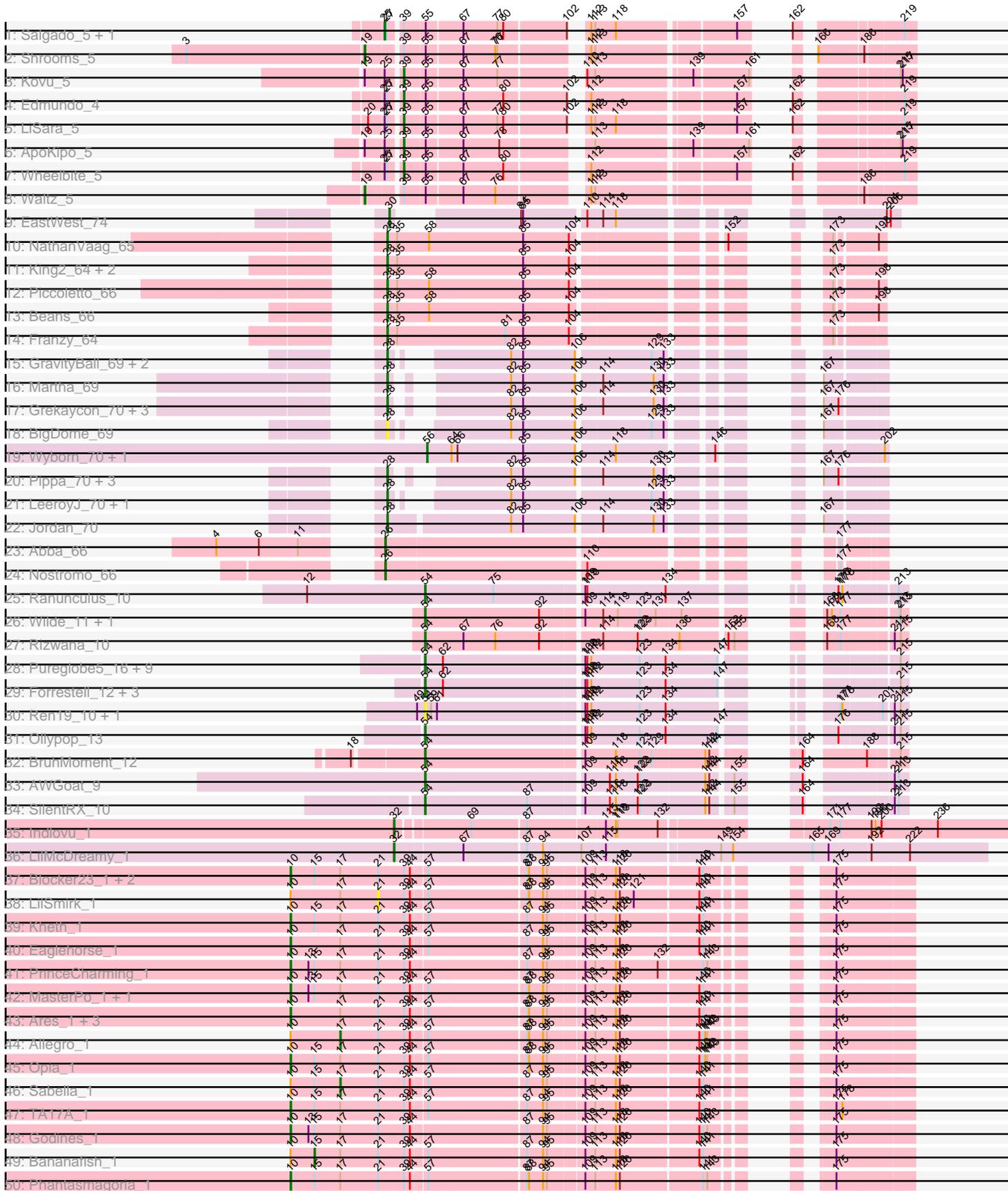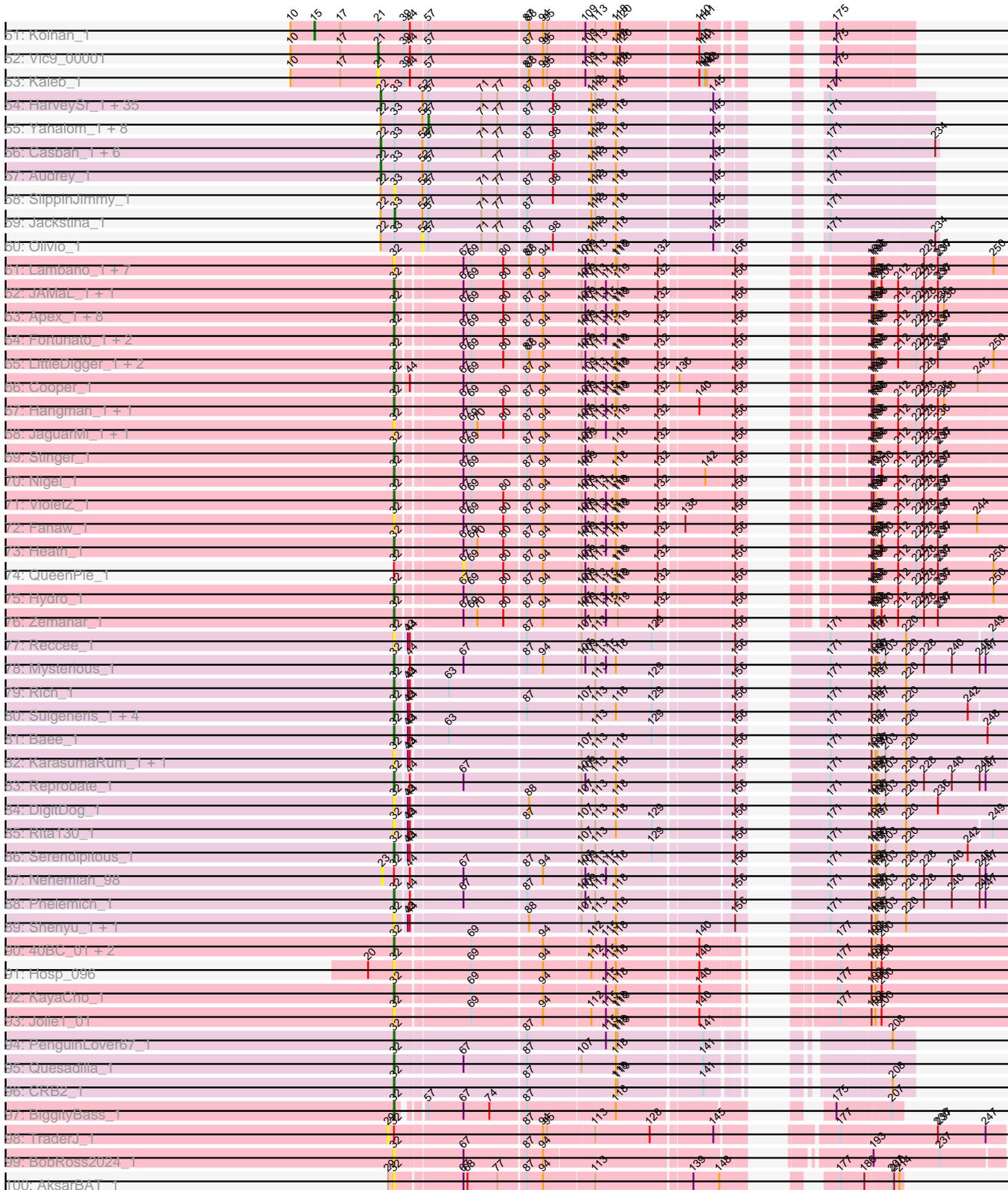# Pham 283439

Pham 283439

Pham 283439

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 283439 Report

This analysis was run 02/23/26 on database version 636.

Pham number 283439 has 271 members, 56 are drafts.

Phages represented in each track:
• Track 1 : Salgado_5, Laroye_5
• Track 2 : Shrooms_5
• Track 3 : Kovu_5
• Track 4 : Edmundo_4
• Track 5 : LiSara_5
• Track 6 : ApoKipo_5
• Track 7 : Wheelbite_5
• Track 8 : Waltz_5
• Track 9 : EastWest_74
• Track 10 : NathanVaag_65
• Track 11 : King2_64, Brent_66, Jawnski_65
• Track 12 : Piccoletto_66
• Track 13 : Beans_66
• Track 14 : Franzy_64
• Track 15 : GravityBall_69, BarretLemon_69, StevieBAY_70
• Track 16 : Martha_69
• Track 17 : Grekaycon_70, JKerns_69, TaeYoung_70, BossLady_71
• Track 18 : BigDome_69
• Track 19 : Wyborn_70, Sicarius2_71
• Track 20 : Pippa_70, Shade_69, Sonny_69, Zartrosa_71
• Track 21 : LeeroyJ_70, Timinator_70
• Track 22 : Jordan_70
• Track 23 : Abba_66
• Track 24 : Nostromo_66
• Track 25 : Ranunculus_10
• Track 26 : Wilde_11, Tank_11
• Track 27 : Rizwana_10
• Track 28 : Pureglobe5_16, Hive_13, PhuzzTulsa_12, Kubulix_15, Beagle_15, DogYard_14, Popstraw_13, Odyssey395_16, BetaFish_14, Pointis_14
• Track 29 : Forrestell_12, MellowYellow_12, RazzB_11, NyleyClemson_12
• Track 30 : Ren19_10, Nikan_12
• Track 31 : Ollypop_13
• Track 32 : BruhMoment_12
• Track 33 : AWGoat_9
• Track 34 : SilentRX_10
• Track 35 : Indlovu_1
• Track 36 : LilMcDreamy_1

- Track 37 : Blocker23_1, Laurie_1, Tres_1
- Track 38 : LilSmirk_1
- Track 39 : Kheth_1
- Track 40 : Eaglehorse_1
- Track 41 : PrinceCharming_1
- Track 42 : MasterPo_1, Lephleur_1
- Track 43 : Ares_1, Calamitous_1, ItsyBitsy1_1, Holeinone_1
- Track 44 : Allegro_1
- Track 45 : Opia_1
- Track 46 : Sabella_1
- Track 47 : TA17A_1
- Track 48 : Godines_1
- Track 49 : Bananafish_1
- Track 50 : Phantasmagoria_1
- Track 51 : Kolhan_1
- Track 52 : Vic9_00001
- Track 53 : Kaleb_1
- Track 54 : HarveySr_1, Neos5_1, Compostia_1, Chalmers_1, Devonte_1, ChaChing_1, Abinghost_1, Gadjet_1, Deenasa_1, Akoma_1, Phlyer_1, GlenHope_1, SynergyX_1, Rita1961_1, Pipefish_1, Gervas_1, Briakila_1, Philly_1, MmasiCarm_1, Athena_1, Baloo_1, Glubnar_1, RomaT_1, RagingRooster_1, Nozo_1, Corofin_1, Yinz_1, Chandler_1, Heathcliff_1, OrangeOswald_1, Obutu_1, TinyTerror_1, LestyG_1, Marley1013_1, Daisy_1, Shenandoah_1
- Track 55 : Yahalom_1, Mulaychimus_1, Marlia_1, Morty007_1, Bernardo_1, Tydolla_1, Phaedrus_1, Kamiyu_1, SwainyDoc_1
- Track 56 : Casbah_1, Kronus_1, Phayeta_1, Halfpint_1, Mortcellus_1, Ben11_1, Chentzyk_1
- Track 57 : Audrey_1
- Track 58 : SlippinJimmy_1
- Track 59 : Jackstina_1
- Track 60 : Olivio_1
- Track 61 : Lambano_1, Hally898_1, Antihero_1, Epah_1, Ahwei_1, GinPorsche_1, Nanao_1, Poster_1
- Track 62 : JAMaL_1, BobbyK_1
- Track 63 : Apex_1, Lolalove_1, Prince_1, Mudslide_1, Frederick_1, Waleliano_1, BrownCNA_1, Mithril_1, Austelle_1
- Track 64 : Fortunato_1, Magpie_1, RawrgerThat_1
- Track 65 : LittleDigger_1, ChrisnMich_1, Renkei_1
- Track 66 : Cooper_1
- Track 67 : Hangman_1, JoyceMaria_1
- Track 68 : JaguarMi_1, Xincheng_1
- Track 69 : Stinger_1
- Track 70 : Nigel_1
- Track 71 : VioletZ_1
- Track 72 : Fanaw_1
- Track 73 : Heath_1
- Track 74 : QueenPie_1
- Track 75 : Hydro_1
- Track 76 : Zemanar_1
- Track 77 : Reccee_1
- Track 78 : Mysterious_1
- Track 79 : Rich_1
- Track 80 : Suigeneris_1, EastView9101_1, Acadian_1, SirJeffery_1, Donny_1

- Track 81 : Baee_1
- Track 82 : KarasumaRum_1, StinkyVeggy_1
- Track 83 : Reprobate_1
- Track 84 : DigitDog_1
- Track 85 : Rita130_1
- Track 86 : Serendipitous_1
- Track 87 : Nehemiah_98
- Track 88 : Phelemich_1
- Track 89 : Shenyu_1, Nangang_1
- Track 90 : 40BC_01, 39HC_01, ForDig_1
- Track 91 : Hosp_096
- Track 92 : KayaCho_1
- Track 93 : Jolie1_01
- Track 94 : PenguinLover67_1
- Track 95 : Quesadilla_1
- Track 96 : CRB2_1
- Track 97 : BiggityBass_1
- Track 98 : TraderJ_1
- Track 99 : BobRoss2024_1
- Track 100 : AksarBAT_1
- Track 101 : Fresco_1, Axumite_1, Shatter_1, Ligma_1
- Track 102 : Mariokart_1
- Track 103 : Wooper_1
- Track 104 : NHagos_1
- Track 105 : CaiB_1
- Track 106 : MakoManhole_1, FelixTres_1, MossRose_1, CloverMinnie_1, AnarQue_1
- Track 107 : Evaa_1
- Track 108 : Sisko_1
- Track 109 : CharlottesWeb_1
- Track 110 : LittleMunchkin_1
- Track 111 : Blackpen_1
- Track 112 : Yago84_1
- Track 113 : Yeshua_1
- Track 114 : Coldpizza_1
- Track 115 : Sour_1
- Track 116 : Nicole72_1
- Track 117 : Megan_1
- Track 118 : MementoMori_97
- Track 119 : Cinna_94, Matzah_98
- Track 120 : Terij_1
- Track 121 : Cinna_1, Matzah_1
- Track 122 : Margaery_97
- Track 123 : Cressida_1
- Track 124 : MementoMori_1
- Track 125 : Margaery_1
- Track 126 : Cressida_96
- Track 127 : Maruru_87
- Track 128 : Sunshine23_89
- Track 129 : Sonali_86
- Track 130 : Gooberta_76
- Track 131 : GoldDust_75
- Track 132 : Vitus_80

- Track 133 : Music_80
- Track 134 : Ottawa_72, Kharcho_72
- Track 135 : Kharcho_73, Ottawa_73
- Track 136 : RomansRevenge_8, Boise_8
- Track 137 : Wrackline_72
- Track 138 : Hilltopfarm_1
- Track 139 : Typha_1, AuntGwenStacy_1, Faiyaz_1
- Track 140 : Bipper_1
- Track 141 : Cracklewink_1
- Track 142 : BigAnti_67
- Track 143 : Jace_85
- Track 144 : Tonitrus_1
- Track 145 : Finch_210

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

The start number called the most often in the published annotations is 32, it was called in 51 of the 215 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
- 39HC_01, 40BC_01, Acadian_1, Ahwei_1, AksarBAT_1, Antihero_1, Apex_1, Austelle_1, Axumite_1, Baee_1, BiggityBass_1, BobRoss2024_1, BobbyK_1, BrownCNA_1, CRB2_1, ChrisnMich_1, Coldpizza_1, Cooper_1, DigitDog_1, Donny_1, EastView9101_1, Epah_1, Evaa_1, Fanaw_1, ForDig_1, Fortunato_1, Frederick_1, Fresco_1, GinPorsche_1, Hally898_1, Hangman_1, Heath_1, Hosp_096, Hydro_1, Indlovu_1, JAMaL_1, JaguarMi_1, Jolie1_01, JoyceMaria_1, KarasumaRum_1, KayaCho_1, Lambano_1, Ligma_1, LilMcDreamy_1, LittleDigger_1, LittleMunchkin_1, Lolalove_1, Magpie_1, Mariokart_1, Mithril_1, Mudslide_1, Mysterious_1, Nanao_1, Nangang_1, Nigel_1, PenguinLover67_1, Phelemich_1, Poster_1, Prince_1, Quesadilla_1, RawrgerThat_1, Reccee_1, Renkei_1, Reprobate_1, Rich_1, Rita130_1, Serendipitous_1, Shatter_1, Shenyu_1, SirJeffery_1, Sisko_1, Stinger_1, StinkyVeggy_1, Suigeneris_1, VioletZ_1, Waleliano_1, Xincheng_1, Yago84_1, Zemanar_1,

Genes that have the "Most Annotated" start but do not call it:
- AnarQue_1, Blackpen_1, CaiB_1, CharlottesWeb_1, CloverMinnie_1, FelixTres_1, MakoManhole_1, MossRose_1, NHagos_1, Nehemiah_98, QueenPie_1, TraderJ_1, Wooper_1, Yeshua_1,

Genes that do not have the "Most Annotated" start:
- AWGoat_9, Abba_66, Abinghost_1, Akoma_1, Allegro_1, ApoKipo_5, Ares_1, Athena_1, Audrey_1, AuntGwenStacy_1, Baloo_1, Bananafish_1, BarretLemon_69, Beagle_15, Beans_66, Ben11_1, Bernardo_1, BetaFish_14, BigAnti_67, BigDome_69, Bipper_1, Blocker23_1, Boise_8, BossLady_71, Brent_66, Briakila_1, BruhMoment_12, Calamitous_1, Casbah_1, ChaChing_1, Chalmers_1, Chandler_1, Chentzyk_1, Cinna_1, Cinna_94, Compostia_1, Corofin_1, Cracklewink_1, Cressida_1, Cressida_96, Daisy_1, Deenasa_1, Devonte_1, DogYard_14, Eaglehorse_1, EastWest_74, Edmundo_4, Faiyaz_1, Finch_210, Forrestell_12, Franzy_64, Gadjet_1, Gervas_1, GlenHope_1, Glubnar_1, Godines_1, GoldDust_75, Gooberta_76, GravityBall_69, Grekaycon_70, Halfpint_1, HarveySr_1, Heathcliff_1,

Hilltopfarm_1, Hive_13, Holeinone_1, ItsyBitsy1_1, JKerns_69, Jace_85, Jackstina_1, Jawnski_65, Jordan_70, Kaleb_1, Kamiyu_1, Kharcho_72, Kharcho_73, Kheth_1, King2_64, Kolhan_1, Kovu_5, Kronus_1, Kubulix_15, Laroye_5, Laurie_1, LeeroyJ_70, Lephleur_1, LestyG_1, LiSara_5, LilSmirk_1, Margaery_1, Margaery_97, Marley1013_1, Marlia_1, Martha_69, Maruru_87, MasterPo_1, Matzah_1, Matzah_98, Megan_1, MellowYellow_12, MementoMori_1, MementoMori_97, MmasiCarm_1, Mortcellus_1, Morty007_1, Mulaychimus_1, Music_80, NathanVaag_65, Neos5_1, Nicole72_1, Nikan_12, Nostromo_66, Nozo_1, NyleyClemson_12, Obutu_1, Odyssey395_16, Olivio_1, Ollypop_13, Opia_1, OrangeOswald_1, Ottawa_72, Ottawa_73, Phaedrus_1, Phantasmagoria_1, Phayeta_1, Philly_1, Phlyer_1, PhuzzTulsa_12, Piccoletto_66, Pipefish_1, Pippa_70, Pointis_14, Popstraw_13, PrinceCharming_1, Pureglobe5_16, RagingRooster_1, Ranunculus_10, RazzB_11, Ren19_10, Rita1961_1, Rizwana_10, RomaT_1, RomansRevenge_8, Sabella_1, Salgado_5, Shade_69, Shenandoah_1, Shrooms_5, Sicarius2_71, SilentRX_10, SlippinJimmy_1, Sonali_86, Sonny_69, Sour_1, StevieBAY_70, Sunshine23_89, SwainyDoc_1, SynergyX_1, TA17A_1, TaeYoung_70, Tank_11, Terij_1, Timinator_70, TinyTerror_1, Tonitrus_1, Tres_1, Tydolla_1, Typha_1, Vic9_00001, Vitus_80, Waltz_5, Wheelbite_5, Wilde_11, Wrackline_72, Wyborn_70, Yahalom_1, Yinz_1, Zartrosa_71,

Summary by start number:

Start 10:
• Found in 23 of 271 (8.5%) of genes in pham
• Manual Annotations of this start: 16 of 215
• Called 69.6% of time when present
• Phage (with cluster) where this start called: Ares_1 (B2), Blocker23_1 (B2), Calamitous_1 (B2), Eaglehorse_1 (B2), Godines_1 (B2), Holeinone_1 (B2), ItsyBitsy1_1 (B2), Kheth_1 (B2), Laurie_1 (B2), Lephleur_1 (B2), MasterPo_1 (B2), Opia_1 (B2), Phantasmagoria_1 (B2), PrinceCharming_1 (B2), TA17A_1 (B2), Tres_1 (B2),

Start 15:
• Found in 14 of 271 (5.2%) of genes in pham
• Manual Annotations of this start: 2 of 215
• Called 14.3% of time when present
• Phage (with cluster) where this start called: Bananafish_1 (B2), Kolhan_1 (B2),

Start 17:
• Found in 23 of 271 (8.5%) of genes in pham
• Manual Annotations of this start: 2 of 215
• Called 8.7% of time when present
• Phage (with cluster) where this start called: Allegro_1 (B2), Sabella_1 (B2),

Start 19:
• Found in 4 of 271 (1.5%) of genes in pham
• Manual Annotations of this start: 2 of 215
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Shrooms_5 (AL), Waltz_5 (AL),

Start 21:
• Found in 23 of 271 (8.5%) of genes in pham
• Manual Annotations of this start: 1 of 215

• Called 13.0% of time when present
• Phage (with cluster) where this start called: Kaleb_1 (B2), LilSmirk_1 (B2), Vic9_00001 (B2),

Start 22:
• Found in 56 of 271 (20.7%) of genes in pham
• Manual Annotations of this start: 43 of 215
• Called 78.6% of time when present
• Phage (with cluster) where this start called: Abinghost_1 (B3), Akoma_1 (B3), Athena_1 (B3), Audrey_1 (B3), Baloo_1 (B3), Ben11_1 (B3), Briakila_1 (B3), Casbah_1 (B3), ChaChing_1 (B3), Chalmers_1 (B3), Chandler_1 (B3), Chentzyk_1 (B3), Compostia_1 (B3), Corofin_1 (B3), Daisy_1 (B3), Deenasa_1 (B3), Devonte_1 (B3), Gadjet_1 (B3), Gervas_1 (B3), GlenHope_1 (B3), Glubnar_1 (B3), Halfpint_1 (B3), HarveySr_1 (B3), Heathcliff_1 (B3), Kronus_1 (B3), LestyG_1 (B3), Marley1013_1 (B3), MmasiCarm_1 (B3), Mortcellus_1 (B3), Neos5_1 (B3), Nozo_1 (B3), Obutu_1 (B3), OrangeOswald_1 (B3), Phayeta_1 (B3), Philly_1 (B3), Phlyer_1 (B3), Pipefish_1 (B3), RagingRooster_1 (B3), Rita1961_1 (B3), RomaT_1 (B3), Shenandoah_1 (B3), SynergyX_1 (B3), TinyTerror_1 (B3), Yinz_1 (B3),

Start 23:
• Found in 1 of 271 (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: Nehemiah_98 (B5),

Start 24:
• Found in 6 of 271 (2.2%) of genes in pham
• Manual Annotations of this start: 5 of 215
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AuntGwenStacy_1 (Y), Bipper_1 (Y), Cracklewink_1 (Y), Faiyaz_1 (Y), Hilltopfarm_1 (Y), Typha_1 (Y),

Start 25:
• Found in 7 of 271 (2.6%) of genes in pham
• Manual Annotations of this start: 2 of 215
• Called 28.6% of time when present
• Phage (with cluster) where this start called: Laroye_5 (AL), Salgado_5 (AL),

Start 26:
• Found in 2 of 271 (0.7%) of genes in pham
• Manual Annotations of this start: 2 of 215
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Abba_66 (AO3), Nostromo_66 (AO3),

Start 28:
• Found in 23 of 271 (8.5%) of genes in pham
• Manual Annotations of this start: 22 of 215
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BarretLemon_69 (AO2), Beans_66 (AO1), BigDome_69 (AO2), BossLady_71 (AO2), Brent_66 (AO1), Franzy_64 (AO1), GravityBall_69 (AO2), Grekaycon_70 (AO2), JKerns_69 (AO2), Jawnski_65 (AO1), Jordan_70 (AO2), King2_64 (AO1), LeeroyJ_70 (AO2), Martha_69 (AO2), NathanVaag_65 (AO1), Piccoletto_66 (AO1), Pippa_70 (AO2), Shade_69 (AO2),

Sonny_69 (AO2), StevieBAY_70 (AO2), TaeYoung_70 (AO2), Timinator_70 (AO2), Zartrosa_71 (AO2),

Start 29:
• Found in 13 of 271 (4.8%) of genes in pham
• Manual Annotations of this start: 8 of 215
• Called 84.6% of time when present
• Phage (with cluster) where this start called: AnarQue_1 (DR), Blackpen_1 (DR), CaiB_1 (DR), CloverMinnie_1 (DR), FelixTres_1 (DR), MakoManhole_1 (DR), MossRose_1 (DR), NHagos_1 (DR), TraderJ_1 (DR), Wooper_1 (DR), Yeshua_1 (DR),

Start 30:
• Found in 2 of 271 (0.7%) of genes in pham
• Manual Annotations of this start: 2 of 215
• Called 100.0% of time when present
• Phage (with cluster) where this start called: EastWest_74 (AO), Margaery_97 (EI),

Start 32:
• Found in 93 of 271 (34.3%) of genes in pham
• Manual Annotations of this start: 51 of 215
• Called 84.9% of time when present
• Phage (with cluster) where this start called: 39HC_01 (B6), 40BC_01 (B6), Acadian_1 (B5), Ahwei_1 (B4), AksarBAT_1 (DR), Antihero_1 (B4), Apex_1 (B4), Austelle_1 (B4), Axumite_1 (DR), Baee_1 (B5), BiggityBass_1 (DR), BobRoss2024_1 (DR), BobbyK_1 (B4), BrownCNA_1 (B4), CRB2_1 (B9), ChrisnMich_1 (B4), Coldpizza_1 (DR), Cooper_1 (B4), DigitDog_1 (B5), Donny_1 (B5), EastView9101_1 (B5), Epah_1 (B4), Evaa_1 (DR), Fanaw_1 (B4), ForDig_1 (B6), Fortunato_1 (B4), Frederick_1 (B4), Fresco_1 (DR), GinPorsche_1 (B4), Hally898_1 (B4), Hangman_1 (B4), Heath_1 (B4), Hosp_096 (B6), Hydro_1 (B4), Indlovu_1 (B11), JAMaL_1 (B4), JaguarMi_1 (B4), Jolie1_01 (B6), JoyceMaria_1 (B4), KarasumaRum_1 (B5), KayaCho_1 (B6), Lambano_1 (B4), Ligma_1 (DR), LilMcDreamy_1 (B12), LittleDigger_1 (B4), LittleMunchkin_1 (DR), Lolalove_1 (B4), Magpie_1 (B4), Mariokart_1 (DR), Mithril_1 (B4), Mudslide_1 (B4), Mysterious_1 (B5), Nanao_1 (B4), Nangang_1 (B5), Nigel_1 (B4), PenguinLover67_1 (B9), Phelemich_1 (B5), Poster_1 (B4), Prince_1 (B4), Quesadilla_1 (B9), RawrgerThat_1 (B4), Reccee_1 (B5), Renkei_1 (B4), Reprobate_1 (B5), Rich_1 (B5), Rita130_1 (B5), Serendipitous_1 (B5), Shatter_1 (DR), Shenyu_1 (B5), SirJeffery_1 (B5), Sisko_1 (DR), Stinger_1 (B4), StinkyVeggy_1 (B5), Suigeneris_1 (B5), VioletZ_1 (B4), Waleliano_1 (B4), Xincheng_1 (B4), Yago84_1 (DR), Zemanar_1 (B4),

Start 33:
• Found in 56 of 271 (20.7%) of genes in pham
• Manual Annotations of this start: 1 of 215
• Called 3.6% of time when present
• Phage (with cluster) where this start called: Jackstina_1 (B3), SlippinJimmy_1 (B3),

Start 34:
• Found in 5 of 271 (1.8%) of genes in pham
• Manual Annotations of this start: 4 of 215
• Called 80.0% of time when present
• Phage (with cluster) where this start called: Cinna_94 (EI), Cressida_96 (EI), Matzah_98 (EI), MementoMori_97 (EI),

Start 36:
• Found in 2 of 271 (0.7%) of genes in pham
• Manual Annotations of this start: 2 of 215
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Megan_1 (EC), Nicole72_1 (EC),

Start 37:
• Found in 3 of 271 (1.1%) of genes in pham
• Manual Annotations of this start: 1 of 215
• Called 100.0% of time when present
• Phage (with cluster) where this start called: GoldDust_75 (FL), Gooberta_76 (FL), Music_80 (FL),

Start 39:
• Found in 34 of 271 (12.5%) of genes in pham
• Manual Annotations of this start: 7 of 215
• Called 20.6% of time when present
• Phage (with cluster) where this start called: ApoKipo_5 (AL), Edmundo_4 (AL), Kharcho_72 (FM), Kovu_5 (AL), LiSara_5 (AL), Ottawa_72 (FM), Wheelbite_5 (AL),

Start 41:
• Found in 1 of 271 (0.4%) of genes in pham
• Manual Annotations of this start: 1 of 215
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Sour_1 (DR),

Start 42:
• Found in 6 of 271 (2.2%) of genes in pham
• Manual Annotations of this start: 6 of 215
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Cinna_1 (EI), Cressida_1 (EI), Margaery_1 (EI), Matzah_1 (EI), MementoMori_1 (EI), Terij_1 (EI),

Start 43:
• Found in 17 of 271 (6.3%) of genes in pham
• Manual Annotations of this start: 2 of 215
• Called 11.8% of time when present
• Phage (with cluster) where this start called: Finch_210 (singleton), Tonitrus_1 (singleton),

Start 47:
• Found in 1 of 271 (0.4%) of genes in pham
• Manual Annotations of this start: 1 of 215
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Wrackline_72 (GF),

Start 48:
• Found in 2 of 271 (0.7%) of genes in pham
• Manual Annotations of this start: 1 of 215
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BigAnti_67 (singleton), Jace_85 (singleton),

Start 52:
• Found in 56 of 271 (20.7%) of genes in pham
• No Manual Annotations of this start.
• Called 1.8% of time when present
• Phage (with cluster) where this start called: Olivio_1 (B3),

Start 53:
• Found in 2 of 271 (0.7%) of genes in pham
• Manual Annotations of this start: 2 of 215
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Kharcho_73 (FM), Ottawa_73 (FM),

Start 54:
• Found in 24 of 271 (8.9%) of genes in pham
• Manual Annotations of this start: 17 of 215
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AWGoat_9 (AP4), Beagle_15 (AP2), BetaFish_14 (AP2), BruhMoment_12 (AP3), DogYard_14 (AP2), Forrestell_12 (AP2), Hive_13 (AP2), Kubulix_15 (AP2), MellowYellow_12 (AP2), Nikan_12 (AP2), NyleyClemson_12 (AP2), Odyssey395_16 (AP2), Ollypop_13 (AP2), PhuzzTulsa_12 (AP2), Pointis_14 (AP2), Popstraw_13 (AP2), Pureglobe5_16 (AP2), Ranunculus_10 (AP), RazzB_11 (AP2), Ren19_10 (AP2), Rizwana_10 (AP1), SilentRX_10 (AP4), Tank_11 (AP1), Wilde_11 (AP1),

Start 55:
• Found in 10 of 271 (3.7%) of genes in pham
• Manual Annotations of this start: 1 of 215
• Called 10.0% of time when present
• Phage (with cluster) where this start called: Vitus_80 (FL),

Start 56:
• Found in 6 of 271 (2.2%) of genes in pham
• Manual Annotations of this start: 3 of 215
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Boise_8 (FT), RomansRevenge_8 (FT), Sicarius2_71 (AO2), Wyborn_70 (AO2),

Start 57:
• Found in 82 of 271 (30.3%) of genes in pham
• Manual Annotations of this start: 6 of 215
• Called 12.2% of time when present
• Phage (with cluster) where this start called: Bernardo_1 (B3), CharlottesWeb_1 (DR), Kamiyu_1 (B3), Marlia_1 (B3), Morty007_1 (B3), Mulaychimus_1 (B3), Phaedrus_1 (B3), SwainyDoc_1 (B3), Tydolla_1 (B3), Yahalom_1 (B3),

Start 58:
• Found in 6 of 271 (2.2%) of genes in pham
• Manual Annotations of this start: 2 of 215
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Maruru_87 (FG), Sonali_86 (FG), Sunshine23_89 (FG),

Start 67:
• Found in 77 of 271 (28.4%) of genes in pham
• No Manual Annotations of this start.
• Called 1.3% of time when present
• Phage (with cluster) where this start called: QueenPie_1 (B4),

Summary by clusters:

There are 28 clusters represented in this pham: singleton, FT, AP2, AP3, FG, AP4, B12, B11, DR, FM, FL, EC, AP1, EI, AL, AO, GF, AO3, AO2, AO1, Y, AP, B4, B5, B6, B2, B3, B9,

Info for manual annotations of cluster AL:
•Start number 19 was manually annotated 2 times for cluster AL.
•Start number 25 was manually annotated 2 times for cluster AL.
•Start number 39 was manually annotated 5 times for cluster AL.

Info for manual annotations of cluster AO:
•Start number 30 was manually annotated 1 time for cluster AO.

Info for manual annotations of cluster AO1:
•Start number 28 was manually annotated 7 times for cluster AO1.

Info for manual annotations of cluster AO2:
•Start number 28 was manually annotated 15 times for cluster AO2.
•Start number 56 was manually annotated 2 times for cluster AO2.

Info for manual annotations of cluster AO3:
•Start number 26 was manually annotated 2 times for cluster AO3.

Info for manual annotations of cluster AP:
•Start number 54 was manually annotated 1 time for cluster AP.

Info for manual annotations of cluster AP1:
•Start number 54 was manually annotated 3 times for cluster AP1.

Info for manual annotations of cluster AP2:
•Start number 54 was manually annotated 10 times for cluster AP2.

Info for manual annotations of cluster AP3:
•Start number 54 was manually annotated 1 time for cluster AP3.

Info for manual annotations of cluster AP4:
•Start number 54 was manually annotated 2 times for cluster AP4.

Info for manual annotations of cluster B11:
•Start number 32 was manually annotated 1 time for cluster B11.

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

Info for manual annotations of cluster B2:
•Start number 10 was manually annotated 16 times for cluster B2.

•Start number 15 was manually annotated 2 times for cluster B2.
•Start number 17 was manually annotated 2 times for cluster B2.
•Start number 21 was manually annotated 1 time for cluster B2.

Info for manual annotations of cluster B3:
•Start number 22 was manually annotated 43 times for cluster B3.
•Start number 33 was manually annotated 1 time for cluster B3.
•Start number 57 was manually annotated 6 times for cluster B3.

Info for manual annotations of cluster B4:
•Start number 32 was manually annotated 23 times for cluster B4.

Info for manual annotations of cluster B5:
•Start number 32 was manually annotated 10 times for cluster B5.

Info for manual annotations of cluster B6:
•Start number 32 was manually annotated 2 times for cluster B6.

Info for manual annotations of cluster B9:
•Start number 32 was manually annotated 3 times for cluster B9.

Info for manual annotations of cluster DR:
•Start number 29 was manually annotated 8 times for cluster DR.
•Start number 32 was manually annotated 11 times for cluster DR.
•Start number 41 was manually annotated 1 time for cluster DR.

Info for manual annotations of cluster EC:
•Start number 36 was manually annotated 2 times for cluster EC.

Info for manual annotations of cluster EI:
•Start number 30 was manually annotated 1 time for cluster EI.
•Start number 34 was manually annotated 4 times for cluster EI.
•Start number 42 was manually annotated 6 times for cluster EI.

Info for manual annotations of cluster FG:
•Start number 58 was manually annotated 2 times for cluster FG.

Info for manual annotations of cluster FL:
•Start number 37 was manually annotated 1 time for cluster FL.
•Start number 55 was manually annotated 1 time for cluster FL.

Info for manual annotations of cluster FM:
•Start number 39 was manually annotated 2 times for cluster FM.
•Start number 53 was manually annotated 2 times for cluster FM.

Info for manual annotations of cluster FT:
•Start number 56 was manually annotated 1 time for cluster FT.

Info for manual annotations of cluster GF:
•Start number 47 was manually annotated 1 time for cluster GF.

Info for manual annotations of cluster Y:
•Start number 24 was manually annotated 5 times for cluster Y.

Gene Information:

Gene: 39HC_01 Start: 1, Stop: 810, Start Num: 32
Candidate Starts for 39HC_01:
(Start: 32 @1 has 51 MA's), (69, 106), (94, 208), (112, 277), (115, 295), (118, 310), (140, 424), (177, 541), (192, 586), (196, 592), (200, 601),

Gene: 40BC_01 Start: 1, Stop: 810, Start Num: 32
Candidate Starts for 40BC_01:
(Start: 32 @1 has 51 MA's), (69, 106), (94, 208), (112, 277), (115, 295), (118, 310), (140, 424), (177, 541), (192, 586), (196, 592), (200, 601),

Gene: AWGoat_9 Start: 3580, Stop: 4173, Start Num: 54
Candidate Starts for AWGoat_9:
(Start: 54 @3580 has 17 MA's), (109, 3808), (116, 3844), (118, 3853), (122, 3886), (123, 3889), (142, 3985), (144, 3991), (155, 4015), (164, 4051), (211, 4153), (213, 4159),

Gene: Abba_66 Start: 41901, Stop: 42479, Start Num: 26
Candidate Starts for Abba_66:
(4, 41721), (6, 41784), (11, 41841), (Start: 26 @41901 has 2 MA's), (177, 42423),

Gene: Abinghost_1 Start: 1, Stop: 693, Start Num: 22
Candidate Starts for Abinghost_1:
(Start: 22 @1 has 43 MA's), (Start: 33 @22 has 1 MA's), (52, 64), (Start: 57 @73 has 6 MA's), (71, 151), (77, 175), (87, 214), (98, 253), (112, 307), (113, 313), (118, 340), (145, 478), (171, 541),

Gene: Acadian_1 Start: 1, Stop: 816, Start Num: 32
Candidate Starts for Acadian_1:
(Start: 32 @1 has 51 MA's), (Start: 43 @16 has 2 MA's), (44, 19), (87, 178), (107, 256), (113, 277), (118, 304), (129, 358), (156, 463), (171, 538), (192, 595), (197, 604), (220, 646), (242, 739),

Gene: Ahwei_1 Start: 1, Stop: 798, Start Num: 32
Candidate Starts for Ahwei_1:
(Start: 32 @1 has 51 MA's), (67, 88), (69, 100), (80, 148), (87, 178), (88, 181), (94, 202), (107, 256), (109, 262), (113, 277), (118, 304), (119, 307), (132, 367), (156, 466), (192, 577), (193, 580), (196, 583), (228, 655), (236, 676), (237, 679), (250, 754),

Gene: Akoma_1 Start: 1, Stop: 693, Start Num: 22
Candidate Starts for Akoma_1:
(Start: 22 @1 has 43 MA's), (Start: 33 @22 has 1 MA's), (52, 64), (Start: 57 @73 has 6 MA's), (71, 151), (77, 175), (87, 214), (98, 253), (112, 307), (113, 313), (118, 340), (145, 478), (171, 541),

Gene: AksarBAT_1 Start: 10, Stop: 633, Start Num: 32
Candidate Starts for AksarBAT_1:
(Start: 29 @1 has 8 MA's), (Start: 32 @10 has 51 MA's), (67, 103), (68, 109), (77, 154), (87, 193), (94, 217), (113, 292), (139, 424), (148, 463), (177, 547), (186, 580), (207, 619), (210, 622), (214, 628),

Gene: Allegro_1 Start: 76, Stop: 792, Start Num: 17
Candidate Starts for Allegro_1:

(Start: 10 @1 has 16 MA's), (Start: 17 @76 has 2 MA's), (Start: 21 @133 has 1 MA's), (Start: 39 @172 has 7 MA's), (44, 181), (Start: 57 @202 has 6 MA's), (87, 343), (88, 346), (94, 367), (95, 373), (109, 421), (113, 436), (118, 463), (120, 469), (140, 583), (141, 589), (142, 592), (143, 595), (175, 679),

Gene: AnarQue_1 Start: 1, Stop: 804, Start Num: 29
Candidate Starts for AnarQue_1:
(Start: 29 @1 has 8 MA's), (Start: 32 @10 has 51 MA's), (76, 151), (87, 193), (94, 217), (95, 223), (113, 292), (118, 319), (119, 322), (236, 703), (237, 706), (247, 775),

Gene: Antihero_1 Start: 1, Stop: 798, Start Num: 32
Candidate Starts for Antihero_1:
(Start: 32 @1 has 51 MA's), (67, 88), (69, 100), (80, 148), (87, 178), (88, 181), (94, 202), (107, 256), (109, 262), (113, 277), (118, 304), (119, 307), (132, 367), (156, 466), (192, 577), (193, 580), (196, 583), (228, 655), (236, 676), (237, 679), (250, 754),

Gene: Apex_1 Start: 1, Stop: 798, Start Num: 32
Candidate Starts for Apex_1:
(Start: 32 @1 has 51 MA's), (67, 88), (69, 100), (80, 148), (87, 178), (94, 202), (107, 256), (109, 262), (113, 277), (115, 289), (118, 304), (119, 307), (132, 367), (156, 466), (192, 577), (193, 580), (196, 583), (212, 616), (225, 643), (228, 655), (236, 676), (238, 685),

Gene: ApoKipo_5 Start: 3227, Stop: 3832, Start Num: 39
Candidate Starts for ApoKipo_5:
(Start: 19 @3182 has 2 MA's), (Start: 25 @3209 has 2 MA's), (Start: 39 @3227 has 7 MA's), (Start: 55 @3257 has 1 MA's), (67, 3308), (78, 3362), (113, 3473), (139, 3602), (161, 3680), (215, 3809), (217, 3812),

Gene: Ares_1 Start: 1, Stop: 792, Start Num: 10
Candidate Starts for Ares_1:
(Start: 10 @1 has 16 MA's), (Start: 17 @76 has 2 MA's), (Start: 21 @133 has 1 MA's), (Start: 39 @172 has 7 MA's), (44, 181), (Start: 57 @202 has 6 MA's), (87, 343), (88, 346), (94, 367), (95, 373), (109, 421), (113, 436), (118, 463), (120, 469), (140, 583), (141, 589), (175, 679),

Gene: Athena_1 Start: 1, Stop: 693, Start Num: 22
Candidate Starts for Athena_1:
(Start: 22 @1 has 43 MA's), (Start: 33 @22 has 1 MA's), (52, 64), (Start: 57 @73 has 6 MA's), (71, 151), (77, 175), (87, 214), (98, 253), (112, 307), (113, 313), (118, 340), (145, 478), (171, 541),

Gene: Audrey_1 Start: 1, Stop: 693, Start Num: 22
Candidate Starts for Audrey_1:
(Start: 22 @1 has 43 MA's), (Start: 33 @22 has 1 MA's), (52, 64), (Start: 57 @73 has 6 MA's), (77, 175), (98, 253), (112, 307), (113, 313), (118, 340), (145, 478), (171, 541),

Gene: AuntGwenStacy_1 Start: 202, Stop: 861, Start Num: 24
Candidate Starts for AuntGwenStacy_1:
(Start: 24 @202 has 5 MA's), (40, 235), (45, 247), (73, 352), (76, 364), (77, 367), (87, 406), (88, 409), (94, 430), (98, 445), (113, 481), (128, 559), (153, 652), (187, 760), (189, 763), (191, 766), (218, 814), (231, 850),

Gene: Austelle_1 Start: 1, Stop: 798, Start Num: 32
Candidate Starts for Austelle_1:
(Start: 32 @1 has 51 MA's), (67, 88), (69, 100), (80, 148), (87, 178), (94, 202), (107, 256), (109, 262), (113, 277), (115, 289), (118, 304), (119, 307), (132, 367), (156, 466), (192, 577), (193, 580), (196, 583),

(212, 616), (225, 643), (228, 655), (236, 676), (238, 685),

Gene: Axumite_1 Start: 1, Stop: 606, Start Num: 32
Candidate Starts for Axumite_1:
(Start: 32 @1 has 51 MA's), (67, 85), (71, 112), (77, 136), (87, 175), (127, 349), (159, 472), (186, 553), (207, 592), (210, 595), (214, 601),

Gene: Baee_1 Start: 1, Stop: 822, Start Num: 32
Candidate Starts for Baee_1:
(Start: 32 @1 has 51 MA's), (Start: 43 @16 has 2 MA's), (44, 19), (63, 67), (113, 277), (129, 358), (156, 463), (171, 538), (192, 595), (197, 604), (220, 646), (248, 769),

Gene: Baloo_1 Start: 1, Stop: 693, Start Num: 22
Candidate Starts for Baloo_1:
(Start: 22 @1 has 43 MA's), (Start: 33 @22 has 1 MA's), (52, 64), (Start: 57 @73 has 6 MA's), (71, 151), (77, 175), (87, 214), (98, 253), (112, 307), (113, 313), (118, 340), (145, 478), (171, 541),

Gene: Bananafish_1 Start: 37, Stop: 792, Start Num: 15
Candidate Starts for Bananafish_1:
(Start: 10 @1 has 16 MA's), (Start: 15 @37 has 2 MA's), (Start: 17 @76 has 2 MA's), (Start: 21 @133 has 1 MA's), (Start: 39 @172 has 7 MA's), (44, 181), (Start: 57 @202 has 6 MA's), (87, 343), (94, 367), (95, 373), (109, 421), (113, 436), (118, 463), (120, 469), (140, 583), (141, 589), (175, 679),

Gene: BarretLemon_69 Start: 44545, Stop: 45120, Start Num: 28
Candidate Starts for BarretLemon_69:
(Start: 28 @44545 has 22 MA's), (82, 44716), (85, 44734), (106, 44809), (129, 44911), (133, 44929),

Gene: Beagle_15 Start: 4696, Stop: 5277, Start Num: 54
Candidate Starts for Beagle_15:
(Start: 54 @4696 has 17 MA's), (62, 4723), (109, 4924), (110, 4927), (112, 4933), (123, 5002), (134, 5041), (147, 5116), (215, 5266),

Gene: Beans_66 Start: 44464, Stop: 45042, Start Num: 28
Candidate Starts for Beans_66:
(Start: 28 @44464 has 22 MA's), (35, 44479), (Start: 58 @44527 has 2 MA's), (85, 44668), (104, 44737), (173, 44980), (198, 45031),

Gene: Ben11_1 Start: 1, Stop: 699, Start Num: 22
Candidate Starts for Ben11_1:
(Start: 22 @1 has 43 MA's), (Start: 33 @22 has 1 MA's), (52, 64), (Start: 57 @73 has 6 MA's), (71, 151), (77, 175), (87, 214), (98, 253), (112, 307), (113, 313), (118, 340), (145, 478), (171, 541), (234, 694),

Gene: Bernardo_1 Start: 73, Stop: 693, Start Num: 57
Candidate Starts for Bernardo_1:
(Start: 22 @1 has 43 MA's), (Start: 33 @22 has 1 MA's), (52, 64), (Start: 57 @73 has 6 MA's), (71, 151), (77, 175), (87, 214), (98, 253), (112, 307), (113, 313), (118, 340), (145, 478), (171, 541),

Gene: BetaFish_14 Start: 4896, Stop: 5477, Start Num: 54
Candidate Starts for BetaFish_14:
(Start: 54 @4896 has 17 MA's), (62, 4923), (109, 5124), (110, 5127), (112, 5133), (123, 5202), (134, 5241), (147, 5316), (215, 5466),

Gene: BigAnti_67 Start: 51667, Stop: 52422, Start Num: 48
Candidate Starts for BigAnti_67:
(Start: 48 @51667 has 1 MA's), (87, 51826), (100, 51874), (112, 51919), (119, 51955), (132, 52015), (213, 52249), (215, 52252), (219, 52258), (230, 52288), (233, 52297),

Gene: BigDome_69 Start: 44829, Stop: 45359, Start Num: 28
Candidate Starts for BigDome_69:
(Start: 28 @44829 has 22 MA's), (82, 44955), (85, 44973), (106, 45048), (129, 45150), (133, 45168), (167, 45276),

Gene: BiggityBass_1 Start: 1, Stop: 600, Start Num: 32
Candidate Starts for BiggityBass_1:
(Start: 32 @1 has 51 MA's), (Start: 57 @28 has 6 MA's), (67, 79), (74, 118), (87, 169), (118, 295), (175, 508), (207, 586),

Gene: Bipper_1 Start: 202, Stop: 861, Start Num: 24
Candidate Starts for Bipper_1:
(7, 25), (Start: 24 @202 has 5 MA's), (45, 247), (60, 271), (73, 352), (76, 364), (77, 367), (87, 406), (94, 430), (106, 472), (113, 481), (128, 559), (132, 571), (189, 763), (191, 766), (218, 814), (229, 844),

Gene: Blackpen_1 Start: 1, Stop: 804, Start Num: 29
Candidate Starts for Blackpen_1:
(Start: 29 @1 has 8 MA's), (Start: 32 @10 has 51 MA's), (76, 151), (87, 193), (94, 217), (95, 223), (113, 292), (118, 319), (119, 322), (145, 451), (236, 703), (237, 706), (247, 775),

Gene: Blocker23_1 Start: 1, Stop: 792, Start Num: 10
Candidate Starts for Blocker23_1:
(Start: 10 @1 has 16 MA's), (Start: 15 @37 has 2 MA's), (Start: 17 @76 has 2 MA's), (Start: 21 @133 has 1 MA's), (Start: 39 @172 has 7 MA's), (44, 181), (Start: 57 @202 has 6 MA's), (87, 343), (88, 346), (94, 367), (95, 373), (109, 421), (113, 436), (118, 463), (120, 469), (140, 583), (141, 589), (175, 679),

Gene: BobRoss2024_1 Start: 1, Stop: 780, Start Num: 32
Candidate Starts for BobRoss2024_1:
(Start: 32 @1 has 51 MA's), (67, 97), (87, 187), (94, 211), (193, 589), (237, 688),

Gene: BobbyK_1 Start: 1, Stop: 798, Start Num: 32
Candidate Starts for BobbyK_1:
(Start: 32 @1 has 51 MA's), (67, 88), (69, 100), (80, 148), (87, 178), (94, 202), (107, 256), (109, 262), (113, 277), (115, 289), (119, 307), (132, 367), (156, 466), (192, 577), (193, 580), (196, 583), (200, 592), (212, 616), (225, 643), (228, 655), (236, 676), (237, 679),

Gene: Boise_8 Start: 3035, Stop: 3610, Start Num: 56
Candidate Starts for Boise_8:
(Start: 56 @3035 has 3 MA's), (64, 3071), (65, 3074), (67, 3089), (85, 3179), (106, 3254), (111, 3266), (112, 3269), (120, 3308), (128, 3353), (131, 3362), (151, 3443), (176, 3512), (190, 3554), (195, 3563), (211, 3590),

Gene: BossLady_71 Start: 45159, Stop: 45689, Start Num: 28
Candidate Starts for BossLady_71:
(Start: 28 @45159 has 22 MA's), (82, 45285), (85, 45303), (106, 45378), (114, 45408), (130, 45483), (133, 45498), (167, 45606), (176, 45627),

Gene: Brent_66 Start: 44549, Stop: 45127, Start Num: 28

Candidate Starts for Brent_66:
(Start: 28 @44549 has 22 MA's), (35, 44564), (85, 44753), (104, 44822), (173, 45065),

Gene: Briakila_1 Start: 1, Stop: 693, Start Num: 22
Candidate Starts for Briakila_1:
(Start: 22 @1 has 43 MA's), (Start: 33 @22 has 1 MA's), (52, 64), (Start: 57 @73 has 6 MA's), (71, 151), (77, 175), (87, 214), (98, 253), (112, 307), (113, 313), (118, 340), (145, 478), (171, 541),

Gene: BrownCNA_1 Start: 1, Stop: 798, Start Num: 32
Candidate Starts for BrownCNA_1:
(Start: 32 @1 has 51 MA's), (67, 88), (69, 100), (80, 148), (87, 178), (94, 202), (107, 256), (109, 262), (113, 277), (115, 289), (118, 304), (119, 307), (132, 367), (156, 466), (192, 577), (193, 580), (196, 583), (212, 616), (225, 643), (228, 655), (236, 676), (238, 685),

Gene: BruhMoment_12 Start: 4721, Stop: 5308, Start Num: 54
Candidate Starts for BruhMoment_12:
(18, 4628), (Start: 54 @4721 has 17 MA's), (109, 4949), (118, 4994), (123, 5030), (129, 5048), (142, 5126), (144, 5132), (164, 5189), (188, 5255), (215, 5297),

Gene: CRB2_1 Start: 1, Stop: 633, Start Num: 32
Candidate Starts for CRB2_1:
(Start: 32 @1 has 51 MA's), (87, 187), (118, 313), (119, 316), (141, 433), (208, 601),

Gene: CaiB_1 Start: 1, Stop: 804, Start Num: 29
Candidate Starts for CaiB_1:
(Start: 29 @1 has 8 MA's), (Start: 32 @10 has 51 MA's), (76, 151), (87, 193), (94, 217), (95, 223), (113, 292), (118, 319), (119, 322), (209, 637), (236, 703), (237, 706), (247, 775),

Gene: Calamitous_1 Start: 1, Stop: 792, Start Num: 10
Candidate Starts for Calamitous_1:
(Start: 10 @1 has 16 MA's), (Start: 17 @76 has 2 MA's), (Start: 21 @133 has 1 MA's), (Start: 39 @172 has 7 MA's), (44, 181), (Start: 57 @202 has 6 MA's), (87, 343), (88, 346), (94, 367), (95, 373), (109, 421), (113, 436), (118, 463), (120, 469), (140, 583), (141, 589), (175, 679),

Gene: Casbah_1 Start: 1, Stop: 699, Start Num: 22
Candidate Starts for Casbah_1:
(Start: 22 @1 has 43 MA's), (Start: 33 @22 has 1 MA's), (52, 64), (Start: 57 @73 has 6 MA's), (71, 151), (77, 175), (87, 214), (98, 253), (112, 307), (113, 313), (118, 340), (145, 478), (171, 541), (234, 694),

Gene: ChaChing_1 Start: 1, Stop: 693, Start Num: 22
Candidate Starts for ChaChing_1:
(Start: 22 @1 has 43 MA's), (Start: 33 @22 has 1 MA's), (52, 64), (Start: 57 @73 has 6 MA's), (71, 151), (77, 175), (87, 214), (98, 253), (112, 307), (113, 313), (118, 340), (145, 478), (171, 541),

Gene: Chalmers_1 Start: 1, Stop: 693, Start Num: 22
Candidate Starts for Chalmers_1:
(Start: 22 @1 has 43 MA's), (Start: 33 @22 has 1 MA's), (52, 64), (Start: 57 @73 has 6 MA's), (71, 151), (77, 175), (87, 214), (98, 253), (112, 307), (113, 313), (118, 340), (145, 478), (171, 541),

Gene: Chandler_1 Start: 1, Stop: 693, Start Num: 22
Candidate Starts for Chandler_1:

(Start: 22 @1 has 43 MA's), (Start: 33 @22 has 1 MA's), (52, 64), (Start: 57 @73 has 6 MA's), (71, 151), (77, 175), (87, 214), (98, 253), (112, 307), (113, 313), (118, 340), (145, 478), (171, 541),

Gene: CharlottesWeb_1 Start: 40, Stop: 612, Start Num: 57
Candidate Starts for CharlottesWeb_1:
(Start: 32 @1 has 51 MA's), (Start: 57 @40 has 6 MA's), (67, 91), (77, 142), (87, 181), (108, 262), (113, 280), (118, 307), (159, 478), (177, 526), (186, 559), (207, 598), (210, 601), (214, 607),

Gene: Chentzyk_1 Start: 1, Stop: 699, Start Num: 22
Candidate Starts for Chentzyk_1:
(Start: 22 @1 has 43 MA's), (Start: 33 @22 has 1 MA's), (52, 64), (Start: 57 @73 has 6 MA's), (71, 151), (77, 175), (87, 214), (98, 253), (112, 307), (113, 313), (118, 340), (145, 478), (171, 541), (234, 694),

Gene: ChrisnMich_1 Start: 1, Stop: 798, Start Num: 32
Candidate Starts for ChrisnMich_1:
(Start: 32 @1 has 51 MA's), (67, 88), (69, 100), (80, 148), (87, 178), (88, 181), (94, 202), (107, 256), (109, 262), (113, 277), (118, 304), (119, 307), (132, 367), (156, 466), (192, 577), (193, 580), (196, 583), (212, 616), (225, 643), (228, 655), (236, 676), (237, 679), (250, 754),

Gene: Cinna_94 Start: 54580, Stop: 55263, Start Num: 34
Candidate Starts for Cinna_94:
(Start: 34 @54580 has 4 MA's), (65, 54667), (86, 54775), (91, 54793), (96, 54808), (105, 54838), (106, 54844), (120, 54898), (125, 54934), (133, 54964), (140, 55015), (142, 55024), (160, 55081), (177, 55129),

Gene: Cinna_1 Start: 1, Stop: 648, Start Num: 42
Candidate Starts for Cinna_1:
(Start: 42 @1 has 6 MA's), (67, 85), (71, 112), (72, 118), (83, 160), (96, 211), (105, 244), (106, 250), (124, 337), (177, 523), (188, 562), (226, 628),

Gene: CloverMinnie_1 Start: 1, Stop: 804, Start Num: 29
Candidate Starts for CloverMinnie_1:
(Start: 29 @1 has 8 MA's), (Start: 32 @10 has 51 MA's), (76, 151), (87, 193), (94, 217), (95, 223), (113, 292), (118, 319), (119, 322), (236, 703), (237, 706), (247, 775),

Gene: Coldpizza_1 Start: 1, Stop: 699, Start Num: 32
Candidate Starts for Coldpizza_1:
(Start: 32 @1 has 51 MA's), (67, 100), (70, 121), (113, 289), (132, 379), (139, 421), (175, 538), (184, 571), (193, 592), (212, 628), (237, 691),

Gene: Compostia_1 Start: 1, Stop: 693, Start Num: 22
Candidate Starts for Compostia_1:
(Start: 22 @1 has 43 MA's), (Start: 33 @22 has 1 MA's), (52, 64), (Start: 57 @73 has 6 MA's), (71, 151), (77, 175), (87, 214), (98, 253), (112, 307), (113, 313), (118, 340), (145, 478), (171, 541),

Gene: Cooper_1 Start: 1, Stop: 798, Start Num: 32
Candidate Starts for Cooper_1:
(Start: 32 @1 has 51 MA's), (44, 19), (67, 88), (69, 100), (87, 178), (94, 202), (109, 262), (113, 277), (115, 289), (118, 304), (119, 307), (132, 367), (136, 388), (156, 466), (192, 577), (193, 580), (196, 583), (228, 655), (245, 733),

Gene: Corofin_1 Start: 1, Stop: 693, Start Num: 22

Candidate Starts for Corofin_1:
(Start: 22 @1 has 43 MA's), (Start: 33 @22 has 1 MA's), (52, 64), (Start: 57 @73 has 6 MA's), (71, 151), (77, 175), (87, 214), (98, 253), (112, 307), (113, 313), (118, 340), (145, 478), (171, 541),

Gene: Cracklewink_1 Start: 202, Stop: 861, Start Num: 24
Candidate Starts for Cracklewink_1:
(7, 25), (Start: 24 @202 has 5 MA's), (45, 247), (60, 271), (70, 337), (73, 352), (76, 364), (77, 367), (87, 406), (94, 430), (106, 472), (113, 481), (128, 559), (132, 571), (189, 763), (191, 766), (218, 814), (229, 844),

Gene: Cressida_1 Start: 1, Stop: 645, Start Num: 42
Candidate Starts for Cressida_1:
(Start: 42 @1 has 6 MA's), (67, 85), (72, 118), (83, 160), (97, 217), (106, 247), (124, 334), (177, 520), (188, 559), (226, 625),

Gene: Cressida_96 Start: 55174, Stop: 55857, Start Num: 34
Candidate Starts for Cressida_96:
(Start: 34 @55174 has 4 MA's), (65, 55261), (86, 55369), (91, 55387), (96, 55402), (105, 55432), (106, 55438), (120, 55492), (125, 55528), (133, 55558), (140, 55609), (160, 55675),

Gene: Daisy_1 Start: 1, Stop: 693, Start Num: 22
Candidate Starts for Daisy_1:
(Start: 22 @1 has 43 MA's), (Start: 33 @22 has 1 MA's), (52, 64), (Start: 57 @73 has 6 MA's), (71, 151), (77, 175), (87, 214), (98, 253), (112, 307), (113, 313), (118, 340), (145, 478), (171, 541),

Gene: Deenasa_1 Start: 1, Stop: 693, Start Num: 22
Candidate Starts for Deenasa_1:
(Start: 22 @1 has 43 MA's), (Start: 33 @22 has 1 MA's), (52, 64), (Start: 57 @73 has 6 MA's), (71, 151), (77, 175), (87, 214), (98, 253), (112, 307), (113, 313), (118, 340), (145, 478), (171, 541),

Gene: Devonte_1 Start: 1, Stop: 693, Start Num: 22
Candidate Starts for Devonte_1:
(Start: 22 @1 has 43 MA's), (Start: 33 @22 has 1 MA's), (52, 64), (Start: 57 @73 has 6 MA's), (71, 151), (77, 175), (87, 214), (98, 253), (112, 307), (113, 313), (118, 340), (145, 478), (171, 541),

Gene: DigitDog_1 Start: 1, Stop: 807, Start Num: 32
Candidate Starts for DigitDog_1:
(Start: 32 @1 has 51 MA's), (Start: 43 @16 has 2 MA's), (44, 19), (88, 181), (107, 256), (113, 277), (118, 304), (156, 463), (171, 538), (192, 595), (196, 601), (197, 604), (203, 616), (220, 646), (236, 694),

Gene: DogYard_14 Start: 4766, Stop: 5347, Start Num: 54
Candidate Starts for DogYard_14:
(Start: 54 @4766 has 17 MA's), (62, 4793), (109, 4994), (110, 4997), (112, 5003), (123, 5072), (134, 5111), (147, 5186), (215, 5336),

Gene: Donny_1 Start: 1, Stop: 816, Start Num: 32
Candidate Starts for Donny_1:
(Start: 32 @1 has 51 MA's), (Start: 43 @16 has 2 MA's), (44, 19), (87, 178), (107, 256), (113, 277), (118, 304), (129, 358), (156, 463), (171, 538), (192, 595), (197, 604), (220, 646), (242, 739),

Gene: Eaglehorse_1 Start: 1, Stop: 792, Start Num: 10
Candidate Starts for Eaglehorse_1:

(Start: 10 @1 has 16 MA's), (Start: 17 @76 has 2 MA's), (Start: 21 @133 has 1 MA's), (Start: 39 @172 has 7 MA's), (44, 181), (Start: 57 @202 has 6 MA's), (87, 343), (94, 367), (95, 373), (109, 421), (113, 436), (118, 463), (120, 469), (140, 583), (141, 589), (175, 679),

Gene: EastView9101_1 Start: 1, Stop: 816, Start Num: 32
Candidate Starts for EastView9101_1:
(Start: 32 @1 has 51 MA's), (Start: 43 @16 has 2 MA's), (44, 19), (87, 178), (107, 256), (113, 277), (118, 304), (129, 358), (156, 463), (171, 538), (192, 595), (197, 604), (220, 646), (242, 739),

Gene: EastWest_74 Start: 43726, Stop: 44280, Start Num: 30
Candidate Starts for EastWest_74:
(Start: 30 @43726 has 2 MA's), (84, 43861), (85, 43864), (110, 43951), (114, 43972), (118, 43990), (204, 44260), (206, 44266),

Gene: Edmundo_4 Start: 3516, Stop: 4121, Start Num: 39
Candidate Starts for Edmundo_4:
(Start: 25 @3498 has 2 MA's), (27, 3501), (Start: 39 @3516 has 7 MA's), (Start: 55 @3546 has 1 MA's), (67, 3597), (80, 3657), (102, 3747), (112, 3756), (157, 3951), (162, 3972), (219, 4104),

Gene: Epah_1 Start: 1, Stop: 798, Start Num: 32
Candidate Starts for Epah_1:
(Start: 32 @1 has 51 MA's), (67, 88), (69, 100), (80, 148), (87, 178), (88, 181), (94, 202), (107, 256), (109, 262), (113, 277), (118, 304), (119, 307), (132, 367), (156, 466), (192, 577), (193, 580), (196, 583), (228, 655), (236, 676), (237, 679), (250, 754),

Gene: Evaa_1 Start: 1, Stop: 699, Start Num: 32
Candidate Starts for Evaa_1:
(Start: 32 @1 has 51 MA's), (87, 190), (118, 316), (132, 379), (147, 457), (163, 517), (175, 538), (185, 577), (232, 676), (237, 691),

Gene: Faiyaz_1 Start: 202, Stop: 861, Start Num: 24
Candidate Starts for Faiyaz_1:
(Start: 24 @202 has 5 MA's), (40, 235), (45, 247), (73, 352), (76, 364), (77, 367), (87, 406), (88, 409), (94, 430), (98, 445), (113, 481), (128, 559), (153, 652), (187, 760), (189, 763), (191, 766), (218, 814), (231, 850),

Gene: Fanaw_1 Start: 1, Stop: 798, Start Num: 32
Candidate Starts for Fanaw_1:
(Start: 32 @1 has 51 MA's), (67, 88), (69, 100), (80, 148), (87, 178), (94, 202), (107, 256), (109, 262), (113, 277), (115, 289), (118, 304), (119, 307), (132, 367), (138, 397), (156, 466), (192, 577), (193, 580), (196, 583), (212, 616), (225, 643), (228, 655), (236, 676), (237, 679), (244, 733),

Gene: FelixTres_1 Start: 1, Stop: 804, Start Num: 29
Candidate Starts for FelixTres_1:
(Start: 29 @1 has 8 MA's), (Start: 32 @10 has 51 MA's), (76, 151), (87, 193), (94, 217), (95, 223), (113, 292), (118, 319), (119, 322), (236, 703), (237, 706), (247, 775),

Gene: Finch_210 Start: 122277, Stop: 122888, Start Num: 43
Candidate Starts for Finch_210:
(Start: 43 @122277 has 2 MA's), (50, 122289), (51, 122292), (62, 122322), (66, 122343), (76, 122400), (87, 122442), (94, 122466), (112, 122535), (113, 122541), (118, 122568), (175, 122775), (179, 122787), (181, 122796),

Gene: ForDig_1 Start: 1, Stop: 810, Start Num: 32
Candidate Starts for ForDig_1:
(Start: 32 @1 has 51 MA's), (69, 106), (94, 208), (112, 277), (115, 295), (118, 310), (140, 424), (177, 541), (192, 586), (196, 592), (200, 601),

Gene: Forrestell_12 Start: 4123, Stop: 4704, Start Num: 54
Candidate Starts for Forrestell_12:
(Start: 54 @4123 has 17 MA's), (62, 4150), (109, 4351), (110, 4354), (112, 4360), (123, 4429), (134, 4468), (147, 4543), (215, 4693),

Gene: Fortunato_1 Start: 1, Stop: 798, Start Num: 32
Candidate Starts for Fortunato_1:
(Start: 32 @1 has 51 MA's), (67, 88), (69, 100), (80, 148), (87, 178), (94, 202), (107, 256), (109, 262), (113, 277), (115, 289), (119, 307), (132, 367), (156, 466), (192, 577), (193, 580), (196, 583), (212, 616), (225, 643), (228, 655), (236, 676), (237, 679),

Gene: Franzy_64 Start: 44565, Stop: 45143, Start Num: 28
Candidate Starts for Franzy_64:
(Start: 28 @44565 has 22 MA's), (35, 44580), (81, 44742), (85, 44769), (104, 44838), (173, 45081),

Gene: Frederick_1 Start: 1, Stop: 798, Start Num: 32
Candidate Starts for Frederick_1:
(Start: 32 @1 has 51 MA's), (67, 88), (69, 100), (80, 148), (87, 178), (94, 202), (107, 256), (109, 262), (113, 277), (115, 289), (118, 304), (119, 307), (132, 367), (156, 466), (192, 577), (193, 580), (196, 583), (212, 616), (225, 643), (228, 655), (236, 676), (238, 685),

Gene: Fresco_1 Start: 1, Stop: 606, Start Num: 32
Candidate Starts for Fresco_1:
(Start: 32 @1 has 51 MA's), (67, 85), (71, 112), (77, 136), (87, 175), (127, 349), (159, 472), (186, 553), (207, 592), (210, 595), (214, 601),

Gene: Gadjet_1 Start: 1, Stop: 693, Start Num: 22
Candidate Starts for Gadjet_1:
(Start: 22 @1 has 43 MA's), (Start: 33 @22 has 1 MA's), (52, 64), (Start: 57 @73 has 6 MA's), (71, 151), (77, 175), (87, 214), (98, 253), (112, 307), (113, 313), (118, 340), (145, 478), (171, 541),

Gene: Gervas_1 Start: 1, Stop: 693, Start Num: 22
Candidate Starts for Gervas_1:
(Start: 22 @1 has 43 MA's), (Start: 33 @22 has 1 MA's), (52, 64), (Start: 57 @73 has 6 MA's), (71, 151), (77, 175), (87, 214), (98, 253), (112, 307), (113, 313), (118, 340), (145, 478), (171, 541),

Gene: GinPorsche_1 Start: 1, Stop: 798, Start Num: 32
Candidate Starts for GinPorsche_1:
(Start: 32 @1 has 51 MA's), (67, 88), (69, 100), (80, 148), (87, 178), (88, 181), (94, 202), (107, 256), (109, 262), (113, 277), (118, 304), (119, 307), (132, 367), (156, 466), (192, 577), (193, 580), (196, 583), (228, 655), (236, 676), (237, 679), (250, 754),

Gene: GlenHope_1 Start: 1, Stop: 693, Start Num: 22
Candidate Starts for GlenHope_1:
(Start: 22 @1 has 43 MA's), (Start: 33 @22 has 1 MA's), (52, 64), (Start: 57 @73 has 6 MA's), (71, 151), (77, 175), (87, 214), (98, 253), (112, 307), (113, 313), (118, 340), (145, 478), (171, 541),

Gene: Glubnar_1 Start: 1, Stop: 693, Start Num: 22

Candidate Starts for Glubnar_1:
(Start: 22 @1 has 43 MA's), (Start: 33 @22 has 1 MA's), (52, 64), (Start: 57 @73 has 6 MA's), (71, 151), (77, 175), (87, 214), (98, 253), (112, 307), (113, 313), (118, 340), (145, 478), (171, 541),

Gene: Godines_1 Start: 1, Stop: 792, Start Num: 10
Candidate Starts for Godines_1:
(Start: 10 @1 has 16 MA's), (13, 28), (Start: 15 @37 has 2 MA's), (Start: 17 @76 has 2 MA's), (Start: 21 @133 has 1 MA's), (Start: 39 @172 has 7 MA's), (44, 181), (87, 343), (94, 367), (95, 373), (109, 421), (113, 436), (118, 463), (120, 469), (140, 583), (141, 589), (143, 595), (175, 679),

Gene: GoldDust_75 Start: 47538, Stop: 48089, Start Num: 37
Candidate Starts for GoldDust_75:
(5, 47406), (8, 47442), (16, 47526), (Start: 37 @47538 has 1 MA's), (85, 47721), (104, 47787), (117, 47841),

Gene: Gooberta_76 Start: 48265, Stop: 48816, Start Num: 37
Candidate Starts for Gooberta_76:
(31, 48253), (Start: 37 @48265 has 1 MA's), (85, 48448), (104, 48514), (117, 48568),

Gene: GravityBall_69 Start: 44845, Stop: 45375, Start Num: 28
Candidate Starts for GravityBall_69:
(Start: 28 @44845 has 22 MA's), (82, 44971), (85, 44989), (106, 45064), (129, 45166), (133, 45184),

Gene: Grekaycon_70 Start: 45072, Stop: 45602, Start Num: 28
Candidate Starts for Grekaycon_70:
(Start: 28 @45072 has 22 MA's), (82, 45198), (85, 45216), (106, 45291), (114, 45321), (130, 45396), (133, 45411), (167, 45519), (176, 45540),

Gene: Halfpint_1 Start: 1, Stop: 699, Start Num: 22
Candidate Starts for Halfpint_1:
(Start: 22 @1 has 43 MA's), (Start: 33 @22 has 1 MA's), (52, 64), (Start: 57 @73 has 6 MA's), (71, 151), (77, 175), (87, 214), (98, 253), (112, 307), (113, 313), (118, 340), (145, 478), (171, 541), (234, 694),

Gene: Hally898_1 Start: 1, Stop: 798, Start Num: 32
Candidate Starts for Hally898_1:
(Start: 32 @1 has 51 MA's), (67, 88), (69, 100), (80, 148), (87, 178), (88, 181), (94, 202), (107, 256), (109, 262), (113, 277), (118, 304), (119, 307), (132, 367), (156, 466), (192, 577), (193, 580), (196, 583), (228, 655), (236, 676), (237, 679), (250, 754),

Gene: Hangman_1 Start: 1, Stop: 798, Start Num: 32
Candidate Starts for Hangman_1:
(Start: 32 @1 has 51 MA's), (67, 88), (69, 100), (80, 148), (87, 178), (94, 202), (107, 256), (109, 262), (113, 277), (115, 289), (118, 304), (119, 307), (132, 367), (140, 418), (156, 466), (192, 577), (193, 580), (196, 583), (212, 616), (225, 643), (228, 655), (236, 676), (238, 685),

Gene: HarveySr_1 Start: 1, Stop: 693, Start Num: 22
Candidate Starts for HarveySr_1:
(Start: 22 @1 has 43 MA's), (Start: 33 @22 has 1 MA's), (52, 64), (Start: 57 @73 has 6 MA's), (71, 151), (77, 175), (87, 214), (98, 253), (112, 307), (113, 313), (118, 340), (145, 478), (171, 541),

Gene: Heath_1 Start: 1, Stop: 798, Start Num: 32
Candidate Starts for Heath_1:

(Start: 32 @1 has 51 MA's), (67, 88), (69, 100), (70, 109), (80, 148), (87, 178), (94, 202), (107, 256), (109, 262), (113, 277), (115, 289), (118, 304), (132, 367), (156, 466), (192, 577), (193, 580), (196, 583), (200, 592), (212, 616), (225, 643), (228, 655), (236, 676), (237, 679),

Gene: Heathcliff_1 Start: 1, Stop: 693, Start Num: 22
Candidate Starts for Heathcliff_1:
(Start: 22 @1 has 43 MA's), (Start: 33 @22 has 1 MA's), (52, 64), (Start: 57 @73 has 6 MA's), (71, 151), (77, 175), (87, 214), (98, 253), (112, 307), (113, 313), (118, 340), (145, 478), (171, 541),

Gene: Hilltopfarm_1 Start: 202, Stop: 861, Start Num: 24
Candidate Starts for Hilltopfarm_1:
(Start: 24 @202 has 5 MA's), (40, 235), (45, 247), (73, 352), (77, 367), (87, 406), (88, 409), (94, 430), (98, 445), (113, 481), (128, 559), (132, 571), (153, 652), (187, 760), (189, 763), (191, 766), (218, 814), (231, 850),

Gene: Hive_13 Start: 4780, Stop: 5361, Start Num: 54
Candidate Starts for Hive_13:
(Start: 54 @4780 has 17 MA's), (62, 4807), (109, 5008), (110, 5011), (112, 5017), (123, 5086), (134, 5125), (147, 5200), (215, 5350),

Gene: Holeinone_1 Start: 1, Stop: 792, Start Num: 10
Candidate Starts for Holeinone_1:
(Start: 10 @1 has 16 MA's), (Start: 17 @76 has 2 MA's), (Start: 21 @133 has 1 MA's), (Start: 39 @172 has 7 MA's), (44, 181), (Start: 57 @202 has 6 MA's), (87, 343), (88, 346), (94, 367), (95, 373), (109, 421), (113, 436), (118, 463), (120, 469), (140, 583), (141, 589), (175, 679),

Gene: Hosp_096 Start: 68870, Stop: 69679, Start Num: 32
Candidate Starts for Hosp_096:
(20, 68831), (Start: 32 @68870 has 51 MA's), (69, 68975), (94, 69077), (112, 69146), (115, 69164), (118, 69179), (140, 69293), (177, 69410), (192, 69455), (196, 69461), (200, 69470),

Gene: Hydro_1 Start: 1, Stop: 798, Start Num: 32
Candidate Starts for Hydro_1:
(Start: 32 @1 has 51 MA's), (67, 88), (69, 100), (80, 148), (87, 178), (94, 202), (107, 256), (109, 262), (113, 277), (115, 289), (118, 304), (119, 307), (132, 367), (156, 466), (192, 577), (193, 580), (196, 583), (212, 616), (225, 643), (228, 655), (236, 676), (237, 679), (250, 754),

Gene: Indlovu_1 Start: 1, Stop: 825, Start Num: 32
Candidate Starts for Indlovu_1:
(Start: 32 @1 has 51 MA's), (69, 100), (87, 178), (115, 289), (118, 304), (119, 307), (132, 367), (171, 538), (177, 553), (192, 598), (196, 604), (200, 613), (236, 697),

Gene: ItsyBitsy1_1 Start: 1, Stop: 792, Start Num: 10
Candidate Starts for ItsyBitsy1_1:
(Start: 10 @1 has 16 MA's), (Start: 17 @76 has 2 MA's), (Start: 21 @133 has 1 MA's), (Start: 39 @172 has 7 MA's), (44, 181), (Start: 57 @202 has 6 MA's), (87, 343), (88, 346), (94, 367), (95, 373), (109, 421), (113, 436), (118, 463), (120, 469), (140, 583), (141, 589), (175, 679),

Gene: JAMaL_1 Start: 1, Stop: 798, Start Num: 32
Candidate Starts for JAMaL_1:
(Start: 32 @1 has 51 MA's), (67, 88), (69, 100), (80, 148), (87, 178), (94, 202), (107, 256), (109, 262), (113, 277), (115, 289), (119, 307), (132, 367), (156, 466), (192, 577), (193, 580), (196, 583), (200, 592), (212, 616), (225, 643), (228, 655), (236, 676), (237, 679),

Gene: JKerns_69 Start: 45051, Stop: 45626, Start Num: 28
Candidate Starts for JKerns_69:
(Start: 28 @45051 has 22 MA's), (82, 45222), (85, 45240), (106, 45315), (114, 45345), (130, 45420), (133, 45435), (167, 45543), (176, 45564),

Gene: Jace_85 Start: 47046, Stop: 47594, Start Num: 48
Candidate Starts for Jace_85:
(Start: 48 @47046 has 1 MA's), (87, 47202), (93, 47223), (118, 47304), (119, 47307), (132, 47367), (182, 47559), (192, 47577), (197, 47586), (199, 47589),

Gene: Jackstina_1 Start: 22, Stop: 693, Start Num: 33
Candidate Starts for Jackstina_1:
(Start: 22 @1 has 43 MA's), (Start: 33 @22 has 1 MA's), (52, 64), (Start: 57 @73 has 6 MA's), (71, 151), (77, 175), (87, 214), (112, 307), (113, 313), (118, 340), (145, 478), (171, 541),

Gene: JaguarMi_1 Start: 1, Stop: 798, Start Num: 32
Candidate Starts for JaguarMi_1:
(Start: 32 @1 has 51 MA's), (67, 88), (69, 100), (70, 109), (80, 148), (87, 178), (94, 202), (107, 256), (109, 262), (113, 277), (115, 289), (119, 307), (132, 367), (156, 466), (192, 577), (193, 580), (196, 583), (212, 616), (225, 643), (228, 655), (236, 676),

Gene: Jawnski_65 Start: 44074, Stop: 44652, Start Num: 28
Candidate Starts for Jawnski_65:
(Start: 28 @44074 has 22 MA's), (35, 44089), (85, 44278), (104, 44347), (173, 44590),

Gene: Jolie1_01 Start: 1, Stop: 810, Start Num: 32
Candidate Starts for Jolie1_01:
(Start: 32 @1 has 51 MA's), (69, 106), (94, 208), (112, 277), (115, 295), (118, 310), (119, 313), (140, 424), (177, 541), (192, 586), (196, 592), (200, 601),

Gene: Jordan_70 Start: 45176, Stop: 45751, Start Num: 28
Candidate Starts for Jordan_70:
(Start: 28 @45176 has 22 MA's), (82, 45347), (85, 45365), (106, 45440), (114, 45470), (130, 45545), (133, 45560), (167, 45668),

Gene: JoyceMaria_1 Start: 1, Stop: 798, Start Num: 32
Candidate Starts for JoyceMaria_1:
(Start: 32 @1 has 51 MA's), (67, 88), (69, 100), (80, 148), (87, 178), (94, 202), (107, 256), (109, 262), (113, 277), (115, 289), (118, 304), (119, 307), (132, 367), (140, 418), (156, 466), (192, 577), (193, 580), (196, 583), (212, 616), (225, 643), (228, 655), (236, 676), (238, 685),

Gene: Kaleb_1 Start: 133, Stop: 792, Start Num: 21
Candidate Starts for Kaleb_1:
(Start: 10 @1 has 16 MA's), (Start: 17 @76 has 2 MA's), (Start: 21 @133 has 1 MA's), (Start: 39 @172 has 7 MA's), (44, 181), (Start: 57 @202 has 6 MA's), (87, 343), (88, 346), (94, 367), (95, 373), (109, 421), (113, 436), (118, 463), (120, 469), (140, 583), (141, 589), (142, 592), (143, 595), (175, 679),

Gene: Kamiyu_1 Start: 73, Stop: 693, Start Num: 57
Candidate Starts for Kamiyu_1:
(Start: 22 @1 has 43 MA's), (Start: 33 @22 has 1 MA's), (52, 64), (Start: 57 @73 has 6 MA's), (71, 151), (77, 175), (87, 214), (98, 253), (112, 307), (113, 313), (118, 340), (145, 478), (171, 541),

Gene: KarasumaRum_1 Start: 1, Stop: 807, Start Num: 32
Candidate Starts for KarasumaRum_1:
(Start: 32 @1 has 51 MA's), (Start: 43 @16 has 2 MA's), (44, 19), (107, 256), (113, 277), (118, 304), (156, 463), (171, 538), (192, 595), (196, 601), (197, 604), (203, 616), (220, 646),

Gene: KayaCho_1 Start: 1, Stop: 813, Start Num: 32
Candidate Starts for KayaCho_1:
(Start: 32 @1 has 51 MA's), (69, 106), (94, 208), (115, 295), (118, 310), (140, 424), (177, 544), (192, 589), (196, 595), (200, 604),

Gene: Kharcho_73 Start: 42919, Stop: 43530, Start Num: 53
Candidate Starts for Kharcho_73:
(Start: 53 @42919 has 2 MA's), (102, 43129), (142, 43291),

Gene: Kharcho_72 Start: 42263, Stop: 42922, Start Num: 39
Candidate Starts for Kharcho_72:
(Start: 39 @42263 has 7 MA's), (Start: 56 @42293 has 3 MA's), (77, 42395), (221, 42872),

Gene: Kheth_1 Start: 1, Stop: 792, Start Num: 10
Candidate Starts for Kheth_1:
(Start: 10 @1 has 16 MA's), (Start: 15 @37 has 2 MA's), (Start: 17 @76 has 2 MA's), (Start: 21 @133 has 1 MA's), (Start: 39 @172 has 7 MA's), (44, 181), (Start: 57 @202 has 6 MA's), (87, 343), (94, 367), (95, 373), (109, 421), (113, 436), (118, 463), (120, 469), (140, 583), (141, 589), (175, 679),

Gene: King2_64 Start: 44610, Stop: 45188, Start Num: 28
Candidate Starts for King2_64:
(Start: 28 @44610 has 22 MA's), (35, 44625), (85, 44814), (104, 44883), (173, 45126),

Gene: Kolhan_1 Start: 37, Stop: 792, Start Num: 15
Candidate Starts for Kolhan_1:
(Start: 10 @1 has 16 MA's), (Start: 15 @37 has 2 MA's), (Start: 17 @76 has 2 MA's), (Start: 21 @133 has 1 MA's), (Start: 39 @172 has 7 MA's), (44, 181), (Start: 57 @202 has 6 MA's), (87, 343), (88, 346), (94, 367), (95, 373), (109, 421), (113, 436), (118, 463), (120, 469), (140, 583), (141, 589), (175, 679),

Gene: Kovu_5 Start: 3470, Stop: 4075, Start Num: 39
Candidate Starts for Kovu_5:
(Start: 19 @3425 has 2 MA's), (Start: 25 @3452 has 2 MA's), (Start: 39 @3470 has 7 MA's), (Start: 55 @3500 has 1 MA's), (67, 3551), (77, 3602), (110, 3704), (113, 3716), (139, 3845), (161, 3923), (215, 4052), (217, 4055),

Gene: Kronus_1 Start: 1, Stop: 699, Start Num: 22
Candidate Starts for Kronus_1:
(Start: 22 @1 has 43 MA's), (Start: 33 @22 has 1 MA's), (52, 64), (Start: 57 @73 has 6 MA's), (71, 151), (77, 175), (87, 214), (98, 253), (112, 307), (113, 313), (118, 340), (145, 478), (171, 541), (234, 694),

Gene: Kubulix_15 Start: 4895, Stop: 5476, Start Num: 54
Candidate Starts for Kubulix_15:
(Start: 54 @4895 has 17 MA's), (62, 4922), (109, 5123), (110, 5126), (112, 5132), (123, 5201), (134, 5240), (147, 5315), (215, 5465),

Gene: Lambano_1 Start: 1, Stop: 798, Start Num: 32
Candidate Starts for Lambano_1:

(Start: 32 @1 has 51 MA's), (67, 88), (69, 100), (80, 148), (87, 178), (88, 181), (94, 202), (107, 256), (109, 262), (113, 277), (118, 304), (119, 307), (132, 367), (156, 466), (192, 577), (193, 580), (196, 583), (228, 655), (236, 676), (237, 679), (250, 754),

Gene: Laroye_5 Start: 3276, Stop: 3899, Start Num: 25
Candidate Starts for Laroye_5:
(Start: 25 @3276 has 2 MA's), (27, 3279), (Start: 39 @3294 has 7 MA's), (Start: 55 @3324 has 1 MA's), (67, 3375), (77, 3426), (80, 3435), (102, 3525), (112, 3534), (113, 3540), (118, 3567), (157, 3729), (162, 3750), (219, 3882),

Gene: Laurie_1 Start: 1, Stop: 792, Start Num: 10
Candidate Starts for Laurie_1:
(Start: 10 @1 has 16 MA's), (Start: 15 @37 has 2 MA's), (Start: 17 @76 has 2 MA's), (Start: 21 @133 has 1 MA's), (Start: 39 @172 has 7 MA's), (44, 181), (Start: 57 @202 has 6 MA's), (87, 343), (88, 346), (94, 367), (95, 373), (109, 421), (113, 436), (118, 463), (120, 469), (140, 583), (141, 589), (175, 679),

Gene: LeeroyJ_70 Start: 44774, Stop: 45304, Start Num: 28
Candidate Starts for LeeroyJ_70:
(Start: 28 @44774 has 22 MA's), (82, 44900), (85, 44918), (129, 45095), (133, 45113),

Gene: Lephleur_1 Start: 1, Stop: 792, Start Num: 10
Candidate Starts for Lephleur_1:
(Start: 10 @1 has 16 MA's), (13, 28), (Start: 15 @37 has 2 MA's), (Start: 17 @76 has 2 MA's), (Start: 21 @133 has 1 MA's), (Start: 39 @172 has 7 MA's), (44, 181), (Start: 57 @202 has 6 MA's), (87, 343), (88, 346), (94, 367), (95, 373), (109, 421), (113, 436), (118, 463), (120, 469), (140, 583), (141, 589), (175, 679),

Gene: LestyG_1 Start: 1, Stop: 693, Start Num: 22
Candidate Starts for LestyG_1:
(Start: 22 @1 has 43 MA's), (Start: 33 @22 has 1 MA's), (52, 64), (Start: 57 @73 has 6 MA's), (71, 151), (77, 175), (87, 214), (98, 253), (112, 307), (113, 313), (118, 340), (145, 478), (171, 541),

Gene: LiSara_5 Start: 3325, Stop: 3930, Start Num: 39
Candidate Starts for LiSara_5:
(20, 3286), (Start: 25 @3307 has 2 MA's), (27, 3310), (Start: 39 @3325 has 7 MA's), (Start: 55 @3355 has 1 MA's), (67, 3406), (77, 3457), (80, 3466), (102, 3556), (112, 3565), (113, 3571), (118, 3598), (157, 3760), (162, 3781), (219, 3913),

Gene: Ligma_1 Start: 1, Stop: 606, Start Num: 32
Candidate Starts for Ligma_1:
(Start: 32 @1 has 51 MA's), (67, 85), (71, 112), (77, 136), (87, 175), (127, 349), (159, 472), (186, 553), (207, 592), (210, 595), (214, 601),

Gene: LilMcDreamy_1 Start: 1, Stop: 852, Start Num: 32
Candidate Starts for LilMcDreamy_1:
(Start: 32 @1 has 51 MA's), (67, 97), (87, 187), (94, 211), (107, 265), (115, 298), (149, 457), (154, 475), (165, 595), (169, 619), (192, 679), (222, 736),

Gene: LilSmirk_1 Start: 133, Stop: 792, Start Num: 21
Candidate Starts for LilSmirk_1:
(Start: 10 @1 has 16 MA's), (Start: 17 @76 has 2 MA's), (Start: 21 @133 has 1 MA's), (Start: 39 @172 has 7 MA's), (44, 181), (Start: 57 @202 has 6 MA's), (87, 343), (88, 346), (94, 367), (95, 373), (109, 421), (113, 436), (118, 463), (120, 469), (121, 490), (140, 583), (141, 589), (175, 679),

Gene: LittleDigger_1 Start: 1, Stop: 798, Start Num: 32
Candidate Starts for LittleDigger_1:
(Start: 32 @1 has 51 MA's), (67, 88), (69, 100), (80, 148), (87, 178), (88, 181), (94, 202), (107, 256), (109, 262), (113, 277), (118, 304), (119, 307), (132, 367), (156, 466), (192, 577), (193, 580), (196, 583), (212, 616), (225, 643), (228, 655), (236, 676), (237, 679), (250, 754),

Gene: LittleMunchkin_1 Start: 10, Stop: 807, Start Num: 32
Candidate Starts for LittleMunchkin_1:
(Start: 29 @1 has 8 MA's), (Start: 32 @10 has 51 MA's), (77, 154), (85, 187), (87, 193), (88, 196), (89, 199), (103, 250), (107, 271), (109, 277), (113, 292), (119, 322), (243, 763), (247, 778),

Gene: Lolalove_1 Start: 1, Stop: 798, Start Num: 32
Candidate Starts for Lolalove_1:
(Start: 32 @1 has 51 MA's), (67, 88), (69, 100), (80, 148), (87, 178), (94, 202), (107, 256), (109, 262), (113, 277), (115, 289), (118, 304), (119, 307), (132, 367), (156, 466), (192, 577), (193, 580), (196, 583), (212, 616), (225, 643), (228, 655), (236, 676), (238, 685),

Gene: Magpie_1 Start: 1, Stop: 798, Start Num: 32
Candidate Starts for Magpie_1:
(Start: 32 @1 has 51 MA's), (67, 88), (69, 100), (80, 148), (87, 178), (94, 202), (107, 256), (109, 262), (113, 277), (115, 289), (119, 307), (132, 367), (156, 466), (192, 577), (193, 580), (196, 583), (212, 616), (225, 643), (228, 655), (236, 676), (237, 679),

Gene: MakoManhole_1 Start: 1, Stop: 804, Start Num: 29
Candidate Starts for MakoManhole_1:
(Start: 29 @1 has 8 MA's), (Start: 32 @10 has 51 MA's), (76, 151), (87, 193), (94, 217), (95, 223), (113, 292), (118, 319), (119, 322), (236, 703), (237, 706), (247, 775),

Gene: Margaery_97 Start: 55238, Stop: 55930, Start Num: 30
Candidate Starts for Margaery_97:
(14, 55121), (Start: 30 @55238 has 2 MA's), (Start: 34 @55247 has 4 MA's), (65, 55334), (86, 55442), (91, 55460), (96, 55475), (133, 55631), (177, 55796),

Gene: Margaery_1 Start: 1, Stop: 645, Start Num: 42
Candidate Starts for Margaery_1:
(Start: 42 @1 has 6 MA's), (67, 85), (72, 118), (96, 211), (105, 241), (133, 367), (140, 418), (143, 430), (177, 520), (188, 559), (226, 625),

Gene: Mariokart_1 Start: 1, Stop: 612, Start Num: 32
Candidate Starts for Mariokart_1:
(Start: 32 @1 has 51 MA's), (Start: 57 @40 has 6 MA's), (67, 91), (77, 142), (87, 181), (108, 262), (113, 280), (118, 307), (177, 526), (186, 559), (210, 601),

Gene: Marley1013_1 Start: 1, Stop: 693, Start Num: 22
Candidate Starts for Marley1013_1:
(Start: 22 @1 has 43 MA's), (Start: 33 @22 has 1 MA's), (52, 64), (Start: 57 @73 has 6 MA's), (71, 151), (77, 175), (87, 214), (98, 253), (112, 307), (113, 313), (118, 340), (145, 478), (171, 541),

Gene: Marlia_1 Start: 73, Stop: 693, Start Num: 57
Candidate Starts for Marlia_1:
(Start: 22 @1 has 43 MA's), (Start: 33 @22 has 1 MA's), (52, 64), (Start: 57 @73 has 6 MA's), (71, 151), (77, 175), (87, 214), (98, 253), (112, 307), (113, 313), (118, 340), (145, 478), (171, 541),

Gene: Martha_69 Start: 45008, Stop: 45538, Start Num: 28
Candidate Starts for Martha_69:
(Start: 28 @45008 has 22 MA's), (82, 45134), (85, 45152), (106, 45227), (114, 45257), (130, 45332), (133, 45347), (167, 45455),

Gene: Maruru_87 Start: 52831, Stop: 53424, Start Num: 58
Candidate Starts for Maruru_87:
(12, 52684), (46, 52810), (Start: 58 @52831 has 2 MA's), (66, 52873), (79, 52939), (91, 52993), (99, 53023), (183, 53326), (195, 53350),

Gene: MasterPo_1 Start: 1, Stop: 792, Start Num: 10
Candidate Starts for MasterPo_1:
(Start: 10 @1 has 16 MA's), (13, 28), (Start: 15 @37 has 2 MA's), (Start: 17 @76 has 2 MA's), (Start: 21 @133 has 1 MA's), (Start: 39 @172 has 7 MA's), (44, 181), (Start: 57 @202 has 6 MA's), (87, 343), (88, 346), (94, 367), (95, 373), (109, 421), (113, 436), (118, 463), (120, 469), (140, 583), (141, 589), (175, 679),

Gene: Matzah_1 Start: 1, Stop: 648, Start Num: 42
Candidate Starts for Matzah_1:
(Start: 42 @1 has 6 MA's), (67, 85), (71, 112), (72, 118), (83, 160), (96, 211), (105, 244), (106, 250), (124, 337), (177, 523), (188, 562), (226, 628),

Gene: Matzah_98 Start: 54900, Stop: 55583, Start Num: 34
Candidate Starts for Matzah_98:
(Start: 34 @54900 has 4 MA's), (65, 54987), (86, 55095), (91, 55113), (96, 55128), (105, 55158), (106, 55164), (120, 55218), (125, 55254), (133, 55284), (140, 55335), (142, 55344), (160, 55401), (177, 55449),

Gene: Megan_1 Start: 1, Stop: 666, Start Num: 36
Candidate Starts for Megan_1:
(Start: 36 @1 has 2 MA's), (67, 97), (79, 154), (86, 190), (90, 205), (96, 223), (97, 229), (101, 244), (105, 253), (109, 265), (137, 403), (167, 517), (172, 529), (223, 637),

Gene: MellowYellow_12 Start: 4153, Stop: 4734, Start Num: 54
Candidate Starts for MellowYellow_12:
(Start: 54 @4153 has 17 MA's), (62, 4180), (109, 4381), (110, 4384), (112, 4390), (123, 4459), (134, 4498), (147, 4573), (215, 4723),

Gene: MementoMori_97 Start: 54789, Stop: 55472, Start Num: 34
Candidate Starts for MementoMori_97:
(Start: 34 @54789 has 4 MA's), (65, 54876), (86, 54984), (91, 55002), (96, 55017), (105, 55047), (106, 55053), (120, 55107), (125, 55143), (133, 55173), (160, 55290), (177, 55338),

Gene: MementoMori_1 Start: 1, Stop: 645, Start Num: 42
Candidate Starts for MementoMori_1:
(Start: 42 @1 has 6 MA's), (72, 118), (83, 160), (97, 217), (106, 247), (124, 334), (177, 520), (188, 559), (226, 625),

Gene: Mithril_1 Start: 1, Stop: 798, Start Num: 32
Candidate Starts for Mithril_1:
(Start: 32 @1 has 51 MA's), (67, 88), (69, 100), (80, 148), (87, 178), (94, 202), (107, 256), (109, 262), (113, 277), (115, 289), (118, 304), (119, 307), (132, 367), (156, 466), (192, 577), (193, 580), (196, 583),

(212, 616), (225, 643), (228, 655), (236, 676), (238, 685),

Gene: MmasiCarm_1 Start: 1, Stop: 693, Start Num: 22
Candidate Starts for MmasiCarm_1:
(Start: 22 @1 has 43 MA's), (Start: 33 @22 has 1 MA's), (52, 64), (Start: 57 @73 has 6 MA's), (71, 151), (77, 175), (87, 214), (98, 253), (112, 307), (113, 313), (118, 340), (145, 478), (171, 541),

Gene: Mortcellus_1 Start: 1, Stop: 699, Start Num: 22
Candidate Starts for Mortcellus_1:
(Start: 22 @1 has 43 MA's), (Start: 33 @22 has 1 MA's), (52, 64), (Start: 57 @73 has 6 MA's), (71, 151), (77, 175), (87, 214), (98, 253), (112, 307), (113, 313), (118, 340), (145, 478), (171, 541), (234, 694),

Gene: Morty007_1 Start: 73, Stop: 693, Start Num: 57
Candidate Starts for Morty007_1:
(Start: 22 @1 has 43 MA's), (Start: 33 @22 has 1 MA's), (52, 64), (Start: 57 @73 has 6 MA's), (71, 151), (77, 175), (87, 214), (98, 253), (112, 307), (113, 313), (118, 340), (145, 478), (171, 541),

Gene: MossRose_1 Start: 1, Stop: 804, Start Num: 29
Candidate Starts for MossRose_1:
(Start: 29 @1 has 8 MA's), (Start: 32 @10 has 51 MA's), (76, 151), (87, 193), (94, 217), (95, 223), (113, 292), (118, 319), (119, 322), (236, 703), (237, 706), (247, 775),

Gene: Mudslide_1 Start: 1, Stop: 798, Start Num: 32
Candidate Starts for Mudslide_1:
(Start: 32 @1 has 51 MA's), (67, 88), (69, 100), (80, 148), (87, 178), (94, 202), (107, 256), (109, 262), (113, 277), (115, 289), (118, 304), (119, 307), (132, 367), (156, 466), (192, 577), (193, 580), (196, 583), (212, 616), (225, 643), (228, 655), (236, 676), (238, 685),

Gene: Mulaychimus_1 Start: 73, Stop: 693, Start Num: 57
Candidate Starts for Mulaychimus_1:
(Start: 22 @1 has 43 MA's), (Start: 33 @22 has 1 MA's), (52, 64), (Start: 57 @73 has 6 MA's), (71, 151), (77, 175), (87, 214), (98, 253), (112, 307), (113, 313), (118, 340), (145, 478), (171, 541),

Gene: Music_80 Start: 47968, Stop: 48591, Start Num: 37
Candidate Starts for Music_80:
(5, 47836), (8, 47872), (16, 47956), (Start: 37 @47968 has 1 MA's), (85, 48151), (104, 48217), (117, 48271), (120, 48280), (163, 48445), (182, 48493), (185, 48502), (216, 48556), (224, 48574), (227, 48586),

Gene: Mysterious_1 Start: 1, Stop: 813, Start Num: 32
Candidate Starts for Mysterious_1:
(Start: 32 @1 has 51 MA's), (44, 19), (67, 88), (87, 178), (94, 202), (107, 256), (109, 262), (113, 277), (115, 289), (118, 304), (156, 463), (171, 535), (192, 592), (196, 598), (197, 601), (203, 613), (220, 643), (228, 670), (240, 712), (246, 754), (247, 763),

Gene: NHagos_1 Start: 1, Stop: 633, Start Num: 29
Candidate Starts for NHagos_1:
(Start: 29 @1 has 8 MA's), (Start: 32 @10 has 51 MA's), (67, 103), (68, 109), (77, 154), (87, 193), (94, 217), (113, 292), (139, 424), (148, 463), (177, 547), (186, 580), (207, 619), (210, 622), (214, 628),

Gene: Nanao_1 Start: 1, Stop: 798, Start Num: 32
Candidate Starts for Nanao_1:

(Start: 32 @1 has 51 MA's), (67, 88), (69, 100), (80, 148), (87, 178), (88, 181), (94, 202), (107, 256), (109, 262), (113, 277), (118, 304), (119, 307), (132, 367), (156, 466), (192, 577), (193, 580), (196, 583), (228, 655), (236, 676), (237, 679), (250, 754),

Gene: Nangang_1 Start: 1, Stop: 807, Start Num: 32
Candidate Starts for Nangang_1:
(Start: 32 @1 has 51 MA's), (Start: 43 @16 has 2 MA's), (44, 19), (88, 181), (107, 256), (113, 277), (118, 304), (156, 463), (171, 538), (192, 595), (196, 601), (197, 604), (203, 616), (220, 646),

Gene: NathanVaag_65 Start: 44298, Stop: 44876, Start Num: 28
Candidate Starts for NathanVaag_65:
(Start: 28 @44298 has 22 MA's), (35, 44313), (Start: 58 @44361 has 2 MA's), (85, 44502), (104, 44571), (152, 44763), (173, 44814), (198, 44865),

Gene: Nehemiah_98 Start: 70135, Stop: 813, Start Num: 23
Candidate Starts for Nehemiah_98:
(23, 70135), (Start: 32 @70153 has 51 MA's), (44, 70171), (67, 70240), (87, 70330), (94, 70354), (107, 70408), (109, 70414), (113, 70429), (115, 70441), (118, 70456), (156, 70615), (171, 70687), (192, 70744), (196, 70750), (197, 70753), (203, 70765), (220, 70795), (228, 70822), (240, 70864), (246, 70906), (247, 70915),

Gene: Neos5_1 Start: 1, Stop: 693, Start Num: 22
Candidate Starts for Neos5_1:
(Start: 22 @1 has 43 MA's), (Start: 33 @22 has 1 MA's), (52, 64), (Start: 57 @73 has 6 MA's), (71, 151), (77, 175), (87, 214), (98, 253), (112, 307), (113, 313), (118, 340), (145, 478), (171, 541),

Gene: Nicole72_1 Start: 1, Stop: 666, Start Num: 36
Candidate Starts for Nicole72_1:
(Start: 36 @1 has 2 MA's), (67, 97), (86, 190), (96, 223), (97, 229), (101, 244), (105, 253), (106, 259), (167, 517), (223, 637),

Gene: Nigel_1 Start: 1, Stop: 789, Start Num: 32
Candidate Starts for Nigel_1:
(Start: 32 @1 has 51 MA's), (67, 88), (69, 100), (87, 178), (94, 202), (107, 256), (109, 262), (118, 304), (132, 367), (142, 427), (156, 466), (192, 568), (193, 571), (200, 583), (212, 607), (225, 634), (228, 646), (236, 667), (237, 670),

Gene: Nikan_12 Start: 4634, Stop: 5215, Start Num: 54
Candidate Starts for Nikan_12:
(49, 4622), (Start: 54 @4634 has 17 MA's), (59, 4643), (61, 4652), (109, 4862), (110, 4865), (112, 4871), (123, 4940), (134, 4979), (177, 5126), (178, 5129), (201, 5183), (211, 5195), (215, 5204),

Gene: Nostromo_66 Start: 42650, Stop: 43228, Start Num: 26
Candidate Starts for Nostromo_66:
(Start: 26 @42650 has 2 MA's), (110, 42941), (177, 43172),

Gene: Nozo_1 Start: 1, Stop: 693, Start Num: 22
Candidate Starts for Nozo_1:
(Start: 22 @1 has 43 MA's), (Start: 33 @22 has 1 MA's), (52, 64), (Start: 57 @73 has 6 MA's), (71, 151), (77, 175), (87, 214), (98, 253), (112, 307), (113, 313), (118, 340), (145, 478), (171, 541),

Gene: NyleyClemson_12 Start: 4095, Stop: 4676, Start Num: 54
Candidate Starts for NyleyClemson_12:

(Start: 54 @4095 has 17 MA's), (62, 4122), (109, 4323), (110, 4326), (112, 4332), (123, 4401), (134, 4440), (147, 4515), (215, 4665),

Gene: Obutu_1 Start: 1, Stop: 693, Start Num: 22
Candidate Starts for Obutu_1:
(Start: 22 @1 has 43 MA's), (Start: 33 @22 has 1 MA's), (52, 64), (Start: 57 @73 has 6 MA's), (71, 151), (77, 175), (87, 214), (98, 253), (112, 307), (113, 313), (118, 340), (145, 478), (171, 541),

Gene: Odyssey395_16 Start: 4894, Stop: 5475, Start Num: 54
Candidate Starts for Odyssey395_16:
(Start: 54 @4894 has 17 MA's), (62, 4921), (109, 5122), (110, 5125), (112, 5131), (123, 5200), (134, 5239), (147, 5314), (215, 5464),

Gene: Olivio_1 Start: 64, Stop: 699, Start Num: 52
Candidate Starts for Olivio_1:
(Start: 22 @1 has 43 MA's), (Start: 33 @22 has 1 MA's), (52, 64), (Start: 57 @73 has 6 MA's), (71, 151), (77, 175), (87, 214), (98, 253), (112, 307), (113, 313), (118, 340), (145, 478), (171, 541), (234, 694),

Gene: Ollypop_13 Start: 4602, Stop: 5183, Start Num: 54
Candidate Starts for Ollypop_13:
(Start: 54 @4602 has 17 MA's), (109, 4830), (110, 4833), (112, 4839), (123, 4908), (134, 4947), (147, 5022), (176, 5091), (211, 5163), (215, 5172),

Gene: Opia_1 Start: 1, Stop: 792, Start Num: 10
Candidate Starts for Opia_1:
(Start: 10 @1 has 16 MA's), (Start: 15 @37 has 2 MA's), (Start: 17 @76 has 2 MA's), (Start: 21 @133 has 1 MA's), (Start: 39 @172 has 7 MA's), (44, 181), (Start: 57 @202 has 6 MA's), (87, 343), (88, 346), (94, 367), (95, 373), (109, 421), (113, 436), (118, 463), (120, 469), (140, 583), (141, 589), (142, 592), (143, 595), (175, 679),

Gene: OrangeOswald_1 Start: 1, Stop: 693, Start Num: 22
Candidate Starts for OrangeOswald_1:
(Start: 22 @1 has 43 MA's), (Start: 33 @22 has 1 MA's), (52, 64), (Start: 57 @73 has 6 MA's), (71, 151), (77, 175), (87, 214), (98, 253), (112, 307), (113, 313), (118, 340), (145, 478), (171, 541),

Gene: Ottawa_72 Start: 42213, Stop: 42872, Start Num: 39
Candidate Starts for Ottawa_72:
(Start: 39 @42213 has 7 MA's), (Start: 56 @42243 has 3 MA's), (77, 42345), (221, 42822),

Gene: Ottawa_73 Start: 42869, Stop: 43480, Start Num: 53
Candidate Starts for Ottawa_73:
(Start: 53 @42869 has 2 MA's), (102, 43079), (142, 43241),

Gene: PenguinLover67_1 Start: 1, Stop: 633, Start Num: 32
Candidate Starts for PenguinLover67_1:
(Start: 32 @1 has 51 MA's), (87, 187), (115, 298), (118, 313), (119, 316), (141, 433), (208, 601),

Gene: Phaedrus_1 Start: 73, Stop: 693, Start Num: 57
Candidate Starts for Phaedrus_1:
(Start: 22 @1 has 43 MA's), (Start: 33 @22 has 1 MA's), (52, 64), (Start: 57 @73 has 6 MA's), (71, 151), (77, 175), (87, 214), (98, 253), (112, 307), (113, 313), (118, 340), (145, 478), (171, 541),

Gene: Phantasmagoria_1 Start: 1, Stop: 792, Start Num: 10
Candidate Starts for Phantasmagoria_1:
(Start: 10 @1 has 16 MA's), (Start: 15 @37 has 2 MA's), (Start: 17 @76 has 2 MA's), (Start: 21 @133 has 1 MA's), (Start: 39 @172 has 7 MA's), (44, 181), (Start: 57 @202 has 6 MA's), (87, 343), (88, 346), (94, 367), (95, 373), (109, 421), (113, 436), (118, 463), (120, 469), (141, 589), (143, 595), (175, 679),

Gene: Phayeta_1 Start: 1, Stop: 699, Start Num: 22
Candidate Starts for Phayeta_1:
(Start: 22 @1 has 43 MA's), (Start: 33 @22 has 1 MA's), (52, 64), (Start: 57 @73 has 6 MA's), (71, 151), (77, 175), (87, 214), (98, 253), (112, 307), (113, 313), (118, 340), (145, 478), (171, 541), (234, 694),

Gene: Phelemich_1 Start: 1, Stop: 813, Start Num: 32
Candidate Starts for Phelemich_1:
(Start: 32 @1 has 51 MA's), (44, 19), (67, 88), (87, 178), (107, 256), (109, 262), (113, 277), (118, 304), (156, 463), (171, 535), (192, 592), (196, 598), (197, 601), (203, 613), (220, 643), (228, 670), (240, 712), (246, 754), (247, 763),

Gene: Philly_1 Start: 1, Stop: 693, Start Num: 22
Candidate Starts for Philly_1:
(Start: 22 @1 has 43 MA's), (Start: 33 @22 has 1 MA's), (52, 64), (Start: 57 @73 has 6 MA's), (71, 151), (77, 175), (87, 214), (98, 253), (112, 307), (113, 313), (118, 340), (145, 478), (171, 541),

Gene: Phlyer_1 Start: 1, Stop: 693, Start Num: 22
Candidate Starts for Phlyer_1:
(Start: 22 @1 has 43 MA's), (Start: 33 @22 has 1 MA's), (52, 64), (Start: 57 @73 has 6 MA's), (71, 151), (77, 175), (87, 214), (98, 253), (112, 307), (113, 313), (118, 340), (145, 478), (171, 541),

Gene: PhuzzTulsa_12 Start: 4684, Stop: 5265, Start Num: 54
Candidate Starts for PhuzzTulsa_12:
(Start: 54 @4684 has 17 MA's), (62, 4711), (109, 4912), (110, 4915), (112, 4921), (123, 4990), (134, 5029), (147, 5104), (215, 5254),

Gene: Piccoletto_66 Start: 44460, Stop: 45038, Start Num: 28
Candidate Starts for Piccoletto_66:
(Start: 28 @44460 has 22 MA's), (35, 44475), (Start: 58 @44523 has 2 MA's), (85, 44664), (104, 44733), (173, 44976), (198, 45027),

Gene: Pipefish_1 Start: 1, Stop: 693, Start Num: 22
Candidate Starts for Pipefish_1:
(Start: 22 @1 has 43 MA's), (Start: 33 @22 has 1 MA's), (52, 64), (Start: 57 @73 has 6 MA's), (71, 151), (77, 175), (87, 214), (98, 253), (112, 307), (113, 313), (118, 340), (145, 478), (171, 541),

Gene: Pippa_70 Start: 45043, Stop: 45573, Start Num: 28
Candidate Starts for Pippa_70:
(Start: 28 @45043 has 22 MA's), (82, 45169), (85, 45187), (106, 45262), (114, 45292), (130, 45367), (133, 45382), (167, 45490), (176, 45511),

Gene: Pointis_14 Start: 4895, Stop: 5476, Start Num: 54
Candidate Starts for Pointis_14:
(Start: 54 @4895 has 17 MA's), (62, 4922), (109, 5123), (110, 5126), (112, 5132), (123, 5201), (134, 5240), (147, 5315), (215, 5465),

Gene: Popstraw_13 Start: 4684, Stop: 5265, Start Num: 54
Candidate Starts for Popstraw_13:
(Start: 54 @4684 has 17 MA's), (62, 4711), (109, 4912), (110, 4915), (112, 4921), (123, 4990), (134, 5029), (147, 5104), (215, 5254),

Gene: Poster_1 Start: 1, Stop: 798, Start Num: 32
Candidate Starts for Poster_1:
(Start: 32 @1 has 51 MA's), (67, 88), (69, 100), (80, 148), (87, 178), (88, 181), (94, 202), (107, 256), (109, 262), (113, 277), (118, 304), (119, 307), (132, 367), (156, 466), (192, 577), (193, 580), (196, 583), (228, 655), (236, 676), (237, 679), (250, 754),

Gene: Prince_1 Start: 1, Stop: 798, Start Num: 32
Candidate Starts for Prince_1:
(Start: 32 @1 has 51 MA's), (67, 88), (69, 100), (80, 148), (87, 178), (94, 202), (107, 256), (109, 262), (113, 277), (115, 289), (118, 304), (119, 307), (132, 367), (156, 466), (192, 577), (193, 580), (196, 583), (212, 616), (225, 643), (228, 655), (236, 676), (238, 685),

Gene: PrinceCharming_1 Start: 1, Stop: 792, Start Num: 10
Candidate Starts for PrinceCharming_1:
(Start: 10 @1 has 16 MA's), (13, 28), (Start: 15 @37 has 2 MA's), (Start: 17 @76 has 2 MA's), (Start: 21 @133 has 1 MA's), (Start: 39 @172 has 7 MA's), (44, 181), (87, 343), (94, 367), (95, 373), (109, 421), (113, 436), (118, 463), (120, 469), (132, 526), (141, 589), (143, 595), (175, 679),

Gene: Pureglobe5_16 Start: 4908, Stop: 5489, Start Num: 54
Candidate Starts for Pureglobe5_16:
(Start: 54 @4908 has 17 MA's), (62, 4935), (109, 5136), (110, 5139), (112, 5145), (123, 5214), (134, 5253), (147, 5328), (215, 5478),

Gene: QueenPie_1 Start: 88, Stop: 798, Start Num: 67
Candidate Starts for QueenPie_1:
(Start: 32 @1 has 51 MA's), (67, 88), (69, 100), (80, 148), (87, 178), (94, 202), (107, 256), (109, 262), (113, 277), (118, 304), (119, 307), (132, 367), (156, 466), (192, 577), (193, 580), (196, 583), (212, 616), (225, 643), (228, 655), (236, 676), (237, 679), (250, 754),

Gene: Quesadilla_1 Start: 1, Stop: 633, Start Num: 32
Candidate Starts for Quesadilla_1:
(Start: 32 @1 has 51 MA's), (67, 97), (87, 187), (107, 265), (118, 313), (141, 433),

Gene: RagingRooster_1 Start: 1, Stop: 693, Start Num: 22
Candidate Starts for RagingRooster_1:
(Start: 22 @1 has 43 MA's), (Start: 33 @22 has 1 MA's), (52, 64), (Start: 57 @73 has 6 MA's), (71, 151), (77, 175), (87, 214), (98, 253), (112, 307), (113, 313), (118, 340), (145, 478), (171, 541),

Gene: Ranunculus_10 Start: 4388, Stop: 4969, Start Num: 54
Candidate Starts for Ranunculus_10:
(12, 4211), (Start: 54 @4388 has 17 MA's), (75, 4490), (109, 4616), (110, 4619), (134, 4733), (176, 4877), (177, 4880), (178, 4883), (213, 4955),

Gene: RawrgerThat_1 Start: 1, Stop: 798, Start Num: 32
Candidate Starts for RawrgerThat_1:
(Start: 32 @1 has 51 MA's), (67, 88), (69, 100), (80, 148), (87, 178), (94, 202), (107, 256), (109, 262), (113, 277), (115, 289), (119, 307), (132, 367), (156, 466), (192, 577), (193, 580), (196, 583), (212, 616), (225, 643), (228, 655), (236, 676), (237, 679),

Gene: RazzB_11 Start: 3923, Stop: 4504, Start Num: 54
Candidate Starts for RazzB_11:
(Start: 54 @3923 has 17 MA's), (62, 3950), (109, 4151), (110, 4154), (112, 4160), (123, 4229), (134, 4268), (147, 4343), (215, 4493),

Gene: Reccee_1 Start: 1, Stop: 816, Start Num: 32
Candidate Starts for Reccee_1:
(Start: 32 @1 has 51 MA's), (Start: 43 @16 has 2 MA's), (44, 19), (87, 178), (107, 256), (113, 277), (129, 358), (156, 463), (171, 538), (192, 595), (197, 604), (220, 646), (249, 769),

Gene: Ren19_10 Start: 4634, Stop: 5215, Start Num: 54
Candidate Starts for Ren19_10:
(49, 4622), (Start: 54 @4634 has 17 MA's), (59, 4643), (61, 4652), (109, 4862), (110, 4865), (112, 4871), (123, 4940), (134, 4979), (177, 5126), (178, 5129), (201, 5183), (211, 5195), (215, 5204),

Gene: Renkei_1 Start: 1, Stop: 798, Start Num: 32
Candidate Starts for Renkei_1:
(Start: 32 @1 has 51 MA's), (67, 88), (69, 100), (80, 148), (87, 178), (88, 181), (94, 202), (107, 256), (109, 262), (113, 277), (118, 304), (119, 307), (132, 367), (156, 466), (192, 577), (193, 580), (196, 583), (212, 616), (225, 643), (228, 655), (236, 676), (237, 679), (250, 754),

Gene: Reprobate_1 Start: 1, Stop: 810, Start Num: 32
Candidate Starts for Reprobate_1:
(Start: 32 @1 has 51 MA's), (44, 19), (67, 88), (107, 256), (109, 262), (113, 277), (118, 304), (156, 463), (171, 532), (192, 589), (196, 595), (197, 598), (203, 610), (220, 640), (228, 667), (240, 709), (246, 751), (247, 760),

Gene: Rich_1 Start: 1, Stop: 819, Start Num: 32
Candidate Starts for Rich_1:
(Start: 32 @1 has 51 MA's), (Start: 43 @16 has 2 MA's), (44, 19), (63, 67), (113, 277), (129, 358), (156, 463), (171, 538), (192, 595), (197, 604), (220, 646),

Gene: Rita130_1 Start: 1, Stop: 816, Start Num: 32
Candidate Starts for Rita130_1:
(Start: 32 @1 has 51 MA's), (Start: 43 @16 has 2 MA's), (44, 19), (87, 178), (107, 256), (113, 277), (118, 304), (129, 358), (156, 463), (171, 538), (192, 595), (197, 604), (220, 646), (249, 769),

Gene: Rita1961_1 Start: 1, Stop: 693, Start Num: 22
Candidate Starts for Rita1961_1:
(Start: 22 @1 has 43 MA's), (Start: 33 @22 has 1 MA's), (52, 64), (Start: 57 @73 has 6 MA's), (71, 151), (77, 175), (87, 214), (98, 253), (112, 307), (113, 313), (118, 340), (145, 478), (171, 541),

Gene: Rizwana_10 Start: 4484, Stop: 5074, Start Num: 54
Candidate Starts for Rizwana_10:
(Start: 54 @4484 has 17 MA's), (67, 4541), (76, 4589), (92, 4655), (114, 4739), (122, 4790), (123, 4793), (136, 4850), (152, 4913), (155, 4922), (168, 4964), (177, 4982), (211, 5054), (215, 5063),

Gene: RomaT_1 Start: 1, Stop: 693, Start Num: 22
Candidate Starts for RomaT_1:
(Start: 22 @1 has 43 MA's), (Start: 33 @22 has 1 MA's), (52, 64), (Start: 57 @73 has 6 MA's), (71, 151), (77, 175), (87, 214), (98, 253), (112, 307), (113, 313), (118, 340), (145, 478), (171, 541),

Gene: RomansRevenge_8 Start: 3035, Stop: 3610, Start Num: 56
Candidate Starts for RomansRevenge_8:
(Start: 56 @3035 has 3 MA's), (64, 3071), (65, 3074), (67, 3089), (85, 3179), (106, 3254), (111, 3266), (112, 3269), (120, 3308), (128, 3353), (131, 3362), (151, 3443), (176, 3512), (190, 3554), (195, 3563), (211, 3590),

Gene: Sabella_1 Start: 76, Stop: 792, Start Num: 17
Candidate Starts for Sabella_1:
(Start: 10 @1 has 16 MA's), (Start: 15 @37 has 2 MA's), (Start: 17 @76 has 2 MA's), (Start: 21 @133 has 1 MA's), (Start: 39 @172 has 7 MA's), (44, 181), (Start: 57 @202 has 6 MA's), (87, 343), (94, 367), (95, 373), (109, 421), (113, 436), (118, 463), (120, 469), (140, 583), (141, 589), (175, 679),

Gene: Salgado_5 Start: 3284, Stop: 3907, Start Num: 25
Candidate Starts for Salgado_5:
(Start: 25 @3284 has 2 MA's), (27, 3287), (Start: 39 @3302 has 7 MA's), (Start: 55 @3332 has 1 MA's), (67, 3383), (77, 3434), (80, 3443), (102, 3533), (112, 3542), (113, 3548), (118, 3575), (157, 3737), (162, 3758), (219, 3890),

Gene: Serendipitous_1 Start: 1, Stop: 816, Start Num: 32
Candidate Starts for Serendipitous_1:
(Start: 32 @1 has 51 MA's), (Start: 43 @16 has 2 MA's), (44, 19), (107, 256), (113, 277), (129, 358), (156, 463), (171, 538), (192, 595), (196, 601), (197, 604), (203, 616), (220, 646), (242, 739),

Gene: Shade_69 Start: 44814, Stop: 45389, Start Num: 28
Candidate Starts for Shade_69:
(Start: 28 @44814 has 22 MA's), (82, 44985), (85, 45003), (106, 45078), (114, 45108), (130, 45183), (133, 45198), (167, 45306), (176, 45327),

Gene: Shatter_1 Start: 1, Stop: 606, Start Num: 32
Candidate Starts for Shatter_1:
(Start: 32 @1 has 51 MA's), (67, 85), (71, 112), (77, 136), (87, 175), (127, 349), (159, 472), (186, 553), (207, 592), (210, 595), (214, 601),

Gene: Shenandoah_1 Start: 1, Stop: 693, Start Num: 22
Candidate Starts for Shenandoah_1:
(Start: 22 @1 has 43 MA's), (Start: 33 @22 has 1 MA's), (52, 64), (Start: 57 @73 has 6 MA's), (71, 151), (77, 175), (87, 214), (98, 253), (112, 307), (113, 313), (118, 340), (145, 478), (171, 541),

Gene: Shenyu_1 Start: 1, Stop: 807, Start Num: 32
Candidate Starts for Shenyu_1:
(Start: 32 @1 has 51 MA's), (Start: 43 @16 has 2 MA's), (44, 19), (88, 181), (107, 256), (113, 277), (118, 304), (156, 463), (171, 538), (192, 595), (196, 601), (197, 604), (203, 616), (220, 646),

Gene: Shrooms_5 Start: 3310, Stop: 3960, Start Num: 19
Candidate Starts for Shrooms_5:
(3, 3046), (Start: 19 @3310 has 2 MA's), (Start: 39 @3355 has 7 MA's), (Start: 55 @3385 has 1 MA's), (67, 3436), (76, 3484), (77, 3487), (112, 3595), (113, 3601), (166, 3826), (186, 3889),

Gene: Sicarius2_71 Start: 43199, Stop: 43729, Start Num: 56
Candidate Starts for Sicarius2_71:
(Start: 56 @43199 has 3 MA's), (64, 43235), (66, 43244), (85, 43343), (106, 43421), (118, 43469), (146, 43592), (202, 43724),

Gene: SilentRX_10 Start: 3301, Stop: 3894, Start Num: 54
Candidate Starts for SilentRX_10:
(Start: 54 @3301 has 17 MA's), (87, 3454), (109, 3529), (116, 3565), (118, 3574), (122, 3607), (123, 3610), (142, 3706), (144, 3712), (155, 3736), (164, 3772), (211, 3874), (213, 3880),

Gene: SirJeffery_1 Start: 1, Stop: 816, Start Num: 32
Candidate Starts for SirJeffery_1:
(Start: 32 @1 has 51 MA's), (Start: 43 @16 has 2 MA's), (44, 19), (87, 178), (107, 256), (113, 277), (118, 304), (129, 358), (156, 463), (171, 538), (192, 595), (197, 604), (220, 646), (242, 739),

Gene: Sisko_1 Start: 1, Stop: 600, Start Num: 32
Candidate Starts for Sisko_1:
(Start: 32 @1 has 51 MA's), (Start: 57 @28 has 6 MA's), (67, 79), (74, 118), (118, 295), (207, 586), (210, 589),

Gene: SlippinJimmy_1 Start: 22, Stop: 693, Start Num: 33
Candidate Starts for SlippinJimmy_1:
(Start: 22 @1 has 43 MA's), (Start: 33 @22 has 1 MA's), (52, 64), (Start: 57 @73 has 6 MA's), (71, 151), (77, 175), (87, 214), (98, 253), (112, 307), (113, 313), (118, 340), (145, 478), (171, 541),

Gene: Sonali_86 Start: 53450, Stop: 54043, Start Num: 58
Candidate Starts for Sonali_86:
(1, 52859), (2, 52970), (12, 53303), (46, 53429), (Start: 58 @53450 has 2 MA's), (79, 53558), (99, 53642), (183, 53945), (195, 53969),

Gene: Sonny_69 Start: 44737, Stop: 45312, Start Num: 28
Candidate Starts for Sonny_69:
(Start: 28 @44737 has 22 MA's), (82, 44908), (85, 44926), (106, 45001), (114, 45031), (130, 45106), (133, 45121), (167, 45229), (176, 45250),

Gene: Sour_1 Start: 1, Stop: 615, Start Num: 41
Candidate Starts for Sour_1:
(Start: 41 @1 has 1 MA's), (77, 130), (87, 169), (94, 193), (113, 268), (118, 295), (141, 415), (205, 583),

Gene: StevieBAY_70 Start: 45067, Stop: 45597, Start Num: 28
Candidate Starts for StevieBAY_70:
(Start: 28 @45067 has 22 MA's), (82, 45193), (85, 45211), (106, 45286), (129, 45388), (133, 45406),

Gene: Stinger_1 Start: 1, Stop: 789, Start Num: 32
Candidate Starts for Stinger_1:
(Start: 32 @1 has 51 MA's), (67, 88), (69, 100), (87, 178), (94, 202), (107, 256), (109, 262), (118, 304), (132, 367), (156, 466), (192, 568), (193, 571), (196, 574), (212, 607), (225, 634), (228, 646), (236, 667), (237, 670),

Gene: StinkyVeggy_1 Start: 1, Stop: 807, Start Num: 32
Candidate Starts for StinkyVeggy_1:
(Start: 32 @1 has 51 MA's), (Start: 43 @16 has 2 MA's), (44, 19), (107, 256), (113, 277), (118, 304), (156, 463), (171, 538), (192, 595), (196, 601), (197, 604), (203, 616), (220, 646),

Gene: Suigeneris_1 Start: 1, Stop: 816, Start Num: 32
Candidate Starts for Suigeneris_1:

(Start: 32 @1 has 51 MA's), (Start: 43 @16 has 2 MA's), (44, 19), (87, 178), (107, 256), (113, 277), (118, 304), (129, 358), (156, 463), (171, 538), (192, 595), (197, 604), (220, 646), (242, 739),

Gene: Sunshine23_89 Start: 53186, Stop: 53779, Start Num: 58
Candidate Starts for Sunshine23_89:
(12, 53039), (46, 53165), (Start: 58 @53186 has 2 MA's), (66, 53228), (79, 53294), (91, 53348), (99, 53378), (109, 53408), (183, 53681), (195, 53705),

Gene: SwainyDoc_1 Start: 73, Stop: 693, Start Num: 57
Candidate Starts for SwainyDoc_1:
(Start: 22 @1 has 43 MA's), (Start: 33 @22 has 1 MA's), (52, 64), (Start: 57 @73 has 6 MA's), (71, 151), (77, 175), (87, 214), (98, 253), (112, 307), (113, 313), (118, 340), (145, 478), (171, 541),

Gene: SynergyX_1 Start: 1, Stop: 693, Start Num: 22
Candidate Starts for SynergyX_1:
(Start: 22 @1 has 43 MA's), (Start: 33 @22 has 1 MA's), (52, 64), (Start: 57 @73 has 6 MA's), (71, 151), (77, 175), (87, 214), (98, 253), (112, 307), (113, 313), (118, 340), (145, 478), (171, 541),

Gene: TA17A_1 Start: 1, Stop: 792, Start Num: 10
Candidate Starts for TA17A_1:
(Start: 10 @1 has 16 MA's), (Start: 15 @37 has 2 MA's), (Start: 17 @76 has 2 MA's), (Start: 21 @133 has 1 MA's), (Start: 39 @172 has 7 MA's), (44, 181), (Start: 57 @202 has 6 MA's), (87, 343), (94, 367), (95, 373), (109, 421), (113, 436), (118, 463), (120, 469), (140, 583), (141, 589), (175, 679), (178, 688),

Gene: TaeYoung_70 Start: 44980, Stop: 45510, Start Num: 28
Candidate Starts for TaeYoung_70:
(Start: 28 @44980 has 22 MA's), (82, 45106), (85, 45124), (106, 45199), (114, 45229), (130, 45304), (133, 45319), (167, 45427), (176, 45448),

Gene: Tank_11 Start: 4502, Stop: 5092, Start Num: 54
Candidate Starts for Tank_11:
(Start: 54 @4502 has 17 MA's), (92, 4673), (109, 4730), (114, 4757), (119, 4778), (123, 4811), (131, 4835), (137, 4871), (168, 4982), (172, 4988), (177, 5000), (213, 5078), (215, 5081),

Gene: Terij_1 Start: 1, Stop: 645, Start Num: 42
Candidate Starts for Terij_1:
(Start: 42 @1 has 6 MA's), (67, 85), (72, 118), (105, 241), (106, 247), (140, 418), (143, 430), (177, 520), (188, 559), (226, 625),

Gene: Timinator_70 Start: 44887, Stop: 45417, Start Num: 28
Candidate Starts for Timinator_70:
(Start: 28 @44887 has 22 MA's), (82, 45013), (85, 45031), (129, 45208), (133, 45226),

Gene: TinyTerror_1 Start: 1, Stop: 693, Start Num: 22
Candidate Starts for TinyTerror_1:
(Start: 22 @1 has 43 MA's), (Start: 33 @22 has 1 MA's), (52, 64), (Start: 57 @73 has 6 MA's), (71, 151), (77, 175), (87, 214), (98, 253), (112, 307), (113, 313), (118, 340), (145, 478), (171, 541),

Gene: Tonitrus_1 Start: 1, Stop: 750, Start Num: 43
Candidate Starts for Tonitrus_1:
(Start: 43 @1 has 2 MA's), (51, 16), (77, 127), (78, 130), (85, 160), (87, 166), (88, 169), (94, 190), (107, 244), (110, 253), (118, 292), (132, 355), (169, 496), (177, 514), (193, 559), (196, 562), (212, 595), (220, 607), (235, 652), (237, 658), (239, 667), (241, 685),

Gene: TraderJ_1 Start: 1, Stop: 804, Start Num: 29
Candidate Starts for TraderJ_1:
(Start: 29 @1 has 8 MA's), (Start: 32 @10 has 51 MA's), (87, 193), (94, 217), (95, 223), (113, 292), (128, 370), (145, 451), (177, 562), (236, 703), (237, 706), (247, 775),

Gene: Tres_1 Start: 1, Stop: 792, Start Num: 10
Candidate Starts for Tres_1:
(Start: 10 @1 has 16 MA's), (Start: 15 @37 has 2 MA's), (Start: 17 @76 has 2 MA's), (Start: 21 @133 has 1 MA's), (Start: 39 @172 has 7 MA's), (44, 181), (Start: 57 @202 has 6 MA's), (87, 343), (88, 346), (94, 367), (95, 373), (109, 421), (113, 436), (118, 463), (120, 469), (140, 583), (141, 589), (175, 679),

Gene: Tydolla_1 Start: 73, Stop: 693, Start Num: 57
Candidate Starts for Tydolla_1:
(Start: 22 @1 has 43 MA's), (Start: 33 @22 has 1 MA's), (52, 64), (Start: 57 @73 has 6 MA's), (71, 151), (77, 175), (87, 214), (98, 253), (112, 307), (113, 313), (118, 340), (145, 478), (171, 541),

Gene: Typha_1 Start: 202, Stop: 861, Start Num: 24
Candidate Starts for Typha_1:
(Start: 24 @202 has 5 MA's), (40, 235), (45, 247), (73, 352), (76, 364), (77, 367), (87, 406), (88, 409), (94, 430), (98, 445), (113, 481), (128, 559), (153, 652), (187, 760), (189, 763), (191, 766), (218, 814), (231, 850),

Gene: Vic9_00001 Start: 133, Stop: 792, Start Num: 21
Candidate Starts for Vic9_00001:
(Start: 10 @1 has 16 MA's), (Start: 17 @76 has 2 MA's), (Start: 21 @133 has 1 MA's), (Start: 39 @172 has 7 MA's), (44, 181), (Start: 57 @202 has 6 MA's), (87, 343), (94, 367), (95, 373), (109, 421), (113, 436), (118, 463), (120, 469), (140, 583), (141, 589), (175, 679),

Gene: VioletZ_1 Start: 1, Stop: 798, Start Num: 32
Candidate Starts for VioletZ_1:
(Start: 32 @1 has 51 MA's), (67, 88), (69, 100), (80, 148), (87, 178), (94, 202), (107, 256), (109, 262), (113, 277), (115, 289), (118, 304), (119, 307), (132, 367), (156, 466), (192, 577), (193, 580), (196, 583), (212, 616), (225, 643), (228, 655), (236, 676), (237, 679),

Gene: Vitus_80 Start: 46317, Stop: 46829, Start Num: 55
Candidate Starts for Vitus_80:
(5, 46197), (8, 46233), (9, 46245), (Start: 55 @46317 has 1 MA's), (85, 46458), (98, 46503), (117, 46578), (170, 46764),

Gene: Waleliano_1 Start: 1, Stop: 798, Start Num: 32
Candidate Starts for Waleliano_1:
(Start: 32 @1 has 51 MA's), (67, 88), (69, 100), (80, 148), (87, 178), (94, 202), (107, 256), (109, 262), (113, 277), (115, 289), (118, 304), (119, 307), (132, 367), (156, 466), (192, 577), (193, 580), (196, 583), (212, 616), (225, 643), (228, 655), (236, 676), (238, 685),

Gene: Waltz_5 Start: 3398, Stop: 4048, Start Num: 19
Candidate Starts for Waltz_5:
(Start: 19 @3398 has 2 MA's), (Start: 39 @3443 has 7 MA's), (Start: 55 @3473 has 1 MA's), (67, 3524), (76, 3572), (112, 3683), (113, 3689), (186, 3977),

Gene: Wheelbite_5 Start: 3393, Stop: 3998, Start Num: 39
Candidate Starts for Wheelbite_5:

(Start: 25 @3375 has 2 MA's), (27, 3378), (Start: 39 @3393 has 7 MA's), (Start: 55 @3423 has 1 MA's), (67, 3474), (80, 3534), (112, 3633), (157, 3828), (162, 3849), (219, 3981),

Gene: Wilde_11 Start: 4430, Stop: 5020, Start Num: 54
Candidate Starts for Wilde_11:
(Start: 54 @4430 has 17 MA's), (92, 4601), (109, 4658), (114, 4685), (119, 4706), (123, 4739), (131, 4763), (137, 4799), (168, 4910), (172, 4916), (177, 4928), (213, 5006), (215, 5009),

Gene: Wooper_1 Start: 1, Stop: 804, Start Num: 29
Candidate Starts for Wooper_1:
(Start: 29 @1 has 8 MA's), (Start: 32 @10 has 51 MA's), (76, 151), (87, 193), (94, 217), (95, 223), (113, 292), (118, 319), (119, 322), (200, 619), (236, 703), (237, 706), (247, 775),

Gene: Wrackline_72 Start: 37846, Stop: 38481, Start Num: 47
Candidate Starts for Wrackline_72:
(38, 37825), (Start: 47 @37846 has 1 MA's), (60, 37867), (67, 37912), (78, 37966), (87, 38002), (92, 38020), (112, 38071), (118, 38104), (126, 38149), (127, 38152), (131, 38164), (135, 38191), (139, 38221), (140, 38230), (144, 38245), (150, 38263), (163, 38308), (174, 38329), (175, 38332), (180, 38347), (194, 38389),

Gene: Wyborn_70 Start: 43934, Stop: 44464, Start Num: 56
Candidate Starts for Wyborn_70:
(Start: 56 @43934 has 3 MA's), (64, 43970), (66, 43979), (85, 44078), (106, 44156), (118, 44204), (146, 44327), (202, 44459),

Gene: Xincheng_1 Start: 1, Stop: 798, Start Num: 32
Candidate Starts for Xincheng_1:
(Start: 32 @1 has 51 MA's), (67, 88), (69, 100), (70, 109), (80, 148), (87, 178), (94, 202), (107, 256), (109, 262), (113, 277), (115, 289), (119, 307), (132, 367), (156, 466), (192, 577), (193, 580), (196, 583), (212, 616), (225, 643), (228, 655), (236, 676),

Gene: Yago84_1 Start: 1, Stop: 600, Start Num: 32
Candidate Starts for Yago84_1:
(Start: 32 @1 has 51 MA's), (Start: 57 @28 has 6 MA's), (67, 79), (74, 118), (118, 295), (158, 463), (207, 586), (210, 589),

Gene: Yahalom_1 Start: 73, Stop: 693, Start Num: 57
Candidate Starts for Yahalom_1:
(Start: 22 @1 has 43 MA's), (Start: 33 @22 has 1 MA's), (52, 64), (Start: 57 @73 has 6 MA's), (71, 151), (77, 175), (87, 214), (98, 253), (112, 307), (113, 313), (118, 340), (145, 478), (171, 541),

Gene: Yeshua_1 Start: 1, Stop: 804, Start Num: 29
Candidate Starts for Yeshua_1:
(Start: 29 @1 has 8 MA's), (Start: 32 @10 has 51 MA's), (76, 151), (87, 193), (94, 217), (95, 223), (113, 292), (118, 319), (119, 322), (237, 706), (247, 775),

Gene: Yinz_1 Start: 1, Stop: 693, Start Num: 22
Candidate Starts for Yinz_1:
(Start: 22 @1 has 43 MA's), (Start: 33 @22 has 1 MA's), (52, 64), (Start: 57 @73 has 6 MA's), (71, 151), (77, 175), (87, 214), (98, 253), (112, 307), (113, 313), (118, 340), (145, 478), (171, 541),

Gene: Zartrosa_71 Start: 45067, Stop: 45642, Start Num: 28
Candidate Starts for Zartrosa_71:

(Start: 28 @45067 has 22 MA's), (82, 45238), (85, 45256), (106, 45331), (114, 45361), (130, 45436), (133, 45451), (167, 45559), (176, 45580),

Gene: Zemanar_1 Start: 1, Stop: 798, Start Num: 32
Candidate Starts for Zemanar_1:
(Start: 32 @1 has 51 MA's), (67, 88), (69, 100), (70, 109), (80, 148), (87, 178), (94, 202), (107, 256), (109, 262), (113, 277), (115, 289), (119, 307), (132, 367), (156, 466), (192, 577), (193, 580), (196, 583), (200, 592), (212, 616), (225, 643), (228, 655), (236, 676), (237, 679),