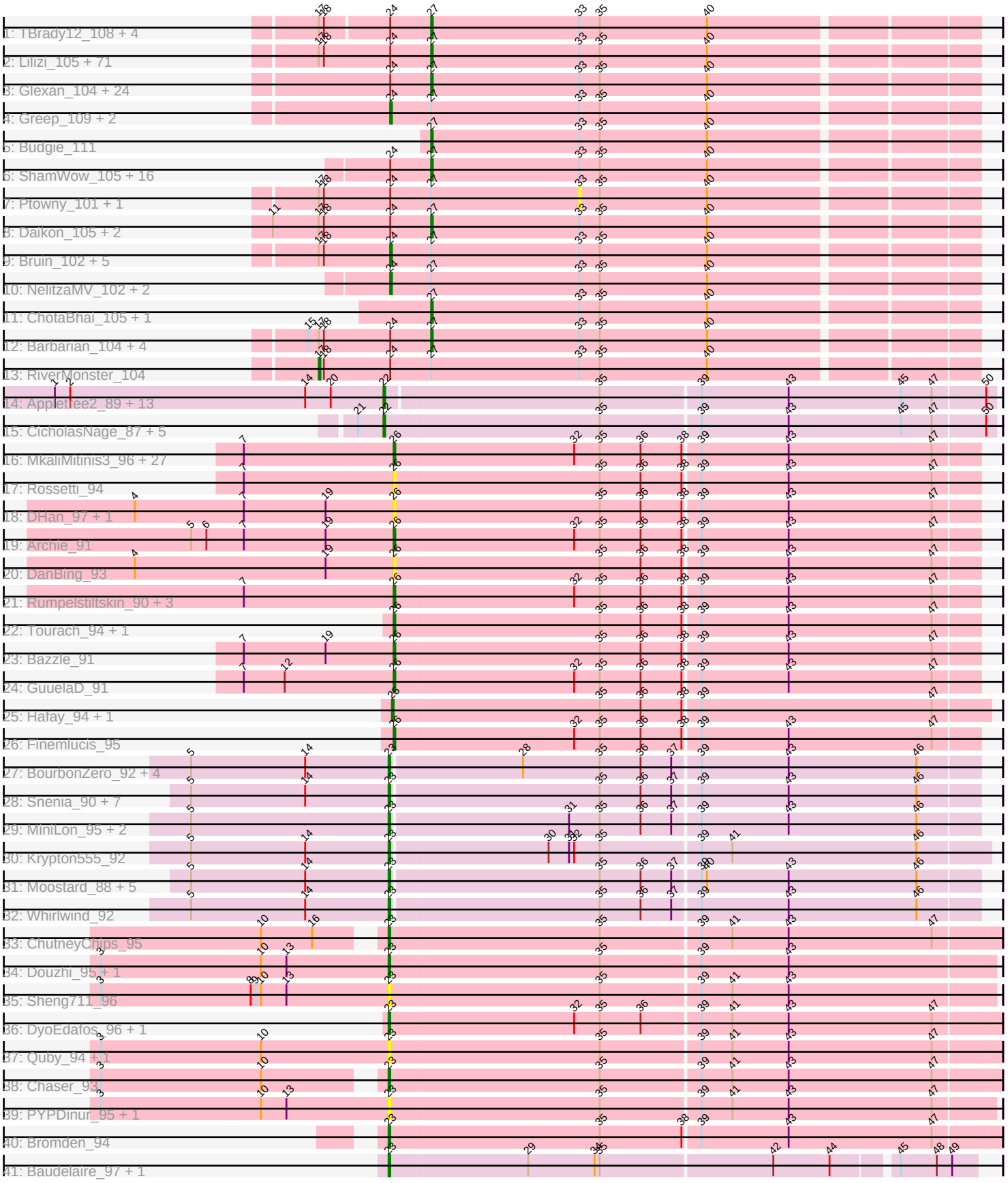
Pham 343598


1: TBrady12_108 + 4
2: Lilizi_105 + 71
3: Glexan_104 + 24
4: Greep_109 + 2
5: Budgie_111
6: ShamWow_105 + 16
7: Ptowny_101 + 1
8: Daikon_105 + 2
9: Bruin_102 + 5
10: NelitzaMV_102 + 2
11: ChotaBhai_105 + 1
12: Barbarian_104 + 4
13: RiverMonster_104
14: Appletree2_89 + 13
15: CicholasNage_87 + 5
16: MkaliMitinis3_96 + 27
17: Rossetti_94
18: DHan_97 + 1
19: Archie_91
20: DanBing_93
21: Rumpelstiltskin_90 + 3
22: Tourach_94 + 1
23: Bazzle_91
24: GuuelaD_91
25: Hafay_94 + 1
26: Finemlucis_95
27: BourbonZero_92 + 4
28: Snenia_90 + 7
29: MiniLon_95 + 2
30: Krypton555_92
31: Moostard_88 + 5
32: Whirlwind_92
33: ChutneyChips_95
34: Douzhi_95 + 1
35: Sheng711_96
36: DyoEdafos_96 + 1
37: Quby_94 + 1
38: Chaser_93
39: PYPDinur_95 + 1
40: Bromden_94
41: Baudelaire_97 + 1

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 343598 Report

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

Pham number 343598 has 247 members, 35 are drafts.

Phages represented in each track:
• Track 1 : TBrady12_108, Lilpickle_104, Elite2014_104, Thimble_107, ChosenOne_105
• Track 2 : Lilizi_105, Bench_107, JeTaime_103, Hopey_105, Paperbeatsrock_104, Stark_105, Emmina_105, Contagion_101, Cjw1_105, Ukulele_99, Pat3_102, Misfit_106, Phaja_103, StolenFromERC_107, HanKaySha_105, Tomaszewski_100, Adnama_109, Nimrod_105, Stank_107, Miniwave_100, Kostya_105, Murphy_104, Dumbo_104, Pumpkin_106, Kimchi_109, Gage_107, Tarkin_104, Wiggin_107, Quallification_106, Thresher_106, 244_105, Maxxinista_106, PaddyBaddy_104, PhatBacter_108, FairyPath_106, FireRed_108, Lilac_106, Argent26_109, Gemini_110, SophKB_103, Terminus_108, Easy2Say_105, Highbury_101, AmericanBeauty_108, Pharsalus_102, Czyszczon1_105, Elph10_104, Teaspoon_105, Filch_106, Willez_100, Kanye_102, Phaux_107, BigBubba_105, Goku_104, Mosby_101, GooberAzure_108, Marshmallow_102, MadamMonkfish_104, Xandras_104, Palpatine_106, IHOP_103, OrionPax_103, NonchalantPear_105, NoSleep_105, Porky_103, Holt_110, ShereKhan_103, Hoonter_108, Phrux_101, Saints25_101, Simpliphy_103, Moldemort_107
• Track 3 : Glexan_104, DrDrey_105, Livelaughbron_106, Nala_107, Murica_108, Inca_102, Bogg_105, Harella_105, Mindy_104, Cactus_109, TeardropMSU_101, ABCat_102, YassJohnny_102, Becksu_103, xkcd_108, Sotrice96_106, Dusk_102, Youngblood_108, Tuco_106, StellaBean_104, Policronamos_107, Icee_106, MPhalcon_106, MISSy_106, HufflyPuff_107
• Track 4 : Greep_109, BadStone_102, FoghornLeghorn_98
• Track 5 : Budgie_111
• Track 6 : ShamWow_105, BilboSwaggins_103, Henry_102, Cookies_102, SirDuracell_105, Buck_106, CrystalP_104, Petra64142_109, Bask21_105, Brewer_101, TeamEdward_105, Rimmer_103, Command613_107, MollyToe_100, Myrale_105, Toto_103, Rakim_106
• Track 7 : Ptowny_101, BugsBunny_104
• Track 8 : Daikon_105, Gator_103, DoctorDiddles_104
• Track 9 : Bruin_102, Manda_106, BaboJay_104, GoldenSpark_109, Sassay_100, Eureka_104
• Track 10 : NelitzaMV_102, Goldilocks_108, StormChicken_106
• Track 11 : ChotaBhai_105, Amao_105
• Track 12 : Barbarian_104, Flypotenuse_101, Traaww1_101, Balomoji_105, Asriel_103
• Track 13 : RiverMonster_104

• Track 14 : Appletree2_89, Silverleaf_89, Zaria_90, AvadaKedavra_90, Calm_91, Rose5_91, DirkDirk_87, JoeDirt_91, Halena_87, MAckerman_88, Enceladus_87, Wamburgrxpress_89, Wyatt2_91, OhShagHennessy_86
• Track 15 : CicholasNage_87, LeBron_89, Poochiewood_88, Tyson_91, UPIE_89, Acquire49_90
• Track 16 : MkaliMitinis3_96, Molivier_85, Breezona_94, OverPar_96, LilDestine_92, Crossroads_94, Faith1_94, Loadrie_93, DrSeegs_93, BigCheese_94, Miley16_94, Wilder_95, Kahlid_93, Lewan_95, Zakai_95, Wigglewiggle_94, Itos_94, Winky_94, Vetrix_92, Sarshaun_95, Soap141_94, Netyap_93, Hiraya_93, Gabriela_94, ChengKai98_93, SoJulia_96, Lynnae_95, BobsGarage_93
• Track 17 : Rossetti_94
• Track 18 : DHan_97, ZhongYanYuan_91
• Track 19 : Archie_91
• Track 20 : DanBing_93
• Track 21 : Rumpelstiltskin_90, Underpass_86, Nicholasp3_94, Gardann_94
• Track 22 : Tourach_94, Baoshan_94
• Track 23 : Bazzle_91
• Track 24 : GuuelaD_91
• Track 25 : Hafay_94, Claus_92
• Track 26 : Finemlucis_95
• Track 27 : BourbonZero_92, Ellson_90, LiyuLake_90, DuncansLeg_91, KirDoubleO7_89
• Track 28 : Snenia_90, MsGreen_91, TriFive_92, Jobypre_91, Red305_92, Lumos_91, Clautastrophe_89, Jubie_90
• Track 29 : MiniLon_95, MiniMac_95, Lolly9_90
• Track 30 : Krypton555_92
• Track 31 : Moostard_88, Bellis_91, Finnry_91, Nicholas_89, Samty_90, Kingsolomon_89
• Track 32 : Whirlwind_92
• Track 33 : ChutneyChips_95
• Track 34 : Douzhi_95, Douge_95
• Track 35 : Sheng711_96
• Track 36 : DyoEdafos_96, Kropertea_90
• Track 37 : Quby_94, FarmResident_95
• Track 38 : Chaser_93
• Track 39 : PYPDinur_95, BrainDrainer_96
• Track 40 : Bromden_94
• Track 41 : Baudelaire_97, Aegeus_97

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

The start number called the most often in the published annotations is 27, it was called in 124 of the 212 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• 244_105, ABCat_102, Adnama_109, Amao_105, AmericanBeauty_108, Argent26_109, Asriel_103, Balomoji_105, Barbarian_104, Bask21_105, Becksu_103, Bench_107, BigBubba_105, BilboSwaggins_103, Bogg_105, Brewer_101, Buck_106, Budgie_111, Cactus_109, ChosenOne_105, ChotaBhai_105, Cjw1_105, Command613_107, Contagion_101, Cookies_102, CrystalP_104, Czyszczon1_105,

Daikon_105, DoctorDiddles_104, DrDrey_105, Dumbo_104, Dusk_102, Easy2Say_105, Elite2014_104, Elph10_104, Emmina_105, FairyPath_106, Filch_106, FireRed_108, Flypotenuse_101, Gage_107, Gator_103, Gemini_110, Glexan_104, Goku_104, GooberAzure_108, HanKaySha_105, Harella_105, Henry_102, Highbury_101, Holt_110, Hoonter_108, Hopey_105, HufflyPuff_107, IHOP_103, Icee_106, Inca_102, JeTaime_103, Kanye_102, Kimchi_109, Kostya_105, Lilac_106, Lilizi_105, Lilpickle_104, Livelaughbron_106, MISSy_106, MPhalcon_106, MadamMonkfish_104, Marshmallow_102, Maxxinista_106, Mindy_104, Miniwave_100, Misfit_106, Moldemort_107, MollyToe_100, Mosby_101, Murica_108, Murphy_104, Myrale_105, Nala_107, Nimrod_105, NoSleep_105, NonchalantPear_105, OrionPax_103, PaddyBaddy_104, Palpatine_106, Paperbeatsrock_104, Pat3_102, Petra64142_109, Phaja_103, Pharsalus_102, PhatBacter_108, Phaux_107, Phrux_101, Policronamos_107, Porky_103, Pumpkin_106, Quallification_106, Rakim_106, Rimmer_103, Saints25_101, ShamWow_105, ShereKhan_103, Simpliphy_103, SirDuracell_105, SophKB_103, Sotrice96_106, Stank_107, Stark_105, StellaBean_104, StolenFromERC_107, TBrady12_108, Tarkin_104, TeamEdward_105, TeardropMSU_101, Teaspoon_105, Terminus_108, Thimble_107, Thresher_106, Tomaszewski_100, Toto_103, Traaww1_101, Tuco_106, Ukulele_99, Wiggin_107, Willez_100, Xandras_104, YassJohnny_102, Youngblood_108, xkcd_108,

Genes that have the "Most Annotated" start but do not call it:
• BaboJay_104, BadStone_102, Bruin_102, BugsBunny_104, Eureka_104, FoghornLeghorn_98, GoldenSpark_109, Goldilocks_108, Greep_109, Manda_106, NelitzaMV_102, Ptowny_101, RiverMonster_104, Sassay_100, StormChicken_106,

Genes that do not have the "Most Annotated" start:
• Acquire49_90, Aegeus_97, Appletree2_89, Archie_91, AvadaKedavra_90, Baoshan_94, Baudelaire_97, Bazzle_91, Bellis_91, BigCheese_94, BobsGarage_93, BourbonZero_92, BrainDrainer_96, Breezona_94, Bromden_94, Calm_91, Chaser_93, ChengKai98_93, ChutneyChips_95, CicholasNage_87, Claus_92, Clautastrophe_89, Crossroads_94, DHan_97, DanBing_93, DirkDirk_87, Douge_95, Douzhi_95, DrSeegs_93, DuncansLeg_91, DyoEdafos_96, Ellson_90, Enceladus_87, Faith1_94, FarmResident_95, Finemlucis_95, Finnry_91, Gabriela_94, Gardann_94, GuuelaD_91, Hafay_94, Halena_87, Hiraya_93, Itos_94, Jobypre_91, JoeDirt_91, Jubie_90, Kahlid_93, Kingsolomon_89, KirDoubleO7_89, Kropertea_90, Krypton555_92, LeBron_89, Lewan_95, LilDestine_92, LiyuLake_90, Loadrie_93, Lolly9_90, Lumos_91, Lynnae_95, MAckerman_88, Miley16_94, MiniLon_95, MiniMac_95, MkaliMitinis3_96, Molivier_85, Moostard_88, MsGreen_91, Netyap_93, Nicholas_89, Nicholasp3_94, OhShagHennessy_86, OverPar_96, PYPDinur_95, Poochiewood_88, Quby_94, Red305_92, Rose5_91, Rossetti_94, Rumpelstiltskin_90, Samty_90, Sarshaun_95, Sheng711_96, Silverleaf_89, Snenia_90, SoJulia_96, Soap141_94, Tourach_94, TriFive_92, Tyson_91, UPIE_89, Underpass_86, Vetrix_92, Wamburgrxpress_89, Whirlwind_92, Wigglewiggle_94, Wilder_95, Winky_94, Wyatt2_91, Zakai_95, Zaria_90, ZhongYanYuan_91,

Summary by start number:

Start 17:
• Found in 94 of 247 (38.1%) of genes in pham
• Manual Annotations of this start: 1 of 212
• Called 1.1% of time when present
• Phage (with cluster) where this start called: RiverMonster_104 (E),

Start 22:
• Found in 20 of 247 (8.1%) of genes in pham
• Manual Annotations of this start: 19 of 212
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Acquire49_90 (L1), Appletree2_89 (L1), AvadaKedavra_90 (L1), Calm_91 (L1), CicholasNage_87 (L1), DirkDirk_87 (L1), Enceladus_87 (L1), Halena_87 (L1), JoeDirt_91 (L1), LeBron_89 (L1), MAckerman_88 (L1), OhShagHennessy_86 (L1), Poochiewood_88 (L1), Rose5_91 (L1), Silverleaf_89 (L1), Tyson_91 (L1), UPIE_89 (L1), Wamburgrxpress_89 (L1), Wyatt2_91 (L1), Zaria_90 (L1),

Start 23:
• Found in 38 of 247 (15.4%) of genes in pham
• Manual Annotations of this start: 27 of 212
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Aegeus_97 (L5), Baudelaire_97 (L5), Bellis_91 (L3), BourbonZero_92 (L3), BrainDrainer_96 (L4), Bromden_94 (L4), Chaser_93 (L4), ChutneyChips_95 (L4), Clautastrophe_89 (L3), Douge_95 (L4), Douzhi_95 (L4), DuncansLeg_91 (L3), DyoEdafos_96 (L4), Ellson_90 (L3), FarmResident_95 (L4), Finnry_91 (L3), Jobypre_91 (L3), Jubie_90 (L3), Kingsolomon_89 (L3), KirDoubleO7_89 (L3), Kropertea_90 (L4), Krypton555_92 (L3), LiyuLake_90 (L3), Lolly9_90 (L3), Lumos_91 (L3), MiniLon_95 (L3), MiniMac_95 (L3), Moostard_88 (L3), MsGreen_91 (L3), Nicholas_89 (L3), PYPDinur_95 (L4), Quby_94 (L4), Red305_92 (L3), Samty_90 (L3), Sheng711_96 (L4), Snenia_90 (L3), TriFive_92 (L3), Whirlwind_92 (L3),

Start 24:
• Found in 142 of 247 (57.5%) of genes in pham
• Manual Annotations of this start: 9 of 212
• Called 8.5% of time when present
• Phage (with cluster) where this start called: BaboJay_104 (E), BadStone_102 (E), Bruin_102 (E), Eureka_104 (E), FoghornLeghorn_98 (E), GoldenSpark_109 (E), Goldilocks_108 (E), Greep_109 (E), Manda_106 (E), NelitzaMV_102 (E), Sassay_100 (E), StormChicken_106 (E),

Start 25:
• Found in 2 of 247 (0.8%) of genes in pham
• Manual Annotations of this start: 1 of 212
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Claus_92 (L2), Hafay_94 (L2),

Start 26:
• Found in 42 of 247 (17.0%) of genes in pham
• Manual Annotations of this start: 31 of 212
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Archie_91 (L2), Baoshan_94 (L2), Bazzle_91 (L2), BigCheese_94 (L2), BobsGarage_93 (L2), Breezona_94 (L2), ChengKai98_93 (L2), Crossroads_94 (L2), DHan_97 (L2), DanBing_93 (L2), DrSeegs_93 (L2), Faith1_94 (L2), Finemlucis_95 (L2), Gabriela_94 (L2), Gardann_94 (L2), GuuelaD_91 (L2), Hiraya_93 (L2), Itos_94 (L2), Kahlid_93 (L2), Lewan_95 (L2), LilDestine_92 (L2), Loadrie_93 (L2), Lynnae_95 (L2), Miley16_94 (L2), MkaliMitinis3_96 (L2), Molivier_85 (L2), Netyap_93 (L2), Nicholasp3_94 (L2),

OverPar_96 (L2), Rossetti_94 (L2), Rumpelstiltskin_90 (L2), Sarshaun_95 (L2), SoJulia_96 (L2), Soap141_94 (L2), Tourach_94 (L2), Underpass_86 (L2), Vetrix_92 (L2), Wigglewiggle_94 (L2), Wilder_95 (L2), Winky_94 (L2), Zakai_95 (L2), ZhongYanYuan_91 (L2),

Start 27:
• Found in 145 of 247 (58.7%) of genes in pham
• Manual Annotations of this start: 124 of 212
• Called 89.7% of time when present
• Phage (with cluster) where this start called: 244_105 (E), ABCat_102 (E), Adnama_109 (E), Amao_105 (E), AmericanBeauty_108 (E), Argent26_109 (E), Asriel_103 (E), Balomoji_105 (E), Barbarian_104 (E), Bask21_105 (E), Becksu_103 (E), Bench_107 (E), BigBubba_105 (E), BilboSwaggins_103 (E), Bogg_105 (E), Brewer_101 (E), Buck_106 (E), Budgie_111 (E), Cactus_109 (E), ChosenOne_105 (E), ChotaBhai_105 (E), Cjw1_105 (E), Command613_107 (E), Contagion_101 (E), Cookies_102 (E), CrystalP_104 (E), Czyszczon1_105 (E), Daikon_105 (E), DoctorDiddles_104 (E), DrDrey_105 (E), Dumbo_104 (E), Dusk_102 (E), Easy2Say_105 (E), Elite2014_104 (E), Elph10_104 (E), Emmina_105 (E), FairyPath_106 (E), Filch_106 (E), FireRed_108 (E), Flypotenuse_101 (E), Gage_107 (E), Gator_103 (E), Gemini_110 (E), Glexan_104 (E), Goku_104 (E), GooberAzure_108 (E), HanKaySha_105 (E), Harella_105 (E), Henry_102 (E), Highbury_101 (E), Holt_110 (E), Hoonter_108 (E), Hopey_105 (E), HufflyPuff_107 (E), IHOP_103 (E), Icee_106 (E), Inca_102 (E), JeTaime_103 (E), Kanye_102 (E), Kimchi_109 (E), Kostya_105 (E), Lilac_106 (E), Lilizi_105 (E), Lilpickle_104 (E), Livelaughbron_106 (E), MISSy_106 (E), MPhalcon_106 (E), MadamMonkfish_104 (E), Marshmallow_102 (E), Maxxinista_106 (E), Mindy_104 (E), Miniwave_100 (E), Misfit_106 (E), Moldemort_107 (E), MollyToe_100 (E), Mosby_101 (E), Murica_108 (E), Murphy_104 (E), Myrale_105 (E), Nala_107 (E), Nimrod_105 (E), NoSleep_105 (E), NonchalantPear_105 (E), OrionPax_103 (E), PaddyBaddy_104 (E), Palpatine_106 (E), Paperbeatsrock_104 (E), Pat3_102 (E), Petra64142_109 (E), Phaja_103 (E), Pharsalus_102 (E), PhatBacter_108 (E), Phaux_107 (E), Phrux_101 (E), Policronamos_107 (E), Porky_103 (E), Pumpkin_106 (E), Quallification_106 (E), Rakim_106 (E), Rimmer_103 (E), Saints25_101 (E), ShamWow_105 (E), ShereKhan_103 (E), Simpliphy_103 (E), SirDuracell_105 (E), SophKB_103 (E), Sotrice96_106 (E), Stank_107 (E), Stark_105 (E), StellaBean_104 (E), StolenFromERC_107 (E), TBrady12_108 (E), Tarkin_104 (E), TeamEdward_105 (E), TeardropMSU_101 (E), Teaspoon_105 (E), Terminus_108 (E), Thimble_107 (E), Thresher_106 (E), Tomaszewski_100 (E), Toto_103 (E), Traaww1_101 (E), Tuco_106 (E), Ukulele_99 (E), Wiggin_107 (E), Willez_100 (E), Xandras_104 (E), YassJohnny_102 (E), Youngblood_108 (E), xkcd_108 (E),

Start 33:
• Found in 145 of 247 (58.7%) of genes in pham
• No Manual Annotations of this start.
• Called 1.4% of time when present
• Phage (with cluster) where this start called: BugsBunny_104 (E), Ptowny_101 (E),

Summary by clusters:

There are 6 clusters represented in this pham: E, L4, L5, L2, L3, L1,

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

•Start number 24 was manually annotated 9 times for cluster E.
•Start number 27 was manually annotated 124 times for cluster E.

Info for manual annotations of cluster L1:
•Start number 22 was manually annotated 19 times for cluster L1.

Info for manual annotations of cluster L2:
•Start number 25 was manually annotated 1 time for cluster L2.
•Start number 26 was manually annotated 31 times for cluster L2.

Info for manual annotations of cluster L3:
•Start number 23 was manually annotated 19 times for cluster L3.

Info for manual annotations of cluster L4:
•Start number 23 was manually annotated 6 times for cluster L4.

Info for manual annotations of cluster L5:
•Start number 23 was manually annotated 2 times for cluster L5.

Gene Information:

Gene: 244_105 Start: 61224, Stop: 61535, Start Num: 27
Candidate Starts for 244_105:
(Start: 17 @61158 has 1 MA's), (18, 61161), (Start: 24 @61200 has 9 MA's), (Start: 27 @61224 has 124 MA's), (33, 61311), (35, 61323), (40, 61386),

Gene: ABCat_102 Start: 62428, Stop: 62739, Start Num: 27
Candidate Starts for ABCat_102:
(Start: 24 @62404 has 9 MA's), (Start: 27 @62428 has 124 MA's), (33, 62515), (35, 62527), (40, 62590),

Gene: Acquire49_90 Start: 56975, Stop: 57328, Start Num: 22
Candidate Starts for Acquire49_90:
(21, 56960), (Start: 22 @56975 has 19 MA's), (35, 57101), (39, 57158), (43, 57209), (45, 57275), (47, 57293), (50, 57323),

Gene: Adnama_109 Start: 61717, Stop: 62028, Start Num: 27
Candidate Starts for Adnama_109:
(Start: 17 @61651 has 1 MA's), (18, 61654), (Start: 24 @61693 has 9 MA's), (Start: 27 @61717 has 124 MA's), (33, 61804), (35, 61816), (40, 61879),

Gene: Aegeus_97 Start: 59492, Stop: 59824, Start Num: 23
Candidate Starts for Aegeus_97:
(Start: 23 @59492 has 27 MA's), (29, 59573), (34, 59612), (35, 59615), (42, 59714), (44, 59747), (45, 59780), (48, 59801), (49, 59810),

Gene: Amao_105 Start: 61870, Stop: 62181, Start Num: 27
Candidate Starts for Amao_105:
(Start: 27 @61870 has 124 MA's), (33, 61957), (35, 61969), (40, 62032),

Gene: AmericanBeauty_108 Start: 61759, Stop: 62070, Start Num: 27

Candidate Starts for AmericanBeauty_108:
(Start: 17 @61693 has 1 MA's), (18, 61696), (Start: 24 @61735 has 9 MA's), (Start: 27 @61759 has 124 MA's), (33, 61846), (35, 61858), (40, 61921),

Gene: Appletree2_89 Start: 56738, Stop: 57088, Start Num: 22
Candidate Starts for Appletree2_89:
(1, 56546), (2, 56555), (14, 56693), (20, 56708), (Start: 22 @56738 has 19 MA's), (35, 56861), (39, 56918), (43, 56969), (45, 57035), (47, 57053), (50, 57083),

Gene: Archie_91 Start: 58663, Stop: 59001, Start Num: 26
Candidate Starts for Archie_91:
(5, 58546), (6, 58555), (7, 58576), (19, 58624), (Start: 26 @58663 has 31 MA's), (32, 58768), (35, 58783), (36, 58807), (38, 58831), (39, 58840), (43, 58891), (47, 58975),

Gene: Argent26_109 Start: 61641, Stop: 61952, Start Num: 27
Candidate Starts for Argent26_109:
(Start: 17 @61575 has 1 MA's), (18, 61578), (Start: 24 @61617 has 9 MA's), (Start: 27 @61641 has 124 MA's), (33, 61728), (35, 61740), (40, 61803),

Gene: Asriel_103 Start: 60054, Stop: 60365, Start Num: 27
Candidate Starts for Asriel_103:
(15, 59982), (Start: 17 @59988 has 1 MA's), (18, 59991), (Start: 24 @60030 has 9 MA's), (Start: 27 @60054 has 124 MA's), (33, 60141), (35, 60153), (40, 60216),

Gene: AvadaKedavra_90 Start: 57090, Stop: 57440, Start Num: 22
Candidate Starts for AvadaKedavra_90:
(1, 56898), (2, 56907), (14, 57045), (20, 57060), (Start: 22 @57090 has 19 MA's), (35, 57213), (39, 57270), (43, 57321), (45, 57387), (47, 57405), (50, 57435),

Gene: BaboJay_104 Start: 62373, Stop: 62708, Start Num: 24
Candidate Starts for BaboJay_104:
(Start: 17 @62331 has 1 MA's), (18, 62334), (Start: 24 @62373 has 9 MA's), (Start: 27 @62397 has 124 MA's), (33, 62484), (35, 62496), (40, 62559),

Gene: BadStone_102 Start: 61952, Stop: 62287, Start Num: 24
Candidate Starts for BadStone_102:
(Start: 24 @61952 has 9 MA's), (Start: 27 @61976 has 124 MA's), (33, 62063), (35, 62075), (40, 62138),

Gene: Balomoji_105 Start: 61837, Stop: 62148, Start Num: 27
Candidate Starts for Balomoji_105:
(15, 61765), (Start: 17 @61771 has 1 MA's), (18, 61774), (Start: 24 @61813 has 9 MA's), (Start: 27 @61837 has 124 MA's), (33, 61924), (35, 61936), (40, 61999),

Gene: Baoshan_94 Start: 59318, Stop: 59656, Start Num: 26
Candidate Starts for Baoshan_94:
(Start: 26 @59318 has 31 MA's), (35, 59438), (36, 59462), (38, 59486), (39, 59495), (43, 59546), (47, 59630),

Gene: Barbarian_104 Start: 60054, Stop: 60365, Start Num: 27
Candidate Starts for Barbarian_104:
(15, 59982), (Start: 17 @59988 has 1 MA's), (18, 59991), (Start: 24 @60030 has 9 MA's), (Start: 27 @60054 has 124 MA's), (33, 60141), (35, 60153), (40, 60216),

Gene: Bask21_105 Start: 60672, Stop: 60983, Start Num: 27
Candidate Starts for Bask21_105:
(Start: 24 @60648 has 9 MA's), (Start: 27 @60672 has 124 MA's), (33, 60759), (35, 60771), (40, 60834),

Gene: Baudelaire_97 Start: 59492, Stop: 59824, Start Num: 23
Candidate Starts for Baudelaire_97:
(Start: 23 @59492 has 27 MA's), (29, 59573), (34, 59612), (35, 59615), (42, 59714), (44, 59747), (45, 59780), (48, 59801), (49, 59810),

Gene: Bazzle_91 Start: 59219, Stop: 59557, Start Num: 26
Candidate Starts for Bazzle_91:
(7, 59132), (19, 59180), (Start: 26 @59219 has 31 MA's), (35, 59339), (36, 59363), (38, 59387), (39, 59396), (43, 59447), (47, 59531),

Gene: Becksu_103 Start: 62030, Stop: 62341, Start Num: 27
Candidate Starts for Becksu_103:
(Start: 24 @62006 has 9 MA's), (Start: 27 @62030 has 124 MA's), (33, 62117), (35, 62129), (40, 62192),

Gene: Bellis_91 Start: 58852, Stop: 59190, Start Num: 23
Candidate Starts for Bellis_91:
(5, 58738), (14, 58804), (Start: 23 @58852 has 27 MA's), (35, 58972), (36, 58996), (37, 59014), (39, 59029), (40, 59032), (43, 59080), (46, 59155),

Gene: Bench_107 Start: 62398, Stop: 62709, Start Num: 27
Candidate Starts for Bench_107:
(Start: 17 @62332 has 1 MA's), (18, 62335), (Start: 24 @62374 has 9 MA's), (Start: 27 @62398 has 124 MA's), (33, 62485), (35, 62497), (40, 62560),

Gene: BigBubba_105 Start: 60750, Stop: 61061, Start Num: 27
Candidate Starts for BigBubba_105:
(Start: 17 @60684 has 1 MA's), (18, 60687), (Start: 24 @60726 has 9 MA's), (Start: 27 @60750 has 124 MA's), (33, 60837), (35, 60849), (40, 60912),

Gene: BigCheese_94 Start: 59429, Stop: 59767, Start Num: 26
Candidate Starts for BigCheese_94:
(7, 59342), (Start: 26 @59429 has 31 MA's), (32, 59534), (35, 59549), (36, 59573), (38, 59597), (39, 59606), (43, 59657), (47, 59741),

Gene: BilboSwaggins_103 Start: 62334, Stop: 62645, Start Num: 27
Candidate Starts for BilboSwaggins_103:
(Start: 24 @62310 has 9 MA's), (Start: 27 @62334 has 124 MA's), (33, 62421), (35, 62433), (40, 62496),

Gene: BobsGarage_93 Start: 59429, Stop: 59767, Start Num: 26
Candidate Starts for BobsGarage_93:
(7, 59342), (Start: 26 @59429 has 31 MA's), (32, 59534), (35, 59549), (36, 59573), (38, 59597), (39, 59606), (43, 59657), (47, 59741),

Gene: Bogg_105 Start: 61917, Stop: 62228, Start Num: 27
Candidate Starts for Bogg_105:

(Start: 24 @61893 has 9 MA's), (Start: 27 @61917 has 124 MA's), (33, 62004), (35, 62016), (40, 62079),

Gene: BourbonZero_92 Start: 58878, Stop: 59216, Start Num: 23
Candidate Starts for BourbonZero_92:
(5, 58764), (14, 58830), (Start: 23 @58878 has 27 MA's), (28, 58953), (35, 58998), (36, 59022), (37, 59040), (39, 59055), (43, 59106), (46, 59181),

Gene: BrainDrainer_96 Start: 59133, Stop: 59483, Start Num: 23
Candidate Starts for BrainDrainer_96:
(3, 58965), (10, 59058), (13, 59073), (Start: 23 @59133 has 27 MA's), (35, 59256), (39, 59313), (41, 59331), (43, 59364), (47, 59448),

Gene: Breezona_94 Start: 59429, Stop: 59767, Start Num: 26
Candidate Starts for Breezona_94:
(7, 59342), (Start: 26 @59429 has 31 MA's), (32, 59534), (35, 59549), (36, 59573), (38, 59597), (39, 59606), (43, 59657), (47, 59741),

Gene: Brewer_101 Start: 60554, Stop: 60865, Start Num: 27
Candidate Starts for Brewer_101:
(Start: 24 @60530 has 9 MA's), (Start: 27 @60554 has 124 MA's), (33, 60641), (35, 60653), (40, 60716),

Gene: Bromden_94 Start: 59856, Stop: 60209, Start Num: 23
Candidate Starts for Bromden_94:
(Start: 23 @59856 has 27 MA's), (35, 59979), (38, 60027), (39, 60036), (43, 60087), (47, 60171),

Gene: Bruin_102 Start: 61058, Stop: 61393, Start Num: 24
Candidate Starts for Bruin_102:
(Start: 17 @61016 has 1 MA's), (18, 61019), (Start: 24 @61058 has 9 MA's), (Start: 27 @61082 has 124 MA's), (33, 61169), (35, 61181), (40, 61244),

Gene: Buck_106 Start: 62898, Stop: 63209, Start Num: 27
Candidate Starts for Buck_106:
(Start: 24 @62874 has 9 MA's), (Start: 27 @62898 has 124 MA's), (33, 62985), (35, 62997), (40, 63060),

Gene: Budgie_111 Start: 62082, Stop: 62393, Start Num: 27
Candidate Starts for Budgie_111:
(Start: 27 @62082 has 124 MA's), (33, 62169), (35, 62181), (40, 62244),

Gene: BugsBunny_104 Start: 62483, Stop: 62707, Start Num: 33
Candidate Starts for BugsBunny_104:
(Start: 17 @62330 has 1 MA's), (18, 62333), (Start: 24 @62372 has 9 MA's), (Start: 27 @62396 has 124 MA's), (33, 62483), (35, 62495), (40, 62558),

Gene: Cactus_109 Start: 61336, Stop: 61647, Start Num: 27
Candidate Starts for Cactus_109:
(Start: 24 @61312 has 9 MA's), (Start: 27 @61336 has 124 MA's), (33, 61423), (35, 61435), (40, 61498),

Gene: Calm_91 Start: 56989, Stop: 57339, Start Num: 22
Candidate Starts for Calm_91:

(1, 56797), (2, 56806), (14, 56944), (20, 56959), (Start: 22 @56989 has 19 MA's), (35, 57112), (39, 57169), (43, 57220), (45, 57286), (47, 57304), (50, 57334),

Gene: Chaser_93 Start: 58264, Stop: 58617, Start Num: 23
Candidate Starts for Chaser_93:
(3, 58111), (10, 58204), (Start: 23 @58264 has 27 MA's), (35, 58387), (39, 58444), (41, 58462), (43, 58495), (47, 58579),

Gene: ChengKai98_93 Start: 58903, Stop: 59241, Start Num: 26
Candidate Starts for ChengKai98_93:
(7, 58816), (Start: 26 @58903 has 31 MA's), (32, 59008), (35, 59023), (36, 59047), (38, 59071), (39, 59080), (43, 59131), (47, 59215),

Gene: ChosenOne_105 Start: 61282, Stop: 61593, Start Num: 27
Candidate Starts for ChosenOne_105:
(Start: 17 @61219 has 1 MA's), (18, 61222), (Start: 24 @61258 has 9 MA's), (Start: 27 @61282 has 124 MA's), (33, 61369), (35, 61381), (40, 61444),

Gene: ChotaBhai_105 Start: 61734, Stop: 62045, Start Num: 27
Candidate Starts for ChotaBhai_105:
(Start: 27 @61734 has 124 MA's), (33, 61821), (35, 61833), (40, 61896),

Gene: ChutneyChips_95 Start: 59010, Stop: 59363, Start Num: 23
Candidate Starts for ChutneyChips_95:
(10, 58950), (16, 58980), (Start: 23 @59010 has 27 MA's), (35, 59133), (39, 59190), (41, 59208), (43, 59241), (47, 59325),

Gene: CicholasNage_87 Start: 56639, Stop: 56992, Start Num: 22
Candidate Starts for CicholasNage_87:
(21, 56624), (Start: 22 @56639 has 19 MA's), (35, 56765), (39, 56822), (43, 56873), (45, 56939), (47, 56957), (50, 56987),

Gene: Cjw1_105 Start: 63091, Stop: 63402, Start Num: 27
Candidate Starts for Cjw1_105:
(Start: 17 @63025 has 1 MA's), (18, 63028), (Start: 24 @63067 has 9 MA's), (Start: 27 @63091 has 124 MA's), (33, 63178), (35, 63190), (40, 63253),

Gene: Claus_92 Start: 58969, Stop: 59313, Start Num: 25
Candidate Starts for Claus_92:
(Start: 25 @58969 has 1 MA's), (35, 59089), (36, 59113), (38, 59137), (39, 59146), (47, 59281),

Gene: Clautastrophe_89 Start: 58847, Stop: 59185, Start Num: 23
Candidate Starts for Clautastrophe_89:
(5, 58733), (14, 58799), (Start: 23 @58847 has 27 MA's), (35, 58967), (36, 58991), (37, 59009), (39, 59024), (43, 59075), (46, 59150),

Gene: Command613_107 Start: 61830, Stop: 62141, Start Num: 27
Candidate Starts for Command613_107:
(Start: 24 @61806 has 9 MA's), (Start: 27 @61830 has 124 MA's), (33, 61917), (35, 61929), (40, 61992),

Gene: Contagion_101 Start: 61444, Stop: 61755, Start Num: 27
Candidate Starts for Contagion_101:

(Start: 17 @61378 has 1 MA's), (18, 61381), (Start: 24 @61420 has 9 MA's), (Start: 27 @61444 has 124 MA's), (33, 61531), (35, 61543), (40, 61606),

Gene: Cookies_102 Start: 61600, Stop: 61911, Start Num: 27
Candidate Starts for Cookies_102:
(Start: 24 @61576 has 9 MA's), (Start: 27 @61600 has 124 MA's), (33, 61687), (35, 61699), (40, 61762),

Gene: Crossroads_94 Start: 59141, Stop: 59479, Start Num: 26
Candidate Starts for Crossroads_94:
(7, 59054), (Start: 26 @59141 has 31 MA's), (32, 59246), (35, 59261), (36, 59285), (38, 59309), (39, 59318), (43, 59369), (47, 59453),

Gene: CrystalP_104 Start: 62334, Stop: 62645, Start Num: 27
Candidate Starts for CrystalP_104:
(Start: 24 @62310 has 9 MA's), (Start: 27 @62334 has 124 MA's), (33, 62421), (35, 62433), (40, 62496),

Gene: Czyszczon1_105 Start: 61437, Stop: 61748, Start Num: 27
Candidate Starts for Czyszczon1_105:
(Start: 17 @61371 has 1 MA's), (18, 61374), (Start: 24 @61413 has 9 MA's), (Start: 27 @61437 has 124 MA's), (33, 61524), (35, 61536), (40, 61599),

Gene: DHan_97 Start: 59365, Stop: 59703, Start Num: 26
Candidate Starts for DHan_97:
(4, 59215), (7, 59278), (19, 59326), (Start: 26 @59365 has 31 MA's), (35, 59485), (36, 59509), (38, 59533), (39, 59542), (43, 59593), (47, 59677),

Gene: Daikon_105 Start: 61253, Stop: 61564, Start Num: 27
Candidate Starts for Daikon_105:
(11, 61160), (Start: 17 @61187 has 1 MA's), (18, 61190), (Start: 24 @61229 has 9 MA's), (Start: 27 @61253 has 124 MA's), (33, 61340), (35, 61352), (40, 61415),

Gene: DanBing_93 Start: 59058, Stop: 59396, Start Num: 26
Candidate Starts for DanBing_93:
(4, 58908), (19, 59019), (Start: 26 @59058 has 31 MA's), (35, 59178), (36, 59202), (38, 59226), (39, 59235), (43, 59286), (47, 59370),

Gene: DirkDirk_87 Start: 56318, Stop: 56668, Start Num: 22
Candidate Starts for DirkDirk_87:
(1, 56126), (2, 56135), (14, 56273), (20, 56288), (Start: 22 @56318 has 19 MA's), (35, 56441), (39, 56498), (43, 56549), (45, 56615), (47, 56633), (50, 56663),

Gene: DoctorDiddles_104 Start: 61102, Stop: 61413, Start Num: 27
Candidate Starts for DoctorDiddles_104:
(11, 61009), (Start: 17 @61036 has 1 MA's), (18, 61039), (Start: 24 @61078 has 9 MA's), (Start: 27 @61102 has 124 MA's), (33, 61189), (35, 61201), (40, 61264),

Gene: Douge_95 Start: 58553, Stop: 58903, Start Num: 23
Candidate Starts for Douge_95:
(3, 58385), (10, 58478), (13, 58493), (Start: 23 @58553 has 27 MA's), (35, 58676), (39, 58733), (43, 58784),

Gene: Douzhi_95 Start: 58822, Stop: 59172, Start Num: 23
Candidate Starts for Douzhi_95:
(3, 58654), (10, 58747), (13, 58762), (Start: 23 @58822 has 27 MA's), (35, 58945), (39, 59002), (43, 59053),

Gene: DrDrey_105 Start: 63114, Stop: 63425, Start Num: 27
Candidate Starts for DrDrey_105:
(Start: 24 @63090 has 9 MA's), (Start: 27 @63114 has 124 MA's), (33, 63201), (35, 63213), (40, 63276),

Gene: DrSeegs_93 Start: 59429, Stop: 59767, Start Num: 26
Candidate Starts for DrSeegs_93:
(7, 59342), (Start: 26 @59429 has 31 MA's), (32, 59534), (35, 59549), (36, 59573), (38, 59597), (39, 59606), (43, 59657), (47, 59741),

Gene: Dumbo_104 Start: 61474, Stop: 61785, Start Num: 27
Candidate Starts for Dumbo_104:
(Start: 17 @61408 has 1 MA's), (18, 61411), (Start: 24 @61450 has 9 MA's), (Start: 27 @61474 has 124 MA's), (33, 61561), (35, 61573), (40, 61636),

Gene: DuncansLeg_91 Start: 58866, Stop: 59204, Start Num: 23
Candidate Starts for DuncansLeg_91:
(5, 58752), (14, 58818), (Start: 23 @58866 has 27 MA's), (28, 58941), (35, 58986), (36, 59010), (37, 59028), (39, 59043), (43, 59094), (46, 59169),

Gene: Dusk_102 Start: 61636, Stop: 61947, Start Num: 27
Candidate Starts for Dusk_102:
(Start: 24 @61612 has 9 MA's), (Start: 27 @61636 has 124 MA's), (33, 61723), (35, 61735), (40, 61798),

Gene: DyoEdafos_96 Start: 58974, Stop: 59327, Start Num: 23
Candidate Starts for DyoEdafos_96:
(Start: 23 @58974 has 27 MA's), (32, 59082), (35, 59097), (36, 59121), (39, 59154), (41, 59172), (43, 59205), (47, 59289),

Gene: Easy2Say_105 Start: 62108, Stop: 62419, Start Num: 27
Candidate Starts for Easy2Say_105:
(Start: 17 @62042 has 1 MA's), (18, 62045), (Start: 24 @62084 has 9 MA's), (Start: 27 @62108 has 124 MA's), (33, 62195), (35, 62207), (40, 62270),

Gene: Elite2014_104 Start: 61281, Stop: 61592, Start Num: 27
Candidate Starts for Elite2014_104:
(Start: 17 @61218 has 1 MA's), (18, 61221), (Start: 24 @61257 has 9 MA's), (Start: 27 @61281 has 124 MA's), (33, 61368), (35, 61380), (40, 61443),

Gene: Ellson_90 Start: 59181, Stop: 59519, Start Num: 23
Candidate Starts for Ellson_90:
(5, 59067), (14, 59133), (Start: 23 @59181 has 27 MA's), (28, 59256), (35, 59301), (36, 59325), (37, 59343), (39, 59358), (43, 59409), (46, 59484),

Gene: Elph10_104 Start: 61120, Stop: 61431, Start Num: 27
Candidate Starts for Elph10_104:

(Start: 17 @61054 has 1 MA's), (18, 61057), (Start: 24 @61096 has 9 MA's), (Start: 27 @61120 has 124 MA's), (33, 61207), (35, 61219), (40, 61282),

Gene: Emmina_105 Start: 61059, Stop: 61370, Start Num: 27
Candidate Starts for Emmina_105:
(Start: 17 @60993 has 1 MA's), (18, 60996), (Start: 24 @61035 has 9 MA's), (Start: 27 @61059 has 124 MA's), (33, 61146), (35, 61158), (40, 61221),

Gene: Enceladus_87 Start: 57019, Stop: 57369, Start Num: 22
Candidate Starts for Enceladus_87:
(1, 56827), (2, 56836), (14, 56974), (20, 56989), (Start: 22 @57019 has 19 MA's), (35, 57142), (39, 57199), (43, 57250), (45, 57316), (47, 57334), (50, 57364),

Gene: Eureka_104 Start: 62223, Stop: 62558, Start Num: 24
Candidate Starts for Eureka_104:
(Start: 17 @62181 has 1 MA's), (18, 62184), (Start: 24 @62223 has 9 MA's), (Start: 27 @62247 has 124 MA's), (33, 62334), (35, 62346), (40, 62409),

Gene: FairyPath_106 Start: 62552, Stop: 62863, Start Num: 27
Candidate Starts for FairyPath_106:
(Start: 17 @62486 has 1 MA's), (18, 62489), (Start: 24 @62528 has 9 MA's), (Start: 27 @62552 has 124 MA's), (33, 62639), (35, 62651), (40, 62714),

Gene: Faith1_94 Start: 59066, Stop: 59404, Start Num: 26
Candidate Starts for Faith1_94:
(7, 58979), (Start: 26 @59066 has 31 MA's), (32, 59171), (35, 59186), (36, 59210), (38, 59234), (39, 59243), (43, 59294), (47, 59378),

Gene: FarmResident_95 Start: 58534, Stop: 58887, Start Num: 23
Candidate Starts for FarmResident_95:
(3, 58366), (10, 58459), (Start: 23 @58534 has 27 MA's), (35, 58657), (39, 58714), (41, 58732), (43, 58765), (47, 58849),

Gene: Filch_106 Start: 61433, Stop: 61744, Start Num: 27
Candidate Starts for Filch_106:
(Start: 17 @61367 has 1 MA's), (18, 61370), (Start: 24 @61409 has 9 MA's), (Start: 27 @61433 has 124 MA's), (33, 61520), (35, 61532), (40, 61595),

Gene: Finemlucis_95 Start: 60180, Stop: 60518, Start Num: 26
Candidate Starts for Finemlucis_95:
(Start: 26 @60180 has 31 MA's), (32, 60285), (35, 60300), (36, 60324), (38, 60348), (39, 60357), (43, 60408), (47, 60492),

Gene: Finnry_91 Start: 59200, Stop: 59538, Start Num: 23
Candidate Starts for Finnry_91:
(5, 59086), (14, 59152), (Start: 23 @59200 has 27 MA's), (35, 59320), (36, 59344), (37, 59362), (39, 59377), (40, 59380), (43, 59428), (46, 59503),

Gene: FireRed_108 Start: 62523, Stop: 62834, Start Num: 27
Candidate Starts for FireRed_108:
(Start: 17 @62457 has 1 MA's), (18, 62460), (Start: 24 @62499 has 9 MA's), (Start: 27 @62523 has 124 MA's), (33, 62610), (35, 62622), (40, 62685),

Gene: Flypotenuse_101 Start: 60708, Stop: 61019, Start Num: 27
Candidate Starts for Flypotenuse_101:
(15, 60636), (Start: 17 @60642 has 1 MA's), (18, 60645), (Start: 24 @60684 has 9 MA's), (Start: 27 @60708 has 124 MA's), (33, 60795), (35, 60807), (40, 60870),

Gene: FoghornLeghorn_98 Start: 59389, Stop: 59724, Start Num: 24
Candidate Starts for FoghornLeghorn_98:
(Start: 24 @59389 has 9 MA's), (Start: 27 @59413 has 124 MA's), (33, 59500), (35, 59512), (40, 59575),

Gene: Gabriela_94 Start: 58412, Stop: 58750, Start Num: 26
Candidate Starts for Gabriela_94:
(7, 58325), (Start: 26 @58412 has 31 MA's), (32, 58517), (35, 58532), (36, 58556), (38, 58580), (39, 58589), (43, 58640), (47, 58724),

Gene: Gage_107 Start: 61779, Stop: 62090, Start Num: 27
Candidate Starts for Gage_107:
(Start: 17 @61713 has 1 MA's), (18, 61716), (Start: 24 @61755 has 9 MA's), (Start: 27 @61779 has 124 MA's), (33, 61866), (35, 61878), (40, 61941),

Gene: Gardann_94 Start: 58913, Stop: 59251, Start Num: 26
Candidate Starts for Gardann_94:
(7, 58826), (Start: 26 @58913 has 31 MA's), (32, 59018), (35, 59033), (36, 59057), (38, 59081), (39, 59090), (43, 59141), (47, 59225),

Gene: Gator_103 Start: 61567, Stop: 61878, Start Num: 27
Candidate Starts for Gator_103:
(11, 61474), (Start: 17 @61501 has 1 MA's), (18, 61504), (Start: 24 @61543 has 9 MA's), (Start: 27 @61567 has 124 MA's), (33, 61654), (35, 61666), (40, 61729),

Gene: Gemini_110 Start: 62158, Stop: 62469, Start Num: 27
Candidate Starts for Gemini_110:
(Start: 17 @62092 has 1 MA's), (18, 62095), (Start: 24 @62134 has 9 MA's), (Start: 27 @62158 has 124 MA's), (33, 62245), (35, 62257), (40, 62320),

Gene: Glexan_104 Start: 61838, Stop: 62149, Start Num: 27
Candidate Starts for Glexan_104:
(Start: 24 @61814 has 9 MA's), (Start: 27 @61838 has 124 MA's), (33, 61925), (35, 61937), (40, 62000),

Gene: Goku_104 Start: 61976, Stop: 62287, Start Num: 27
Candidate Starts for Goku_104:
(Start: 17 @61910 has 1 MA's), (18, 61913), (Start: 24 @61952 has 9 MA's), (Start: 27 @61976 has 124 MA's), (33, 62063), (35, 62075), (40, 62138),

Gene: GoldenSpark_109 Start: 61617, Stop: 61952, Start Num: 24
Candidate Starts for GoldenSpark_109:
(Start: 17 @61575 has 1 MA's), (18, 61578), (Start: 24 @61617 has 9 MA's), (Start: 27 @61641 has 124 MA's), (33, 61728), (35, 61740), (40, 61803),

Gene: Goldilocks_108 Start: 61513, Stop: 61848, Start Num: 24
Candidate Starts for Goldilocks_108:

(Start: 24 @61513 has 9 MA's), (Start: 27 @61537 has 124 MA's), (33, 61624), (35, 61636), (40, 61699),

Gene: GooberAzure_108 Start: 61641, Stop: 61952, Start Num: 27
Candidate Starts for GooberAzure_108:
(Start: 17 @61575 has 1 MA's), (18, 61578), (Start: 24 @61617 has 9 MA's), (Start: 27 @61641 has 124 MA's), (33, 61728), (35, 61740), (40, 61803),

Gene: Greep_109 Start: 63189, Stop: 63524, Start Num: 24
Candidate Starts for Greep_109:
(Start: 24 @63189 has 9 MA's), (Start: 27 @63213 has 124 MA's), (33, 63300), (35, 63312), (40, 63375),

Gene: GuuelaD_91 Start: 59025, Stop: 59363, Start Num: 26
Candidate Starts for GuuelaD_91:
(7, 58938), (12, 58962), (Start: 26 @59025 has 31 MA's), (32, 59130), (35, 59145), (36, 59169), (38, 59193), (39, 59202), (43, 59253), (47, 59337),

Gene: Hafay_94 Start: 58964, Stop: 59308, Start Num: 25
Candidate Starts for Hafay_94:
(Start: 25 @58964 has 1 MA's), (35, 59084), (36, 59108), (38, 59132), (39, 59141), (47, 59276),

Gene: Halena_87 Start: 55905, Stop: 56255, Start Num: 22
Candidate Starts for Halena_87:
(1, 55713), (2, 55722), (14, 55860), (20, 55875), (Start: 22 @55905 has 19 MA's), (35, 56028), (39, 56085), (43, 56136), (45, 56202), (47, 56220), (50, 56250),

Gene: HanKaySha_105 Start: 61829, Stop: 62140, Start Num: 27
Candidate Starts for HanKaySha_105:
(Start: 17 @61763 has 1 MA's), (18, 61766), (Start: 24 @61805 has 9 MA's), (Start: 27 @61829 has 124 MA's), (33, 61916), (35, 61928), (40, 61991),

Gene: Harella_105 Start: 62354, Stop: 62665, Start Num: 27
Candidate Starts for Harella_105:
(Start: 24 @62330 has 9 MA's), (Start: 27 @62354 has 124 MA's), (33, 62441), (35, 62453), (40, 62516),

Gene: Henry_102 Start: 61639, Stop: 61950, Start Num: 27
Candidate Starts for Henry_102:
(Start: 24 @61615 has 9 MA's), (Start: 27 @61639 has 124 MA's), (33, 61726), (35, 61738), (40, 61801),

Gene: Highbury_101 Start: 59986, Stop: 60297, Start Num: 27
Candidate Starts for Highbury_101:
(Start: 17 @59920 has 1 MA's), (18, 59923), (Start: 24 @59962 has 9 MA's), (Start: 27 @59986 has 124 MA's), (33, 60073), (35, 60085), (40, 60148),

Gene: Hiraya_93 Start: 58991, Stop: 59329, Start Num: 26
Candidate Starts for Hiraya_93:
(7, 58904), (Start: 26 @58991 has 31 MA's), (32, 59096), (35, 59111), (36, 59135), (38, 59159), (39, 59168), (43, 59219), (47, 59303),

Gene: Holt_110 Start: 62055, Stop: 62366, Start Num: 27

Candidate Starts for Holt_110:
(Start: 17 @61989 has 1 MA's), (18, 61992), (Start: 24 @62031 has 9 MA's), (Start: 27 @62055 has 124 MA's), (33, 62142), (35, 62154), (40, 62217),

Gene: Hoonter_108 Start: 62134, Stop: 62445, Start Num: 27
Candidate Starts for Hoonter_108:
(Start: 17 @62068 has 1 MA's), (18, 62071), (Start: 24 @62110 has 9 MA's), (Start: 27 @62134 has 124 MA's), (33, 62221), (35, 62233), (40, 62296),

Gene: Hopey_105 Start: 62440, Stop: 62751, Start Num: 27
Candidate Starts for Hopey_105:
(Start: 17 @62374 has 1 MA's), (18, 62377), (Start: 24 @62416 has 9 MA's), (Start: 27 @62440 has 124 MA's), (33, 62527), (35, 62539), (40, 62602),

Gene: HufflyPuff_107 Start: 62749, Stop: 63060, Start Num: 27
Candidate Starts for HufflyPuff_107:
(Start: 24 @62725 has 9 MA's), (Start: 27 @62749 has 124 MA's), (33, 62836), (35, 62848), (40, 62911),

Gene: IHOP_103 Start: 61357, Stop: 61668, Start Num: 27
Candidate Starts for IHOP_103:
(Start: 17 @61291 has 1 MA's), (18, 61294), (Start: 24 @61333 has 9 MA's), (Start: 27 @61357 has 124 MA's), (33, 61444), (35, 61456), (40, 61519),

Gene: Icee_106 Start: 61165, Stop: 61476, Start Num: 27
Candidate Starts for Icee_106:
(Start: 24 @61141 has 9 MA's), (Start: 27 @61165 has 124 MA's), (33, 61252), (35, 61264), (40, 61327),

Gene: Inca_102 Start: 59846, Stop: 60157, Start Num: 27
Candidate Starts for Inca_102:
(Start: 24 @59822 has 9 MA's), (Start: 27 @59846 has 124 MA's), (33, 59933), (35, 59945), (40, 60008),

Gene: Itos_94 Start: 57972, Stop: 58310, Start Num: 26
Candidate Starts for Itos_94:
(7, 57885), (Start: 26 @57972 has 31 MA's), (32, 58077), (35, 58092), (36, 58116), (38, 58140), (39, 58149), (43, 58200), (47, 58284),

Gene: JeTaime_103 Start: 61265, Stop: 61576, Start Num: 27
Candidate Starts for JeTaime_103:
(Start: 17 @61199 has 1 MA's), (18, 61202), (Start: 24 @61241 has 9 MA's), (Start: 27 @61265 has 124 MA's), (33, 61352), (35, 61364), (40, 61427),

Gene: Jobypre_91 Start: 58847, Stop: 59185, Start Num: 23
Candidate Starts for Jobypre_91:
(5, 58733), (14, 58799), (Start: 23 @58847 has 27 MA's), (35, 58967), (36, 58991), (37, 59009), (39, 59024), (43, 59075), (46, 59150),

Gene: JoeDirt_91 Start: 57580, Stop: 57930, Start Num: 22
Candidate Starts for JoeDirt_91:
(1, 57388), (2, 57397), (14, 57535), (20, 57550), (Start: 22 @57580 has 19 MA's), (35, 57703), (39, 57760), (43, 57811), (45, 57877), (47, 57895), (50, 57925),

Gene: Jubie_90 Start: 58982, Stop: 59320, Start Num: 23
Candidate Starts for Jubie_90:
(5, 58868), (14, 58934), (Start: 23 @58982 has 27 MA's), (35, 59102), (36, 59126), (37, 59144), (39, 59159), (43, 59210), (46, 59285),

Gene: Kahlid_93 Start: 58831, Stop: 59169, Start Num: 26
Candidate Starts for Kahlid_93:
(7, 58744), (Start: 26 @58831 has 31 MA's), (32, 58936), (35, 58951), (36, 58975), (38, 58999), (39, 59008), (43, 59059), (47, 59143),

Gene: Kanye_102 Start: 61890, Stop: 62201, Start Num: 27
Candidate Starts for Kanye_102:
(Start: 17 @61824 has 1 MA's), (18, 61827), (Start: 24 @61866 has 9 MA's), (Start: 27 @61890 has 124 MA's), (33, 61977), (35, 61989), (40, 62052),

Gene: Kimchi_109 Start: 61782, Stop: 62093, Start Num: 27
Candidate Starts for Kimchi_109:
(Start: 17 @61716 has 1 MA's), (18, 61719), (Start: 24 @61758 has 9 MA's), (Start: 27 @61782 has 124 MA's), (33, 61869), (35, 61881), (40, 61944),

Gene: Kingsolomon_89 Start: 58956, Stop: 59294, Start Num: 23
Candidate Starts for Kingsolomon_89:
(5, 58842), (14, 58908), (Start: 23 @58956 has 27 MA's), (35, 59076), (36, 59100), (37, 59118), (39, 59133), (40, 59136), (43, 59184), (46, 59259),

Gene: KirDoubleO7_89 Start: 58868, Stop: 59206, Start Num: 23
Candidate Starts for KirDoubleO7_89:
(5, 58754), (14, 58820), (Start: 23 @58868 has 27 MA's), (28, 58943), (35, 58988), (36, 59012), (37, 59030), (39, 59045), (43, 59096), (46, 59171),

Gene: Kostya_105 Start: 61459, Stop: 61770, Start Num: 27
Candidate Starts for Kostya_105:
(Start: 17 @61393 has 1 MA's), (18, 61396), (Start: 24 @61435 has 9 MA's), (Start: 27 @61459 has 124 MA's), (33, 61546), (35, 61558), (40, 61621),

Gene: Kropertea_90 Start: 58254, Stop: 58607, Start Num: 23
Candidate Starts for Kropertea_90:
(Start: 23 @58254 has 27 MA's), (32, 58362), (35, 58377), (36, 58401), (39, 58434), (41, 58452), (43, 58485), (47, 58569),

Gene: Krypton555_92 Start: 59223, Stop: 59567, Start Num: 23
Candidate Starts for Krypton555_92:
(5, 59109), (14, 59175), (Start: 23 @59223 has 27 MA's), (30, 59313), (31, 59325), (32, 59328), (35, 59343), (39, 59400), (41, 59418), (46, 59526),

Gene: LeBron_89 Start: 56209, Stop: 56562, Start Num: 22
Candidate Starts for LeBron_89:
(21, 56194), (Start: 22 @56209 has 19 MA's), (35, 56335), (39, 56392), (43, 56443), (45, 56509), (47, 56527), (50, 56557),

Gene: Lewan_95 Start: 59065, Stop: 59403, Start Num: 26
Candidate Starts for Lewan_95:

(7, 58978), (Start: 26 @59065 has 31 MA's), (32, 59170), (35, 59185), (36, 59209), (38, 59233), (39, 59242), (43, 59293), (47, 59377),

Gene: LilDestine_92 Start: 58742, Stop: 59080, Start Num: 26
Candidate Starts for LilDestine_92:
(7, 58655), (Start: 26 @58742 has 31 MA's), (32, 58847), (35, 58862), (36, 58886), (38, 58910), (39, 58919), (43, 58970), (47, 59054),

Gene: Lilac_106 Start: 62583, Stop: 62894, Start Num: 27
Candidate Starts for Lilac_106:
(Start: 17 @62517 has 1 MA's), (18, 62520), (Start: 24 @62559 has 9 MA's), (Start: 27 @62583 has 124 MA's), (33, 62670), (35, 62682), (40, 62745),

Gene: Lilizi_105 Start: 61869, Stop: 62180, Start Num: 27
Candidate Starts for Lilizi_105:
(Start: 17 @61803 has 1 MA's), (18, 61806), (Start: 24 @61845 has 9 MA's), (Start: 27 @61869 has 124 MA's), (33, 61956), (35, 61968), (40, 62031),

Gene: Lilpickle_104 Start: 61281, Stop: 61592, Start Num: 27
Candidate Starts for Lilpickle_104:
(Start: 17 @61218 has 1 MA's), (18, 61221), (Start: 24 @61257 has 9 MA's), (Start: 27 @61281 has 124 MA's), (33, 61368), (35, 61380), (40, 61443),

Gene: Livelaughbron_106 Start: 62882, Stop: 63193, Start Num: 27
Candidate Starts for Livelaughbron_106:
(Start: 24 @62858 has 9 MA's), (Start: 27 @62882 has 124 MA's), (33, 62969), (35, 62981), (40, 63044),

Gene: LiyuLake_90 Start: 58941, Stop: 59279, Start Num: 23
Candidate Starts for LiyuLake_90:
(5, 58827), (14, 58893), (Start: 23 @58941 has 27 MA's), (28, 59016), (35, 59061), (36, 59085), (37, 59103), (39, 59118), (43, 59169), (46, 59244),

Gene: Loadrie_93 Start: 59233, Stop: 59571, Start Num: 26
Candidate Starts for Loadrie_93:
(7, 59146), (Start: 26 @59233 has 31 MA's), (32, 59338), (35, 59353), (36, 59377), (38, 59401), (39, 59410), (43, 59461), (47, 59545),

Gene: Lolly9_90 Start: 59032, Stop: 59370, Start Num: 23
Candidate Starts for Lolly9_90:
(5, 58918), (Start: 23 @59032 has 27 MA's), (31, 59134), (35, 59152), (36, 59176), (37, 59194), (39, 59209), (43, 59260), (46, 59335),

Gene: Lumos_91 Start: 58844, Stop: 59182, Start Num: 23
Candidate Starts for Lumos_91:
(5, 58730), (14, 58796), (Start: 23 @58844 has 27 MA's), (35, 58964), (36, 58988), (37, 59006), (39, 59021), (43, 59072), (46, 59147),

Gene: Lynnae_95 Start: 58843, Stop: 59181, Start Num: 26
Candidate Starts for Lynnae_95:
(7, 58756), (Start: 26 @58843 has 31 MA's), (32, 58948), (35, 58963), (36, 58987), (38, 59011), (39, 59020), (43, 59071), (47, 59155),

Gene: MAckerman_88 Start: 55898, Stop: 56248, Start Num: 22
Candidate Starts for MAckerman_88:
(1, 55706), (2, 55715), (14, 55853), (20, 55868), (Start: 22 @55898 has 19 MA's), (35, 56021), (39, 56078), (43, 56129), (45, 56195), (47, 56213), (50, 56243),

Gene: MISSy_106 Start: 62566, Stop: 62877, Start Num: 27
Candidate Starts for MISSy_106:
(Start: 24 @62542 has 9 MA's), (Start: 27 @62566 has 124 MA's), (33, 62653), (35, 62665), (40, 62728),

Gene: MPhalcon_106 Start: 61984, Stop: 62295, Start Num: 27
Candidate Starts for MPhalcon_106:
(Start: 24 @61960 has 9 MA's), (Start: 27 @61984 has 124 MA's), (33, 62071), (35, 62083), (40, 62146),

Gene: MadamMonkfish_104 Start: 61291, Stop: 61602, Start Num: 27
Candidate Starts for MadamMonkfish_104:
(Start: 17 @61225 has 1 MA's), (18, 61228), (Start: 24 @61267 has 9 MA's), (Start: 27 @61291 has 124 MA's), (33, 61378), (35, 61390), (40, 61453),

Gene: Manda_106 Start: 61997, Stop: 62332, Start Num: 24
Candidate Starts for Manda_106:
(Start: 17 @61955 has 1 MA's), (18, 61958), (Start: 24 @61997 has 9 MA's), (Start: 27 @62021 has 124 MA's), (33, 62108), (35, 62120), (40, 62183),

Gene: Marshmallow_102 Start: 61979, Stop: 62290, Start Num: 27
Candidate Starts for Marshmallow_102:
(Start: 17 @61913 has 1 MA's), (18, 61916), (Start: 24 @61955 has 9 MA's), (Start: 27 @61979 has 124 MA's), (33, 62066), (35, 62078), (40, 62141),

Gene: Maxxinista_106 Start: 61768, Stop: 62079, Start Num: 27
Candidate Starts for Maxxinista_106:
(Start: 17 @61702 has 1 MA's), (18, 61705), (Start: 24 @61744 has 9 MA's), (Start: 27 @61768 has 124 MA's), (33, 61855), (35, 61867), (40, 61930),

Gene: Miley16_94 Start: 59429, Stop: 59767, Start Num: 26
Candidate Starts for Miley16_94:
(7, 59342), (Start: 26 @59429 has 31 MA's), (32, 59534), (35, 59549), (36, 59573), (38, 59597), (39, 59606), (43, 59657), (47, 59741),

Gene: Mindy_104 Start: 61300, Stop: 61611, Start Num: 27
Candidate Starts for Mindy_104:
(Start: 24 @61276 has 9 MA's), (Start: 27 @61300 has 124 MA's), (33, 61387), (35, 61399), (40, 61462),

Gene: MiniLon_95 Start: 59033, Stop: 59371, Start Num: 23
Candidate Starts for MiniLon_95:
(5, 58919), (Start: 23 @59033 has 27 MA's), (31, 59135), (35, 59153), (36, 59177), (37, 59195), (39, 59210), (43, 59261), (46, 59336),

Gene: MiniMac_95 Start: 59028, Stop: 59366, Start Num: 23
Candidate Starts for MiniMac_95:

(5, 58914), (Start: 23 @59028 has 27 MA's), (31, 59130), (35, 59148), (36, 59172), (37, 59190), (39, 59205), (43, 59256), (46, 59331),

Gene: Miniwave_100 Start: 61477, Stop: 61788, Start Num: 27
Candidate Starts for Miniwave_100:
(Start: 17 @61411 has 1 MA's), (18, 61414), (Start: 24 @61453 has 9 MA's), (Start: 27 @61477 has 124 MA's), (33, 61564), (35, 61576), (40, 61639),

Gene: Misfit_106 Start: 63080, Stop: 63391, Start Num: 27
Candidate Starts for Misfit_106:
(Start: 17 @63014 has 1 MA's), (18, 63017), (Start: 24 @63056 has 9 MA's), (Start: 27 @63080 has 124 MA's), (33, 63167), (35, 63179), (40, 63242),

Gene: MkaliMitinis3_96 Start: 59196, Stop: 59534, Start Num: 26
Candidate Starts for MkaliMitinis3_96:
(7, 59109), (Start: 26 @59196 has 31 MA's), (32, 59301), (35, 59316), (36, 59340), (38, 59364), (39, 59373), (43, 59424), (47, 59508),

Gene: Moldemort_107 Start: 61749, Stop: 62060, Start Num: 27
Candidate Starts for Moldemort_107:
(Start: 17 @61683 has 1 MA's), (18, 61686), (Start: 24 @61725 has 9 MA's), (Start: 27 @61749 has 124 MA's), (33, 61836), (35, 61848), (40, 61911),

Gene: Molivier_85 Start: 53993, Stop: 54331, Start Num: 26
Candidate Starts for Molivier_85:
(7, 53906), (Start: 26 @53993 has 31 MA's), (32, 54098), (35, 54113), (36, 54137), (38, 54161), (39, 54170), (43, 54221), (47, 54305),

Gene: MollyToe_100 Start: 59857, Stop: 60168, Start Num: 27
Candidate Starts for MollyToe_100:
(Start: 24 @59833 has 9 MA's), (Start: 27 @59857 has 124 MA's), (33, 59944), (35, 59956), (40, 60019),

Gene: Moostard_88 Start: 58951, Stop: 59289, Start Num: 23
Candidate Starts for Moostard_88:
(5, 58837), (14, 58903), (Start: 23 @58951 has 27 MA's), (35, 59071), (36, 59095), (37, 59113), (39, 59128), (40, 59131), (43, 59179), (46, 59254),

Gene: Mosby_101 Start: 61444, Stop: 61755, Start Num: 27
Candidate Starts for Mosby_101:
(Start: 17 @61378 has 1 MA's), (18, 61381), (Start: 24 @61420 has 9 MA's), (Start: 27 @61444 has 124 MA's), (33, 61531), (35, 61543), (40, 61606),

Gene: MsGreen_91 Start: 58846, Stop: 59184, Start Num: 23
Candidate Starts for MsGreen_91:
(5, 58732), (14, 58798), (Start: 23 @58846 has 27 MA's), (35, 58966), (36, 58990), (37, 59008), (39, 59023), (43, 59074), (46, 59149),

Gene: Murica_108 Start: 63783, Stop: 64094, Start Num: 27
Candidate Starts for Murica_108:
(Start: 24 @63759 has 9 MA's), (Start: 27 @63783 has 124 MA's), (33, 63870), (35, 63882), (40, 63945),

Gene: Murphy_104 Start: 62141, Stop: 62452, Start Num: 27
Candidate Starts for Murphy_104:
(Start: 17 @62075 has 1 MA's), (18, 62078), (Start: 24 @62117 has 9 MA's), (Start: 27 @62141 has 124 MA's), (33, 62228), (35, 62240), (40, 62303),

Gene: Myrale_105 Start: 62118, Stop: 62429, Start Num: 27
Candidate Starts for Myrale_105:
(Start: 24 @62094 has 9 MA's), (Start: 27 @62118 has 124 MA's), (33, 62205), (35, 62217), (40, 62280),

Gene: Nala_107 Start: 62493, Stop: 62804, Start Num: 27
Candidate Starts for Nala_107:
(Start: 24 @62469 has 9 MA's), (Start: 27 @62493 has 124 MA's), (33, 62580), (35, 62592), (40, 62655),

Gene: NelitzaMV_102 Start: 60442, Stop: 60777, Start Num: 24
Candidate Starts for NelitzaMV_102:
(Start: 24 @60442 has 9 MA's), (Start: 27 @60466 has 124 MA's), (33, 60553), (35, 60565), (40, 60628),

Gene: Netyap_93 Start: 59067, Stop: 59405, Start Num: 26
Candidate Starts for Netyap_93:
(7, 58980), (Start: 26 @59067 has 31 MA's), (32, 59172), (35, 59187), (36, 59211), (38, 59235), (39, 59244), (43, 59295), (47, 59379),

Gene: Nicholas_89 Start: 58956, Stop: 59294, Start Num: 23
Candidate Starts for Nicholas_89:
(5, 58842), (14, 58908), (Start: 23 @58956 has 27 MA's), (35, 59076), (36, 59100), (37, 59118), (39, 59133), (40, 59136), (43, 59184), (46, 59259),

Gene: Nicholasp3_94 Start: 58913, Stop: 59251, Start Num: 26
Candidate Starts for Nicholasp3_94:
(7, 58826), (Start: 26 @58913 has 31 MA's), (32, 59018), (35, 59033), (36, 59057), (38, 59081), (39, 59090), (43, 59141), (47, 59225),

Gene: Nimrod_105 Start: 62127, Stop: 62438, Start Num: 27
Candidate Starts for Nimrod_105:
(Start: 17 @62061 has 1 MA's), (18, 62064), (Start: 24 @62103 has 9 MA's), (Start: 27 @62127 has 124 MA's), (33, 62214), (35, 62226), (40, 62289),

Gene: NoSleep_105 Start: 61301, Stop: 61612, Start Num: 27
Candidate Starts for NoSleep_105:
(Start: 17 @61235 has 1 MA's), (18, 61238), (Start: 24 @61277 has 9 MA's), (Start: 27 @61301 has 124 MA's), (33, 61388), (35, 61400), (40, 61463),

Gene: NonchalantPear_105 Start: 60734, Stop: 61045, Start Num: 27
Candidate Starts for NonchalantPear_105:
(Start: 17 @60668 has 1 MA's), (18, 60671), (Start: 24 @60710 has 9 MA's), (Start: 27 @60734 has 124 MA's), (33, 60821), (35, 60833), (40, 60896),

Gene: OhShagHennessy_86 Start: 56155, Stop: 56505, Start Num: 22
Candidate Starts for OhShagHennessy_86:

(1, 55963), (2, 55972), (14, 56110), (20, 56125), (Start: 22 @56155 has 19 MA's), (35, 56278), (39, 56335), (43, 56386), (45, 56452), (47, 56470), (50, 56500),

Gene: OrionPax_103 Start: 61374, Stop: 61685, Start Num: 27
Candidate Starts for OrionPax_103:
(Start: 17 @61308 has 1 MA's), (18, 61311), (Start: 24 @61350 has 9 MA's), (Start: 27 @61374 has 124 MA's), (33, 61461), (35, 61473), (40, 61536),

Gene: OverPar_96 Start: 59233, Stop: 59571, Start Num: 26
Candidate Starts for OverPar_96:
(7, 59146), (Start: 26 @59233 has 31 MA's), (32, 59338), (35, 59353), (36, 59377), (38, 59401), (39, 59410), (43, 59461), (47, 59545),

Gene: PYPDinur_95 Start: 59385, Stop: 59735, Start Num: 23
Candidate Starts for PYPDinur_95:
(3, 59217), (10, 59310), (13, 59325), (Start: 23 @59385 has 27 MA's), (35, 59508), (39, 59565), (41, 59583), (43, 59616), (47, 59700),

Gene: PaddyBaddy_104 Start: 61492, Stop: 61803, Start Num: 27
Candidate Starts for PaddyBaddy_104:
(Start: 17 @61426 has 1 MA's), (18, 61429), (Start: 24 @61468 has 9 MA's), (Start: 27 @61492 has 124 MA's), (33, 61579), (35, 61591), (40, 61654),

Gene: Palpatine_106 Start: 62778, Stop: 63089, Start Num: 27
Candidate Starts for Palpatine_106:
(Start: 17 @62712 has 1 MA's), (18, 62715), (Start: 24 @62754 has 9 MA's), (Start: 27 @62778 has 124 MA's), (33, 62865), (35, 62877), (40, 62940),

Gene: Paperbeatsrock_104 Start: 62155, Stop: 62466, Start Num: 27
Candidate Starts for Paperbeatsrock_104:
(Start: 17 @62089 has 1 MA's), (18, 62092), (Start: 24 @62131 has 9 MA's), (Start: 27 @62155 has 124 MA's), (33, 62242), (35, 62254), (40, 62317),

Gene: Pat3_102 Start: 60672, Stop: 60983, Start Num: 27
Candidate Starts for Pat3_102:
(Start: 17 @60606 has 1 MA's), (18, 60609), (Start: 24 @60648 has 9 MA's), (Start: 27 @60672 has 124 MA's), (33, 60759), (35, 60771), (40, 60834),

Gene: Petra64142_109 Start: 62623, Stop: 62934, Start Num: 27
Candidate Starts for Petra64142_109:
(Start: 24 @62599 has 9 MA's), (Start: 27 @62623 has 124 MA's), (33, 62710), (35, 62722), (40, 62785),

Gene: Phaja_103 Start: 61359, Stop: 61670, Start Num: 27
Candidate Starts for Phaja_103:
(Start: 17 @61293 has 1 MA's), (18, 61296), (Start: 24 @61335 has 9 MA's), (Start: 27 @61359 has 124 MA's), (33, 61446), (35, 61458), (40, 61521),

Gene: Pharsalus_102 Start: 61854, Stop: 62165, Start Num: 27
Candidate Starts for Pharsalus_102:
(Start: 17 @61788 has 1 MA's), (18, 61791), (Start: 24 @61830 has 9 MA's), (Start: 27 @61854 has 124 MA's), (33, 61941), (35, 61953), (40, 62016),

Gene: PhatBacter_108 Start: 62523, Stop: 62834, Start Num: 27
Candidate Starts for PhatBacter_108:
(Start: 17 @62457 has 1 MA's), (18, 62460), (Start: 24 @62499 has 9 MA's), (Start: 27 @62523 has 124 MA's), (33, 62610), (35, 62622), (40, 62685),

Gene: Phaux_107 Start: 63083, Stop: 63394, Start Num: 27
Candidate Starts for Phaux_107:
(Start: 17 @63017 has 1 MA's), (18, 63020), (Start: 24 @63059 has 9 MA's), (Start: 27 @63083 has 124 MA's), (33, 63170), (35, 63182), (40, 63245),

Gene: Phrux_101 Start: 61161, Stop: 61472, Start Num: 27
Candidate Starts for Phrux_101:
(Start: 17 @61095 has 1 MA's), (18, 61098), (Start: 24 @61137 has 9 MA's), (Start: 27 @61161 has 124 MA's), (33, 61248), (35, 61260), (40, 61323),

Gene: Policronamos_107 Start: 62787, Stop: 63098, Start Num: 27
Candidate Starts for Policronamos_107:
(Start: 24 @62763 has 9 MA's), (Start: 27 @62787 has 124 MA's), (33, 62874), (35, 62886), (40, 62949),

Gene: Poochiewood_88 Start: 57549, Stop: 57902, Start Num: 22
Candidate Starts for Poochiewood_88:
(21, 57534), (Start: 22 @57549 has 19 MA's), (35, 57675), (39, 57732), (43, 57783), (45, 57849), (47, 57867), (50, 57897),

Gene: Porky_103 Start: 60905, Stop: 61216, Start Num: 27
Candidate Starts for Porky_103:
(Start: 17 @60839 has 1 MA's), (18, 60842), (Start: 24 @60881 has 9 MA's), (Start: 27 @60905 has 124 MA's), (33, 60992), (35, 61004), (40, 61067),

Gene: Ptowny_101 Start: 60282, Stop: 60506, Start Num: 33
Candidate Starts for Ptowny_101:
(Start: 17 @60129 has 1 MA's), (18, 60132), (Start: 24 @60171 has 9 MA's), (Start: 27 @60195 has 124 MA's), (33, 60282), (35, 60294), (40, 60357),

Gene: Pumpkin_106 Start: 61501, Stop: 61812, Start Num: 27
Candidate Starts for Pumpkin_106:
(Start: 17 @61435 has 1 MA's), (18, 61438), (Start: 24 @61477 has 9 MA's), (Start: 27 @61501 has 124 MA's), (33, 61588), (35, 61600), (40, 61663),

Gene: Quallification_106 Start: 62569, Stop: 62880, Start Num: 27
Candidate Starts for Quallification_106:
(Start: 17 @62503 has 1 MA's), (18, 62506), (Start: 24 @62545 has 9 MA's), (Start: 27 @62569 has 124 MA's), (33, 62656), (35, 62668), (40, 62731),

Gene: Quby_94 Start: 58626, Stop: 58979, Start Num: 23
Candidate Starts for Quby_94:
(3, 58458), (10, 58551), (Start: 23 @58626 has 27 MA's), (35, 58749), (39, 58806), (41, 58824), (43, 58857), (47, 58941),

Gene: Rakim_106 Start: 61570, Stop: 61881, Start Num: 27
Candidate Starts for Rakim_106:

(Start: 24 @61546 has 9 MA's), (Start: 27 @61570 has 124 MA's), (33, 61657), (35, 61669), (40, 61732),

Gene: Red305_92 Start: 58847, Stop: 59185, Start Num: 23
Candidate Starts for Red305_92:
(5, 58733), (14, 58799), (Start: 23 @58847 has 27 MA's), (35, 58967), (36, 58991), (37, 59009), (39, 59024), (43, 59075), (46, 59150),

Gene: Rimmer_103 Start: 61960, Stop: 62271, Start Num: 27
Candidate Starts for Rimmer_103:
(Start: 24 @61936 has 9 MA's), (Start: 27 @61960 has 124 MA's), (33, 62047), (35, 62059), (40, 62122),

Gene: RiverMonster_104 Start: 61990, Stop: 62367, Start Num: 17
Candidate Starts for RiverMonster_104:
(Start: 17 @61990 has 1 MA's), (18, 61993), (Start: 24 @62032 has 9 MA's), (Start: 27 @62056 has 124 MA's), (33, 62143), (35, 62155), (40, 62218),

Gene: Rose5_91 Start: 57422, Stop: 57772, Start Num: 22
Candidate Starts for Rose5_91:
(1, 57230), (2, 57239), (14, 57377), (20, 57392), (Start: 22 @57422 has 19 MA's), (35, 57545), (39, 57602), (43, 57653), (45, 57719), (47, 57737), (50, 57767),

Gene: Rossetti_94 Start: 59232, Stop: 59570, Start Num: 26
Candidate Starts for Rossetti_94:
(7, 59145), (Start: 26 @59232 has 31 MA's), (35, 59352), (36, 59376), (38, 59400), (39, 59409), (43, 59460), (47, 59544),

Gene: Rumpelstiltskin_90 Start: 58706, Stop: 59044, Start Num: 26
Candidate Starts for Rumpelstiltskin_90:
(7, 58619), (Start: 26 @58706 has 31 MA's), (32, 58811), (35, 58826), (36, 58850), (38, 58874), (39, 58883), (43, 58934), (47, 59018),

Gene: Saints25_101 Start: 59986, Stop: 60297, Start Num: 27
Candidate Starts for Saints25_101:
(Start: 17 @59920 has 1 MA's), (18, 59923), (Start: 24 @59962 has 9 MA's), (Start: 27 @59986 has 124 MA's), (33, 60073), (35, 60085), (40, 60148),

Gene: Samty_90 Start: 58944, Stop: 59282, Start Num: 23
Candidate Starts for Samty_90:
(5, 58830), (14, 58896), (Start: 23 @58944 has 27 MA's), (35, 59064), (36, 59088), (37, 59106), (39, 59121), (40, 59124), (43, 59172), (46, 59247),

Gene: Sarshaun_95 Start: 59824, Stop: 60162, Start Num: 26
Candidate Starts for Sarshaun_95:
(7, 59737), (Start: 26 @59824 has 31 MA's), (32, 59929), (35, 59944), (36, 59968), (38, 59992), (39, 60001), (43, 60052), (47, 60136),

Gene: Sassay_100 Start: 60382, Stop: 60717, Start Num: 24
Candidate Starts for Sassay_100:
(Start: 17 @60340 has 1 MA's), (18, 60343), (Start: 24 @60382 has 9 MA's), (Start: 27 @60406 has 124 MA's), (33, 60493), (35, 60505), (40, 60568),

Gene: ShamWow_105 Start: 62334, Stop: 62645, Start Num: 27
Candidate Starts for ShamWow_105:
(Start: 24 @62310 has 9 MA's), (Start: 27 @62334 has 124 MA's), (33, 62421), (35, 62433), (40, 62496),

Gene: Sheng711_96 Start: 58861, Stop: 59211, Start Num: 23
Candidate Starts for Sheng711_96:
(3, 58693), (8, 58780), (9, 58783), (10, 58786), (13, 58801), (Start: 23 @58861 has 27 MA's), (35, 58984), (39, 59041), (41, 59059), (43, 59092),

Gene: ShereKhan_103 Start: 62815, Stop: 63126, Start Num: 27
Candidate Starts for ShereKhan_103:
(Start: 17 @62749 has 1 MA's), (18, 62752), (Start: 24 @62791 has 9 MA's), (Start: 27 @62815 has 124 MA's), (33, 62902), (35, 62914), (40, 62977),

Gene: Silverleaf_89 Start: 56918, Stop: 57268, Start Num: 22
Candidate Starts for Silverleaf_89:
(1, 56726), (2, 56735), (14, 56873), (20, 56888), (Start: 22 @56918 has 19 MA's), (35, 57041), (39, 57098), (43, 57149), (45, 57215), (47, 57233), (50, 57263),

Gene: Simpliphy_103 Start: 61627, Stop: 61938, Start Num: 27
Candidate Starts for Simpliphy_103:
(Start: 17 @61561 has 1 MA's), (18, 61564), (Start: 24 @61603 has 9 MA's), (Start: 27 @61627 has 124 MA's), (33, 61714), (35, 61726), (40, 61789),

Gene: SirDuracell_105 Start: 61172, Stop: 61483, Start Num: 27
Candidate Starts for SirDuracell_105:
(Start: 24 @61148 has 9 MA's), (Start: 27 @61172 has 124 MA's), (33, 61259), (35, 61271), (40, 61334),

Gene: Snenia_90 Start: 58848, Stop: 59186, Start Num: 23
Candidate Starts for Snenia_90:
(5, 58734), (14, 58800), (Start: 23 @58848 has 27 MA's), (35, 58968), (36, 58992), (37, 59010), (39, 59025), (43, 59076), (46, 59151),

Gene: SoJulia_96 Start: 60589, Stop: 60927, Start Num: 26
Candidate Starts for SoJulia_96:
(7, 60502), (Start: 26 @60589 has 31 MA's), (32, 60694), (35, 60709), (36, 60733), (38, 60757), (39, 60766), (43, 60817), (47, 60901),

Gene: Soap141_94 Start: 59824, Stop: 60162, Start Num: 26
Candidate Starts for Soap141_94:
(7, 59737), (Start: 26 @59824 has 31 MA's), (32, 59929), (35, 59944), (36, 59968), (38, 59992), (39, 60001), (43, 60052), (47, 60136),

Gene: SophKB_103 Start: 61616, Stop: 61927, Start Num: 27
Candidate Starts for SophKB_103:
(Start: 17 @61550 has 1 MA's), (18, 61553), (Start: 24 @61592 has 9 MA's), (Start: 27 @61616 has 124 MA's), (33, 61703), (35, 61715), (40, 61778),

Gene: Sotrice96_106 Start: 62080, Stop: 62391, Start Num: 27
Candidate Starts for Sotrice96_106:

(Start: 24 @62056 has 9 MA's), (Start: 27 @62080 has 124 MA's), (33, 62167), (35, 62179), (40, 62242),

Gene: Stank_107 Start: 61854, Stop: 62165, Start Num: 27
Candidate Starts for Stank_107:
(Start: 17 @61788 has 1 MA's), (18, 61791), (Start: 24 @61830 has 9 MA's), (Start: 27 @61854 has 124 MA's), (33, 61941), (35, 61953), (40, 62016),

Gene: Stark_105 Start: 61940, Stop: 62251, Start Num: 27
Candidate Starts for Stark_105:
(Start: 17 @61874 has 1 MA's), (18, 61877), (Start: 24 @61916 has 9 MA's), (Start: 27 @61940 has 124 MA's), (33, 62027), (35, 62039), (40, 62102),

Gene: StellaBean_104 Start: 62237, Stop: 62548, Start Num: 27
Candidate Starts for StellaBean_104:
(Start: 24 @62213 has 9 MA's), (Start: 27 @62237 has 124 MA's), (33, 62324), (35, 62336), (40, 62399),

Gene: StolenFromERC_107 Start: 61779, Stop: 62090, Start Num: 27
Candidate Starts for StolenFromERC_107:
(Start: 17 @61713 has 1 MA's), (18, 61716), (Start: 24 @61755 has 9 MA's), (Start: 27 @61779 has 124 MA's), (33, 61866), (35, 61878), (40, 61941),

Gene: StormChicken_106 Start: 62100, Stop: 62435, Start Num: 24
Candidate Starts for StormChicken_106:
(Start: 24 @62100 has 9 MA's), (Start: 27 @62124 has 124 MA's), (33, 62211), (35, 62223), (40, 62286),

Gene: TBrady12_108 Start: 61291, Stop: 61602, Start Num: 27
Candidate Starts for TBrady12_108:
(Start: 17 @61228 has 1 MA's), (18, 61231), (Start: 24 @61267 has 9 MA's), (Start: 27 @61291 has 124 MA's), (33, 61378), (35, 61390), (40, 61453),

Gene: Tarkin_104 Start: 62680, Stop: 62991, Start Num: 27
Candidate Starts for Tarkin_104:
(Start: 17 @62614 has 1 MA's), (18, 62617), (Start: 24 @62656 has 9 MA's), (Start: 27 @62680 has 124 MA's), (33, 62767), (35, 62779), (40, 62842),

Gene: TeamEdward_105 Start: 62321, Stop: 62632, Start Num: 27
Candidate Starts for TeamEdward_105:
(Start: 24 @62297 has 9 MA's), (Start: 27 @62321 has 124 MA's), (33, 62408), (35, 62420), (40, 62483),

Gene: TeardropMSU_101 Start: 61182, Stop: 61493, Start Num: 27
Candidate Starts for TeardropMSU_101:
(Start: 24 @61158 has 9 MA's), (Start: 27 @61182 has 124 MA's), (33, 61269), (35, 61281), (40, 61344),

Gene: Teaspoon_105 Start: 61839, Stop: 62150, Start Num: 27
Candidate Starts for Teaspoon_105:
(Start: 17 @61773 has 1 MA's), (18, 61776), (Start: 24 @61815 has 9 MA's), (Start: 27 @61839 has 124 MA's), (33, 61926), (35, 61938), (40, 62001),

Gene: Terminus_108 Start: 63080, Stop: 63391, Start Num: 27
Candidate Starts for Terminus_108:
(Start: 17 @63014 has 1 MA's), (18, 63017), (Start: 24 @63056 has 9 MA's), (Start: 27 @63080 has 124 MA's), (33, 63167), (35, 63179), (40, 63242),

Gene: Thimble_107 Start: 61041, Stop: 61352, Start Num: 27
Candidate Starts for Thimble_107:
(Start: 17 @60978 has 1 MA's), (18, 60981), (Start: 24 @61017 has 9 MA's), (Start: 27 @61041 has 124 MA's), (33, 61128), (35, 61140), (40, 61203),

Gene: Thresher_106 Start: 62720, Stop: 63031, Start Num: 27
Candidate Starts for Thresher_106:
(Start: 17 @62654 has 1 MA's), (18, 62657), (Start: 24 @62696 has 9 MA's), (Start: 27 @62720 has 124 MA's), (33, 62807), (35, 62819), (40, 62882),

Gene: Tomaszewski_100 Start: 61618, Stop: 61929, Start Num: 27
Candidate Starts for Tomaszewski_100:
(Start: 17 @61552 has 1 MA's), (18, 61555), (Start: 24 @61594 has 9 MA's), (Start: 27 @61618 has 124 MA's), (33, 61705), (35, 61717), (40, 61780),

Gene: Toto_103 Start: 62334, Stop: 62645, Start Num: 27
Candidate Starts for Toto_103:
(Start: 24 @62310 has 9 MA's), (Start: 27 @62334 has 124 MA's), (33, 62421), (35, 62433), (40, 62496),

Gene: Tourach_94 Start: 59803, Stop: 60141, Start Num: 26
Candidate Starts for Tourach_94:
(Start: 26 @59803 has 31 MA's), (35, 59923), (36, 59947), (38, 59971), (39, 59980), (43, 60031), (47, 60115),

Gene: Traaww1_101 Start: 60883, Stop: 61194, Start Num: 27
Candidate Starts for Traaww1_101:
(15, 60811), (Start: 17 @60817 has 1 MA's), (18, 60820), (Start: 24 @60859 has 9 MA's), (Start: 27 @60883 has 124 MA's), (33, 60970), (35, 60982), (40, 61045),

Gene: TriFive_92 Start: 58960, Stop: 59298, Start Num: 23
Candidate Starts for TriFive_92:
(5, 58846), (14, 58912), (Start: 23 @58960 has 27 MA's), (35, 59080), (36, 59104), (37, 59122), (39, 59137), (43, 59188), (46, 59263),

Gene: Tuco_106 Start: 63241, Stop: 63552, Start Num: 27
Candidate Starts for Tuco_106:
(Start: 24 @63217 has 9 MA's), (Start: 27 @63241 has 124 MA's), (33, 63328), (35, 63340), (40, 63403),

Gene: Tyson_91 Start: 57312, Stop: 57665, Start Num: 22
Candidate Starts for Tyson_91:
(21, 57297), (Start: 22 @57312 has 19 MA's), (35, 57438), (39, 57495), (43, 57546), (45, 57612), (47, 57630), (50, 57660),

Gene: UPIE_89 Start: 56908, Stop: 57261, Start Num: 22
Candidate Starts for UPIE_89:

(21, 56893), (Start: 22 @56908 has 19 MA's), (35, 57034), (39, 57091), (43, 57142), (45, 57208), (47, 57226), (50, 57256),

Gene: Ukulele_99 Start: 61439, Stop: 61750, Start Num: 27
Candidate Starts for Ukulele_99:
(Start: 17 @61373 has 1 MA's), (18, 61376), (Start: 24 @61415 has 9 MA's), (Start: 27 @61439 has 124 MA's), (33, 61526), (35, 61538), (40, 61601),

Gene: Underpass_86 Start: 53949, Stop: 54287, Start Num: 26
Candidate Starts for Underpass_86:
(7, 53862), (Start: 26 @53949 has 31 MA's), (32, 54054), (35, 54069), (36, 54093), (38, 54117), (39, 54126), (43, 54177), (47, 54261),

Gene: Vetrix_92 Start: 58687, Stop: 59025, Start Num: 26
Candidate Starts for Vetrix_92:
(7, 58600), (Start: 26 @58687 has 31 MA's), (32, 58792), (35, 58807), (36, 58831), (38, 58855), (39, 58864), (43, 58915), (47, 58999),

Gene: Wamburgrxpress_89 Start: 57039, Stop: 57389, Start Num: 22
Candidate Starts for Wamburgrxpress_89:
(1, 56847), (2, 56856), (14, 56994), (20, 57009), (Start: 22 @57039 has 19 MA's), (35, 57162), (39, 57219), (43, 57270), (45, 57336), (47, 57354), (50, 57384),

Gene: Whirlwind_92 Start: 59187, Stop: 59525, Start Num: 23
Candidate Starts for Whirlwind_92:
(5, 59073), (14, 59139), (Start: 23 @59187 has 27 MA's), (35, 59307), (36, 59331), (37, 59349), (39, 59364), (43, 59415), (46, 59490),

Gene: Wiggin_107 Start: 61284, Stop: 61595, Start Num: 27
Candidate Starts for Wiggin_107:
(Start: 17 @61218 has 1 MA's), (18, 61221), (Start: 24 @61260 has 9 MA's), (Start: 27 @61284 has 124 MA's), (33, 61371), (35, 61383), (40, 61446),

Gene: Wigglewiggle_94 Start: 58989, Stop: 59327, Start Num: 26
Candidate Starts for Wigglewiggle_94:
(7, 58902), (Start: 26 @58989 has 31 MA's), (32, 59094), (35, 59109), (36, 59133), (38, 59157), (39, 59166), (43, 59217), (47, 59301),

Gene: Wilder_95 Start: 58831, Stop: 59169, Start Num: 26
Candidate Starts for Wilder_95:
(7, 58744), (Start: 26 @58831 has 31 MA's), (32, 58936), (35, 58951), (36, 58975), (38, 58999), (39, 59008), (43, 59059), (47, 59143),

Gene: Willez_100 Start: 60406, Stop: 60717, Start Num: 27
Candidate Starts for Willez_100:
(Start: 17 @60340 has 1 MA's), (18, 60343), (Start: 24 @60382 has 9 MA's), (Start: 27 @60406 has 124 MA's), (33, 60493), (35, 60505), (40, 60568),

Gene: Winky_94 Start: 59429, Stop: 59767, Start Num: 26
Candidate Starts for Winky_94:
(7, 59342), (Start: 26 @59429 has 31 MA's), (32, 59534), (35, 59549), (36, 59573), (38, 59597), (39, 59606), (43, 59657), (47, 59741),

Gene: Wyatt2_91 Start: 57346, Stop: 57696, Start Num: 22
Candidate Starts for Wyatt2_91:
(1, 57154), (2, 57163), (14, 57301), (20, 57316), (Start: 22 @57346 has 19 MA's), (35, 57469), (39, 57526), (43, 57577), (45, 57643), (47, 57661), (50, 57691),

Gene: Xandras_104 Start: 61107, Stop: 61418, Start Num: 27
Candidate Starts for Xandras_104:
(Start: 17 @61041 has 1 MA's), (18, 61044), (Start: 24 @61083 has 9 MA's), (Start: 27 @61107 has 124 MA's), (33, 61194), (35, 61206), (40, 61269),

Gene: YassJohnny_102 Start: 60427, Stop: 60738, Start Num: 27
Candidate Starts for YassJohnny_102:
(Start: 24 @60403 has 9 MA's), (Start: 27 @60427 has 124 MA's), (33, 60514), (35, 60526), (40, 60589),

Gene: Youngblood_108 Start: 62576, Stop: 62887, Start Num: 27
Candidate Starts for Youngblood_108:
(Start: 24 @62552 has 9 MA's), (Start: 27 @62576 has 124 MA's), (33, 62663), (35, 62675), (40, 62738),

Gene: Zakai_95 Start: 59474, Stop: 59812, Start Num: 26
Candidate Starts for Zakai_95:
(7, 59387), (Start: 26 @59474 has 31 MA's), (32, 59579), (35, 59594), (36, 59618), (38, 59642), (39, 59651), (43, 59702), (47, 59786),

Gene: Zaria_90 Start: 56454, Stop: 56804, Start Num: 22
Candidate Starts for Zaria_90:
(1, 56262), (2, 56271), (14, 56409), (20, 56424), (Start: 22 @56454 has 19 MA's), (35, 56577), (39, 56634), (43, 56685), (45, 56751), (47, 56769), (50, 56799),

Gene: ZhongYanYuan_91 Start: 58885, Stop: 59223, Start Num: 26
Candidate Starts for ZhongYanYuan_91:
(4, 58735), (7, 58798), (19, 58846), (Start: 26 @58885 has 31 MA's), (35, 59005), (36, 59029), (38, 59053), (39, 59062), (43, 59113), (47, 59197),

Gene: xkcd_108 Start: 62761, Stop: 63072, Start Num: 27
Candidate Starts for xkcd_108:
(Start: 24 @62737 has 9 MA's), (Start: 27 @62761 has 124 MA's), (33, 62848), (35, 62860), (40, 62923),