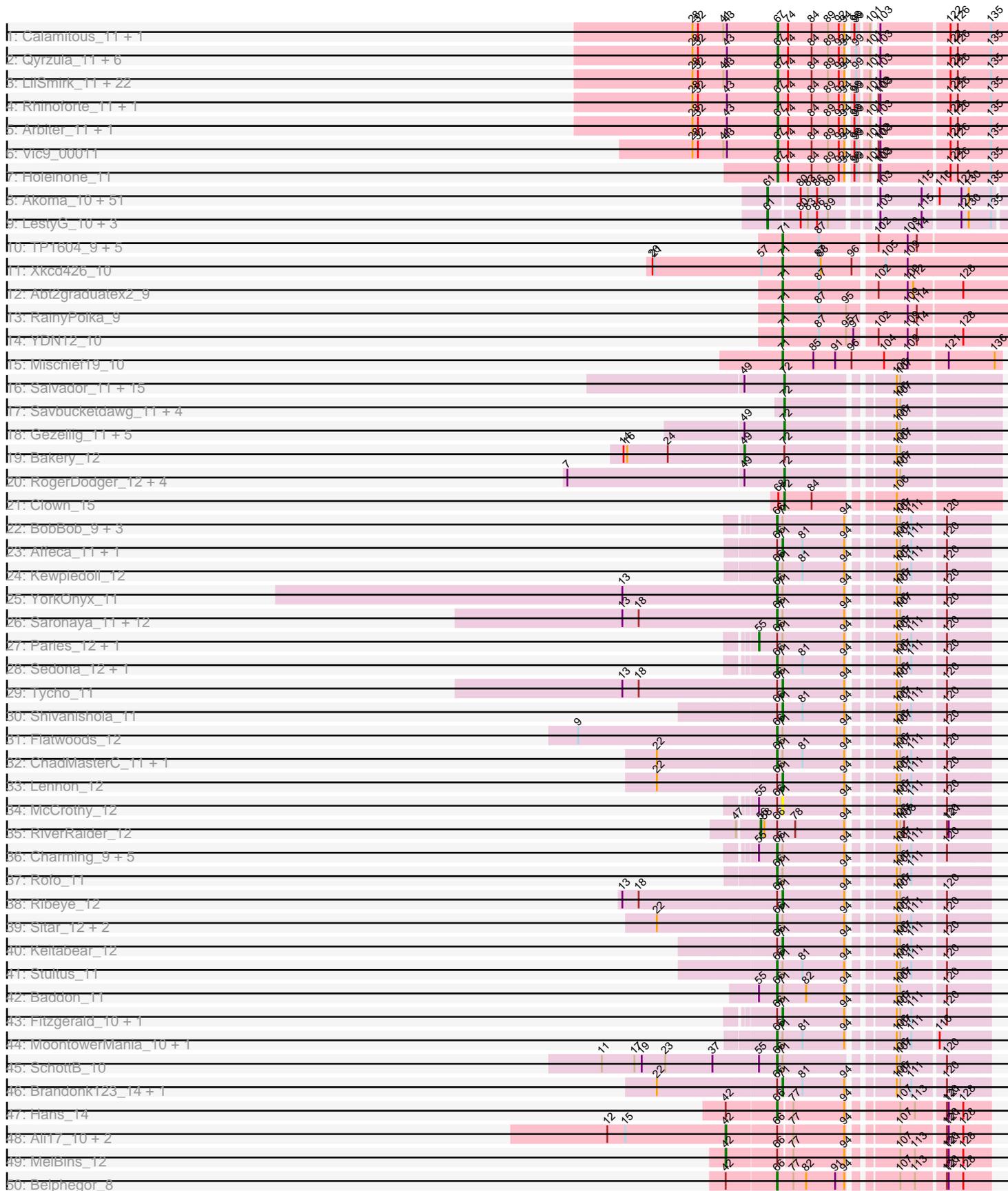


Pham 290778



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 290778 Report

This analysis was run 03/28/26 on database version 641.

Pham number 290778 has 289 members, 41 are drafts.

Phages represented in each track:

- Track 1 : Calamitous_11, Laurie_11
- Track 2 : Qyrzula_11, Tres_11, Godines_11, Blocker23_11, LizLemon_11, PrinceCharming_11, Lars_11
- Track 3 : LilSmirk_11, Brownie5_11, Boyle_11, Kolhan_11, Kheth_11, Opia_11, Ares_11, Rosebush_11, Eaglehorse_11, Glass_11, ItsyBitsy1_11, Lephleur_11, Sabella_11, Faze9_11, MasterPo_11, Bananafish_11, FrenchFry_11, West99_11, Tinciduntolum_12, Kaleb_11, Coffee_11, Phantasmagoria_11, Hedgerow_11
- Track 4 : Rhinoforte_11, Allegro_11
- Track 5 : Arbiter_11, TA17A_11
- Track 6 : Vic9_00011
- Track 7 : Holeinone_11
- Track 8 : Akoma_10, Marley1013_10, Gervas_10, OrangeOswald_10, Halfpint_9, HarveySr_10, Phaedrus_9, Philly_9, Abinghost_10, Mulaychimus_10, Yinz_10, Tydolla_10, Briakila_10, Heathcliff_10, Corofin_10, Kronus_9, Bernardo_10, Deenasa_10, TinyTerror_10, Rita1961_10, Neos5_10, Casbah_9, Yahalom_10, Jackstina_9, Mortcellus_9, Phlyer_10, GlenHope_11, Chandler_10, SynergyX_10, Baloo_10, Chalmers_10, Morty007_10, Gadget_11, Devonte_10, Audrey_10, Obutu_10, Pipefish_10, MmasiCarm_10, Ben11_9, Marlia_10, Phayeta_10, Chentzyk_9, Daisy_10, SlippinJimmy_10, Olivio_9, Shenandoah_10, RomaT_10, ChaChing_10, Kamiyu_10, RagingRooster_10, Compostia_10, Nozo_10
- Track 9 : LestyG_10, SwainyDoc_10, Glubnar_10, Athena_11
- Track 10 : TP1604_9, Asis_9, Salete_9, BabyGotBac_9, Maih_9, BayC_9
- Track 11 : Xkcd426_10
- Track 12 : Abt2graduatex2_9
- Track 13 : RainyPolka_9
- Track 14 : YDN12_10
- Track 15 : Mischief19_10
- Track 16 : Salvador_11, Twister6_11, Arri_12, Danyall_11, Fugax_11, VanDeWege_12, PinkCoffee_11, SmokingBunny_11, Nubi_11, Mutzi_11, Evamon_11, KimmyK_11, ClamChowder_11, CoveyB_11, Togo_11, Barb_11
- Track 17 : Savbucketdawg_11, TillyBobJoe_11, Jambalaya_11, Shinji_11, Portcullis_11
- Track 18 : Gezellig_11, Phlop_11, Egi03_11, Wizard_11, Fireball_12, PullumCavea_11
- Track 19 : Bakery_12
- Track 20 : RogerDodger_12, Valary_12, CherryCola_13, YungMoney_11, Halo3_12
- Track 21 : Clown_15

- Track 22 : BobBob_9, Sanjuju_10, Angelicage_11, Jabberwocky_10
- Track 23 : Affeca_11, McKinley_12
- Track 24 : Kewpiedoll_12
- Track 25 : YorkOnyx_11
- Track 26 : Saronaya_11, Gaea_11, Kwobi_11, Kroos_11, Gustavo_11, Derg_7, StorminNorm_11, Ashertheman_11, Baumdotcom_11, Tangerine_11, LilHam_9, Bizzy_12, JKSyngboy_10
- Track 27 : Paries_12, Tangent_9
- Track 28 : Sedona_12, Bibwit_11
- Track 29 : Tycho_11
- Track 30 : Shivanishola_11
- Track 31 : Flatwoods_12
- Track 32 : ChadMasterC_11, Barsten_12
- Track 33 : Lennon_12
- Track 34 : McCrothy_12
- Track 35 : RiverRaider_12
- Track 36 : Charming_9, Fosterous_9, Galadriel_13, Kamashten_12, Thing3_12, Nordenberg_6
- Track 37 : Rofo_11
- Track 38 : Ribeye_12
- Track 39 : Sitar_12, FuegoCuervo_15, Vivi2_10
- Track 40 : Keitabear_12
- Track 41 : Stultus_11
- Track 42 : Baddon_11
- Track 43 : Fitzgerald_10, Ailee_11
- Track 44 : MoontowerMania_10, Love_13
- Track 45 : SchottB_10
- Track 46 : Brandonk123_14, Geodirt_11
- Track 47 : Hans_14
- Track 48 : Ali17_10, Phinally_12, Leonard_12
- Track 49 : MelBins_12
- Track 50 : Belphegor_8
- Track 51 : Phauci_5
- Track 52 : Inspectinfecti_13
- Track 53 : EMoore_6
- Track 54 : Twonlo_10, Tiamoceli_13, RoadKill_10, EdmundFerry_11, Dextert_13, Chickadee_12, GTE6_13
- Track 55 : Kwekel_12
- Track 56 : DoctorFroggo_13, Verity_13, Delrey21_13, Zipp_13
- Track 57 : ViaConlectus_13, Natkenzie_13, Sampson_13, Scioto_13, Abblin_13
- Track 58 : Tardus_13, APunk_14, Zitch_14
- Track 59 : BigHunkinEater_15
- Track 60 : Pumpkiney_14
- Track 61 : Lilbeanie_12
- Track 62 : BiggityBass_6
- Track 63 : CaiB_9
- Track 64 : TraderJ_9, CloverMinnie_9, Wooper_9, MakoManhole_9, FelixTres_9, AnarQue_9, Blackpen_9
- Track 65 : BobRoss2024_6
- Track 66 : Evaa_8
- Track 67 : AksarBAT_7
- Track 68 : NHagos_7
- Track 69 : Mariokart_7

- Track 70 : Sisko_6, AnClar_6
- Track 71 : CharlottesWeb_7
- Track 72 : Axumite_7, Shatter_7, Fresco_7, Ligma_7
- Track 73 : LittleMunchkin_8
- Track 74 : MossRose_9
- Track 75 : Yeshua_9
- Track 76 : Sour_10
- Track 77 : Coldpizza_9
- Track 78 : Yago84_6
- Track 79 : Chilliams_72
- Track 80 : Atuin_69
- Track 81 : Emmetator_67, Ellewin_66, Artu_67, WaddleDee_62, BooTeria_71, KSunshine22_69, DunneganBoMo_64
- Track 82 : FloraSnap32_74, Patbob_73
- Track 83 : SJReid_78
- Track 84 : ReginaGlobina_74
- Track 85 : Talia1610_75, Racecar_76, Mimi_75, FrostedClock_78, Bloom_79
- Track 86 : Panchaali_67, Stewart25555_65
- Track 87 : LeoJr_74
- Track 88 : Phrampa_67
- Track 89 : GoldenEssence_61
- Track 90 : Rockabye_77
- Track 91 : PauloDiaboli_81, Dodo_81, A3Wally_81
- Track 92 : Zooman_66, Big4_70
- Track 93 : Erasmago_74
- Track 94 : Cece_65
- Track 95 : Pumpernickel_79
- Track 96 : Laure_77
- Track 97 : Pine5_09
- Track 98 : TPA2_16
- Track 99 : phiAsp2_3
- Track 100 : TurkishDelight_10

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

The start number called the most often in the published annotations is 66, it was called in 59 of the 248 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- APunk_14, Abblin_13, Angelicage_11, Ashertheman_11, Baddon_11, Barsten_12, Baumdotcom_11, Belphegor_8, Bibwit_11, BigHunkinEater_15, Bizzy_12, BobBob_9, ChadMasterC_11, Charming_9, Chickadee_12, Delrey21_13, Derg_7, Dxdert_13, DoctorFroggo_13, EMOore_6, EdmundFerry_11, Flatwoods_12, Fosterous_9, FuegoCuervo_15, GTE6_13, Gaea_11, Galadriel_13, Gustavo_11, Hans_14, Inspectinfecti_13, JKSyngboy_10, Jabberwocky_10, Kamashten_12, Kewpiedoll_12, Kroos_11, Kwekel_12, Kwobi_11, LilHam_9, Love_13, MoontowerMania_10, Natkenzie_13, Nordenberg_6, Pumpkiney_14, RoadKill_10, Rofo_11, Sampson_13, Sanjuju_10, Saronaya_11, SchottB_10, Scioto_13, Sedona_12, Sitar_12, StorminNorm_11, Stultus_11, Tangerine_11, Tardus_13, Thing3_12, Tiamoceli_13, Twonlo_10, Verity_13, ViaConlectus_13, Vivi2_10, YorkOnyx_11, Zipp_13, Zitch_14,

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

- Affeca_11, Ailee_11, Ali17_10, Artu_67, Big4_70, BooTeria_71, Brandonk123_14, Cece_65, DunneganBoMo_64, Ellewin_66, Emmetator_67, Erasmago_74, Fitzgerald_10, Geodirt_11, KSunshine22_69, Keitabear_12, Lennon_12, Leonard_12, McCrothy_12, McKinley_12, MelBins_12, Panchaali_67, Paries_12, Phauci_5, Phinally_12, Ribeye_12, RiverRaider_12, Shivanishola_11, Stewart25555_65, Tangent_9, Tycho_11, WaddleDee_62, Zooman_66,

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

- A3Wally_81, Abinghost_10, Abt2graduatex2_9, Akoma_10, AksarBAT_7, Allegro_11, AnClar_6, AnarQue_9, Arbitr_11, Ares_11, Arri_12, Asis_9, Athena_11, Atuin_69, Audrey_10, Axumite_7, BabyGotBac_9, Bakery_12, Baloo_10, Bananafish_11, Barb_11, BayC_9, Ben11_9, Bernardo_10, BiggityBass_6, Blackpen_9, Blocker23_11, Bloom_79, BobRoss2024_6, Boyle_11, Briakila_10, Brownie5_11, CaiB_9, Calamitous_11, Casbah_9, ChaChing_10, Chalmers_10, Chandler_10, CharlottesWeb_7, Chentzyk_9, CherryCola_13, Chilliams_72, ClamChowder_11, CloverMinnie_9, Clown_15, Coffee_11, Coldpizza_9, Compostia_10, Corofin_10, CoveyB_11, Daisy_10, Danyall_11, Deenasa_10, Devonte_10, Dodo_81, Eaglehorse_11, Egi03_11, Evaa_8, Evamon_11, Faze9_11, FelixTres_9, Fireball_12, FloraSnap32_74, FrenchFry_11, Fresco_7, FrostedClock_78, Fugax_11, Gadget_11, Gervas_10, Gezellig_11, Glass_11, GlenHope_11, Glubnar_10, Godines_11, GoldenEssence_61, Halfpint_9, Halo3_12, HarveySr_10, Heathcliff_10, Hedgerow_11, Holeinone_11, ItsyBitsy1_11, Jackstina_9, Jambalaya_11, Kaleb_11, Kamiyu_10, Kheth_11, KimmyK_11, Kolhan_11, Kronus_9, Lars_11, Laure_77, Laurie_11, LeoJr_74, Lephleur_11, LestyG_10, Ligma_7, LilSmirk_11, Lilbeanie_12, LittleMunchkin_8, LizLemon_11, Maih_9, MakoManhole_9, Mariokart_7, Marley1013_10, Marlia_10, MasterPo_11, Mimi_75, Mischief19_10, MmasiCarm_10, Mortcellus_9, Morty007_10, MossRose_9, Mulaychimus_10, Mutzi_11, NHagos_7, Neos5_10, Nozo_10, Nubi_11, Obutu_10, Olivio_9, Opia_11, OrangeOswald_10, Patbob_73, PauloDiaboli_81, Phaedrus_9, Phantasmagoria_11, Phayeta_10, Philly_9, Phlop_11, Phlyer_10, Phrampa_67, Pine5_09, PinkCoffee_11, Pipefish_10, Portcullis_11, PrinceCharming_11, PullumCavea_11, Pumpernickel_79, Qyrzula_11, Racecar_76, RagingRooster_10, RainyPolka_9, ReginaGlobina_74, Rhinoforte_11, Rita1961_10, Rockabye_77, RogerDodger_12, RomaT_10, Rosebush_11, SJReid_78, Sabella_11, Salet_9, Salvador_11, Savbucketdawg_11, Shatter_7, Shenandoah_10, Shinji_11, Sisko_6, SlippinJimmy_10, SmokingBunny_11, Sour_10, SwainyDoc_10, SynergyX_10, TA17A_11, TP1604_9, TPA2_16, Talia1610_75, TillyBobJoe_11, Tinciduntolum_12, TinyTerror_10, Togo_11, TraderJ_9, Tres_11, TurkishDelight_10, Twister6_11, Tydolla_10, Valary_12, VanDeWege_12, Vic9_00011, West99_11, Wizard_11, Wooper_9, Xkcd426_10, YDN12_10, Yago84_6, Yahalom_10, Yeshua_9, Yinz_10, YungMoney_11, phiAsp2_3,

Summary by start number:

Start 42:

- Found in 9 of 289 (3.1%) of genes in pham
- Manual Annotations of this start: 5 of 248
- Called 55.6% of time when present
- Phage (with cluster) where this start called: Ali17_10 (DE2), Leonard_12 (DE2), MelBins_12 (DE2), Phauci_5 (DE2), Phinally_12 (DE2),

Start 49:

- Found in 30 of 289 (10.4%) of genes in pham
- Manual Annotations of this start: 1 of 248
- Called 3.3% of time when present
- Phage (with cluster) where this start called: Bakery_12 (DC1),

Start 51:

- Found in 1 of 289 (0.3%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BobRoss2024_6 (DR),

Start 53:

- Found in 11 of 289 (3.8%) of genes in pham
- No Manual Annotations of this start.
- Called 9.1% of time when present
- Phage (with cluster) where this start called: phiAsp2_3 (singleton),

Start 55:

- Found in 11 of 289 (3.8%) of genes in pham
- Manual Annotations of this start: 2 of 248
- Called 18.2% of time when present
- Phage (with cluster) where this start called: Paries_12 (DE1), Tangent_9 (DE1),

Start 56:

- Found in 2 of 289 (0.7%) of genes in pham
- Manual Annotations of this start: 1 of 248
- Called 50.0% of time when present
- Phage (with cluster) where this start called: RiverRaider_12 (DE1),

Start 59:

- Found in 1 of 289 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 248
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BiggityBass_6 (DR),

Start 60:

- Found in 1 of 289 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 248
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Evaa_8 (DR),

Start 61:

- Found in 64 of 289 (22.1%) of genes in pham
- Manual Annotations of this start: 52 of 248
- Called 93.8% of time when present
- Phage (with cluster) where this start called: Abinghost_10 (B3), Akoma_10 (B3), AksarBAT_7 (DR), Athena_11 (B3), Audrey_10 (B3), Baloo_10 (B3), Ben11_9 (B3), Bernardo_10 (B3), Briakila_10 (B3), Casbah_9 (B3), ChaChing_10 (B3), Chalmers_10 (B3), Chandler_10 (B3), Chentzyk_9 (B3), Coldpizza_9 (DR), Compostia_10 (B3), Corofin_10 (B3), Daisy_10 (B3), Deenasa_10 (B3), Devonte_10 (B3), Gadget_11 (B3), Gervas_10 (B3), GlenHope_11 (B3), Glubnar_10 (B3), Halfpint_9 (B3), HarveySr_10 (B3), Heathcliff_10 (B3), Jackstina_9 (B3), Kamiyu_10

(B3), Kronus_9 (B3), LestyG_10 (B3), Marley1013_10 (B3), Marlia_10 (B3), MmasiCarm_10 (B3), Mortcellus_9 (B3), Morty007_10 (B3), Mulaychimus_10 (B3), NHagos_7 (DR), Neos5_10 (B3), Nozo_10 (B3), Obutu_10 (B3), Olivio_9 (B3), OrangeOswald_10 (B3), Phaedrus_9 (B3), Phayeta_10 (B3), Philly_9 (B3), Phlyer_10 (B3), Pipefish_10 (B3), RagingRooster_10 (B3), Rita1961_10 (B3), RomaT_10 (B3), Shenandoah_10 (B3), SlippinJimmy_10 (B3), SwainyDoc_10 (B3), SynergyX_10 (B3), TPA2_16 (singleton), TinyTerror_10 (B3), Tydolla_10 (B3), Yahalom_10 (B3), Yinz_10 (B3),

Start 63:

- Found in 25 of 289 (8.7%) of genes in pham
- Manual Annotations of this start: 8 of 248
- Called 48.0% of time when present
- Phage (with cluster) where this start called: AnarQue_9 (DR), Blackpen_9 (DR), CaiB_9 (DR), CharlottesWeb_7 (DR), CloverMinnie_9 (DR), FelixTres_9 (DR), MakoManhole_9 (DR), MossRose_9 (DR), TraderJ_9 (DR), Wooper_9 (DR), Yago84_6 (DR), Yeshua_9 (DR),

Start 66:

- Found in 98 of 289 (33.9%) of genes in pham
- Manual Annotations of this start: 59 of 248
- Called 66.3% of time when present
- Phage (with cluster) where this start called: APunk_14 (DE4), Abblin_13 (DE4), Angelicage_11 (DE1), Ashertheman_11 (DE1), Baddon_11 (DE1), Barsten_12 (DE1), Baumdotcom_11 (DE1), Belphegor_8 (DE2), Bibwit_11 (DE1), BigHunkinEater_15 (DE4), Bizzy_12 (DE1), BobBob_9 (DE1), ChadMasterC_11 (DE1), Charming_9 (DE1), Chickadee_12 (DE3), Delrey21_13 (DE4), Derg_7 (DE1), Dexdert_13 (DE3), DoctorFroggo_13 (DE4), EMoore_6 (DE2), EdmundFerry_11 (DE3), Flatwoods_12 (DE1), Fosterous_9 (DE1), FuegoCuervo_15 (DE1), GTE6_13 (DE3), Gaea_11 (DE1), Galadriel_13 (DE1), Gustavo_11 (DE1), Hans_14 (DE2), Inspectinfecti_13 (DE2), JKSyngboy_10 (DE1), Jabberwocky_10 (DE1), Kamashten_12 (DE1), Kewpiedoll_12 (DE1), Kroos_11 (DE1), Kwekel_12 (DE3), Kwobi_11 (DE1), LilHam_9 (DE1), Love_13 (DE1), MoontowerMania_10 (DE1), Natkenzie_13 (DE4), Nordenberg_6 (DE1), Pumpkiney_14 (DE4), RoadKill_10 (DE3), Rofo_11 (DE1), Sampson_13 (DE4), Sanjuju_10 (DE1), Saronaya_11 (DE1), SchottB_10 (DE1), Scioto_13 (DE4), Sedona_12 (DE1), Sitar_12 (DE1), StorminNorm_11 (DE1), Stultus_11 (DE1), Tangerine_11 (DE1), Tardus_13 (DE4), Thing3_12 (DE1), Tiamoceli_13 (DE3), Twonlo_10 (DE3), Verity_13 (DE4), ViaConlectus_13 (DE4), Vivi2_10 (DE1), YorkOnyx_11 (DE1), Zipp_13 (DE4), Zitch_14 (DE4),

Start 67:

- Found in 45 of 289 (15.6%) of genes in pham
- Manual Annotations of this start: 37 of 248
- Called 84.4% of time when present
- Phage (with cluster) where this start called: Allegro_11 (B2), Arbiter_11 (B2), Ares_11 (B2), Bananafish_11 (B2), Blocker23_11 (B2), Boyle_11 (B2), Brownie5_11 (B2), Calamitous_11 (B2), Coffee_11 (B2), Eaglehorse_11 (B2), Faze9_11 (B2), FrenchFry_11 (B2), Glass_11 (B2), Godines_11 (B2), Hedgerow_11 (B2), Holeinone_11 (B2), ItsyBitsy1_11 (B2), Kaleb_11 (B2), Kheth_11 (B2), Kolhan_11 (B2), Lars_11 (B2), Laurie_11 (B2), Lephleur_11 (B2), LilSmirk_11 (B2), LizLemon_11 (B2), MasterPo_11 (B2), Opia_11 (B2), Phantasmagoria_11 (B2), PrinceCharming_11 (B2), Qyrzula_11 (B2), Rhinoforte_11 (B2), Rosebush_11 (B2), Sabella_11 (B2), TA17A_11 (B2), Tinciduntolum_12 (B2), Tres_11 (B2), Vic9_00011

(B2), West99_11 (B2),

Start 68:

- Found in 12 of 289 (4.2%) of genes in pham
- Manual Annotations of this start: 9 of 248
- Called 75.0% of time when present
- Phage (with cluster) where this start called: AnClar_6 (DR), Axumite_7 (DR), Fresco_7 (DR), Ligma_7 (DR), LittleMunchkin_8 (DR), Mariokart_7 (DR), Shatter_7 (DR), Sisko_6 (DR), Sour_10 (DR),

Start 69:

- Found in 2 of 289 (0.7%) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Pine5_09 (singleton),

Start 70:

- Found in 1 of 289 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 248
- Called 100.0% of time when present
- Phage (with cluster) where this start called: TurkishDelight_10 (singleton),

Start 71:

- Found in 95 of 289 (32.9%) of genes in pham
- Manual Annotations of this start: 37 of 248
- Called 56.8% of time when present
- Phage (with cluster) where this start called: A3Wally_81 (GD1), Abt2graduatex2_9 (BG), Affeca_11 (DE1), Ailee_11 (DE1), Artu_67 (FC), Asis_9 (BG), Atuin_69 (FC), BabyGotBac_9 (BG), BayC_9 (BG), Bloom_79 (FC), BooTeria_71 (FC), Brandonk123_14 (DE1), Cece_65 (GD3), Chilliamps_72 (FC), Dodo_81 (GD1), DunneganBoMo_64 (FC), Ellewin_66 (FC), Emmetator_67 (FC), Erasmago_74 (GD2), Fitzgerald_10 (DE1), FloraSnap32_74 (FC), FrostedClock_78 (FC), Geodirt_11 (DE1), GoldenEssence_61 (FC), KSunshine22_69 (FC), Keitabear_12 (DE1), Laure_77 (UNK), Lennon_12 (DE1), LeoJr_74 (FC), Maih_9 (BG), McCrothy_12 (DE1), McKinley_12 (DE1), Mimi_75 (FC), Mischief19_10 (BG), Panchaali_67 (FC), Patbob_73 (FC), PauloDiaboli_81 (GD1), Phrampa_67 (FC), Pumpernickel_79 (GD4), Racecar_76 (FC), RainyPolka_9 (BG), ReginaGlobina_74 (FC), Ribeye_12 (DE1), Rockabye_77 (FC), SJReid_78 (FC), Salete_9 (BG), Shivanishola_11 (DE1), Stewart25555_65 (FC), TP1604_9 (BG), Talia1610_75 (FC), Tycho_11 (DE1), WaddleDee_62 (FC), Xkcd426_10 (BG), YDN12_10 (BG),

Start 72:

- Found in 35 of 289 (12.1%) of genes in pham
- Manual Annotations of this start: 32 of 248
- Called 97.1% of time when present
- Phage (with cluster) where this start called: Arri_12 (DC1), Barb_11 (DC1), CherryCola_13 (DC1), ClamChowder_11 (DC1), Clown_15 (DC2), CoveyB_11 (DC1), Danyall_11 (DC1), Egi03_11 (DC1), Evamon_11 (DC1), Fireball_12 (DC1), Fugax_11 (DC1), Gezellig_11 (DC1), Halo3_12 (DC1), Jambalaya_11 (DC1), KimmyK_11 (DC1), Lilbeanie_12 (DE5), Mutzi_11 (DC1), Nubi_11 (DC1), Phlop_11 (DC1), PinkCoffee_11 (DC1), Portcullis_11 (DC1), PullumCavea_11 (DC1), RogerDodger_12 (DC1), Salvador_11 (DC1), Savbucketdawg_11 (DC1), Shinji_11 (DC1), SmokingBunny_11 (DC1), TillyBobJoe_11 (DC1), Togo_11 (DC1), Twister6_11

(DC1), Valary_12 (DC1), VanDeWege_12 (DC1), Wizard_11 (DC1), YungMoney_11 (DC1),

Start 74:

- Found in 41 of 289 (14.2%) of genes in pham
- Manual Annotations of this start: 2 of 248
- Called 4.9% of time when present
- Phage (with cluster) where this start called: Big4_70 (GD2), Zooman_66 (GD2),

Summary by clusters:

There are 18 clusters represented in this pham: GD1, singleton, BG, GD4, DE1, DE2, DE3, DE4, GD2, DE5, DC2, FC, B2, B3, GD3, UNK, DR, DC1,

Info for manual annotations of cluster B2:

- Start number 67 was manually annotated 37 times for cluster B2.

Info for manual annotations of cluster B3:

- Start number 61 was manually annotated 50 times for cluster B3.

Info for manual annotations of cluster BG:

- Start number 71 was manually annotated 11 times for cluster BG.

Info for manual annotations of cluster DC1:

- Start number 49 was manually annotated 1 time for cluster DC1.
- Start number 72 was manually annotated 30 times for cluster DC1.

Info for manual annotations of cluster DC2:

- Start number 72 was manually annotated 1 time for cluster DC2.

Info for manual annotations of cluster DE1:

- Start number 55 was manually annotated 2 times for cluster DE1.
- Start number 56 was manually annotated 1 time for cluster DE1.
- Start number 66 was manually annotated 39 times for cluster DE1.
- Start number 71 was manually annotated 11 times for cluster DE1.

Info for manual annotations of cluster DE2:

- Start number 42 was manually annotated 5 times for cluster DE2.
- Start number 66 was manually annotated 4 times for cluster DE2.

Info for manual annotations of cluster DE3:

- Start number 66 was manually annotated 7 times for cluster DE3.

Info for manual annotations of cluster DE4:

- Start number 66 was manually annotated 9 times for cluster DE4.

Info for manual annotations of cluster DE5:

- Start number 72 was manually annotated 1 time for cluster DE5.

Info for manual annotations of cluster DR:

- Start number 59 was manually annotated 1 time for cluster DR.
- Start number 60 was manually annotated 1 time for cluster DR.
- Start number 61 was manually annotated 2 times for cluster DR.

- Start number 63 was manually annotated 8 times for cluster DR.
- Start number 68 was manually annotated 9 times for cluster DR.

Info for manual annotations of cluster FC:

- Start number 71 was manually annotated 11 times for cluster FC.

Info for manual annotations of cluster GD1:

- Start number 71 was manually annotated 2 times for cluster GD1.

Info for manual annotations of cluster GD2:

- Start number 74 was manually annotated 2 times for cluster GD2.

Info for manual annotations of cluster GD3:

- Start number 71 was manually annotated 1 time for cluster GD3.

Info for manual annotations of cluster GD4:

- Start number 71 was manually annotated 1 time for cluster GD4.

Gene Information:

Gene: A3Wally_81 Start: 29548, Stop: 29832, Start Num: 71

Candidate Starts for A3Wally_81:

(13, 29287), (50, 29491), (Start: 61 @29527 has 52 MA's), (Start: 71 @29548 has 37 MA's), (99, 29659), (117, 29764), (118, 29767),

Gene: APunk_14 Start: 7109, Stop: 7426, Start Num: 66

Candidate Starts for APunk_14:

(Start: 66 @7109 has 59 MA's), (81, 7151), (94, 7220), (107, 7283), (113, 7307), (120, 7349),

Gene: Abblin_13 Start: 6625, Stop: 6942, Start Num: 66

Candidate Starts for Abblin_13:

(Start: 66 @6625 has 59 MA's), (81, 6667), (94, 6736), (107, 6799), (113, 6823), (120, 6865), (122, 6871),

Gene: Abinghost_10 Start: 5949, Stop: 6284, Start Num: 61

Candidate Starts for Abinghost_10:

(Start: 61 @5949 has 52 MA's), (80, 5991), (83, 6003), (86, 6018), (89, 6036), (103, 6093), (115, 6159), (116, 6180), (127, 6216), (130, 6228), (135, 6264),

Gene: Abt2graduatex2_9 Start: 7673, Stop: 8023, Start Num: 71

Candidate Starts for Abt2graduatex2_9:

(Start: 71 @7673 has 37 MA's), (87, 7733), (102, 7820), (109, 7868), (112, 7877), (128, 7952),

Gene: Affeca_11 Start: 6351, Stop: 6650, Start Num: 71

Candidate Starts for Affeca_11:

(Start: 66 @6342 has 59 MA's), (Start: 71 @6351 has 37 MA's), (81, 6381), (94, 6450), (106, 6507), (107, 6513), (111, 6531), (120, 6579),

Gene: Ailee_11 Start: 7213, Stop: 7512, Start Num: 71

Candidate Starts for Ailee_11:

(Start: 66 @7204 has 59 MA's), (Start: 71 @7213 has 37 MA's), (94, 7312), (106, 7369), (107, 7375), (111, 7393), (120, 7441),

Gene: Akoma_10 Start: 5949, Stop: 6284, Start Num: 61

Candidate Starts for Akoma_10:

(Start: 61 @5949 has 52 MA's), (80, 5991), (83, 6003), (86, 6018), (89, 6036), (103, 6093), (115, 6159), (116, 6180), (127, 6216), (130, 6228), (135, 6264),

Gene: AksarBAT_7 Start: 4896, Stop: 5237, Start Num: 61

Candidate Starts for AksarBAT_7:

(Start: 61 @4896 has 52 MA's), (Start: 63 @4902 has 8 MA's), (75, 4926), (80, 4941), (83, 4953), (91, 4998), (98, 5019), (108, 5082), (114, 5103), (115, 5109), (134, 5208), (138, 5226),

Gene: Ali17_10 Start: 6021, Stop: 6407, Start Num: 42

Candidate Starts for Ali17_10:

(12, 5826), (15, 5856), (Start: 42 @6021 has 5 MA's), (Start: 66 @6102 has 59 MA's), (77, 6123), (94, 6207), (107, 6270), (120, 6336), (121, 6339), (128, 6363),

Gene: Allegro_11 Start: 7363, Stop: 7701, Start Num: 67

Candidate Starts for Allegro_11:

(28, 7225), (32, 7234), (43, 7282), (Start: 67 @7363 has 37 MA's), (Start: 74 @7378 has 2 MA's), (84, 7417), (89, 7444), (92, 7462), (94, 7471), (98, 7477), (99, 7480), (101, 7495), (102, 7498), (103, 7501), (122, 7606), (126, 7618), (135, 7672),

Gene: AnClar_6 Start: 5256, Stop: 5579, Start Num: 68

Candidate Starts for AnClar_6:

(Start: 63 @5244 has 8 MA's), (Start: 68 @5256 has 9 MA's), (78, 5274), (80, 5283), (83, 5295), (84, 5301), (106, 5412), (109, 5430), (115, 5451), (134, 5550),

Gene: AnarQue_9 Start: 6416, Stop: 6754, Start Num: 63

Candidate Starts for AnarQue_9:

(29, 6293), (33, 6311), (40, 6338), (45, 6359), (48, 6371), (53, 6392), (Start: 63 @6416 has 8 MA's), (73, 6434), (80, 6455), (83, 6467), (84, 6473), (89, 6500), (108, 6599), (115, 6626), (122, 6665), (134, 6725), (137, 6740),

Gene: Angelicage_11 Start: 6771, Stop: 7079, Start Num: 66

Candidate Starts for Angelicage_11:

(Start: 66 @6771 has 59 MA's), (Start: 71 @6780 has 37 MA's), (94, 6879), (106, 6936), (107, 6942), (111, 6960), (120, 7008),

Gene: Arbiter_11 Start: 7453, Stop: 7791, Start Num: 67

Candidate Starts for Arbiter_11:

(28, 7315), (32, 7324), (43, 7372), (Start: 67 @7453 has 37 MA's), (Start: 74 @7468 has 2 MA's), (84, 7507), (89, 7534), (92, 7552), (94, 7561), (98, 7567), (99, 7570), (101, 7585), (103, 7591), (122, 7696), (126, 7708), (135, 7762),

Gene: Ares_11 Start: 7363, Stop: 7701, Start Num: 67

Candidate Starts for Ares_11:

(28, 7225), (32, 7234), (41, 7276), (43, 7282), (Start: 67 @7363 has 37 MA's), (Start: 74 @7378 has 2 MA's), (84, 7417), (89, 7444), (92, 7462), (94, 7471), (99, 7480), (101, 7495), (103, 7501), (122, 7606), (126, 7618), (135, 7672),

Gene: Arri_12 Start: 5316, Stop: 5630, Start Num: 72

Candidate Starts for Arri_12:

(Start: 49 @5253 has 1 MA's), (Start: 72 @5316 has 32 MA's), (106, 5472), (107, 5478),

Gene: Artu_67 Start: 27608, Stop: 27892, Start Num: 71

Candidate Starts for Artu_67:

(27, 27464), (62, 27590), (Start: 66 @27602 has 59 MA's), (Start: 71 @27608 has 37 MA's), (133, 27887),

Gene: Ashertheman_11 Start: 5950, Stop: 6258, Start Num: 66

Candidate Starts for Ashertheman_11:

(13, 5698), (18, 5725), (Start: 66 @5950 has 59 MA's), (Start: 71 @5959 has 37 MA's), (94, 6058), (106, 6115), (107, 6121), (120, 6187),

Gene: Asis_9 Start: 7730, Stop: 8080, Start Num: 71

Candidate Starts for Asis_9:

(Start: 71 @7730 has 37 MA's), (87, 7790), (102, 7877), (109, 7925), (114, 7940),

Gene: Athena_11 Start: 6712, Stop: 7047, Start Num: 61

Candidate Starts for Athena_11:

(Start: 61 @6712 has 52 MA's), (80, 6754), (83, 6766), (86, 6781), (89, 6799), (103, 6856), (115, 6922), (127, 6979), (130, 6991), (135, 7027),

Gene: Atuin_69 Start: 30721, Stop: 31002, Start Num: 71

Candidate Starts for Atuin_69:

(Start: 71 @30721 has 37 MA's), (91, 30805),

Gene: Audrey_10 Start: 5949, Stop: 6284, Start Num: 61

Candidate Starts for Audrey_10:

(Start: 61 @5949 has 52 MA's), (80, 5991), (83, 6003), (86, 6018), (89, 6036), (103, 6093), (115, 6159), (116, 6180), (127, 6216), (130, 6228), (135, 6264),

Gene: Axumite_7 Start: 4953, Stop: 5276, Start Num: 68

Candidate Starts for Axumite_7:

(32, 4833), (Start: 63 @4941 has 8 MA's), (Start: 68 @4953 has 9 MA's), (73, 4959), (75, 4965), (76, 4968), (78, 4971), (83, 4992), (84, 4998), (89, 5025), (94, 5052), (98, 5058), (115, 5148), (134, 5247),

Gene: BabyGotBac_9 Start: 7730, Stop: 8080, Start Num: 71

Candidate Starts for BabyGotBac_9:

(Start: 71 @7730 has 37 MA's), (87, 7790), (102, 7877), (109, 7925), (114, 7940),

Gene: Baddon_11 Start: 6660, Stop: 6968, Start Num: 66

Candidate Starts for Baddon_11:

(Start: 55 @6630 has 2 MA's), (Start: 66 @6660 has 59 MA's), (Start: 71 @6669 has 37 MA's), (82, 6705), (94, 6768), (106, 6825), (107, 6831), (120, 6897),

Gene: Bakery_12 Start: 4954, Stop: 5331, Start Num: 49

Candidate Starts for Bakery_12:

(14, 4762), (16, 4768), (24, 4834), (Start: 49 @4954 has 1 MA's), (Start: 72 @5017 has 32 MA's), (106, 5173), (107, 5179),

Gene: Baloo_10 Start: 5949, Stop: 6284, Start Num: 61

Candidate Starts for Baloo_10:

(Start: 61 @5949 has 52 MA's), (80, 5991), (83, 6003), (86, 6018), (89, 6036), (103, 6093), (115, 6159), (116, 6180), (127, 6216), (130, 6228), (135, 6264),

Gene: Bananafish_11 Start: 7363, Stop: 7701, Start Num: 67

Candidate Starts for Bananafish_11:

(28, 7225), (32, 7234), (41, 7276), (43, 7282), (Start: 67 @7363 has 37 MA's), (Start: 74 @7378 has 2 MA's), (84, 7417), (89, 7444), (92, 7462), (94, 7471), (99, 7480), (101, 7495), (103, 7501), (122, 7606), (126, 7618), (135, 7672),

Gene: Barb_11 Start: 5272, Stop: 5586, Start Num: 72

Candidate Starts for Barb_11:

(Start: 49 @5209 has 1 MA's), (Start: 72 @5272 has 32 MA's), (106, 5428), (107, 5434),

Gene: Barsten_12 Start: 6156, Stop: 6464, Start Num: 66

Candidate Starts for Barsten_12:

(22, 5964), (Start: 66 @6156 has 59 MA's), (Start: 71 @6165 has 37 MA's), (81, 6195), (94, 6264), (106, 6321), (107, 6327), (111, 6345), (120, 6393),

Gene: Baumdotcom_11 Start: 5973, Stop: 6281, Start Num: 66

Candidate Starts for Baumdotcom_11:

(13, 5721), (18, 5748), (Start: 66 @5973 has 59 MA's), (Start: 71 @5982 has 37 MA's), (94, 6081), (106, 6138), (107, 6144), (120, 6210),

Gene: BayC_9 Start: 7730, Stop: 8080, Start Num: 71

Candidate Starts for BayC_9:

(Start: 71 @7730 has 37 MA's), (87, 7790), (102, 7877), (109, 7925), (114, 7940),

Gene: Belphegor_8 Start: 3927, Stop: 4235, Start Num: 66

Candidate Starts for Belphegor_8:

(Start: 42 @3846 has 5 MA's), (Start: 66 @3927 has 59 MA's), (77, 3951), (82, 3972), (91, 4020), (94, 4035), (107, 4098), (113, 4122), (120, 4164), (121, 4167), (128, 4191),

Gene: Ben11_9 Start: 5797, Stop: 6132, Start Num: 61

Candidate Starts for Ben11_9:

(Start: 61 @5797 has 52 MA's), (80, 5839), (83, 5851), (86, 5866), (89, 5884), (103, 5941), (115, 6007), (116, 6028), (127, 6064), (130, 6076), (135, 6112),

Gene: Bernardo_10 Start: 5977, Stop: 6312, Start Num: 61

Candidate Starts for Bernardo_10:

(Start: 61 @5977 has 52 MA's), (80, 6019), (83, 6031), (86, 6046), (89, 6064), (103, 6121), (115, 6187), (116, 6208), (127, 6244), (130, 6256), (135, 6292),

Gene: Bibwit_11 Start: 7027, Stop: 7335, Start Num: 66

Candidate Starts for Bibwit_11:

(Start: 66 @7027 has 59 MA's), (Start: 71 @7036 has 37 MA's), (81, 7066), (94, 7135), (106, 7192), (107, 7198), (111, 7216), (120, 7264),

Gene: Big4_70 Start: 28857, Stop: 29132, Start Num: 74

Candidate Starts for Big4_70:

(Start: 66 @28842 has 59 MA's), (Start: 74 @28857 has 2 MA's), (80, 28878), (106, 29007), (117, 29064), (118, 29067),

Gene: BigHunkinEater_15 Start: 6556, Stop: 6873, Start Num: 66

Candidate Starts for BigHunkinEater_15:

(Start: 66 @6556 has 59 MA's), (81, 6598), (94, 6667), (107, 6730), (120, 6796),

Gene: BiggityBass_6 Start: 4749, Stop: 5090, Start Num: 59

Candidate Starts for BiggityBass_6:

(Start: 59 @4749 has 1 MA's), (Start: 63 @4755 has 8 MA's), (78, 4785), (80, 4794), (82, 4803), (83, 4806), (84, 4812), (115, 4962), (134, 5061),

Gene: Bizzy_12 Start: 6147, Stop: 6455, Start Num: 66

Candidate Starts for Bizzy_12:

(13, 5895), (18, 5922), (Start: 66 @6147 has 59 MA's), (Start: 71 @6156 has 37 MA's), (94, 6255), (106, 6312), (107, 6318), (120, 6384),

Gene: Blackpen_9 Start: 5908, Stop: 6246, Start Num: 63

Candidate Starts for Blackpen_9:

(29, 5785), (33, 5803), (40, 5830), (45, 5851), (48, 5863), (53, 5884), (Start: 63 @5908 has 8 MA's), (73, 5926), (80, 5947), (83, 5959), (84, 5965), (89, 5992), (108, 6091), (115, 6118), (122, 6157), (134, 6217), (137, 6232),

Gene: Blocker23_11 Start: 7480, Stop: 7818, Start Num: 67

Candidate Starts for Blocker23_11:

(28, 7342), (32, 7351), (43, 7399), (Start: 67 @7480 has 37 MA's), (Start: 74 @7495 has 2 MA's), (84, 7534), (89, 7561), (92, 7579), (94, 7588), (99, 7597), (101, 7612), (103, 7618), (122, 7723), (126, 7735), (135, 7789),

Gene: Bloom_79 Start: 33362, Stop: 33646, Start Num: 71

Candidate Starts for Bloom_79:

(25, 33203), (26, 33209), (30, 33221), (31, 33224), (34, 33236), (35, 33242), (36, 33245), (46, 33287), (Start: 67 @33356 has 37 MA's), (Start: 71 @33362 has 37 MA's), (77, 33380), (84, 33410), (87, 33422), (88, 33425), (102, 33491), (133, 33641),

Gene: BobBob_9 Start: 5693, Stop: 6001, Start Num: 66

Candidate Starts for BobBob_9:

(Start: 66 @5693 has 59 MA's), (Start: 71 @5702 has 37 MA's), (94, 5801), (106, 5858), (107, 5864), (111, 5882), (120, 5930),

Gene: BobRoss2024_6 Start: 4746, Stop: 5114, Start Num: 51

Candidate Starts for BobRoss2024_6:

(51, 4746), (52, 4749), (Start: 61 @4773 has 52 MA's), (80, 4818), (83, 4830), (84, 4836), (94, 4890), (98, 4896), (115, 4986), (122, 5025), (129, 5049), (134, 5085),

Gene: BooTeria_71 Start: 28063, Stop: 28347, Start Num: 71

Candidate Starts for BooTeria_71:

(27, 27919), (62, 28045), (Start: 66 @28057 has 59 MA's), (Start: 71 @28063 has 37 MA's), (133, 28342),

Gene: Boyle_11 Start: 7480, Stop: 7818, Start Num: 67

Candidate Starts for Boyle_11:

(28, 7342), (32, 7351), (41, 7393), (43, 7399), (Start: 67 @7480 has 37 MA's), (Start: 74 @7495 has 2 MA's), (84, 7534), (89, 7561), (92, 7579), (94, 7588), (99, 7597), (101, 7612), (103, 7618), (122, 7723), (126, 7735), (135, 7789),

Gene: Brandonk123_14 Start: 6849, Stop: 7148, Start Num: 71

Candidate Starts for Brandonk123_14:

(22, 6648), (Start: 66 @6840 has 59 MA's), (Start: 71 @6849 has 37 MA's), (81, 6879), (94, 6948), (106, 7005), (107, 7011), (111, 7029), (120, 7077),

Gene: Briakila_10 Start: 6738, Stop: 7073, Start Num: 61

Candidate Starts for Briakila_10:

(Start: 61 @6738 has 52 MA's), (80, 6780), (83, 6792), (86, 6807), (89, 6825), (103, 6882), (115, 6948), (116, 6969), (127, 7005), (130, 7017), (135, 7053),

Gene: Brownie5_11 Start: 7480, Stop: 7818, Start Num: 67

Candidate Starts for Brownie5_11:

(28, 7342), (32, 7351), (41, 7393), (43, 7399), (Start: 67 @7480 has 37 MA's), (Start: 74 @7495 has 2 MA's), (84, 7534), (89, 7561), (92, 7579), (94, 7588), (99, 7597), (101, 7612), (103, 7618), (122, 7723), (126, 7735), (135, 7789),

Gene: CaiB_9 Start: 6416, Stop: 6754, Start Num: 63

Candidate Starts for CaiB_9:

(29, 6293), (33, 6311), (38, 6326), (40, 6338), (45, 6359), (48, 6371), (53, 6392), (Start: 63 @6416 has 8 MA's), (73, 6434), (80, 6455), (83, 6467), (84, 6473), (89, 6500), (108, 6599), (115, 6626), (122, 6665), (134, 6725), (137, 6740),

Gene: Calamitous_11 Start: 7363, Stop: 7701, Start Num: 67

Candidate Starts for Calamitous_11:

(28, 7225), (32, 7234), (41, 7276), (43, 7282), (Start: 67 @7363 has 37 MA's), (Start: 74 @7378 has 2 MA's), (84, 7417), (89, 7444), (92, 7462), (94, 7471), (98, 7477), (99, 7480), (101, 7495), (103, 7501), (122, 7606), (126, 7618), (135, 7672),

Gene: Casbah_9 Start: 5798, Stop: 6133, Start Num: 61

Candidate Starts for Casbah_9:

(Start: 61 @5798 has 52 MA's), (80, 5840), (83, 5852), (86, 5867), (89, 5885), (103, 5942), (115, 6008), (116, 6029), (127, 6065), (130, 6077), (135, 6113),

Gene: Cece_65 Start: 27218, Stop: 27502, Start Num: 71

Candidate Starts for Cece_65:

(Start: 66 @27212 has 59 MA's), (Start: 71 @27218 has 37 MA's), (90, 27296), (117, 27434), (118, 27437), (122, 27449),

Gene: ChaChing_10 Start: 5964, Stop: 6299, Start Num: 61

Candidate Starts for ChaChing_10:

(Start: 61 @5964 has 52 MA's), (80, 6006), (83, 6018), (86, 6033), (89, 6051), (103, 6108), (115, 6174), (116, 6195), (127, 6231), (130, 6243), (135, 6279),

Gene: ChadMasterC_11 Start: 6428, Stop: 6736, Start Num: 66

Candidate Starts for ChadMasterC_11:

(22, 6236), (Start: 66 @6428 has 59 MA's), (Start: 71 @6437 has 37 MA's), (81, 6467), (94, 6536), (106, 6593), (107, 6599), (111, 6617), (120, 6665),

Gene: Chalmers_10 Start: 6739, Stop: 7074, Start Num: 61

Candidate Starts for Chalmers_10:

(Start: 61 @6739 has 52 MA's), (80, 6781), (83, 6793), (86, 6808), (89, 6826), (103, 6883), (115, 6949), (116, 6970), (127, 7006), (130, 7018), (135, 7054),

Gene: Chandler_10 Start: 6712, Stop: 7047, Start Num: 61

Candidate Starts for Chandler_10:

(Start: 61 @6712 has 52 MA's), (80, 6754), (83, 6766), (86, 6781), (89, 6799), (103, 6856), (115, 6922), (116, 6943), (127, 6979), (130, 6991), (135, 7027),

Gene: CharlottesWeb_7 Start: 4948, Stop: 5283, Start Num: 63

Candidate Starts for CharlottesWeb_7:

(Start: 63 @4948 has 8 MA's), (Start: 68 @4960 has 9 MA's), (73, 4966), (75, 4972), (78, 4978), (80, 4987), (82, 4996), (83, 4999), (84, 5005), (93, 5056), (98, 5065), (110, 5137), (134, 5254),

Gene: Charming_9 Start: 5695, Stop: 6003, Start Num: 66

Candidate Starts for Charming_9:

(Start: 55 @5665 has 2 MA's), (Start: 66 @5695 has 59 MA's), (Start: 71 @5704 has 37 MA's), (94, 5803), (106, 5860), (107, 5866), (111, 5884), (120, 5932),

Gene: Chentzyk_9 Start: 5825, Stop: 6160, Start Num: 61

Candidate Starts for Chentzyk_9:

(Start: 61 @5825 has 52 MA's), (80, 5867), (83, 5879), (86, 5894), (89, 5912), (103, 5969), (115, 6035), (116, 6056), (127, 6092), (130, 6104), (135, 6140),

Gene: CherryCola_13 Start: 5508, Stop: 5822, Start Num: 72

Candidate Starts for CherryCola_13:

(7, 5157), (Start: 49 @5445 has 1 MA's), (Start: 72 @5508 has 32 MA's), (106, 5664), (107, 5670),

Gene: Chickadee_12 Start: 5433, Stop: 5771, Start Num: 66

Candidate Starts for Chickadee_12:

(54, 5397), (Start: 66 @5433 has 59 MA's), (77, 5460), (79, 5466), (84, 5490), (100, 5568), (107, 5634), (120, 5700), (128, 5727),

Gene: Chilliams_72 Start: 33749, Stop: 34030, Start Num: 71

Candidate Starts for Chilliams_72:

(Start: 71 @33749 has 37 MA's), (88, 33812), (91, 33836), (110, 33926), (133, 34025),

Gene: ClamChowder_11 Start: 5272, Stop: 5586, Start Num: 72

Candidate Starts for ClamChowder_11:

(Start: 49 @5209 has 1 MA's), (Start: 72 @5272 has 32 MA's), (106, 5428), (107, 5434),

Gene: CloverMinnie_9 Start: 6416, Stop: 6754, Start Num: 63

Candidate Starts for CloverMinnie_9:

(29, 6293), (33, 6311), (40, 6338), (45, 6359), (48, 6371), (53, 6392), (Start: 63 @6416 has 8 MA's), (73, 6434), (80, 6455), (83, 6467), (84, 6473), (89, 6500), (108, 6599), (115, 6626), (122, 6665), (134, 6725), (137, 6740),

Gene: Clown_15 Start: 8549, Stop: 8863, Start Num: 72

Candidate Starts for Clown_15:

(Start: 68 @8540 has 9 MA's), (Start: 72 @8549 has 32 MA's), (84, 8594), (106, 8705),

Gene: Coffee_11 Start: 7480, Stop: 7818, Start Num: 67

Candidate Starts for Coffee_11:

(28, 7342), (32, 7351), (41, 7393), (43, 7399), (Start: 67 @7480 has 37 MA's), (Start: 74 @7495 has 2 MA's), (84, 7534), (89, 7561), (92, 7579), (94, 7588), (99, 7597), (101, 7612), (103, 7618), (122, 7723), (126, 7735), (135, 7789),

Gene: Coldpizza_9 Start: 6855, Stop: 7208, Start Num: 61

Candidate Starts for Coldpizza_9:

(Start: 61 @6855 has 52 MA's), (Start: 63 @6861 has 8 MA's), (76, 6888), (83, 6912), (93, 6969), (102, 6999), (111, 7053), (115, 7068), (134, 7167),

Gene: Compostia_10 Start: 5957, Stop: 6292, Start Num: 61

Candidate Starts for Compostia_10:

(Start: 61 @5957 has 52 MA's), (80, 5999), (83, 6011), (86, 6026), (89, 6044), (103, 6101), (115, 6167), (116, 6188), (127, 6224), (130, 6236), (135, 6272),

Gene: Corofin_10 Start: 5974, Stop: 6309, Start Num: 61

Candidate Starts for Corofin_10:

(Start: 61 @5974 has 52 MA's), (80, 6016), (83, 6028), (86, 6043), (89, 6061), (103, 6118), (115, 6184), (116, 6205), (127, 6241), (130, 6253), (135, 6289),

Gene: CoveyB_11 Start: 5144, Stop: 5458, Start Num: 72

Candidate Starts for CoveyB_11:

(Start: 49 @5081 has 1 MA's), (Start: 72 @5144 has 32 MA's), (106, 5300), (107, 5306),

Gene: Daisy_10 Start: 5952, Stop: 6287, Start Num: 61

Candidate Starts for Daisy_10:

(Start: 61 @5952 has 52 MA's), (80, 5994), (83, 6006), (86, 6021), (89, 6039), (103, 6096), (115, 6162), (116, 6183), (127, 6219), (130, 6231), (135, 6267),

Gene: Danyall_11 Start: 5144, Stop: 5458, Start Num: 72

Candidate Starts for Danyall_11:

(Start: 49 @5081 has 1 MA's), (Start: 72 @5144 has 32 MA's), (106, 5300), (107, 5306),

Gene: Deenasa_10 Start: 6712, Stop: 7047, Start Num: 61

Candidate Starts for Deenasa_10:

(Start: 61 @6712 has 52 MA's), (80, 6754), (83, 6766), (86, 6781), (89, 6799), (103, 6856), (115, 6922), (116, 6943), (127, 6979), (130, 6991), (135, 7027),

Gene: Delrey21_13 Start: 6898, Stop: 7215, Start Num: 66

Candidate Starts for Delrey21_13:

(Start: 66 @6898 has 59 MA's), (78, 6928), (94, 7009), (107, 7072), (111, 7090), (112, 7093), (113, 7096), (120, 7138),

Gene: Derg_7 Start: 5277, Stop: 5585, Start Num: 66

Candidate Starts for Derg_7:

(13, 5025), (18, 5052), (Start: 66 @5277 has 59 MA's), (Start: 71 @5286 has 37 MA's), (94, 5385), (106, 5442), (107, 5448), (120, 5514),

Gene: Devonte_10 Start: 5949, Stop: 6284, Start Num: 61

Candidate Starts for Devonte_10:

(Start: 61 @5949 has 52 MA's), (80, 5991), (83, 6003), (86, 6018), (89, 6036), (103, 6093), (115, 6159), (116, 6180), (127, 6216), (130, 6228), (135, 6264),

Gene: Dxdert_13 Start: 5891, Stop: 6229, Start Num: 66

Candidate Starts for Dxdert_13:

(54, 5855), (Start: 66 @5891 has 59 MA's), (77, 5918), (79, 5924), (84, 5948), (100, 6026), (107, 6092), (120, 6158), (128, 6185),

Gene: DoctorFroggo_13 Start: 6898, Stop: 7215, Start Num: 66

Candidate Starts for DoctorFroggo_13:

(Start: 66 @6898 has 59 MA's), (78, 6928), (94, 7009), (107, 7072), (111, 7090), (112, 7093), (113, 7096), (120, 7138),

Gene: Dodo_81 Start: 29870, Stop: 30154, Start Num: 71

Candidate Starts for Dodo_81:

(13, 29609), (50, 29813), (Start: 61 @29849 has 52 MA's), (Start: 71 @29870 has 37 MA's), (99, 29981), (117, 30086), (118, 30089),

Gene: DunneganBoMo_64 Start: 27488, Stop: 27772, Start Num: 71

Candidate Starts for DunneganBoMo_64:

(27, 27344), (62, 27470), (Start: 66 @27482 has 59 MA's), (Start: 71 @27488 has 37 MA's), (133, 27767),

Gene: EMoore_6 Start: 4085, Stop: 4393, Start Num: 66

Candidate Starts for EMoore_6:

(Start: 42 @4004 has 5 MA's), (Start: 66 @4085 has 59 MA's), (77, 4109), (107, 4256), (113, 4280), (120, 4322), (121, 4325), (128, 4349),

Gene: Eaglehorse_11 Start: 7381, Stop: 7719, Start Num: 67

Candidate Starts for Eaglehorse_11:

(28, 7243), (32, 7252), (41, 7294), (43, 7300), (Start: 67 @7381 has 37 MA's), (Start: 74 @7396 has 2 MA's), (84, 7435), (89, 7462), (92, 7480), (94, 7489), (99, 7498), (101, 7513), (103, 7519), (122, 7624), (126, 7636), (135, 7690),

Gene: EdmundFerry_11 Start: 5448, Stop: 5786, Start Num: 66

Candidate Starts for EdmundFerry_11:

(54, 5412), (Start: 66 @5448 has 59 MA's), (77, 5475), (79, 5481), (84, 5505), (100, 5583), (107, 5649), (120, 5715), (128, 5742),

Gene: Egi03_11 Start: 5251, Stop: 5565, Start Num: 72

Candidate Starts for Egi03_11:

(Start: 49 @5188 has 1 MA's), (Start: 72 @5251 has 32 MA's), (106, 5407), (107, 5413),

Gene: Ellewin_66 Start: 27215, Stop: 27499, Start Num: 71

Candidate Starts for Ellewin_66:

(27, 27071), (62, 27197), (Start: 66 @27209 has 59 MA's), (Start: 71 @27215 has 37 MA's), (133, 27494),

Gene: Emmetator_67 Start: 28235, Stop: 28519, Start Num: 71

Candidate Starts for Emmetator_67:

(27, 28091), (62, 28217), (Start: 66 @28229 has 59 MA's), (Start: 71 @28235 has 37 MA's), (133, 28514),

Gene: Erasmago_74 Start: 28535, Stop: 28819, Start Num: 71

Candidate Starts for Erasmago_74:

(Start: 66 @28529 has 59 MA's), (Start: 71 @28535 has 37 MA's), (Start: 74 @28544 has 2 MA's), (99, 28646), (106, 28694), (109, 28712), (117, 28751), (118, 28754), (131, 28799),

Gene: Evaa_8 Start: 6248, Stop: 6592, Start Num: 60

Candidate Starts for Evaa_8:

(Start: 60 @6248 has 1 MA's), (78, 6284), (80, 6293), (83, 6305), (84, 6311), (89, 6338), (92, 6356), (94, 6365), (102, 6392), (103, 6395), (106, 6422), (108, 6434), (114, 6455), (115, 6461), (129, 6524),

(134, 6560),

Gene: Evamon_11 Start: 5125, Stop: 5439, Start Num: 72

Candidate Starts for Evamon_11:

(Start: 49 @5062 has 1 MA's), (Start: 72 @5125 has 32 MA's), (106, 5281), (107, 5287),

Gene: Faze9_11 Start: 7480, Stop: 7818, Start Num: 67

Candidate Starts for Faze9_11:

(28, 7342), (32, 7351), (41, 7393), (43, 7399), (Start: 67 @7480 has 37 MA's), (Start: 74 @7495 has 2 MA's), (84, 7534), (89, 7561), (92, 7579), (94, 7588), (99, 7597), (101, 7612), (103, 7618), (122, 7723), (126, 7735), (135, 7789),

Gene: FelixTres_9 Start: 6416, Stop: 6754, Start Num: 63

Candidate Starts for FelixTres_9:

(29, 6293), (33, 6311), (40, 6338), (45, 6359), (48, 6371), (53, 6392), (Start: 63 @6416 has 8 MA's), (73, 6434), (80, 6455), (83, 6467), (84, 6473), (89, 6500), (108, 6599), (115, 6626), (122, 6665), (134, 6725), (137, 6740),

Gene: Fireball_12 Start: 5251, Stop: 5565, Start Num: 72

Candidate Starts for Fireball_12:

(Start: 49 @5188 has 1 MA's), (Start: 72 @5251 has 32 MA's), (106, 5407), (107, 5413),

Gene: Fitzgerald_10 Start: 6630, Stop: 6929, Start Num: 71

Candidate Starts for Fitzgerald_10:

(Start: 66 @6621 has 59 MA's), (Start: 71 @6630 has 37 MA's), (94, 6729), (106, 6786), (107, 6792), (111, 6810), (120, 6858),

Gene: Flatwoods_12 Start: 6151, Stop: 6459, Start Num: 66

Candidate Starts for Flatwoods_12:

(9, 5824), (Start: 66 @6151 has 59 MA's), (Start: 71 @6160 has 37 MA's), (94, 6259), (106, 6316), (107, 6322), (120, 6388),

Gene: FloraSnap32_74 Start: 31817, Stop: 32101, Start Num: 71

Candidate Starts for FloraSnap32_74:

(25, 31658), (26, 31664), (30, 31676), (31, 31679), (34, 31691), (35, 31697), (36, 31700), (39, 31715), (46, 31742), (Start: 67 @31811 has 37 MA's), (Start: 71 @31817 has 37 MA's), (84, 31865), (86, 31874), (87, 31877), (88, 31880), (102, 31946), (133, 32096),

Gene: Fosterous_9 Start: 5693, Stop: 6001, Start Num: 66

Candidate Starts for Fosterous_9:

(Start: 55 @5663 has 2 MA's), (Start: 66 @5693 has 59 MA's), (Start: 71 @5702 has 37 MA's), (94, 5801), (106, 5858), (107, 5864), (111, 5882), (120, 5930),

Gene: FrenchFry_11 Start: 7480, Stop: 7818, Start Num: 67

Candidate Starts for FrenchFry_11:

(28, 7342), (32, 7351), (41, 7393), (43, 7399), (Start: 67 @7480 has 37 MA's), (Start: 74 @7495 has 2 MA's), (84, 7534), (89, 7561), (92, 7579), (94, 7588), (99, 7597), (101, 7612), (103, 7618), (122, 7723), (126, 7735), (135, 7789),

Gene: Fresco_7 Start: 4953, Stop: 5276, Start Num: 68

Candidate Starts for Fresco_7:

(32, 4833), (Start: 63 @4941 has 8 MA's), (Start: 68 @4953 has 9 MA's), (73, 4959), (75, 4965), (76, 4968), (78, 4971), (83, 4992), (84, 4998), (89, 5025), (94, 5052), (98, 5058), (115, 5148), (134, 5247),

Gene: FrostedClock_78 Start: 32850, Stop: 33134, Start Num: 71

Candidate Starts for FrostedClock_78:

(25, 32691), (26, 32697), (30, 32709), (31, 32712), (34, 32724), (35, 32730), (36, 32733), (46, 32775), (Start: 67 @32844 has 37 MA's), (Start: 71 @32850 has 37 MA's), (77, 32868), (84, 32898), (87, 32910), (88, 32913), (102, 32979), (133, 33129),

Gene: FuegoCuervo_15 Start: 6443, Stop: 6751, Start Num: 66

Candidate Starts for FuegoCuervo_15:

(22, 6251), (Start: 66 @6443 has 59 MA's), (Start: 71 @6452 has 37 MA's), (94, 6551), (106, 6608), (107, 6614), (111, 6632), (120, 6680),

Gene: Fugax_11 Start: 5272, Stop: 5586, Start Num: 72

Candidate Starts for Fugax_11:

(Start: 49 @5209 has 1 MA's), (Start: 72 @5272 has 32 MA's), (106, 5428), (107, 5434),

Gene: GTE6_13 Start: 5949, Stop: 6287, Start Num: 66

Candidate Starts for GTE6_13:

(54, 5913), (Start: 66 @5949 has 59 MA's), (77, 5976), (79, 5982), (84, 6006), (100, 6084), (107, 6150), (120, 6216), (128, 6243),

Gene: Gadget_11 Start: 5953, Stop: 6288, Start Num: 61

Candidate Starts for Gadget_11:

(Start: 61 @5953 has 52 MA's), (80, 5995), (83, 6007), (86, 6022), (89, 6040), (103, 6097), (115, 6163), (116, 6184), (127, 6220), (130, 6232), (135, 6268),

Gene: Gaea_11 Start: 5953, Stop: 6261, Start Num: 66

Candidate Starts for Gaea_11:

(13, 5701), (18, 5728), (Start: 66 @5953 has 59 MA's), (Start: 71 @5962 has 37 MA's), (94, 6061), (106, 6118), (107, 6124), (120, 6190),

Gene: Galadriel_13 Start: 6461, Stop: 6769, Start Num: 66

Candidate Starts for Galadriel_13:

(Start: 55 @6431 has 2 MA's), (Start: 66 @6461 has 59 MA's), (Start: 71 @6470 has 37 MA's), (94, 6569), (106, 6626), (107, 6632), (111, 6650), (120, 6698),

Gene: Geodirt_11 Start: 6477, Stop: 6776, Start Num: 71

Candidate Starts for Geodirt_11:

(22, 6276), (Start: 66 @6468 has 59 MA's), (Start: 71 @6477 has 37 MA's), (81, 6507), (94, 6576), (106, 6633), (107, 6639), (111, 6657), (120, 6705),

Gene: Gervas_10 Start: 5944, Stop: 6279, Start Num: 61

Candidate Starts for Gervas_10:

(Start: 61 @5944 has 52 MA's), (80, 5986), (83, 5998), (86, 6013), (89, 6031), (103, 6088), (115, 6154), (116, 6175), (127, 6211), (130, 6223), (135, 6259),

Gene: Gezellig_11 Start: 5251, Stop: 5565, Start Num: 72

Candidate Starts for Gezellig_11:

(Start: 49 @5188 has 1 MA's), (Start: 72 @5251 has 32 MA's), (106, 5407), (107, 5413),

Gene: Glass_11 Start: 7480, Stop: 7818, Start Num: 67

Candidate Starts for Glass_11:

(28, 7342), (32, 7351), (41, 7393), (43, 7399), (Start: 67 @7480 has 37 MA's), (Start: 74 @7495 has 2 MA's), (84, 7534), (89, 7561), (92, 7579), (94, 7588), (99, 7597), (101, 7612), (103, 7618), (122, 7723), (126, 7735), (135, 7789),

Gene: GlenHope_11 Start: 5963, Stop: 6298, Start Num: 61

Candidate Starts for GlenHope_11:

(Start: 61 @5963 has 52 MA's), (80, 6005), (83, 6017), (86, 6032), (89, 6050), (103, 6107), (115, 6173), (116, 6194), (127, 6230), (130, 6242), (135, 6278),

Gene: Glubnar_10 Start: 5953, Stop: 6288, Start Num: 61

Candidate Starts for Glubnar_10:

(Start: 61 @5953 has 52 MA's), (80, 5995), (83, 6007), (86, 6022), (89, 6040), (103, 6097), (115, 6163), (127, 6220), (130, 6232), (135, 6268),

Gene: Godines_11 Start: 7363, Stop: 7701, Start Num: 67

Candidate Starts for Godines_11:

(28, 7225), (32, 7234), (43, 7282), (Start: 67 @7363 has 37 MA's), (Start: 74 @7378 has 2 MA's), (84, 7417), (89, 7444), (92, 7462), (94, 7471), (99, 7480), (101, 7495), (103, 7501), (122, 7606), (126, 7618), (135, 7672),

Gene: GoldenEssence_61 Start: 27155, Stop: 27439, Start Num: 71

Candidate Starts for GoldenEssence_61:

(25, 26996), (26, 27002), (30, 27014), (31, 27017), (34, 27029), (35, 27035), (36, 27038), (Start: 71 @27155 has 37 MA's), (84, 27203), (88, 27218), (102, 27284), (133, 27434),

Gene: Gustavo_11 Start: 5950, Stop: 6258, Start Num: 66

Candidate Starts for Gustavo_11:

(13, 5698), (18, 5725), (Start: 66 @5950 has 59 MA's), (Start: 71 @5959 has 37 MA's), (94, 6058), (106, 6115), (107, 6121), (120, 6187),

Gene: Halfpint_9 Start: 5798, Stop: 6133, Start Num: 61

Candidate Starts for Halfpint_9:

(Start: 61 @5798 has 52 MA's), (80, 5840), (83, 5852), (86, 5867), (89, 5885), (103, 5942), (115, 6008), (116, 6029), (127, 6065), (130, 6077), (135, 6113),

Gene: Halo3_12 Start: 5583, Stop: 5888, Start Num: 72

Candidate Starts for Halo3_12:

(7, 5232), (Start: 49 @5520 has 1 MA's), (Start: 72 @5583 has 32 MA's), (106, 5739), (107, 5745),

Gene: Hans_14 Start: 6642, Stop: 6947, Start Num: 66

Candidate Starts for Hans_14:

(Start: 42 @6561 has 5 MA's), (Start: 66 @6642 has 59 MA's), (77, 6663), (94, 6747), (107, 6810), (113, 6834), (120, 6876), (121, 6879), (128, 6903),

Gene: HarveySr_10 Start: 5950, Stop: 6285, Start Num: 61

Candidate Starts for HarveySr_10:

(Start: 61 @5950 has 52 MA's), (80, 5992), (83, 6004), (86, 6019), (89, 6037), (103, 6094), (115, 6160), (116, 6181), (127, 6217), (130, 6229), (135, 6265),

Gene: Heathcliff_10 Start: 5944, Stop: 6279, Start Num: 61

Candidate Starts for Heathcliff_10:

(Start: 61 @5944 has 52 MA's), (80, 5986), (83, 5998), (86, 6013), (89, 6031), (103, 6088), (115, 6154), (116, 6175), (127, 6211), (130, 6223), (135, 6259),

Gene: Hedgerow_11 Start: 7462, Stop: 7800, Start Num: 67

Candidate Starts for Hedgerow_11:

(28, 7324), (32, 7333), (41, 7375), (43, 7381), (Start: 67 @7462 has 37 MA's), (Start: 74 @7477 has 2 MA's), (84, 7516), (89, 7543), (92, 7561), (94, 7570), (99, 7579), (101, 7594), (103, 7600), (122, 7705), (126, 7717), (135, 7771),

Gene: Holeinone_11 Start: 7362, Stop: 7700, Start Num: 67

Candidate Starts for Holeinone_11:

(Start: 67 @7362 has 37 MA's), (Start: 74 @7377 has 2 MA's), (84, 7416), (89, 7443), (92, 7461), (94, 7470), (98, 7476), (99, 7479), (101, 7494), (102, 7497), (103, 7500), (122, 7605), (126, 7617), (135, 7671),

Gene: Inspectinfecti_13 Start: 7159, Stop: 7464, Start Num: 66

Candidate Starts for Inspectinfecti_13:

(12, 6883), (15, 6913), (Start: 42 @7078 has 5 MA's), (Start: 66 @7159 has 59 MA's), (77, 7180), (94, 7264), (107, 7327), (120, 7393), (121, 7396), (128, 7420),

Gene: ItsyBitsy1_11 Start: 7354, Stop: 7692, Start Num: 67

Candidate Starts for ItsyBitsy1_11:

(28, 7216), (32, 7225), (41, 7267), (43, 7273), (Start: 67 @7354 has 37 MA's), (Start: 74 @7369 has 2 MA's), (84, 7408), (89, 7435), (92, 7453), (94, 7462), (99, 7471), (101, 7486), (103, 7492), (122, 7597), (126, 7609), (135, 7663),

Gene: JKSyngboy_10 Start: 6461, Stop: 6769, Start Num: 66

Candidate Starts for JKSyngboy_10:

(13, 6209), (18, 6236), (Start: 66 @6461 has 59 MA's), (Start: 71 @6470 has 37 MA's), (94, 6569), (106, 6626), (107, 6632), (120, 6698),

Gene: Jabberwocky_10 Start: 6623, Stop: 6931, Start Num: 66

Candidate Starts for Jabberwocky_10:

(Start: 66 @6623 has 59 MA's), (Start: 71 @6632 has 37 MA's), (94, 6731), (106, 6788), (107, 6794), (111, 6812), (120, 6860),

Gene: Jackstina_9 Start: 5866, Stop: 6201, Start Num: 61

Candidate Starts for Jackstina_9:

(Start: 61 @5866 has 52 MA's), (80, 5908), (83, 5920), (86, 5935), (89, 5953), (103, 6010), (115, 6076), (116, 6097), (127, 6133), (130, 6145), (135, 6181),

Gene: Jambalaya_11 Start: 4956, Stop: 5270, Start Num: 72

Candidate Starts for Jambalaya_11:

(Start: 72 @4956 has 32 MA's), (106, 5112), (107, 5118),

Gene: KSunshine22_69 Start: 28755, Stop: 29039, Start Num: 71

Candidate Starts for KSunshine22_69:

(27, 28611), (62, 28737), (Start: 66 @28749 has 59 MA's), (Start: 71 @28755 has 37 MA's), (133, 29034),

Gene: Kaleb_11 Start: 7480, Stop: 7818, Start Num: 67

Candidate Starts for Kaleb_11:

(28, 7342), (32, 7351), (41, 7393), (43, 7399), (Start: 67 @7480 has 37 MA's), (Start: 74 @7495 has 2 MA's), (84, 7534), (89, 7561), (92, 7579), (94, 7588), (99, 7597), (101, 7612), (103, 7618), (122, 7723), (126, 7735), (135, 7789),

Gene: Kamashten_12 Start: 6782, Stop: 7090, Start Num: 66

Candidate Starts for Kamashten_12:

(Start: 55 @6752 has 2 MA's), (Start: 66 @6782 has 59 MA's), (Start: 71 @6791 has 37 MA's), (94, 6890), (106, 6947), (107, 6953), (111, 6971), (120, 7019),

Gene: Kamiyu_10 Start: 5944, Stop: 6279, Start Num: 61

Candidate Starts for Kamiyu_10:

(Start: 61 @5944 has 52 MA's), (80, 5986), (83, 5998), (86, 6013), (89, 6031), (103, 6088), (115, 6154), (116, 6175), (127, 6211), (130, 6223), (135, 6259),

Gene: Keitabear_12 Start: 7843, Stop: 8142, Start Num: 71

Candidate Starts for Keitabear_12:

(Start: 66 @7834 has 59 MA's), (Start: 71 @7843 has 37 MA's), (94, 7942), (106, 7999), (107, 8005), (111, 8023), (120, 8071),

Gene: Kewpiedoll_12 Start: 6184, Stop: 6492, Start Num: 66

Candidate Starts for Kewpiedoll_12:

(Start: 66 @6184 has 59 MA's), (Start: 71 @6193 has 37 MA's), (81, 6223), (94, 6292), (106, 6349), (107, 6355), (111, 6373), (120, 6421),

Gene: Kheth_11 Start: 7363, Stop: 7701, Start Num: 67

Candidate Starts for Kheth_11:

(28, 7225), (32, 7234), (41, 7276), (43, 7282), (Start: 67 @7363 has 37 MA's), (Start: 74 @7378 has 2 MA's), (84, 7417), (89, 7444), (92, 7462), (94, 7471), (99, 7480), (101, 7495), (103, 7501), (122, 7606), (126, 7618), (135, 7672),

Gene: KimmyK_11 Start: 5272, Stop: 5586, Start Num: 72

Candidate Starts for KimmyK_11:

(Start: 49 @5209 has 1 MA's), (Start: 72 @5272 has 32 MA's), (106, 5428), (107, 5434),

Gene: Kolhan_11 Start: 7363, Stop: 7701, Start Num: 67

Candidate Starts for Kolhan_11:

(28, 7225), (32, 7234), (41, 7276), (43, 7282), (Start: 67 @7363 has 37 MA's), (Start: 74 @7378 has 2 MA's), (84, 7417), (89, 7444), (92, 7462), (94, 7471), (99, 7480), (101, 7495), (103, 7501), (122, 7606), (126, 7618), (135, 7672),

Gene: Kronus_9 Start: 6559, Stop: 6894, Start Num: 61

Candidate Starts for Kronus_9:

(Start: 61 @6559 has 52 MA's), (80, 6601), (83, 6613), (86, 6628), (89, 6646), (103, 6703), (115, 6769), (116, 6790), (127, 6826), (130, 6838), (135, 6874),

Gene: Kroos_11 Start: 6114, Stop: 6422, Start Num: 66

Candidate Starts for Kroos_11:

(13, 5862), (18, 5889), (Start: 66 @6114 has 59 MA's), (Start: 71 @6123 has 37 MA's), (94, 6222), (106, 6279), (107, 6285), (120, 6351),

Gene: Kwekel_12 Start: 5442, Stop: 5780, Start Num: 66

Candidate Starts for Kwekel_12:

(Start: 49 @5388 has 1 MA's), (Start: 66 @5442 has 59 MA's), (78, 5472), (79, 5475), (94, 5553), (100, 5577), (120, 5709), (128, 5736),

Gene: Kwobi_11 Start: 5953, Stop: 6261, Start Num: 66

Candidate Starts for Kwobi_11:

(13, 5701), (18, 5728), (Start: 66 @5953 has 59 MA's), (Start: 71 @5962 has 37 MA's), (94, 6061), (106, 6118), (107, 6124), (120, 6190),

Gene: Lars_11 Start: 7480, Stop: 7818, Start Num: 67

Candidate Starts for Lars_11:

(28, 7342), (32, 7351), (43, 7399), (Start: 67 @7480 has 37 MA's), (Start: 74 @7495 has 2 MA's), (84, 7534), (89, 7561), (92, 7579), (94, 7588), (99, 7597), (101, 7612), (103, 7618), (122, 7723), (126, 7735), (135, 7789),

Gene: Laure_77 Start: 33462, Stop: 33746, Start Num: 71

Candidate Starts for Laure_77:

(Start: 49 @33405 has 1 MA's), (Start: 71 @33462 has 37 MA's), (81, 33495), (84, 33510), (88, 33525), (109, 33639),

Gene: Laurie_11 Start: 7364, Stop: 7702, Start Num: 67

Candidate Starts for Laurie_11:

(28, 7226), (32, 7235), (41, 7277), (43, 7283), (Start: 67 @7364 has 37 MA's), (Start: 74 @7379 has 2 MA's), (84, 7418), (89, 7445), (92, 7463), (94, 7472), (98, 7478), (99, 7481), (101, 7496), (103, 7502), (122, 7607), (126, 7619), (135, 7673),

Gene: Lennon_12 Start: 7052, Stop: 7351, Start Num: 71

Candidate Starts for Lennon_12:

(22, 6851), (Start: 66 @7043 has 59 MA's), (Start: 71 @7052 has 37 MA's), (94, 7151), (106, 7208), (107, 7214), (111, 7232), (120, 7280),

Gene: LeoJr_74 Start: 30861, Stop: 31142, Start Num: 71

Candidate Starts for LeoJr_74:

(Start: 71 @30861 has 37 MA's), (91, 30945), (114, 31050),

Gene: Leonard_12 Start: 6673, Stop: 7059, Start Num: 42

Candidate Starts for Leonard_12:

(12, 6478), (15, 6508), (Start: 42 @6673 has 5 MA's), (Start: 66 @6754 has 59 MA's), (77, 6775), (94, 6859), (107, 6922), (120, 6988), (121, 6991), (128, 7015),

Gene: Lephleur_11 Start: 7363, Stop: 7701, Start Num: 67

Candidate Starts for Lephleur_11:

(28, 7225), (32, 7234), (41, 7276), (43, 7282), (Start: 67 @7363 has 37 MA's), (Start: 74 @7378 has 2 MA's), (84, 7417), (89, 7444), (92, 7462), (94, 7471), (99, 7480), (101, 7495), (103, 7501), (122, 7606), (126, 7618), (135, 7672),

Gene: LestyG_10 Start: 5953, Stop: 6288, Start Num: 61

Candidate Starts for LestyG_10:

(Start: 61 @5953 has 52 MA's), (80, 5995), (83, 6007), (86, 6022), (89, 6040), (103, 6097), (115, 6163), (127, 6220), (130, 6232), (135, 6268),

Gene: Ligma_7 Start: 4953, Stop: 5276, Start Num: 68

Candidate Starts for Ligma_7:

(32, 4833), (Start: 63 @4941 has 8 MA's), (Start: 68 @4953 has 9 MA's), (73, 4959), (75, 4965), (76, 4968), (78, 4971), (83, 4992), (84, 4998), (89, 5025), (94, 5052), (98, 5058), (115, 5148), (134, 5247),

Gene: LilHam_9 Start: 5269, Stop: 5577, Start Num: 66

Candidate Starts for LilHam_9:

(13, 5017), (18, 5044), (Start: 66 @5269 has 59 MA's), (Start: 71 @5278 has 37 MA's), (94, 5377), (106, 5434), (107, 5440), (120, 5506),

Gene: LilSmirk_11 Start: 7363, Stop: 7701, Start Num: 67

Candidate Starts for LilSmirk_11:

(28, 7225), (32, 7234), (41, 7276), (43, 7282), (Start: 67 @7363 has 37 MA's), (Start: 74 @7378 has 2 MA's), (84, 7417), (89, 7444), (92, 7462), (94, 7471), (99, 7480), (101, 7495), (103, 7501), (122, 7606), (126, 7618), (135, 7672),

Gene: Lilbeanie_12 Start: 4954, Stop: 5247, Start Num: 72

Candidate Starts for Lilbeanie_12:

(Start: 72 @4954 has 32 MA's), (87, 5011), (94, 5053), (105, 5092),

Gene: LittleMunchkin_8 Start: 6237, Stop: 6560, Start Num: 68

Candidate Starts for LittleMunchkin_8:

(1, 4998), (2, 5172), (3, 5382), (4, 5499), (5, 5685), (6, 5730), (8, 5898), (10, 5946), (Start: 63 @6225 has 8 MA's), (Start: 68 @6237 has 9 MA's), (78, 6255), (83, 6276), (84, 6282), (89, 6309), (101, 6360), (106, 6393), (115, 6432), (122, 6471), (129, 6495), (134, 6531),

Gene: LizLemon_11 Start: 7480, Stop: 7818, Start Num: 67

Candidate Starts for LizLemon_11:

(28, 7342), (32, 7351), (43, 7399), (Start: 67 @7480 has 37 MA's), (Start: 74 @7495 has 2 MA's), (84, 7534), (89, 7561), (92, 7579), (94, 7588), (99, 7597), (101, 7612), (103, 7618), (122, 7723), (126, 7735), (135, 7789),

Gene: Love_13 Start: 6772, Stop: 7080, Start Num: 66

Candidate Starts for Love_13:

(Start: 66 @6772 has 59 MA's), (Start: 71 @6781 has 37 MA's), (81, 6811), (94, 6880), (106, 6937), (107, 6943), (111, 6961), (116, 6997),

Gene: Maih_9 Start: 7729, Stop: 8079, Start Num: 71

Candidate Starts for Maih_9:

(Start: 71 @7729 has 37 MA's), (87, 7789), (102, 7876), (109, 7924), (114, 7939),

Gene: MakoManhole_9 Start: 6416, Stop: 6754, Start Num: 63

Candidate Starts for MakoManhole_9:

(29, 6293), (33, 6311), (40, 6338), (45, 6359), (48, 6371), (53, 6392), (Start: 63 @6416 has 8 MA's), (73, 6434), (80, 6455), (83, 6467), (84, 6473), (89, 6500), (108, 6599), (115, 6626), (122, 6665), (134, 6725), (137, 6740),

Gene: Mariokart_7 Start: 4960, Stop: 5283, Start Num: 68

Candidate Starts for Mariokart_7:

(Start: 63 @4948 has 8 MA's), (Start: 68 @4960 has 9 MA's), (73, 4966), (75, 4972), (78, 4978), (80, 4987), (82, 4996), (83, 4999), (84, 5005), (93, 5056), (98, 5065), (110, 5137), (134, 5254),

Gene: Marley1013_10 Start: 6739, Stop: 7074, Start Num: 61

Candidate Starts for Marley1013_10:

(Start: 61 @6739 has 52 MA's), (80, 6781), (83, 6793), (86, 6808), (89, 6826), (103, 6883), (115, 6949), (116, 6970), (127, 7006), (130, 7018), (135, 7054),

Gene: Marlia_10 Start: 5944, Stop: 6279, Start Num: 61

Candidate Starts for Marlia_10:

(Start: 61 @5944 has 52 MA's), (80, 5986), (83, 5998), (86, 6013), (89, 6031), (103, 6088), (115, 6154), (116, 6175), (127, 6211), (130, 6223), (135, 6259),

Gene: MasterPo_11 Start: 7363, Stop: 7701, Start Num: 67

Candidate Starts for MasterPo_11:

(28, 7225), (32, 7234), (41, 7276), (43, 7282), (Start: 67 @7363 has 37 MA's), (Start: 74 @7378 has 2 MA's), (84, 7417), (89, 7444), (92, 7462), (94, 7471), (99, 7480), (101, 7495), (103, 7501), (122, 7606), (126, 7618), (135, 7672),

Gene: McCrothy_12 Start: 6647, Stop: 6946, Start Num: 71

Candidate Starts for McCrothy_12:

(Start: 55 @6608 has 2 MA's), (Start: 66 @6638 has 59 MA's), (Start: 71 @6647 has 37 MA's), (94, 6746), (106, 6803), (107, 6809), (111, 6827), (120, 6875),

Gene: McKinley_12 Start: 7140, Stop: 7439, Start Num: 71

Candidate Starts for McKinley_12:

(Start: 66 @7131 has 59 MA's), (Start: 71 @7140 has 37 MA's), (81, 7170), (94, 7239), (106, 7296), (107, 7302), (111, 7320), (120, 7368),

Gene: MelBins_12 Start: 6449, Stop: 6835, Start Num: 42

Candidate Starts for MelBins_12:

(Start: 42 @6449 has 5 MA's), (Start: 66 @6530 has 59 MA's), (77, 6551), (94, 6635), (107, 6698), (113, 6722), (120, 6764), (121, 6767), (128, 6791),

Gene: Mimi_75 Start: 32709, Stop: 32993, Start Num: 71

Candidate Starts for Mimi_75:

(25, 32550), (26, 32556), (30, 32568), (31, 32571), (34, 32583), (35, 32589), (36, 32592), (46, 32634), (Start: 67 @32703 has 37 MA's), (Start: 71 @32709 has 37 MA's), (77, 32727), (84, 32757), (87, 32769), (88, 32772), (102, 32838), (133, 32988),

Gene: Mischief19_10 Start: 9272, Stop: 9619, Start Num: 71

Candidate Starts for Mischief19_10:

(Start: 71 @9272 has 37 MA's), (85, 9323), (91, 9359), (96, 9386), (104, 9440), (109, 9479), (121, 9536), (136, 9608),

Gene: MmasiCarm_10 Start: 5949, Stop: 6284, Start Num: 61

Candidate Starts for MmasiCarm_10:

(Start: 61 @5949 has 52 MA's), (80, 5991), (83, 6003), (86, 6018), (89, 6036), (103, 6093), (115, 6159), (116, 6180), (127, 6216), (130, 6228), (135, 6264),

Gene: MoontowerMania_10 Start: 6171, Stop: 6479, Start Num: 66

Candidate Starts for MoontowerMania_10:

(Start: 66 @6171 has 59 MA's), (Start: 71 @6180 has 37 MA's), (81, 6210), (94, 6279), (106, 6336), (107, 6342), (111, 6360), (116, 6396),

Gene: Mortcellus_9 Start: 6587, Stop: 6922, Start Num: 61

Candidate Starts for Mortcellus_9:

(Start: 61 @6587 has 52 MA's), (80, 6629), (83, 6641), (86, 6656), (89, 6674), (103, 6731), (115, 6797), (116, 6818), (127, 6854), (130, 6866), (135, 6902),

Gene: Morty007_10 Start: 6739, Stop: 7074, Start Num: 61

Candidate Starts for Morty007_10:

(Start: 61 @6739 has 52 MA's), (80, 6781), (83, 6793), (86, 6808), (89, 6826), (103, 6883), (115, 6949), (116, 6970), (127, 7006), (130, 7018), (135, 7054),

Gene: MossRose_9 Start: 6416, Stop: 6754, Start Num: 63

Candidate Starts for MossRose_9:

(29, 6293), (33, 6311), (40, 6338), (45, 6359), (48, 6371), (53, 6392), (Start: 63 @6416 has 8 MA's), (73, 6434), (80, 6455), (83, 6467), (84, 6473), (89, 6500), (108, 6599), (115, 6626), (122, 6665), (132, 6707), (134, 6725), (137, 6740),

Gene: Mulaychimus_10 Start: 5950, Stop: 6285, Start Num: 61

Candidate Starts for Mulaychimus_10:

(Start: 61 @5950 has 52 MA's), (80, 5992), (83, 6004), (86, 6019), (89, 6037), (103, 6094), (115, 6160), (116, 6181), (127, 6217), (130, 6229), (135, 6265),

Gene: Mutzi_11 Start: 5144, Stop: 5458, Start Num: 72

Candidate Starts for Mutzi_11:

(Start: 49 @5081 has 1 MA's), (Start: 72 @5144 has 32 MA's), (106, 5300), (107, 5306),

Gene: NHagos_7 Start: 4896, Stop: 5237, Start Num: 61

Candidate Starts for NHagos_7:

(Start: 61 @4896 has 52 MA's), (Start: 63 @4902 has 8 MA's), (75, 4926), (80, 4941), (81, 4944), (83, 4953), (91, 4998), (98, 5019), (108, 5082), (115, 5109), (134, 5208), (138, 5226),

Gene: Natkenzie_13 Start: 6625, Stop: 6942, Start Num: 66

Candidate Starts for Natkenzie_13:

(Start: 66 @6625 has 59 MA's), (81, 6667), (94, 6736), (107, 6799), (113, 6823), (120, 6865), (122, 6871),

Gene: Neos5_10 Start: 6739, Stop: 7074, Start Num: 61

Candidate Starts for Neos5_10:

(Start: 61 @6739 has 52 MA's), (80, 6781), (83, 6793), (86, 6808), (89, 6826), (103, 6883), (115, 6949), (116, 6970), (127, 7006), (130, 7018), (135, 7054),

Gene: Nordenberg_6 Start: 4315, Stop: 4623, Start Num: 66

Candidate Starts for Nordenberg_6:

(Start: 55 @4285 has 2 MA's), (Start: 66 @4315 has 59 MA's), (Start: 71 @4324 has 37 MA's), (94, 4423), (106, 4480), (107, 4486), (111, 4504), (120, 4552),

Gene: Nozo_10 Start: 6711, Stop: 7046, Start Num: 61

Candidate Starts for Nozo_10:

(Start: 61 @6711 has 52 MA's), (80, 6753), (83, 6765), (86, 6780), (89, 6798), (103, 6855), (115, 6921), (116, 6942), (127, 6978), (130, 6990), (135, 7026),

Gene: Nubi_11 Start: 5144, Stop: 5449, Start Num: 72

Candidate Starts for Nubi_11:

(Start: 49 @5081 has 1 MA's), (Start: 72 @5144 has 32 MA's), (106, 5300), (107, 5306),

Gene: Obutu_10 Start: 5950, Stop: 6285, Start Num: 61

Candidate Starts for Obutu_10:

(Start: 61 @5950 has 52 MA's), (80, 5992), (83, 6004), (86, 6019), (89, 6037), (103, 6094), (115, 6160), (116, 6181), (127, 6217), (130, 6229), (135, 6265),

Gene: Olivio_9 Start: 5798, Stop: 6133, Start Num: 61

Candidate Starts for Olivio_9:

(Start: 61 @5798 has 52 MA's), (80, 5840), (83, 5852), (86, 5867), (89, 5885), (103, 5942), (115, 6008), (116, 6029), (127, 6065), (130, 6077), (135, 6113),

Gene: Opia_11 Start: 7363, Stop: 7701, Start Num: 67

Candidate Starts for Opia_11:

(28, 7225), (32, 7234), (41, 7276), (43, 7282), (Start: 67 @7363 has 37 MA's), (Start: 74 @7378 has 2 MA's), (84, 7417), (89, 7444), (92, 7462), (94, 7471), (99, 7480), (101, 7495), (103, 7501), (122, 7606), (126, 7618), (135, 7672),

Gene: OrangeOswald_10 Start: 5949, Stop: 6284, Start Num: 61

Candidate Starts for OrangeOswald_10:

(Start: 61 @5949 has 52 MA's), (80, 5991), (83, 6003), (86, 6018), (89, 6036), (103, 6093), (115, 6159), (116, 6180), (127, 6216), (130, 6228), (135, 6264),

Gene: Panchaali_67 Start: 28341, Stop: 28625, Start Num: 71

Candidate Starts for Panchaali_67:

(Start: 66 @28335 has 59 MA's), (Start: 71 @28341 has 37 MA's), (133, 28620),

Gene: Paries_12 Start: 6433, Stop: 6771, Start Num: 55

Candidate Starts for Paries_12:

(Start: 55 @6433 has 2 MA's), (Start: 66 @6463 has 59 MA's), (Start: 71 @6472 has 37 MA's), (94, 6571), (106, 6628), (107, 6634), (111, 6652), (120, 6700),

Gene: Patbob_73 Start: 33002, Stop: 33286, Start Num: 71

Candidate Starts for Patbob_73:

(25, 32843), (26, 32849), (30, 32861), (31, 32864), (34, 32876), (35, 32882), (36, 32885), (39, 32900), (46, 32927), (Start: 67 @32996 has 37 MA's), (Start: 71 @33002 has 37 MA's), (84, 33050), (86, 33059), (87, 33062), (88, 33065), (102, 33131), (133, 33281),

Gene: PauloDiaboli_81 Start: 28905, Stop: 29189, Start Num: 71

Candidate Starts for PauloDiaboli_81:

(13, 28644), (50, 28848), (Start: 61 @28884 has 52 MA's), (Start: 71 @28905 has 37 MA's), (99, 29016), (117, 29121), (118, 29124),

Gene: Phaedrus_9 Start: 5866, Stop: 6201, Start Num: 61

Candidate Starts for Phaedrus_9:

(Start: 61 @5866 has 52 MA's), (80, 5908), (83, 5920), (86, 5935), (89, 5953), (103, 6010), (115, 6076), (116, 6097), (127, 6133), (130, 6145), (135, 6181),

Gene: Phantasmagoria_11 Start: 7363, Stop: 7701, Start Num: 67

Candidate Starts for Phantasmagoria_11:

(28, 7225), (32, 7234), (41, 7276), (43, 7282), (Start: 67 @7363 has 37 MA's), (Start: 74 @7378 has 2 MA's), (84, 7417), (89, 7444), (92, 7462), (94, 7471), (99, 7480), (101, 7495), (103, 7501), (122, 7606), (126, 7618), (135, 7672),

Gene: Phauci_5 Start: 3202, Stop: 3588, Start Num: 42

Candidate Starts for Phauci_5:

(Start: 42 @3202 has 5 MA's), (Start: 66 @3283 has 59 MA's), (77, 3304), (94, 3388), (107, 3451), (113, 3475), (120, 3517), (121, 3520), (128, 3544),

Gene: Phayeta_10 Start: 5825, Stop: 6160, Start Num: 61

Candidate Starts for Phayeta_10:

(Start: 61 @5825 has 52 MA's), (80, 5867), (83, 5879), (86, 5894), (89, 5912), (103, 5969), (115, 6035), (116, 6056), (127, 6092), (130, 6104), (135, 6140),

Gene: Philly_9 Start: 5839, Stop: 6174, Start Num: 61

Candidate Starts for Philly_9:

(Start: 61 @5839 has 52 MA's), (80, 5881), (83, 5893), (86, 5908), (89, 5926), (103, 5983), (115, 6049), (116, 6070), (127, 6106), (130, 6118), (135, 6154),

Gene: Phinally_12 Start: 6670, Stop: 7056, Start Num: 42

Candidate Starts for Phinally_12:

(12, 6475), (15, 6505), (Start: 42 @6670 has 5 MA's), (Start: 66 @6751 has 59 MA's), (77, 6772), (94, 6856), (107, 6919), (120, 6985), (121, 6988), (128, 7012),

Gene: Phlop_11 Start: 5251, Stop: 5565, Start Num: 72

Candidate Starts for Phlop_11:

(Start: 49 @5188 has 1 MA's), (Start: 72 @5251 has 32 MA's), (106, 5407), (107, 5413),

Gene: Phlyer_10 Start: 6706, Stop: 7041, Start Num: 61

Candidate Starts for Phlyer_10:

(Start: 61 @6706 has 52 MA's), (80, 6748), (83, 6760), (86, 6775), (89, 6793), (103, 6850), (115, 6916), (116, 6937), (127, 6973), (130, 6985), (135, 7021),

Gene: Phrampa_67 Start: 30028, Stop: 30312, Start Num: 71

Candidate Starts for Phrampa_67:

(Start: 71 @30028 has 37 MA's), (84, 30076), (88, 30091), (102, 30157),

Gene: Pine5_09 Start: 5622, Stop: 5945, Start Num: 69

Candidate Starts for Pine5_09:

(24, 5445), (69, 5622), (106, 5793), (118, 5859), (122, 5871), (125, 5880), (128, 5892),

Gene: PinkCoffee_11 Start: 5281, Stop: 5595, Start Num: 72

Candidate Starts for PinkCoffee_11:

(Start: 49 @5218 has 1 MA's), (Start: 72 @5281 has 32 MA's), (106, 5437), (107, 5443),

Gene: Pipefish_10 Start: 6844, Stop: 7179, Start Num: 61

Candidate Starts for Pipefish_10:

(Start: 61 @6844 has 52 MA's), (80, 6886), (83, 6898), (86, 6913), (89, 6931), (103, 6988), (115, 7054), (116, 7075), (127, 7111), (130, 7123), (135, 7159),

Gene: Portcullis_11 Start: 5204, Stop: 5518, Start Num: 72

Candidate Starts for Portcullis_11:

(Start: 72 @5204 has 32 MA's), (106, 5360), (107, 5366),

Gene: PrinceCharming_11 Start: 7480, Stop: 7818, Start Num: 67

Candidate Starts for PrinceCharming_11:

(28, 7342), (32, 7351), (43, 7399), (Start: 67 @7480 has 37 MA's), (Start: 74 @7495 has 2 MA's), (84, 7534), (89, 7561), (92, 7579), (94, 7588), (99, 7597), (101, 7612), (103, 7618), (122, 7723), (126, 7735), (135, 7789),

Gene: PullumCavea_11 Start: 5251, Stop: 5565, Start Num: 72

Candidate Starts for PullumCavea_11:

(Start: 49 @5188 has 1 MA's), (Start: 72 @5251 has 32 MA's), (106, 5407), (107, 5413),

Gene: Pumpernickel_79 Start: 31092, Stop: 31376, Start Num: 71

Candidate Starts for Pumpernickel_79:

(39, 30990), (Start: 56 @31059 has 1 MA's), (Start: 71 @31092 has 37 MA's), (93, 31191), (102, 31221), (106, 31251), (114, 31284), (117, 31308), (118, 31311), (126, 31335),

Gene: Pumpkiney_14 Start: 5859, Stop: 6176, Start Num: 66

Candidate Starts for Pumpkiney_14:

(Start: 66 @5859 has 59 MA's), (94, 5970), (107, 6033), (113, 6057), (120, 6099),

Gene: Qyrzula_11 Start: 7453, Stop: 7791, Start Num: 67

Candidate Starts for Qyrzula_11:

(28, 7315), (32, 7324), (43, 7372), (Start: 67 @7453 has 37 MA's), (Start: 74 @7468 has 2 MA's), (84, 7507), (89, 7534), (92, 7552), (94, 7561), (99, 7570), (101, 7585), (103, 7591), (122, 7696), (126, 7708), (135, 7762),

Gene: Racecar_76 Start: 33362, Stop: 33646, Start Num: 71

Candidate Starts for Racecar_76:

(25, 33203), (26, 33209), (30, 33221), (31, 33224), (34, 33236), (35, 33242), (36, 33245), (46, 33287), (Start: 67 @33356 has 37 MA's), (Start: 71 @33362 has 37 MA's), (77, 33380), (84, 33410), (87, 33422), (88, 33425), (102, 33491), (133, 33641),

Gene: RagingRooster_10 Start: 5950, Stop: 6285, Start Num: 61

Candidate Starts for RagingRooster_10:

(Start: 61 @5950 has 52 MA's), (80, 5992), (83, 6004), (86, 6019), (89, 6037), (103, 6094), (115, 6160), (116, 6181), (127, 6217), (130, 6229), (135, 6265),

Gene: RainyPolka_9 Start: 7682, Stop: 8032, Start Num: 71

Candidate Starts for RainyPolka_9:

(Start: 71 @7682 has 37 MA's), (87, 7742), (95, 7787), (109, 7877), (114, 7892),

Gene: ReginaGlobina_74 Start: 31418, Stop: 31699, Start Num: 71

Candidate Starts for ReginaGlobina_74:

(Start: 71 @31418 has 37 MA's), (91, 31502), (114, 31607), (124, 31652),

Gene: Rhinoforte_11 Start: 7480, Stop: 7818, Start Num: 67

Candidate Starts for Rhinoforte_11:

(28, 7342), (32, 7351), (43, 7399), (Start: 67 @7480 has 37 MA's), (Start: 74 @7495 has 2 MA's), (84, 7534), (89, 7561), (92, 7579), (94, 7588), (98, 7594), (99, 7597), (101, 7612), (102, 7615), (103, 7618), (122, 7723), (126, 7735), (135, 7789),

Gene: Ribeye_12 Start: 6157, Stop: 6456, Start Num: 71

Candidate Starts for Ribeye_12:

(13, 5896), (18, 5923), (Start: 66 @6148 has 59 MA's), (Start: 71 @6157 has 37 MA's), (94, 6256), (106, 6313), (107, 6319), (120, 6385),

Gene: Rita1961_10 Start: 5950, Stop: 6285, Start Num: 61

Candidate Starts for Rita1961_10:

(Start: 61 @5950 has 52 MA's), (80, 5992), (83, 6004), (86, 6019), (89, 6037), (103, 6094), (115, 6160), (116, 6181), (127, 6217), (130, 6229), (135, 6265),

Gene: RiverRaider_12 Start: 5677, Stop: 6012, Start Num: 56

Candidate Starts for RiverRaider_12:

(47, 5644), (Start: 56 @5677 has 1 MA's), (58, 5683), (Start: 66 @5704 has 59 MA's), (78, 5731), (94, 5812), (106, 5869), (107, 5875), (108, 5881), (120, 5941), (121, 5944),

Gene: RoadKill_10 Start: 4904, Stop: 5242, Start Num: 66

Candidate Starts for RoadKill_10:

(54, 4868), (Start: 66 @4904 has 59 MA's), (77, 4931), (79, 4937), (84, 4961), (100, 5039), (107, 5105), (120, 5171), (128, 5198),

Gene: Rockabye_77 Start: 34104, Stop: 34385, Start Num: 71

Candidate Starts for Rockabye_77:

(Start: 71 @34104 has 37 MA's), (84, 34152), (87, 34164), (88, 34167), (91, 34191), (120, 34326), (133, 34380),

Gene: Rofo_11 Start: 6703, Stop: 7011, Start Num: 66

Candidate Starts for Rofo_11:

(Start: 66 @6703 has 59 MA's), (Start: 71 @6712 has 37 MA's), (94, 6811), (106, 6868), (107, 6874), (111, 6892),

Gene: RogerDodger_12 Start: 5508, Stop: 5822, Start Num: 72

Candidate Starts for RogerDodger_12:

(7, 5157), (Start: 49 @5445 has 1 MA's), (Start: 72 @5508 has 32 MA's), (106, 5664), (107, 5670),

Gene: RomaT_10 Start: 6712, Stop: 7047, Start Num: 61

Candidate Starts for RomaT_10:

(Start: 61 @6712 has 52 MA's), (80, 6754), (83, 6766), (86, 6781), (89, 6799), (103, 6856), (115, 6922), (116, 6943), (127, 6979), (130, 6991), (135, 7027),

Gene: Rosebush_11 Start: 7480, Stop: 7818, Start Num: 67

Candidate Starts for Rosebush_11:

(28, 7342), (32, 7351), (41, 7393), (43, 7399), (Start: 67 @7480 has 37 MA's), (Start: 74 @7495 has 2 MA's), (84, 7534), (89, 7561), (92, 7579), (94, 7588), (99, 7597), (101, 7612), (103, 7618), (122, 7723), (126, 7735), (135, 7789),

Gene: SJReid_78 Start: 34582, Stop: 34863, Start Num: 71

Candidate Starts for SJReid_78:

(Start: 71 @34582 has 37 MA's), (105, 34720), (108, 34750), (109, 34756),

Gene: Sabella_11 Start: 7363, Stop: 7701, Start Num: 67

Candidate Starts for Sabella_11:

(28, 7225), (32, 7234), (41, 7276), (43, 7282), (Start: 67 @7363 has 37 MA's), (Start: 74 @7378 has 2 MA's), (84, 7417), (89, 7444), (92, 7462), (94, 7471), (99, 7480), (101, 7495), (103, 7501), (122, 7606), (126, 7618), (135, 7672),

Gene: Salete_9 Start: 7730, Stop: 8080, Start Num: 71

Candidate Starts for Salete_9:

(Start: 71 @7730 has 37 MA's), (87, 7790), (102, 7877), (109, 7925), (114, 7940),

Gene: Salvador_11 Start: 5123, Stop: 5437, Start Num: 72

Candidate Starts for Salvador_11:

(Start: 49 @5060 has 1 MA's), (Start: 72 @5123 has 32 MA's), (106, 5279), (107, 5285),

Gene: Sampson_13 Start: 6570, Stop: 6887, Start Num: 66

Candidate Starts for Sampson_13:

(Start: 66 @6570 has 59 MA's), (81, 6612), (94, 6681), (107, 6744), (113, 6768), (120, 6810), (122, 6816),

Gene: Sanjuju_10 Start: 6661, Stop: 6969, Start Num: 66

Candidate Starts for Sanjuju_10:

(Start: 66 @6661 has 59 MA's), (Start: 71 @6670 has 37 MA's), (94, 6769), (106, 6826), (107, 6832), (111, 6850), (120, 6898),

Gene: Saronaya_11 Start: 5950, Stop: 6258, Start Num: 66

Candidate Starts for Saronaya_11:

(13, 5698), (18, 5725), (Start: 66 @5950 has 59 MA's), (Start: 71 @5959 has 37 MA's), (94, 6058), (106, 6115), (107, 6121), (120, 6187),

Gene: Savbucketdawg_11 Start: 4956, Stop: 5270, Start Num: 72

Candidate Starts for Savbucketdawg_11:

(Start: 72 @4956 has 32 MA's), (106, 5112), (107, 5118),

Gene: SchottB_10 Start: 6126, Stop: 6434, Start Num: 66

Candidate Starts for SchottB_10:

(11, 5841), (17, 5895), (19, 5907), (23, 5946), (37, 6024), (Start: 55 @6096 has 2 MA's), (Start: 66 @6126 has 59 MA's), (Start: 71 @6135 has 37 MA's), (106, 6291), (107, 6297), (120, 6363),

Gene: Scioto_13 Start: 6625, Stop: 6942, Start Num: 66

Candidate Starts for Scioto_13:

(Start: 66 @6625 has 59 MA's), (81, 6667), (94, 6736), (107, 6799), (113, 6823), (120, 6865), (122, 6871),

Gene: Sedona_12 Start: 7669, Stop: 7977, Start Num: 66

Candidate Starts for Sedona_12:

(Start: 66 @7669 has 59 MA's), (Start: 71 @7678 has 37 MA's), (81, 7708), (94, 7777), (106, 7834), (107, 7840), (111, 7858), (120, 7906),

Gene: Shatter_7 Start: 4953, Stop: 5276, Start Num: 68

Candidate Starts for Shatter_7:

(32, 4833), (Start: 63 @4941 has 8 MA's), (Start: 68 @4953 has 9 MA's), (73, 4959), (75, 4965), (76, 4968), (78, 4971), (83, 4992), (84, 4998), (89, 5025), (94, 5052), (98, 5058), (115, 5148), (134, 5247),

Gene: Shenandoah_10 Start: 5949, Stop: 6284, Start Num: 61

Candidate Starts for Shenandoah_10:

(Start: 61 @5949 has 52 MA's), (80, 5991), (83, 6003), (86, 6018), (89, 6036), (103, 6093), (115, 6159), (116, 6180), (127, 6216), (130, 6228), (135, 6264),

Gene: Shinji_11 Start: 5145, Stop: 5459, Start Num: 72

Candidate Starts for Shinji_11:

(Start: 72 @5145 has 32 MA's), (106, 5301), (107, 5307),

Gene: Shivanishola_11 Start: 6886, Stop: 7185, Start Num: 71

Candidate Starts for Shivanishola_11:

(Start: 66 @6877 has 59 MA's), (Start: 71 @6886 has 37 MA's), (81, 6916), (94, 6985), (106, 7042), (107, 7048), (111, 7066), (120, 7114),

Gene: Sisko_6 Start: 4758, Stop: 5081, Start Num: 68

Candidate Starts for Sisko_6:

(Start: 63 @4746 has 8 MA's), (Start: 68 @4758 has 9 MA's), (78, 4776), (80, 4785), (83, 4797), (84, 4803), (106, 4914), (109, 4932), (115, 4953), (134, 5052),

Gene: Sitar_12 Start: 7043, Stop: 7351, Start Num: 66

Candidate Starts for Sitar_12:

(22, 6851), (Start: 66 @7043 has 59 MA's), (Start: 71 @7052 has 37 MA's), (94, 7151), (106, 7208), (107, 7214), (111, 7232), (120, 7280),

Gene: SlippinJimmy_10 Start: 6711, Stop: 7046, Start Num: 61

Candidate Starts for SlippinJimmy_10:

(Start: 61 @6711 has 52 MA's), (80, 6753), (83, 6765), (86, 6780), (89, 6798), (103, 6855), (115, 6921), (116, 6942), (127, 6978), (130, 6990), (135, 7026),

Gene: SmokingBunny_11 Start: 5123, Stop: 5437, Start Num: 72

Candidate Starts for SmokingBunny_11:

(Start: 49 @5060 has 1 MA's), (Start: 72 @5123 has 32 MA's), (106, 5279), (107, 5285),

Gene: Sour_10 Start: 6612, Stop: 6938, Start Num: 68

Candidate Starts for Sour_10:

(Start: 63 @6600 has 8 MA's), (Start: 68 @6612 has 9 MA's), (75, 6624), (78, 6630), (82, 6648), (83, 6651), (84, 6657), (85, 6660), (89, 6684), (94, 6711), (98, 6717), (108, 6780), (119, 6837), (134, 6906),

Gene: Stewart25555_65 Start: 27748, Stop: 28032, Start Num: 71

Candidate Starts for Stewart25555_65:

(Start: 66 @27742 has 59 MA's), (Start: 71 @27748 has 37 MA's), (133, 28027),

Gene: StorminNorm_11 Start: 5953, Stop: 6261, Start Num: 66

Candidate Starts for StorminNorm_11:

(13, 5701), (18, 5728), (Start: 66 @5953 has 59 MA's), (Start: 71 @5962 has 37 MA's), (94, 6061), (106, 6118), (107, 6124), (120, 6190),

Gene: Stultus_11 Start: 6867, Stop: 7175, Start Num: 66

Candidate Starts for Stultus_11:

(Start: 66 @6867 has 59 MA's), (Start: 71 @6876 has 37 MA's), (81, 6906), (94, 6975), (106, 7032), (107, 7038), (111, 7056), (120, 7104),

Gene: SwainyDoc_10 Start: 5947, Stop: 6282, Start Num: 61

Candidate Starts for SwainyDoc_10:

(Start: 61 @5947 has 52 MA's), (80, 5989), (83, 6001), (86, 6016), (89, 6034), (103, 6091), (115, 6157), (127, 6214), (130, 6226), (135, 6262),

Gene: SynergyX_10 Start: 5950, Stop: 6285, Start Num: 61

Candidate Starts for SynergyX_10:

(Start: 61 @5950 has 52 MA's), (80, 5992), (83, 6004), (86, 6019), (89, 6037), (103, 6094), (115, 6160), (116, 6181), (127, 6217), (130, 6229), (135, 6265),

Gene: TA17A_11 Start: 7363, Stop: 7701, Start Num: 67

Candidate Starts for TA17A_11:

(28, 7225), (32, 7234), (43, 7282), (Start: 67 @7363 has 37 MA's), (Start: 74 @7378 has 2 MA's), (84, 7417), (89, 7444), (92, 7462), (94, 7471), (98, 7477), (99, 7480), (101, 7495), (103, 7501), (122, 7606), (126, 7618), (135, 7672),

Gene: TP1604_9 Start: 7730, Stop: 8080, Start Num: 71

Candidate Starts for TP1604_9:

(Start: 71 @7730 has 37 MA's), (87, 7790), (102, 7877), (109, 7925), (114, 7940),

Gene: TPA2_16 Start: 7599, Stop: 7940, Start Num: 61

Candidate Starts for TPA2_16:

(44, 7536), (Start: 61 @7599 has 52 MA's), (80, 7644), (82, 7653), (83, 7656), (85, 7665), (89, 7689), (94, 7716), (107, 7782), (115, 7815), (129, 7878), (134, 7914), (137, 7929), (139, 7935),

Gene: Talia1610_75 Start: 32727, Stop: 33011, Start Num: 71

Candidate Starts for Talia1610_75:

(25, 32568), (26, 32574), (30, 32586), (31, 32589), (34, 32601), (35, 32607), (36, 32610), (46, 32652), (Start: 67 @32721 has 37 MA's), (Start: 71 @32727 has 37 MA's), (77, 32745), (84, 32775), (87, 32787), (88, 32790), (102, 32856), (133, 33006),

Gene: Tangent_9 Start: 5665, Stop: 6003, Start Num: 55

Candidate Starts for Tangent_9:

(Start: 55 @5665 has 2 MA's), (Start: 66 @5695 has 59 MA's), (Start: 71 @5704 has 37 MA's), (94, 5803), (106, 5860), (107, 5866), (111, 5884), (120, 5932),

Gene: Tangerine_11 Start: 5962, Stop: 6270, Start Num: 66

Candidate Starts for Tangerine_11:

(13, 5710), (18, 5737), (Start: 66 @5962 has 59 MA's), (Start: 71 @5971 has 37 MA's), (94, 6070), (106, 6127), (107, 6133), (120, 6199),

Gene: Tardus_13 Start: 5665, Stop: 5982, Start Num: 66

Candidate Starts for Tardus_13:

(Start: 66 @5665 has 59 MA's), (81, 5707), (94, 5776), (107, 5839), (113, 5863), (120, 5905),

Gene: Thing3_12 Start: 6782, Stop: 7090, Start Num: 66

Candidate Starts for Thing3_12:

(Start: 55 @6752 has 2 MA's), (Start: 66 @6782 has 59 MA's), (Start: 71 @6791 has 37 MA's), (94, 6890), (106, 6947), (107, 6953), (111, 6971), (120, 7019),

Gene: Tiamoceli_13 Start: 6287, Stop: 6625, Start Num: 66

Candidate Starts for Tiamoceli_13:

(54, 6251), (Start: 66 @6287 has 59 MA's), (77, 6314), (79, 6320), (84, 6344), (100, 6422), (107, 6488), (120, 6554), (128, 6581),

Gene: TillyBobJoe_11 Start: 4959, Stop: 5273, Start Num: 72

Candidate Starts for TillyBobJoe_11:

(Start: 72 @4959 has 32 MA's), (106, 5115), (107, 5121),

Gene: Tinciduntolum_12 Start: 7479, Stop: 7817, Start Num: 67

Candidate Starts for Tinciduntolum_12:

(28, 7341), (32, 7350), (41, 7392), (43, 7398), (Start: 67 @7479 has 37 MA's), (Start: 74 @7494 has 2 MA's), (84, 7533), (89, 7560), (92, 7578), (94, 7587), (99, 7596), (101, 7611), (103, 7617), (122, 7722), (126, 7734), (135, 7788),

Gene: TinyTerror_10 Start: 5952, Stop: 6287, Start Num: 61

Candidate Starts for TinyTerror_10:

(Start: 61 @5952 has 52 MA's), (80, 5994), (83, 6006), (86, 6021), (89, 6039), (103, 6096), (115, 6162), (116, 6183), (127, 6219), (130, 6231), (135, 6267),

Gene: Togo_11 Start: 5123, Stop: 5437, Start Num: 72

Candidate Starts for Togo_11:

(Start: 49 @5060 has 1 MA's), (Start: 72 @5123 has 32 MA's), (106, 5279), (107, 5285),

Gene: TraderJ_9 Start: 6413, Stop: 6751, Start Num: 63

Candidate Starts for TraderJ_9:

(29, 6290), (33, 6308), (40, 6335), (45, 6356), (48, 6368), (53, 6389), (Start: 63 @6413 has 8 MA's), (73, 6431), (80, 6452), (83, 6464), (84, 6470), (89, 6497), (108, 6596), (115, 6623), (122, 6662), (134, 6722), (137, 6737),

Gene: Tres_11 Start: 7363, Stop: 7701, Start Num: 67

Candidate Starts for Tres_11:

(28, 7225), (32, 7234), (43, 7282), (Start: 67 @7363 has 37 MA's), (Start: 74 @7378 has 2 MA's), (84, 7417), (89, 7444), (92, 7462), (94, 7471), (99, 7480), (101, 7495), (103, 7501), (122, 7606), (126, 7618), (135, 7672),

Gene: TurkishDelight_10 Start: 6065, Stop: 6391, Start Num: 70

Candidate Starts for TurkishDelight_10:

(64, 6050), (Start: 70 @6065 has 1 MA's), (118, 6305), (123, 6317),

Gene: Twister6_11 Start: 5055, Stop: 5369, Start Num: 72

Candidate Starts for Twister6_11:

(Start: 49 @4992 has 1 MA's), (Start: 72 @5055 has 32 MA's), (106, 5211), (107, 5217),

Gene: Twonlo_10 Start: 4904, Stop: 5242, Start Num: 66

Candidate Starts for Twonlo_10:

(54, 4868), (Start: 66 @4904 has 59 MA's), (77, 4931), (79, 4937), (84, 4961), (100, 5039), (107, 5105), (120, 5171), (128, 5198),

Gene: Tycho_11 Start: 5971, Stop: 6270, Start Num: 71

Candidate Starts for Tycho_11:

(13, 5710), (18, 5737), (Start: 66 @5962 has 59 MA's), (Start: 71 @5971 has 37 MA's), (94, 6070), (106, 6127), (107, 6133), (120, 6199),

Gene: Tydolla_10 Start: 6711, Stop: 7046, Start Num: 61

Candidate Starts for Tydolla_10:

(Start: 61 @6711 has 52 MA's), (80, 6753), (83, 6765), (86, 6780), (89, 6798), (103, 6855), (115, 6921), (116, 6942), (127, 6978), (130, 6990), (135, 7026),

Gene: Valary_12 Start: 5508, Stop: 5822, Start Num: 72

Candidate Starts for Valary_12:

(7, 5157), (Start: 49 @5445 has 1 MA's), (Start: 72 @5508 has 32 MA's), (106, 5664), (107, 5670),

Gene: VanDeWege_12 Start: 5436, Stop: 5750, Start Num: 72

Candidate Starts for VanDeWege_12:

(Start: 49 @5373 has 1 MA's), (Start: 72 @5436 has 32 MA's), (106, 5592), (107, 5598),

Gene: Verity_13 Start: 6898, Stop: 7215, Start Num: 66

Candidate Starts for Verity_13:

(Start: 66 @6898 has 59 MA's), (78, 6928), (94, 7009), (107, 7072), (111, 7090), (112, 7093), (113, 7096), (120, 7138),

Gene: ViaConlectus_13 Start: 6625, Stop: 6942, Start Num: 66

Candidate Starts for ViaConlectus_13:

(Start: 66 @6625 has 59 MA's), (81, 6667), (94, 6736), (107, 6799), (113, 6823), (120, 6865), (122, 6871),

Gene: Vic9_00011 Start: 7806, Stop: 8144, Start Num: 67

Candidate Starts for Vic9_00011:

(28, 7668), (32, 7677), (41, 7719), (43, 7725), (Start: 67 @7806 has 37 MA's), (Start: 74 @7821 has 2 MA's), (84, 7860), (89, 7887), (92, 7905), (94, 7914), (98, 7920), (99, 7923), (101, 7938), (102, 7941), (103, 7944), (122, 8049), (126, 8061), (135, 8115),

Gene: Vivi2_10 Start: 5856, Stop: 6164, Start Num: 66

Candidate Starts for Vivi2_10:

(22, 5664), (Start: 66 @5856 has 59 MA's), (Start: 71 @5865 has 37 MA's), (94, 5964), (106, 6021), (107, 6027), (111, 6045), (120, 6093),

Gene: WaddleDee_62 Start: 27340, Stop: 27624, Start Num: 71

Candidate Starts for WaddleDee_62:

(27, 27196), (62, 27322), (Start: 66 @27334 has 59 MA's), (Start: 71 @27340 has 37 MA's), (133, 27619),

Gene: West99_11 Start: 7480, Stop: 7818, Start Num: 67

Candidate Starts for West99_11:

(28, 7342), (32, 7351), (41, 7393), (43, 7399), (Start: 67 @7480 has 37 MA's), (Start: 74 @7495 has 2 MA's), (84, 7534), (89, 7561), (92, 7579), (94, 7588), (99, 7597), (101, 7612), (103, 7618), (122, 7723), (126, 7735), (135, 7789),

Gene: Wizard_11 Start: 5251, Stop: 5565, Start Num: 72

Candidate Starts for Wizard_11:

(Start: 49 @5188 has 1 MA's), (Start: 72 @5251 has 32 MA's), (106, 5407), (107, 5413),

Gene: Wooper_9 Start: 6416, Stop: 6754, Start Num: 63

Candidate Starts for Wooper_9:

(29, 6293), (33, 6311), (40, 6338), (45, 6359), (48, 6371), (53, 6392), (Start: 63 @6416 has 8 MA's), (73, 6434), (80, 6455), (83, 6467), (84, 6473), (89, 6500), (108, 6599), (115, 6626), (122, 6665), (134, 6725), (137, 6740),

Gene: Xkcd426_10 Start: 8759, Stop: 9115, Start Num: 71

Candidate Starts for Xkcd426_10:

(20, 8549), (21, 8552), (57, 8729), (Start: 71 @8759 has 37 MA's), (87, 8819), (88, 8822), (96, 8873), (105, 8918), (109, 8954),

Gene: YDN12_10 Start: 7676, Stop: 8026, Start Num: 71

Candidate Starts for YDN12_10:

(Start: 71 @7676 has 37 MA's), (87, 7736), (95, 7781), (97, 7793), (102, 7823), (109, 7871), (114, 7886), (128, 7955),

Gene: Yago84_6 Start: 4755, Stop: 5090, Start Num: 63

Candidate Starts for Yago84_6:

(Start: 63 @4755 has 8 MA's), (Start: 68 @4767 has 9 MA's), (78, 4785), (80, 4794), (83, 4806), (84, 4812), (106, 4923), (109, 4941), (115, 4962), (134, 5061),

Gene: Yahalom_10 Start: 5950, Stop: 6285, Start Num: 61

Candidate Starts for Yahalom_10:

(Start: 61 @5950 has 52 MA's), (80, 5992), (83, 6004), (86, 6019), (89, 6037), (103, 6094), (115, 6160), (116, 6181), (127, 6217), (130, 6229), (135, 6265),

Gene: Yeshua_9 Start: 6420, Stop: 6758, Start Num: 63

Candidate Starts for Yeshua_9:

(29, 6297), (33, 6315), (40, 6342), (45, 6363), (48, 6375), (53, 6396), (Start: 63 @6420 has 8 MA's), (80, 6459), (83, 6471), (84, 6477), (89, 6504), (106, 6591), (108, 6603), (109, 6609), (115, 6630), (122, 6669), (132, 6711), (134, 6729), (137, 6744),

Gene: Yinz_10 Start: 5976, Stop: 6311, Start Num: 61

Candidate Starts for Yinz_10:

(Start: 61 @5976 has 52 MA's), (80, 6018), (83, 6030), (86, 6045), (89, 6063), (103, 6120), (115, 6186), (116, 6207), (127, 6243), (130, 6255), (135, 6291),

Gene: YorkOnyx_11 Start: 5911, Stop: 6219, Start Num: 66

Candidate Starts for YorkOnyx_11:

(13, 5659), (Start: 66 @5911 has 59 MA's), (Start: 71 @5920 has 37 MA's), (94, 6019), (106, 6076), (107, 6082), (120, 6148),

Gene: YungMoney_11 Start: 6205, Stop: 6510, Start Num: 72

Candidate Starts for YungMoney_11:

(7, 5854), (Start: 49 @6142 has 1 MA's), (Start: 72 @6205 has 32 MA's), (106, 6361), (107, 6367),

Gene: Zipp_13 Start: 7043, Stop: 7360, Start Num: 66

Candidate Starts for Zipp_13:

(Start: 66 @7043 has 59 MA's), (78, 7073), (94, 7154), (107, 7217), (111, 7235), (112, 7238), (113, 7241), (120, 7283),

Gene: Zitch_14 Start: 6362, Stop: 6679, Start Num: 66

Candidate Starts for Zitch_14:

(Start: 66 @6362 has 59 MA's), (81, 6404), (94, 6473), (107, 6536), (113, 6560), (120, 6602),

Gene: Zooman_66 Start: 27525, Stop: 27800, Start Num: 74

Candidate Starts for Zooman_66:

(Start: 66 @27510 has 59 MA's), (Start: 74 @27525 has 2 MA's), (80, 27546), (106, 27675), (117, 27732), (118, 27735),

Gene: phiAsp2_3 Start: 663, Stop: 1013, Start Num: 53

Candidate Starts for phiAsp2_3:

(53, 663), (65, 693), (69, 702), (79, 732), (82, 747), (84, 756), (88, 771), (94, 810), (107, 888), (117, 945), (130, 990),