (78, 47401), (81, 47362), (82, 47350), (89, 47323),

Gene: Maru_55 Start: 48423, Stop: 47743, Start Num: 18
Candidate Starts for Maru_55:
(3, 48675), (4, 48666), (5, 48642), (6, 48612), (7, 48561), (8, 48522), (Start: 14 @48432 has 5 MA's), (Start: 18 @48423 has 163 MA's), (44, 48216), (45, 48213), (47, 48189), (50, 48159), (54, 48081), (57,

48033), (61, 48012), (74, 47901), (78, 47865), (81, 47826), (82, 47814), (89, 47787),

Gene: Matalotodo_54 Start: 47994, Stop: 47317, Start Num: 18
Candidate Starts for Matalotodo_54:
(Start: 14 @48003 has 5 MA's), (Start: 18 @47994 has 163 MA's), (44, 47787), (45, 47784), (47, 47760), (50, 47730), (57, 47604), (61, 47583), (63, 47562), (74, 47472), (78, 47436), (81, 47397), (82, 47385), (89, 47358),

Gene: Mecca_55 Start: 48505, Stop: 47825, Start Num: 18
Candidate Starts for Mecca_55:
(Start: 14 @48514 has 5 MA's), (Start: 18 @48505 has 163 MA's), (44, 48298), (45, 48295), (47, 48271), (50, 48241), (57, 48115), (61, 48094), (63, 48073), (74, 47983), (81, 47908), (82, 47896), (89, 47869),

Gene: Megatron_56 Start: 48496, Stop: 47816, Start Num: 18
Candidate Starts for Megatron_56:
(Start: 14 @48505 has 5 MA's), (Start: 18 @48496 has 163 MA's), (44, 48289), (45, 48286), (47, 48262), (50, 48232), (57, 48106), (61, 48085), (63, 48064), (74, 47974), (81, 47899), (82, 47887), (89, 47860),

Gene: Melc17_55 Start: 48814, Stop: 48134, Start Num: 18
Candidate Starts for Melc17_55:
(Start: 14 @48823 has 5 MA's), (Start: 18 @48814 has 163 MA's), (44, 48607), (45, 48604), (47, 48580), (50, 48550), (57, 48424), (61, 48403), (63, 48382), (74, 48292), (81, 48217), (82, 48205), (89, 48178),

Gene: Mesh1_56 Start: 48516, Stop: 47836, Start Num: 18
Candidate Starts for Mesh1_56:
(3, 48768), (4, 48759), (5, 48735), (6, 48705), (7, 48654), (8, 48615), (Start: 14 @48525 has 5 MA's), (Start: 18 @48516 has 163 MA's), (38, 48354), (41, 48339), (45, 48306), (47, 48282), (50, 48252), (54, 48174), (57, 48126), (61, 48105), (63, 48084), (74, 47994), (78, 47958), (81, 47919), (82, 47907), (89, 47880),

Gene: MitKao_55 Start: 47994, Stop: 47314, Start Num: 18
Candidate Starts for MitKao_55:
(3, 48246), (4, 48237), (5, 48213), (6, 48183), (7, 48132), (8, 48093), (Start: 14 @48003 has 5 MA's), (Start: 18 @47994 has 163 MA's), (44, 47787), (45, 47784), (47, 47760), (50, 47730), (54, 47652), (57, 47604), (61, 47583), (74, 47472), (78, 47436), (81, 47397), (82, 47385), (89, 47358),

Gene: Morgushi_55 Start: 47983, Stop: 47303, Start Num: 18
Candidate Starts for Morgushi_55:
(3, 48235), (4, 48226), (5, 48202), (6, 48172), (7, 48121), (8, 48082), (Start: 14 @47992 has 5 MA's), (Start: 18 @47983 has 163 MA's), (44, 47776), (45, 47773), (47, 47749), (50, 47719), (54, 47641), (57, 47593), (61, 47572), (74, 47461), (78, 47425), (81, 47386), (82, 47374), (89, 47347),

Gene: Morty_56 Start: 48505, Stop: 47825, Start Num: 18
Candidate Starts for Morty_56:
(Start: 14 @48514 has 5 MA's), (Start: 18 @48505 has 163 MA's), (44, 48298), (45, 48295), (47, 48271), (50, 48241), (57, 48115), (61, 48094), (63, 48073), (74, 47983), (81, 47908), (82, 47896), (89, 47869),

Gene: Mosaic_54 Start: 47988, Stop: 47308, Start Num: 18
Candidate Starts for Mosaic_54:

(3, 48240), (4, 48231), (5, 48207), (6, 48177), (7, 48126), (8, 48087), (Start: 14 @47997 has 5 MA's), (Start: 18 @47988 has 163 MA's), (44, 47781), (45, 47778), (47, 47754), (50, 47724), (54, 47646), (57, 47598), (61, 47577), (74, 47466), (78, 47430), (81, 47391), (82, 47379), (89, 47352),

Gene: MrPhizzler_57 Start: 48450, Stop: 47770, Start Num: 18
Candidate Starts for MrPhizzler_57:
(3, 48702), (4, 48693), (5, 48669), (6, 48639), (7, 48588), (8, 48549), (Start: 14 @48459 has 5 MA's), (Start: 18 @48450 has 163 MA's), (44, 48243), (45, 48240), (47, 48216), (50, 48186), (54, 48108), (57, 48060), (61, 48039), (74, 47928), (78, 47892), (81, 47853), (82, 47841), (89, 47814),

Gene: Mulan_55 Start: 48222, Stop: 47542, Start Num: 18
Candidate Starts for Mulan_55:
(Start: 14 @48231 has 5 MA's), (Start: 18 @48222 has 163 MA's), (44, 48015), (45, 48012), (47, 47988), (50, 47958), (57, 47832), (61, 47811), (63, 47790), (74, 47700), (81, 47625), (82, 47613), (89, 47586),

Gene: Murdoc_54 Start: 47984, Stop: 47307, Start Num: 18
Candidate Starts for Murdoc_54:
(Start: 14 @47993 has 5 MA's), (Start: 18 @47984 has 163 MA's), (44, 47777), (45, 47774), (47, 47750), (50, 47720), (57, 47594), (61, 47573), (63, 47552), (74, 47462), (78, 47426), (81, 47387), (82, 47375), (89, 47348),

Gene: Nacho_0056 Start: 48499, Stop: 47819, Start Num: 18
Candidate Starts for Nacho_0056:
(Start: 14 @48508 has 5 MA's), (Start: 18 @48499 has 163 MA's), (44, 48292), (45, 48289), (47, 48265), (50, 48235), (57, 48109), (61, 48088), (63, 48067), (74, 47977), (81, 47902), (82, 47890), (89, 47863),

Gene: NatB6_10 Start: 6032, Stop: 6694, Start Num: 16
Candidate Starts for NatB6_10:
(7, 5897), (13, 6005), (Start: 16 @6032 has 18 MA's), (25, 6074), (43, 6233), (44, 6236), (48, 6269), (50, 6293), (61, 6440), (75, 6557), (85, 6647), (87, 6653),

Gene: Newman_54 Start: 47979, Stop: 47302, Start Num: 18
Candidate Starts for Newman_54:
(3, 48231), (4, 48222), (5, 48198), (6, 48168), (7, 48117), (8, 48078), (Start: 14 @47988 has 5 MA's), (Start: 18 @47979 has 163 MA's), (38, 47817), (41, 47802), (45, 47769), (47, 47745), (50, 47715), (54, 47637), (57, 47589), (61, 47568), (63, 47547), (74, 47457), (78, 47421), (81, 47382), (82, 47370), (89, 47343),

Gene: NovumRegina_10 Start: 6385, Stop: 7059, Start Num: 16
Candidate Starts for NovumRegina_10:
(7, 6250), (13, 6358), (Start: 16 @6385 has 18 MA's), (43, 6586), (44, 6589), (50, 6646), (53, 6679), (61, 6790), (75, 6907), (85, 6997),

Gene: Numberten_54 Start: 47974, Stop: 47297, Start Num: 18
Candidate Starts for Numberten_54:
(Start: 14 @47983 has 5 MA's), (Start: 18 @47974 has 163 MA's), (35, 47845), (38, 47812), (41, 47797), (44, 47767), (45, 47764), (47, 47740), (50, 47710), (54, 47632), (57, 47584), (61, 47563), (63, 47542), (74, 47452), (78, 47416), (81, 47377), (82, 47365), (85, 47350), (89, 47338),

Gene: OSmaximus_56 Start: 48538, Stop: 47858, Start Num: 18
Candidate Starts for OSmaximus_56:

(3, 48790), (4, 48781), (5, 48757), (6, 48727), (7, 48676), (8, 48637), (Start: 14 @48547 has 5 MA's), (Start: 18 @48538 has 163 MA's), (38, 48376), (41, 48361), (45, 48328), (47, 48304), (50, 48274), (54, 48196), (57, 48148), (61, 48127), (63, 48106), (74, 48016), (78, 47980), (81, 47941), (82, 47929), (89, 47902),

Gene: Ogopogo_73 Start: 43850, Stop: 44527, Start Num: 18
Candidate Starts for Ogopogo_73:
(Start: 18 @43850 has 163 MA's), (26, 43892), (44, 44051), (45, 44054), (47, 44078), (50, 44108), (54, 44186), (57, 44234), (61, 44255), (74, 44366), (78, 44402), (81, 44441), (82, 44453),

Gene: Okabe_60 Start: 38644, Stop: 39330, Start Num: 18
Candidate Starts for Okabe_60:
(Start: 18 @38644 has 163 MA's), (44, 38854), (45, 38857), (47, 38881), (50, 38911), (54, 38989), (57, 39037), (61, 39058), (74, 39169), (78, 39205), (81, 39244), (82, 39256), (89, 39283),

Gene: Oksu_73 Start: 46299, Stop: 46976, Start Num: 18
Candidate Starts for Oksu_73:
(Start: 18 @46299 has 163 MA's), (26, 46341), (44, 46500), (45, 46503), (47, 46527), (50, 46557), (54, 46635), (57, 46683), (61, 46704), (74, 46815), (78, 46851), (81, 46890), (82, 46902),

Gene: Olive_54 Start: 47964, Stop: 47287, Start Num: 18
Candidate Starts for Olive_54:
(Start: 14 @47973 has 5 MA's), (Start: 18 @47964 has 163 MA's), (35, 47835), (38, 47802), (41, 47787), (44, 47757), (45, 47754), (47, 47730), (50, 47700), (54, 47622), (57, 47574), (61, 47553), (63, 47532), (74, 47442), (78, 47406), (81, 47367), (82, 47355), (89, 47328),

Gene: OliverWalter_54 Start: 47985, Stop: 47308, Start Num: 18
Candidate Starts for OliverWalter_54:
(Start: 14 @47994 has 5 MA's), (Start: 18 @47985 has 163 MA's), (38, 47823), (41, 47808), (45, 47775), (47, 47751), (50, 47721), (54, 47643), (57, 47595), (61, 47574), (63, 47553), (74, 47463), (78, 47427), (81, 47388), (82, 47376), (89, 47349),

Gene: Omniscient_56 Start: 48812, Stop: 48132, Start Num: 18
Candidate Starts for Omniscient_56:
(Start: 14 @48821 has 5 MA's), (Start: 18 @48812 has 163 MA's), (44, 48605), (45, 48602), (47, 48578), (50, 48548), (57, 48422), (61, 48401), (63, 48380), (74, 48290), (81, 48215), (82, 48203), (89, 48176),

Gene: OneBrain_56 Start: 48016, Stop: 47336, Start Num: 18
Candidate Starts for OneBrain_56:
(Start: 14 @48025 has 5 MA's), (Start: 18 @48016 has 163 MA's), (38, 47854), (41, 47839), (45, 47806), (47, 47782), (50, 47752), (54, 47674), (57, 47626), (61, 47605), (63, 47584), (74, 47494), (78, 47458), (81, 47419), (82, 47407), (89, 47380),

Gene: Oosterbaan_55 Start: 48274, Stop: 47594, Start Num: 18
Candidate Starts for Oosterbaan_55:
(Start: 14 @48283 has 5 MA's), (Start: 18 @48274 has 163 MA's), (44, 48067), (45, 48064), (47, 48040), (50, 48010), (57, 47884), (61, 47863), (63, 47842), (74, 47752), (81, 47677), (82, 47665), (89, 47638),

Gene: PG1_56 Start: 48507, Stop: 47827, Start Num: 18
Candidate Starts for PG1_56:

(Start: 14 @48516 has 5 MA's), (Start: 18 @48507 has 163 MA's), (44, 48300), (45, 48297), (47, 48273), (50, 48243), (57, 48117), (61, 48096), (63, 48075), (74, 47985), (81, 47910), (82, 47898), (89, 47871),

Gene: PSonyx_69 Start: 41194, Stop: 40556, Start Num: 17
Candidate Starts for PSonyx_69:
(Start: 17 @41194 has 6 MA's), (34, 41083), (65, 40762), (67, 40753), (68, 40738), (86, 40594),

Gene: Phareon_54 Start: 47671, Stop: 46994, Start Num: 18
Candidate Starts for Phareon_54:
(Start: 14 @47680 has 5 MA's), (Start: 18 @47671 has 163 MA's), (35, 47542), (38, 47509), (41, 47494), (44, 47464), (45, 47461), (47, 47437), (50, 47407), (54, 47329), (57, 47281), (61, 47260), (63, 47239), (74, 47149), (78, 47113), (81, 47074), (82, 47062), (85, 47047), (89, 47035),

Gene: PhatCats2014_56 Start: 48511, Stop: 47831, Start Num: 18
Candidate Starts for PhatCats2014_56:
(Start: 14 @48520 has 5 MA's), (Start: 18 @48511 has 163 MA's), (44, 48304), (45, 48301), (47, 48277), (50, 48247), (57, 48121), (61, 48100), (63, 48079), (74, 47989), (81, 47914), (82, 47902), (89, 47875),

Gene: Phatniss_64 Start: 42165, Stop: 42842, Start Num: 18
Candidate Starts for Phatniss_64:
(Start: 18 @42165 has 163 MA's), (26, 42207), (44, 42366), (45, 42369), (47, 42393), (50, 42423), (54, 42501), (57, 42549), (61, 42570), (74, 42681), (78, 42717), (81, 42756), (82, 42768),

Gene: Phomeo_9 Start: 5606, Stop: 6265, Start Num: 16
Candidate Starts for Phomeo_9:
(7, 5471), (13, 5579), (Start: 16 @5606 has 18 MA's), (43, 5807), (44, 5810), (50, 5867), (53, 5900), (61, 6011), (75, 6128), (85, 6218),

Gene: Phrappuccino_151 Start: 104613, Stop: 105200, Start Num: 24
Candidate Starts for Phrappuccino_151:
(7, 104412), (Start: 24 @104613 has 2 MA's), (31, 104661), (36, 104712), (42, 104757), (53, 104874), (54, 104913), (55, 104919), (58, 104964), (59, 104973), (64, 105012), (74, 105081), (75, 105084), (76, 105087),

Gene: Phunky_54 Start: 47968, Stop: 47291, Start Num: 18
Candidate Starts for Phunky_54:
(Start: 14 @47977 has 5 MA's), (Start: 18 @47968 has 163 MA's), (35, 47839), (38, 47806), (41, 47791), (44, 47761), (45, 47758), (47, 47734), (50, 47704), (54, 47626), (57, 47578), (61, 47557), (63, 47536), (74, 47446), (78, 47410), (81, 47371), (82, 47359), (85, 47344), (89, 47332),

Gene: Piglet_0055 Start: 48493, Stop: 47804, Start Num: 14
Candidate Starts for Piglet_0055:
(Start: 14 @48493 has 5 MA's), (Start: 18 @48484 has 163 MA's), (44, 48277), (45, 48274), (47, 48250), (50, 48220), (57, 48094), (61, 48073), (63, 48052), (74, 47962), (81, 47887), (82, 47875), (89, 47848),

Gene: PinheadLarry_56 Start: 48509, Stop: 47829, Start Num: 18
Candidate Starts for PinheadLarry_56:
(Start: 14 @48518 has 5 MA's), (Start: 18 @48509 has 163 MA's), (44, 48302), (45, 48299), (47, 48275), (50, 48245), (57, 48119), (61, 48098), (63, 48077), (74, 47987), (78, 47951), (81, 47912), (82, 47900), (89, 47873),

Gene: Pipsqueak_54 Start: 47997, Stop: 47320, Start Num: 18
Candidate Starts for Pipsqueak_54:
(Start: 14 @48006 has 5 MA's), (Start: 18 @47997 has 163 MA's), (44, 47790), (45, 47787), (47, 47763), (50, 47733), (57, 47607), (61, 47586), (63, 47565), (74, 47475), (78, 47439), (81, 47400), (82, 47388), (89, 47361),

Gene: Placalicious_55 Start: 48499, Stop: 47819, Start Num: 18
Candidate Starts for Placalicious_55:
(Start: 14 @48508 has 5 MA's), (Start: 18 @48499 has 163 MA's), (44, 48292), (45, 48289), (47, 48265), (50, 48235), (57, 48109), (61, 48088), (63, 48067), (74, 47977), (81, 47902), (82, 47890), (89, 47863),

Gene: Plmatters_54 Start: 47971, Stop: 47294, Start Num: 18
Candidate Starts for Plmatters_54:
(3, 48223), (4, 48214), (5, 48190), (6, 48160), (7, 48109), (8, 48070), (Start: 14 @47980 has 5 MA's), (Start: 18 @47971 has 163 MA's), (35, 47842), (38, 47809), (41, 47794), (44, 47764), (45, 47761), (47, 47737), (50, 47707), (54, 47629), (57, 47581), (61, 47560), (63, 47539), (74, 47449), (78, 47413), (81, 47374), (82, 47362), (85, 47347), (89, 47335),

Gene: Poenanya_66 Start: 43323, Stop: 44000, Start Num: 18
Candidate Starts for Poenanya_66:
(Start: 18 @43323 has 163 MA's), (26, 43365), (44, 43524), (45, 43527), (47, 43551), (50, 43581), (54, 43659), (57, 43707), (61, 43728), (74, 43839), (78, 43875), (81, 43914), (82, 43926),

Gene: Pops_54 Start: 47956, Stop: 47309, Start Num: 18
Candidate Starts for Pops_54:
(2, 48223), (3, 48208), (4, 48199), (5, 48175), (6, 48145), (7, 48094), (8, 48055), (Start: 14 @47965 has 5 MA's), (Start: 18 @47956 has 163 MA's), (28, 47899), (45, 47746), (47, 47722), (50, 47692), (57, 47566), (61, 47545), (63, 47524), (74, 47434), (81, 47389), (82, 47377), (89, 47350),

Gene: Posh_51 Start: 37991, Stop: 38596, Start Num: 20
Candidate Starts for Posh_51:
(Start: 20 @37991 has 7 MA's), (26, 38033), (50, 38228), (51, 38261), (54, 38309), (64, 38402), (75, 38471), (80, 38525),

Gene: Potter_54 Start: 48005, Stop: 47325, Start Num: 18
Candidate Starts for Potter_54:
(3, 48257), (4, 48248), (5, 48224), (6, 48194), (7, 48143), (8, 48104), (Start: 14 @48014 has 5 MA's), (Start: 18 @48005 has 163 MA's), (44, 47798), (45, 47795), (47, 47771), (50, 47741), (54, 47663), (57, 47615), (61, 47594), (74, 47483), (78, 47447), (81, 47408), (82, 47396), (89, 47369),

Gene: ProfessorX_54 Start: 47963, Stop: 47286, Start Num: 18
Candidate Starts for ProfessorX_54:
(Start: 14 @47972 has 5 MA's), (Start: 18 @47963 has 163 MA's), (44, 47756), (45, 47753), (47, 47729), (50, 47699), (54, 47621), (57, 47573), (61, 47552), (63, 47531), (74, 47441), (78, 47405), (81, 47366), (82, 47354), (89, 47327),

Gene: Puhltonio_55 Start: 48279, Stop: 47599, Start Num: 18
Candidate Starts for Puhltonio_55:
(3, 48531), (4, 48522), (5, 48498), (6, 48468), (7, 48417), (8, 48378), (Start: 14 @48288 has 5 MA's), (Start: 18 @48279 has 163 MA's), (44, 48072), (45, 48069), (47, 48045), (50, 48015), (54, 47937), (57, 47889), (61, 47868), (74, 47757), (78, 47721), (81, 47682), (82, 47670), (89, 47643),

Gene: QueenBeane_55 Start: 48269, Stop: 47589, Start Num: 18
Candidate Starts for QueenBeane_55:
(Start: 14 @48278 has 5 MA's), (Start: 18 @48269 has 163 MA's), (44, 48062), (45, 48059), (47, 48035), (50, 48005), (57, 47879), (61, 47858), (63, 47837), (74, 47747), (81, 47672), (82, 47660), (89, 47633),

Gene: RedRaider_13 Start: 6700, Stop: 7374, Start Num: 19
Candidate Starts for RedRaider_13:
(12, 6646), (Start: 19 @6700 has 2 MA's), (43, 6901), (44, 6904), (45, 6907), (50, 6961), (61, 7105), (69, 7171), (73, 7198), (75, 7222), (85, 7312),

Gene: RedRaider89_55 Start: 48196, Stop: 47519, Start Num: 18
Candidate Starts for RedRaider89_55:
(Start: 14 @48205 has 5 MA's), (Start: 18 @48196 has 163 MA's), (38, 48034), (41, 48019), (45, 47986), (47, 47962), (50, 47932), (54, 47854), (57, 47806), (61, 47785), (63, 47764), (74, 47674), (78, 47638), (81, 47599), (82, 47587), (89, 47560),

Gene: Riverton_54 Start: 47990, Stop: 47313, Start Num: 18
Candidate Starts for Riverton_54:
(Start: 14 @47999 has 5 MA's), (Start: 18 @47990 has 163 MA's), (38, 47828), (41, 47813), (45, 47780), (47, 47756), (50, 47726), (54, 47648), (57, 47600), (61, 47579), (63, 47558), (74, 47468), (78, 47432), (81, 47393), (82, 47381), (87, 47360), (89, 47354),

Gene: Robyn_54 Start: 47908, Stop: 47228, Start Num: 18
Candidate Starts for Robyn_54:
(3, 48160), (4, 48151), (5, 48127), (6, 48097), (7, 48046), (8, 48007), (Start: 14 @47917 has 5 MA's), (Start: 18 @47908 has 163 MA's), (38, 47746), (41, 47731), (45, 47698), (47, 47674), (50, 47644), (54, 47566), (57, 47518), (61, 47497), (63, 47476), (74, 47386), (78, 47350), (81, 47311), (82, 47299), (89, 47272),

Gene: Roscoe_55 Start: 48208, Stop: 47531, Start Num: 18
Candidate Starts for Roscoe_55:
(Start: 14 @48217 has 5 MA's), (Start: 18 @48208 has 163 MA's), (35, 48079), (38, 48046), (41, 48031), (44, 48001), (45, 47998), (47, 47974), (50, 47944), (54, 47866), (57, 47818), (61, 47797), (63, 47776), (74, 47686), (78, 47650), (81, 47611), (82, 47599), (89, 47572),

Gene: Roy17_54 Start: 47662, Stop: 46985, Start Num: 18
Candidate Starts for Roy17_54:
(Start: 14 @47671 has 5 MA's), (Start: 18 @47662 has 163 MA's), (35, 47533), (38, 47500), (41, 47485), (44, 47455), (45, 47452), (47, 47428), (50, 47398), (54, 47320), (57, 47272), (61, 47251), (63, 47230), (74, 47140), (78, 47104), (81, 47065), (82, 47053), (85, 47038), (89, 47026),

Gene: Samaymay_55 Start: 48269, Stop: 47589, Start Num: 18
Candidate Starts for Samaymay_55:
(Start: 14 @48278 has 5 MA's), (Start: 18 @48269 has 163 MA's), (44, 48062), (45, 48059), (47, 48035), (50, 48005), (57, 47879), (61, 47858), (63, 47837), (74, 47747), (81, 47672), (82, 47660), (89, 47633),

Gene: SassyCat97_54 Start: 47996, Stop: 47316, Start Num: 18
Candidate Starts for SassyCat97_54:
(3, 48248), (4, 48239), (5, 48215), (6, 48185), (7, 48134), (8, 48095), (Start: 14 @48005 has 5 MA's), (Start: 18 @47996 has 163 MA's), (44, 47789), (45, 47786), (47, 47762), (50, 47732), (54, 47654), (57,

47606), (61, 47585), (74, 47474), (78, 47438), (81, 47399), (82, 47387), (89, 47360),

Gene: Schadenfreude_54 Start: 47755, Stop: 47078, Start Num: 18
Candidate Starts for Schadenfreude_54:
(Start: 14 @47764 has 5 MA's), (Start: 18 @47755 has 163 MA's), (38, 47593), (41, 47578), (45, 47545), (47, 47521), (50, 47491), (54, 47413), (57, 47365), (61, 47344), (63, 47323), (74, 47233), (78, 47197), (81, 47158), (82, 47146), (87, 47125), (89, 47119),

Gene: Serendipity_55 Start: 48293, Stop: 47613, Start Num: 18
Candidate Starts for Serendipity_55:
(3, 48545), (4, 48536), (5, 48512), (6, 48482), (7, 48431), (8, 48392), (Start: 14 @48302 has 5 MA's), (Start: 18 @48293 has 163 MA's), (44, 48086), (45, 48083), (47, 48059), (50, 48029), (54, 47951), (57, 47903), (61, 47882), (74, 47771), (78, 47735), (81, 47696), (82, 47684), (89, 47657),

Gene: Serpentine_0055 Start: 48376, Stop: 47696, Start Num: 18
Candidate Starts for Serpentine_0055:
(Start: 14 @48385 has 5 MA's), (Start: 18 @48376 has 163 MA's), (44, 48169), (45, 48166), (47, 48142), (50, 48112), (57, 47986), (61, 47965), (63, 47944), (74, 47854), (81, 47779), (82, 47767), (89, 47740),

Gene: Settecandela_151 Start: 104613, Stop: 105200, Start Num: 24
Candidate Starts for Settecandela_151:
(7, 104412), (Start: 24 @104613 has 2 MA's), (31, 104661), (36, 104712), (42, 104757), (53, 104874), (54, 104913), (55, 104919), (58, 104964), (59, 104973), (64, 105012), (74, 105081), (75, 105084), (76, 105087),

Gene: SilverBell_54 Start: 48014, Stop: 47337, Start Num: 18
Candidate Starts for SilverBell_54:
(Start: 14 @48023 has 5 MA's), (Start: 18 @48014 has 163 MA's), (44, 47807), (45, 47804), (47, 47780), (50, 47750), (57, 47624), (61, 47603), (63, 47582), (74, 47492), (78, 47456), (81, 47417), (82, 47405), (89, 47378),

Gene: SilverChicken_76 Start: 42471, Stop: 43148, Start Num: 18
Candidate Starts for SilverChicken_76:
(Start: 18 @42471 has 163 MA's), (26, 42513), (44, 42672), (45, 42675), (47, 42699), (50, 42729), (54, 42807), (57, 42855), (61, 42876), (74, 42987), (78, 43023), (81, 43062), (82, 43074),

Gene: SirBeauregard_56 Start: 48508, Stop: 47819, Start Num: 14
Candidate Starts for SirBeauregard_56:
(Start: 14 @48508 has 5 MA's), (Start: 18 @48499 has 163 MA's), (44, 48292), (45, 48289), (47, 48265), (50, 48235), (57, 48109), (61, 48088), (63, 48067), (74, 47977), (81, 47902), (82, 47890), (89, 47863),

Gene: Soile_56 Start: 48517, Stop: 47837, Start Num: 18
Candidate Starts for Soile_56:
(Start: 14 @48526 has 5 MA's), (Start: 18 @48517 has 163 MA's), (44, 48310), (45, 48307), (47, 48283), (50, 48253), (57, 48127), (61, 48106), (63, 48085), (74, 47995), (81, 47920), (82, 47908), (89, 47881),

Gene: Solosis_54 Start: 47999, Stop: 47310, Start Num: 14
Candidate Starts for Solosis_54:
(3, 48242), (4, 48233), (5, 48209), (6, 48179), (7, 48128), (8, 48089), (Start: 14 @47999 has 5 MA's), (Start: 18 @47990 has 163 MA's), (44, 47783), (45, 47780), (47, 47756), (50, 47726), (54, 47648), (57,

47600), (61, 47579), (74, 47468), (78, 47432), (81, 47393), (82, 47381), (89, 47354),

Gene: Sophia_54 Start: 47993, Stop: 47304, Start Num: 14
Candidate Starts for Sophia_54:
(3, 48236), (4, 48227), (5, 48203), (6, 48173), (7, 48122), (8, 48083), (Start: 14 @47993 has 5 MA's), (Start: 18 @47984 has 163 MA's), (44, 47777), (45, 47774), (47, 47750), (50, 47720), (57, 47594), (61, 47573), (63, 47552), (74, 47462), (78, 47426), (81, 47387), (82, 47375), (89, 47348),

Gene: Sparkdehlily_73 Start: 43625, Stop: 44299, Start Num: 18
Candidate Starts for Sparkdehlily_73:
(Start: 18 @43625 has 163 MA's), (26, 43667), (44, 43826), (45, 43829), (47, 43853), (50, 43883), (54, 43961), (57, 44009), (61, 44030), (74, 44141), (78, 44177), (81, 44216), (82, 44228),

Gene: Sparky_63 Start: 43334, Stop: 44023, Start Num: 17
Candidate Starts for Sparky_63:
(10, 43268), (Start: 17 @43334 has 6 MA's), (30, 43418), (45, 43550), (47, 43574), (50, 43604), (63, 43775), (81, 43937), (82, 43949), (89, 43976),

Gene: Spartacus_68 Start: 42822, Stop: 43505, Start Num: 16
Candidate Starts for Spartacus_68:
(Start: 16 @42822 has 18 MA's), (30, 42900), (39, 42990), (45, 43032), (47, 43056), (50, 43086), (63, 43257), (81, 43419), (82, 43431),

Gene: Spartan300_54 Start: 47968, Stop: 47291, Start Num: 18
Candidate Starts for Spartan300_54:
(Start: 14 @47977 has 5 MA's), (Start: 18 @47968 has 163 MA's), (35, 47839), (38, 47806), (41, 47791), (44, 47761), (45, 47758), (47, 47734), (50, 47704), (54, 47626), (57, 47578), (61, 47557), (63, 47536), (74, 47446), (78, 47410), (81, 47371), (82, 47359), (89, 47332),

Gene: Squid_55 Start: 47996, Stop: 47316, Start Num: 18
Candidate Starts for Squid_55:
(3, 48248), (4, 48239), (5, 48215), (6, 48185), (7, 48134), (8, 48095), (Start: 14 @48005 has 5 MA's), (Start: 18 @47996 has 163 MA's), (44, 47789), (45, 47786), (47, 47762), (50, 47732), (54, 47654), (57, 47606), (61, 47585), (74, 47474), (78, 47438), (81, 47399), (82, 47387), (89, 47360),

Gene: Surely_55 Start: 48286, Stop: 47606, Start Num: 18
Candidate Starts for Surely_55:
(3, 48538), (4, 48529), (5, 48505), (6, 48475), (7, 48424), (8, 48385), (Start: 14 @48295 has 5 MA's), (Start: 18 @48286 has 163 MA's), (44, 48079), (45, 48076), (47, 48052), (50, 48022), (54, 47944), (57, 47896), (61, 47875), (74, 47764), (78, 47728), (81, 47689), (82, 47677), (89, 47650),

Gene: TDanisky_73 Start: 43625, Stop: 44299, Start Num: 18
Candidate Starts for TDanisky_73:
(Start: 18 @43625 has 163 MA's), (26, 43667), (44, 43826), (45, 43829), (47, 43853), (50, 43883), (54, 43961), (57, 44009), (61, 44030), (74, 44141), (78, 44177), (81, 44216), (82, 44228),

Gene: TPA4_59 Start: 41974, Stop: 42615, Start Num: 19
Candidate Starts for TPA4_59:
(11, 41911), (Start: 17 @41968 has 6 MA's), (Start: 19 @41974 has 2 MA's), (26, 42043), (29, 42064), (37, 42154), (44, 42193), (50, 42238), (54, 42301), (64, 42400), (75, 42490), (77, 42520), (81, 42553), (84, 42577),

Gene: Taj_71 Start: 44380, Stop: 45054, Start Num: 18

Candidate Starts for Taj_71:
(Start: 18 @44380 has 163 MA's), (26, 44422), (44, 44581), (45, 44584), (47, 44608), (50, 44638), (54, 44716), (57, 44764), (61, 44785), (74, 44896), (78, 44932), (81, 44971), (82, 44983),

Gene: TallGrassMM_55 Start: 47900, Stop: 47220, Start Num: 18
Candidate Starts for TallGrassMM_55:
(3, 48152), (4, 48143), (5, 48119), (6, 48089), (7, 48038), (8, 47999), (Start: 14 @47909 has 5 MA's), (Start: 18 @47900 has 163 MA's), (44, 47693), (45, 47690), (47, 47666), (50, 47636), (54, 47558), (57, 47510), (61, 47489), (74, 47378), (78, 47342), (81, 47303), (82, 47291), (89, 47264),

Gene: Taotie_71 Start: 39774, Stop: 39136, Start Num: 17
Candidate Starts for Taotie_71:
(Start: 17 @39774 has 6 MA's), (34, 39663), (36, 39639), (65, 39342), (67, 39333), (68, 39318), (86, 39174),

Gene: Telesworld_53 Start: 48063, Stop: 47170, Start Num: 18
Candidate Starts for Telesworld_53:
(3, 48315), (4, 48306), (5, 48282), (6, 48252), (7, 48201), (8, 48162), (Start: 14 @48072 has 5 MA's), (Start: 18 @48063 has 163 MA's), (44, 47856), (45, 47853), (47, 47829), (50, 47799), (54, 47721), (57, 47673), (61, 47652), (63, 47631), (74, 47541), (81, 47466), (82, 47454), (93, 47385),

Gene: Thora_55 Start: 48282, Stop: 47602, Start Num: 18
Candidate Starts for Thora_55:
(Start: 14 @48291 has 5 MA's), (Start: 18 @48282 has 163 MA's), (44, 48075), (45, 48072), (47, 48048), (50, 48018), (57, 47892), (61, 47871), (63, 47850), (74, 47760), (81, 47685), (82, 47673), (89, 47646),

Gene: ThreeOh3D2_56 Start: 48502, Stop: 47822, Start Num: 18
Candidate Starts for ThreeOh3D2_56:
(Start: 14 @48511 has 5 MA's), (Start: 18 @48502 has 163 MA's), (44, 48295), (45, 48292), (47, 48268), (50, 48238), (57, 48112), (61, 48091), (63, 48070), (74, 47980), (81, 47905), (82, 47893), (89, 47866),

Gene: Timmi_54 Start: 47985, Stop: 47305, Start Num: 18
Candidate Starts for Timmi_54:
(3, 48237), (4, 48228), (5, 48204), (6, 48174), (7, 48123), (8, 48084), (Start: 14 @47994 has 5 MA's), (Start: 18 @47985 has 163 MA's), (44, 47778), (45, 47775), (47, 47751), (50, 47721), (54, 47643), (57, 47595), (61, 47574), (74, 47463), (78, 47427), (81, 47388), (82, 47376), (89, 47349),

Gene: TomBombadil_55 Start: 48270, Stop: 47590, Start Num: 18
Candidate Starts for TomBombadil_55:
(3, 48522), (4, 48513), (5, 48489), (6, 48459), (7, 48408), (8, 48369), (Start: 14 @48279 has 5 MA's), (Start: 18 @48270 has 163 MA's), (44, 48063), (45, 48060), (47, 48036), (50, 48006), (54, 47928), (57, 47880), (61, 47859), (74, 47748), (78, 47712), (81, 47673), (82, 47661), (89, 47634),

Gene: Tomlarah_56 Start: 48797, Stop: 48117, Start Num: 18
Candidate Starts for Tomlarah_56:
(Start: 14 @48806 has 5 MA's), (Start: 18 @48797 has 163 MA's), (44, 48590), (45, 48587), (47, 48563), (50, 48533), (57, 48407), (61, 48386), (63, 48365), (74, 48275), (81, 48200), (82, 48188), (89, 48161),

Gene: TooFast2Furius_55 Start: 48209, Stop: 47532, Start Num: 18
Candidate Starts for TooFast2Furius_55:

(Start: 14 @48218 has 5 MA's), (Start: 18 @48209 has 163 MA's), (38, 48047), (41, 48032), (45, 47999), (47, 47975), (50, 47945), (54, 47867), (57, 47819), (61, 47798), (63, 47777), (74, 47687), (78, 47651), (81, 47612), (82, 47600), (89, 47573),

Gene: Tootsieroll_66 Start: 42088, Stop: 42765, Start Num: 18
Candidate Starts for Tootsieroll_66:
(Start: 18 @42088 has 163 MA's), (26, 42130), (44, 42289), (45, 42292), (47, 42316), (50, 42346), (54, 42424), (57, 42472), (61, 42493), (74, 42604), (78, 42640), (81, 42679), (82, 42691),

Gene: Toron_74 Start: 45951, Stop: 46631, Start Num: 14
Candidate Starts for Toron_74:
(Start: 14 @45951 has 5 MA's), (26, 46008), (29, 46026), (30, 46035), (39, 46125), (45, 46167), (47, 46191), (50, 46221), (63, 46392), (81, 46554), (82, 46566), (88, 46590), (89, 46593),

Gene: Tracker_10 Start: 5745, Stop: 6419, Start Num: 16
Candidate Starts for Tracker_10:
(7, 5610), (13, 5718), (Start: 16 @5745 has 18 MA's), (43, 5946), (44, 5949), (50, 6006), (53, 6039), (61, 6150), (75, 6267), (85, 6357),

Gene: Triad_55 Start: 47197, Stop: 46517, Start Num: 18
Candidate Starts for Triad_55:
(3, 47449), (4, 47440), (5, 47416), (6, 47386), (7, 47335), (8, 47296), (Start: 14 @47206 has 5 MA's), (Start: 18 @47197 has 163 MA's), (38, 47035), (41, 47020), (45, 46987), (47, 46963), (50, 46933), (54, 46855), (57, 46807), (61, 46786), (63, 46765), (74, 46675), (78, 46639), (81, 46600), (82, 46588), (89, 46561),

Gene: UAch1_54 Start: 48022, Stop: 47345, Start Num: 18
Candidate Starts for UAch1_54:
(3, 48274), (4, 48265), (5, 48241), (6, 48211), (7, 48160), (8, 48121), (Start: 14 @48031 has 5 MA's), (Start: 18 @48022 has 163 MA's), (38, 47860), (41, 47845), (45, 47812), (47, 47788), (50, 47758), (54, 47680), (57, 47632), (61, 47611), (63, 47590), (74, 47500), (78, 47464), (81, 47425), (82, 47413), (89, 47386),

Gene: UncleHowie_54 Start: 47697, Stop: 47020, Start Num: 18
Candidate Starts for UncleHowie_54:
(Start: 14 @47706 has 5 MA's), (Start: 18 @47697 has 163 MA's), (44, 47490), (45, 47487), (47, 47463), (50, 47433), (57, 47307), (61, 47286), (63, 47265), (74, 47175), (78, 47139), (81, 47100), (82, 47088), (89, 47061),

Gene: UncleRicky_65 Start: 42413, Stop: 43090, Start Num: 18
Candidate Starts for UncleRicky_65:
(Start: 18 @42413 has 163 MA's), (26, 42455), (44, 42614), (45, 42617), (47, 42641), (50, 42671), (54, 42749), (57, 42797), (61, 42818), (74, 42929), (78, 42965), (81, 43004), (82, 43016),

Gene: Usavi_55 Start: 48365, Stop: 47685, Start Num: 18
Candidate Starts for Usavi_55:
(Start: 14 @48374 has 5 MA's), (Start: 18 @48365 has 163 MA's), (44, 48158), (45, 48155), (47, 48131), (50, 48101), (57, 47975), (61, 47954), (63, 47933), (74, 47843), (81, 47768), (82, 47756), (89, 47729),

Gene: Vaishali24_53 Start: 47657, Stop: 46980, Start Num: 18
Candidate Starts for Vaishali24_53:

(3, 47909), (4, 47900), (5, 47876), (6, 47846), (7, 47795), (8, 47756), (Start: 14 @47666 has 5 MA's), (Start: 18 @47657 has 163 MA's), (38, 47495), (41, 47480), (45, 47447), (47, 47423), (50, 47393), (54, 47315), (57, 47267), (61, 47246), (63, 47225), (74, 47135), (78, 47099), (81, 47060), (82, 47048), (89, 47021),

Gene: Valjean_54 Start: 47978, Stop: 47301, Start Num: 18
Candidate Starts for Valjean_54:
(Start: 14 @47987 has 5 MA's), (Start: 18 @47978 has 163 MA's), (35, 47849), (38, 47816), (41, 47801), (44, 47771), (45, 47768), (47, 47744), (50, 47714), (54, 47636), (57, 47588), (61, 47567), (63, 47546), (74, 47456), (78, 47420), (81, 47381), (82, 47369), (89, 47342),

Gene: Vaticameos_52 Start: 46488, Stop: 45808, Start Num: 18
Candidate Starts for Vaticameos_52:
(Start: 14 @46497 has 5 MA's), (Start: 18 @46488 has 163 MA's), (44, 46281), (45, 46278), (47, 46254), (50, 46224), (57, 46098), (61, 46077), (63, 46056), (74, 45966), (81, 45891), (82, 45879), (89, 45852),

Gene: Vista_54 Start: 47998, Stop: 47321, Start Num: 18
Candidate Starts for Vista_54:
(3, 48250), (4, 48241), (5, 48217), (6, 48187), (7, 48136), (8, 48097), (Start: 14 @48007 has 5 MA's), (Start: 18 @47998 has 163 MA's), (44, 47791), (45, 47788), (47, 47764), (50, 47734), (57, 47608), (61, 47587), (63, 47566), (74, 47476), (78, 47440), (81, 47401), (82, 47389), (89, 47362),

Gene: Vortex_55 Start: 47980, Stop: 47300, Start Num: 18
Candidate Starts for Vortex_55:
(3, 48232), (4, 48223), (5, 48199), (6, 48169), (7, 48118), (8, 48079), (Start: 14 @47989 has 5 MA's), (Start: 18 @47980 has 163 MA's), (44, 47773), (45, 47770), (47, 47746), (50, 47716), (54, 47638), (57, 47590), (61, 47569), (74, 47458), (78, 47422), (81, 47383), (82, 47371), (89, 47344),

Gene: Waterdiva_55 Start: 48359, Stop: 47679, Start Num: 18
Candidate Starts for Waterdiva_55:
(Start: 14 @48368 has 5 MA's), (Start: 18 @48359 has 163 MA's), (44, 48152), (45, 48149), (47, 48125), (50, 48095), (57, 47969), (61, 47948), (63, 47927), (74, 47837), (81, 47762), (82, 47750), (89, 47723),

Gene: Wee_71 Start: 44456, Stop: 45130, Start Num: 18
Candidate Starts for Wee_71:
(Start: 18 @44456 has 163 MA's), (26, 44498), (44, 44657), (45, 44660), (47, 44684), (50, 44714), (54, 44792), (57, 44840), (61, 44861), (74, 44972), (78, 45008), (81, 45047), (82, 45059),

Gene: Weher20_55 Start: 48803, Stop: 48123, Start Num: 18
Candidate Starts for Weher20_55:
(Start: 14 @48812 has 5 MA's), (Start: 18 @48803 has 163 MA's), (44, 48596), (45, 48593), (47, 48569), (50, 48539), (57, 48413), (61, 48392), (63, 48371), (74, 48281), (81, 48206), (82, 48194), (89, 48167),

Gene: Wheezy_10 Start: 6003, Stop: 6677, Start Num: 16
Candidate Starts for Wheezy_10:
(7, 5868), (13, 5976), (Start: 16 @6003 has 18 MA's), (43, 6204), (44, 6207), (50, 6264), (53, 6297), (61, 6408), (75, 6525), (85, 6615),

Gene: WillSterrel_67 Start: 43939, Stop: 44616, Start Num: 18
Candidate Starts for WillSterrel_67:

(Start: 18 @43939 has 163 MA's), (26, 43981), (44, 44140), (45, 44143), (47, 44167), (50, 44197), (54, 44275), (57, 44323), (61, 44344), (74, 44455), (78, 44491), (81, 44530), (82, 44542),

Gene: Windsor_55 Start: 48503, Stop: 47823, Start Num: 18
Candidate Starts for Windsor_55:
(Start: 14 @48512 has 5 MA's), (Start: 18 @48503 has 163 MA's), (44, 48296), (45, 48293), (47, 48269), (50, 48239), (57, 48113), (61, 48092), (63, 48071), (74, 47981), (81, 47906), (82, 47894), (89, 47867),

Gene: Xavier_54 Start: 47996, Stop: 47307, Start Num: 14
Candidate Starts for Xavier_54:
(3, 48239), (4, 48230), (5, 48206), (6, 48176), (7, 48125), (8, 48086), (Start: 14 @47996 has 5 MA's), (Start: 18 @47987 has 163 MA's), (44, 47780), (45, 47777), (47, 47753), (50, 47723), (54, 47645), (57, 47597), (61, 47576), (74, 47465), (78, 47429), (81, 47390), (82, 47378), (89, 47351),

Gene: Zaider_55 Start: 48222, Stop: 47545, Start Num: 18
Candidate Starts for Zaider_55:
(Start: 14 @48231 has 5 MA's), (Start: 18 @48222 has 163 MA's), (35, 48093), (38, 48060), (41, 48045), (44, 48015), (45, 48012), (47, 47988), (50, 47958), (54, 47880), (57, 47832), (61, 47811), (63, 47790), (74, 47700), (78, 47664), (81, 47625), (82, 47613), (89, 47586),

Gene: Zelda_55 Start: 48324, Stop: 47644, Start Num: 18
Candidate Starts for Zelda_55:
(2, 48591), (3, 48576), (4, 48567), (5, 48543), (6, 48513), (7, 48462), (8, 48423), (Start: 14 @48333 has 5 MA's), (Start: 18 @48324 has 163 MA's), (44, 48117), (45, 48114), (47, 48090), (50, 48060), (57, 47934), (61, 47913), (63, 47892), (74, 47802), (81, 47727), (82, 47715), (89, 47688),

Gene: Zenteno07_58 Start: 47935, Stop: 47234, Start Num: 17
Candidate Starts for Zenteno07_58:
(1, 48472), (10, 48004), (Start: 17 @47935 has 6 MA's), (21, 47920), (23, 47890), (50, 47668), (53, 47632), (62, 47506), (71, 47437), (82, 47308), (83, 47302), (89, 47281),