

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 290795 Report

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

Pham number 290795 has 261 members, 34 are drafts.

Phages represented in each track:

- Track 1 : Farewell_5
- Track 2 : LordVader_7
- Track 3 : Alexphander_6, Leozinho_6, SimranZ1_6, LittleShirley_6, Frankie_6, Beakin_6, BigPhil_6, Bobi_6, Kingsley_6, Lorde_6, RockyHorror_6, OwlsT2W_6, DirtMcgirt_6, Seagreen_6, Boomer_6, Enby_6, BuzzLyseyear_6, Doomslug_6, Juice456_6, JalFarm20_6, Brookers_6, MulchExplorer_6, Stap_6, Plumbus_6, Cerasum_6, Beanstalk_6, Sarma624_6, Lucia_6, Brushbloom_6, Oksu_6, Flathead_6, DosHalletts_6, Kimberlium_6, UncleRicky_6, Tchotchke_6, Drago_6, Squirty_6, Velveteen_6, Tootsieroll_6
- Track 4 : Coco12_6, Slim_6, TootsiePop_6, Emmaloid_6, Aloeri_6, Rialto_6, Starceвич_6, ChickenDinner_6, Piper2020_6, DocMcStuffins_6, Mova_6, DaWorst_6, Awesomesauce_6, Peridot_6, Pollywog_6, Misha28_6, Spikelee_6, Totinger_6
- Track 5 : Job42_6, Marker_6, Madiba_6
- Track 6 : Ramsey_6
- Track 7 : Hegedechwinu_6
- Track 8 : Girafales_6, Mozy_6, Cornucopia_6, Quico_6
- Track 9 : Pucara_5
- Track 10 : Neuville_7, Gerri43_7, Annabelle_7, ChamoyPickle_7, CardboardBox_7, Roberts_7, ChipsNGuac_7
- Track 11 : TMaxx_7
- Track 12 : Studio_7
- Track 13 : Agamoto_9
- Track 14 : Ezurina_6
- Track 15 : Yunkel11_12, Guanica15_12, Efra2_12
- Track 16 : Clipper_12, Capricorn_12, CheetoDust_12, SamuelLPlaqson_12, Blizzard_12, CallaLilly_12, Lunahalos_12, BEEST_12, Belladonna_12, Adephagia_12, Tachez_12, HedwigODU_12, Homura_12, Spock_12, Twitch_12, Veliki_12, TaiwanKao_12, ShiaSurprise_12, Emerson_12, Beezoo_12, Durfee_12, Llorens_12, TreyKay_12, Prithvi_12, Ramen_12, CaseJules_12, Jarvi_12, Tiri_12, TruffulaTree_12, Mynx_12, Asayake_12, Peel_12, BGIlluviae_12, CREW_12, TiniBug_12, Anma_12, DrHayes_12, MacKat_12, Geraldini_12, Megsy_12, Padfoot_12, Apocalypse_12, Padpat_12, Piatt_12, Boiii_12, Topper_12, Dalmuri_12, BarrelRoll_12, Hyperbowlee_12, Bella96_12, Inky_12, LindNT_12, Jeckyll_12, Rosmarinus_12, Zabiza_12, ActinUp_12, BaghaKamala_12, DartGoblin_12, Urkel_12, Zavala_12, Atiba_12, Joy99_12
- Track 17 : Scarlett_11, LeMond_11, KiSi_11, Oscar_11

- Track 18 : Ageofdapage_12, Murucutumbu_12, Pisa1_11, Dole_12, Devera_12, Illumine_12, Pisa4_11, LaterM_12, Bern_12, Stinson_12
- Track 19 : SgtBeansprout_8, Nutello_8, Enkosi_8, Torres_8, Mdavu_8, Teejan_8, Trice_8, Amelie_8, Nikao_8, LilPharaoh_8, Biglebops_8
- Track 20 : MarkPhew_11
- Track 21 : CrimD_12
- Track 22 : Anaya_13
- Track 23 : Curiosium_13
- Track 24 : Jayhawk_12, Rapunzel97_12, Slimphazie_12
- Track 25 : Chavito_12
- Track 26 : Validus_12
- Track 27 : AlishaPH_12
- Track 28 : Chris_11
- Track 29 : Nibb_11
- Track 30 : Doughnut_8, Mufasa_8, BoostSeason_8, ZoeJ_8
- Track 31 : Marcoliusprime_8, DismalFunk_8, Findley_8, DismalStressor_8, Milly_8, Strobilo_8
- Track 32 : TM4_8
- Track 33 : Pharb_11
- Track 34 : ShedlockHolmes_11
- Track 35 : Pixie_11
- Track 36 : TBond007_11
- Track 37 : Lea83_11
- Track 38 : Hurricane_11
- Track 39 : Keshu_11
- Track 40 : Slarp_13, Lebo14_13, Wintermute_13, Kraw_13, OmniCritical_13, Cheetobro_13, Mitti_13, Chancellor_13, MissDaisy_13, Malthus_13, DanSyl44_13, Qhanda_13, SamScheppers_11, Fionnbharth_13, Patt_13, YasnayaPolyana_13
- Track 41 : Taquito_11
- Track 42 : JF1_13, Y10_13, Y2_13
- Track 43 : Eponine_13, Juliette_13, Ruthiejr_12
- Track 44 : Bobquesha_13, Reptar3000_13
- Track 45 : Heftyboy_10, Thyatira_10, Miryou_10, BananenDer11_10, SoSeph_10, DoubleChamp_10, Waterfoul_10
- Track 46 : Paola_10, Feyre_10, OkiRoe_10
- Track 47 : Hammy_11
- Track 48 : Tigress9_11
- Track 49 : Yuna_12
- Track 50 : Syra333_11
- Track 51 : Ximenita_12
- Track 52 : SirPhilip_11
- Track 53 : Amgine_10, Ellie_9, Applecrisp_10, Fefferhead_11, Lavahound_10
- Track 54 : Amohnition_11, DARTH_P_11
- Track 55 : PhelpsODU_11, Unicorn_11
- Track 56 : Cain_11, Phrank_11, Bryler_11, Sunflower1121_10
- Track 57 : Marshawn_13
- Track 58 : TClif_11
- Track 59 : Tierra_11
- Track 60 : Ekdilam_9
- Track 61 : November_10
- Track 62 : Shadow1_10
- Track 63 : DS6A_10

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

The start number called the most often in the published annotations is 16, it was called in 70 of the 227 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- ActinUp_12, Adephegia_12, Ageofdapage_12, AlishaPH_12, Anaya_13, Anma_12, Apocalypse_12, Asayake_12, Atiba_12, BEEST_12, BGIlluviae_12, BaghaKamala_12, BarrelRoll_12, Beezoo_12, Bella96_12, Belladonna_12, Bern_12, Blizzard_12, Boiiii_12, CREW_12, CallaLilly_12, Capricorn_12, CaseJules_12, CheetoDust_12, Clipper_12, CrimD_12, Dalmuri_12, DartGoblin_12, Devera_12, Dole_12, DrHayes_12, Durfee_12, Emerson_12, Geraldini_12, HedwigODU_12, Homura_12, Hyperbowlee_12, Illumine_12, Inky_12, Jarvi_12, Jeckyll_12, Joy99_12, LaterM_12, LindNT_12, Llorens_12, Lunahalos_12, MacKat_12, Megsy_12, Murucutumbu_12, Mynx_12, Padfoot_12, Padpat_12, Peel_12, Piatt_12, Pisa1_11, Pisa4_11, Prithvi_12, Ramen_12, Rosmarinus_12, SamuelLPlaqson_12, ShiaSurprise_12, Spock_12, Stinson_12, Tachez_12, TaiwanKao_12, TiniBug_12, Tiri_12, Topper_12, TreyKay_12, TruffulaTree_12, Twitch_12, Urkel_12, Veliki_12, Zabiza_12, Zavala_12,

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

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

- Agamoto_9, Alexphander_6, Aloeri_6, Amelie_8, Amgine_10, Amohnition_11, AnnabelLee_7, Applecrisp_10, Awesomesauce_6, BananenDer11_10, Beakin_6, Beanstalk_6, BigPhil_6, Biglebops_8, Bobi_6, Bobquesha_13, Boomer_6, BoostSeason_8, Brookers_6, Brushbloom_6, Bryler_11, BuzzLyseyear_6, Cain_11, CardboardBox_7, Cerasum_6, ChamoyPickle_7, Chancellor_13, Chavito_12, Cheetobro_13, ChickenDinner_6, ChipsNGuac_7, Chris_11, Coco12_6, Cornucopia_6, Curiosium_13, DS6A_10, DaWorst_6, DanSyl44_13, DarthP_11, DirtMcgirt_6, DismalFunk_8, DismalStressor_8, DocMcStuffins_6, Doomslug_6, DosHalletts_6, DoubleChamp_10, Doughnut_8, Drago_6, Efra2_12, Ekdilam_9, Ellie_9, Emmaloid_6, Enby_6, Enkosi_8, Eponine_13, Ezurina_6, Farewell_5, Fefferhead_11, Feyre_10, Findley_8, Fionnbharth_13, Flathead_6, Frankie_6, Gerri43_7, Girafales_6, Guanica15_12, Hammy_11, Heftyboy_10, Hegedechwinu_6, Hurricane_11, JF1_13, JalFarm20_6, Jayhawk_12, Job42_6, Juice456_6, Juliette_13, Keshu_11, KiSi_11, Kimberlium_6, Kingsley_6, Kraw_13, Lavahound_10, LeMond_11, Lea83_11, Lebo14_13, Leozinho_6, LilPharaoh_8, LittleShirley_6, LordVader_7, Lorde_6, Lucia_6, Madiba_6, Malthus_13, Marcoliusprime_8, MarkPhew_11, Marker_6, Marshawn_13, Mdavu_8, Milly_8, Miryou_10, Misha28_6, MissDaisy_13, Mitti_13, Mova_6, Mozy_6, Mufasa_8, MulchExplorer_6, Neuvillelette_7, Nibb_11, Nikao_8, November_10, Nutello_8, OkiRoe_10, Oksu_6, OmniCritical_13, Oscar_11, OwlsT2W_6, Paola_10, Patt_13, Peridot_6, Pharb_11, PhelpsODU_11, Phrank_11, Piper2020_6, Pixie_11, Plumbus_6, Pollywog_6, Pucara_5, Qhanda_13, Quico_6, Ramsey_6, Rapunzel97_12, Reptar3000_13, Rialto_6, Roberts_7, RockyHorror_6, Ruthiejr_12, SamScheppers_11, Sarma624_6, Scarlett_11, Seagreen_6, SgtBeansprout_8, Shadow1_10, ShedlockHolmes_11, SimranZ1_6, SirPhilip_11, Slarp_13, Slim_6, Slimphazie_12, SoSeph_10, Spikelee_6, Squirty_6, Stap_6, Starceвич_6, Strobilo_8, Studio_7, Sunflower1121_10, Syra333_11,

TBond007_11, TClif_11, TM4_8, TMaxx_7, Taquito_11, Tchotchke_6, Teejan_8, Thyatira_10, Tierra_11, Tigress9_11, TootsiePop_6, Tootsieroll_6, Torres_8, Totinger_6, Trice_8, UncleRicky_6, Unicorn_11, Validus_12, Velveteen_6, Waterfoul_10, Wintermute_13, Ximenita_12, Y10_13, Y2_13, YasnayaPolyana_13, Yuna_12, Yunkel11_12, ZoeJ_8,

Summary by start number:

Start 13:

- Found in 2 of 261 (0.8%) of genes in pham
- Manual Annotations of this start: 1 of 227
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Chavito_12 (K1), Validus_12 (K1),

Start 14:

- Found in 1 of 261 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 227
- Called 100.0% of time when present
- Phage (with cluster) where this start called: TM4_8 (K2),

Start 15:

- Found in 1 of 261 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 227
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Curiosium_13 (K1),

Start 16:

- Found in 75 of 261 (28.7%) of genes in pham
- Manual Annotations of this start: 70 of 227
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ActinUp_12 (K1), Adephegia_12 (K1), Ageofdapage_12 (K1), AlishaPH_12 (K1), Anaya_13 (K1), Anma_12 (K1), Apocalypse_12 (K1), Asayake_12 (K1), Atiba_12 (K1), BEEEST_12 (K1), BGIlluviae_12 (K1), BaghaKamala_12 (K1), BarrelRoll_12 (K1), Beezoo_12 (K1), Bella96_12 (K1), Belladonna_12 (K1), Bern_12 (K1), Blizzard_12 (K1), Boiii_12 (K1), CREW_12 (K1), CallaLilly_12 (K1), Capricorn_12 (K1), CaseJules_12 (K1), CheetoDust_12 (K1), Clipper_12 (K1), CrimD_12 (K1), Dalmuri_12 (K1), DartGoblin_12 (K1), Devera_12 (K1), Dole_12 (K1), DrHayes_12 (K1), Durfee_12 (K1), Emerson_12 (K1), Geraldini_12 (K1), HedwigODU_12 (K1), Homura_12 (K1), Hyperbowlee_12 (K1), Illumine_12 (K1), Inky_12 (K1), Jarvi_12 (K1), Jeckyll_12 (K1), Joy99_12 (K1), LaterM_12 (K1), LindNT_12 (K1), Llorens_12 (K1), Lunahalos_12 (K1), MacKat_12 (K1), Megsy_12 (K1), Murucutumbu_12 (K1), Mynx_12 (K1), Padfoot_12 (K1), Padpat_12 (K1), Peel_12 (K1), Piatt_12 (K1), Pisa1_11 (K1), Pisa4_11 (K1), Prithvi_12 (K1), Ramen_12 (K1), Rosmarinus_12 (K1), SamuelLPlaqson_12 (K1), ShiaSurprise_12 (K1), Spock_12 (K1), Stinson_12 (K1), Tachez_12 (K1), TaiwanKao_12 (K1), TiniBug_12 (K1), Tiri_12 (K1), Topper_12 (K1), TreyKay_12 (K1), TruffulaTree_12 (K1), Twitch_12 (K1), Urkel_12 (K1), Veliki_12 (K1), Zabiza_12 (K1), Zavala_12 (K1),

Start 17:

- Found in 68 of 261 (26.1%) of genes in pham
- Manual Annotations of this start: 61 of 227
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Amelie_8 (K1), Amgine_10 (K6), Amohnition_11 (K6), Applecrisp_10 (K6), Biglebops_8 (K1), Bobquesha_13 (K4), Bryler_11 (K6), Cain_11 (K6), Chancellor_13 (K4), Cheetobro_13 (K4), Chris_11 (K1), DanSyl44_13 (K4), DarthP_11 (K6), Ekdilam_9 (K6), Ellie_9 (K6), Enkosi_8 (K1), Eponine_13 (K4), Fefferhead_11 (K6), Fionnbharth_13 (K4), Hammy_11 (K6), JF1_13 (K4), Jayhawk_12 (K1), Juliette_13 (K4), KiSi_11 (K1), Kraw_13 (K4), Lavahound_10 (K6), LeMond_11 (K1), Lebo14_13 (K4), LilPharaoh_8 (K1), Malthus_13 (K4), MarkPhew_11 (K1), Marshawn_13 (K6), Mdavu_8 (K1), MissDaisy_13 (K4), Mitti_13 (K4), Nibb_11 (K1), Nikao_8 (K1), November_10 (K6), Nutello_8 (K1), OmniCritical_13 (K4), Oscar_11 (K1), Patt_13 (K4), PhelpsODU_11 (K6), Phrank_11 (K6), Qhanda_13 (K4), Rapunzel97_12 (K1), Reptar3000_13 (K4), Ruthiejr_12 (K4), SamScheppers_11 (K4), Scarlett_11 (K1), SgtBeansprout_8 (K1), Shadow1_10 (K6), Slarp_13 (K4), Slimphazie_12 (K1), Sunflower1121_10 (K6), Syra333_11 (K6), Taquito_11 (K4), Teejan_8 (K1), Tierra_11 (K6), Tigress9_11 (K6), Torres_8 (K1), Trice_8 (K1), Unicorn_11 (K6), Wintermute_13 (K4), Ximenita_12 (K6), Y10_13 (K4), Y2_13 (K4), YasnayaPolyana_13 (K4),

Start 18:

- Found in 4 of 261 (1.5%) of genes in pham
- Manual Annotations of this start: 1 of 227
- Called 25.0% of time when present
- Phage (with cluster) where this start called: TClif_11 (K6),

Start 19:

- Found in 1 of 261 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 227
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Yuna_12 (K6),

Start 20:

- Found in 3 of 261 (1.1%) of genes in pham
- Manual Annotations of this start: 3 of 227
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Efra2_12 (K1), Guanica15_12 (K1), Yunkel11_12 (K1),

Start 21:

- Found in 15 of 261 (5.7%) of genes in pham
- Manual Annotations of this start: 2 of 227
- Called 13.3% of time when present
- Phage (with cluster) where this start called: Pixie_11 (K3), ShedlockHolmes_11 (K3),

Start 22:

- Found in 10 of 261 (3.8%) of genes in pham
- Manual Annotations of this start: 10 of 227
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BoostSeason_8 (K2), DismalFunk_8 (K2), DismalStressor_8 (K2), Doughnut_8 (K2), Findley_8 (K2), Marcoliusprime_8 (K2), Milly_8 (K2), Mufasa_8 (K2), Strobilo_8 (K2), ZoeJ_8 (K2),

Start 23:

- Found in 69 of 261 (26.4%) of genes in pham
- Manual Annotations of this start: 61 of 227

- Called 100.0% of time when present
- Phage (with cluster) where this start called: Alexphander_6 (F1), Aloeri_6 (F1), Awesomesauce_6 (F1), Beakin_6 (F1), Beanstalk_6 (F1), BigPhil_6 (F1), Bobi_6 (F1), Boomer_6 (F1), Brookers_6 (F1), Brushbloom_6 (F1), BuzzLyseyear_6 (F1), Cerasum_6 (F1), ChickenDinner_6 (F1), Coco12_6 (F1), Cornucopia_6 (F1), DS6A_10 (singleton), DaWorst_6 (F1), DirtMcgirt_6 (F1), DocMcStuffins_6 (F1), Doomslug_6 (F), DosHalletts_6 (F1), Drago_6 (F1), Emmaloid_6 (F1), Enby_6 (F1), Flathead_6 (F1), Frankie_6 (F1), Girafales_6 (F1), Hegedechwinu_6 (F1), JalFarm20_6 (F1), Job42_6 (F1), Juice456_6 (F1), Kimberlium_6 (F1), Kingsley_6 (F1), Leozinho_6 (F1), LittleShirley_6 (F1), LordVader_7 (F), Lorde_6 (F1), Lucia_6 (F1), Madiba_6 (F1), Marker_6 (F1), Misha28_6 (F1), Mova_6 (F1), Mozy_6 (F1), MulchExplorer_6 (F1), Oksu_6 (F1), OwlsT2W_6 (F1), Peridot_6 (F1), Piper2020_6 (F1), Plumbus_6 (F1), Pollywog_6 (F1), Quico_6 (F1), Ramsey_6 (F1), Rialto_6 (F1), RockyHorror_6 (F1), Sarma624_6 (F1), Seagreen_6 (F1), SimranZ1_6 (F1), SirPhilip_11 (K6), Slim_6 (F1), Spikelee_6 (F1), Squirty_6 (F3), Stap_6 (F1), Starcevich_6 (F1), Tchotchke_6 (F1), TootsiePop_6 (F1), Tootsieroll_6 (F1), Totinger_6 (F1), UncleRicky_6 (F1), Velveteen_6 (F1),

Start 24:

- Found in 1 of 261 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 227
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Farewell_5 (AF),

Start 25:

- Found in 10 of 261 (3.8%) of genes in pham
- Manual Annotations of this start: 3 of 227
- Called 30.0% of time when present
- Phage (with cluster) where this start called: Feyre_10 (K5), OkiRoe_10 (K5), Paola_10 (K5),

Start 26:

- Found in 11 of 261 (4.2%) of genes in pham
- Manual Annotations of this start: 1 of 227
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Agamoto_9 (FR), AnnabelLee_7 (FR), CardboardBox_7 (FR), ChamoyPickle_7 (FR), ChipsNGuac_7 (FR), Ezurina_6 (FR), Gerri43_7 (FR), Neuville_7 (FR), Roberts_7 (FR), Studio_7 (FR), TMaxx_7 (FR),

Start 28:

- Found in 1 of 261 (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: Pucara_5 (FA),

Start 29:

- Found in 10 of 261 (3.8%) of genes in pham
- Manual Annotations of this start: 5 of 227
- Called 70.0% of time when present
- Phage (with cluster) where this start called: BananenDer11_10 (K5), DoubleChamp_10 (K5), Heftyboy_10 (K5), Miryou_10 (K5), SoSeph_10 (K5), Thyatira_10 (K5), Waterfoul_10 (K5),

Start 30:

- Found in 7 of 261 (2.7%) of genes in pham
- Manual Annotations of this start: 5 of 227
- Called 71.4% of time when present
- Phage (with cluster) where this start called: Hurricane_11 (K3), Keshu_11 (K3), Lea83_11 (K3), Pharb_11 (K3), TBond007_11 (K3),

Summary by clusters:

There are 13 clusters represented in this pham: F1, FR, F3, AF, F, FA, singleton, K3, K2, K1, K6, K5, K4,

Info for manual annotations of cluster AF:

- Start number 24 was manually annotated 1 time for cluster AF.

Info for manual annotations of cluster F1:

- Start number 23 was manually annotated 58 times for cluster F1.

Info for manual annotations of cluster F3:

- Start number 23 was manually annotated 1 time for cluster F3.

Info for manual annotations of cluster FR:

- Start number 26 was manually annotated 1 time for cluster FR.

Info for manual annotations of cluster K1:

- Start number 13 was manually annotated 1 time for cluster K1.
- Start number 15 was manually annotated 1 time for cluster K1.
- Start number 16 was manually annotated 70 times for cluster K1.
- Start number 17 was manually annotated 19 times for cluster K1.
- Start number 20 was manually annotated 3 times for cluster K1.

Info for manual annotations of cluster K2:

- Start number 14 was manually annotated 1 time for cluster K2.
- Start number 22 was manually annotated 10 times for cluster K2.

Info for manual annotations of cluster K3:

- Start number 21 was manually annotated 2 times for cluster K3.
- Start number 30 was manually annotated 5 times for cluster K3.

Info for manual annotations of cluster K4:

- Start number 17 was manually annotated 22 times for cluster K4.

Info for manual annotations of cluster K5:

- Start number 25 was manually annotated 3 times for cluster K5.
- Start number 29 was manually annotated 5 times for cluster K5.

Info for manual annotations of cluster K6:

- Start number 17 was manually annotated 20 times for cluster K6.
- Start number 18 was manually annotated 1 time for cluster K6.
- Start number 19 was manually annotated 1 time for cluster K6.
- Start number 23 was manually annotated 1 time for cluster K6.

Gene Information:

Gene: ActinUp_12 Start: 7313, Stop: 7855, Start Num: 16

Candidate Starts for ActinUp_12:

(Start: 16 @7313 has 70 MA's), (38, 7448), (52, 7616), (59, 7811), (62, 7829), (63, 7838),

Gene: Adephagia_12 Start: 7313, Stop: 7855, Start Num: 16

Candidate Starts for Adephagia_12:

(Start: 16 @7313 has 70 MA's), (38, 7448), (52, 7616), (59, 7811), (62, 7829), (63, 7838),

Gene: Agamoto_9 Start: 8117, Stop: 8620, Start Num: 26

Candidate Starts for Agamoto_9:

(Start: 26 @8117 has 1 MA's), (40, 8285), (42, 8300),

Gene: Ageofdapage_12 Start: 7253, Stop: 7795, Start Num: 16

Candidate Starts for Ageofdapage_12:

(Start: 16 @7253 has 70 MA's), (38, 7388), (52, 7556), (62, 7769), (63, 7778),

Gene: Alexphander_6 Start: 4408, Stop: 4944, Start Num: 23

Candidate Starts for Alexphander_6:

(Start: 23 @4408 has 61 MA's), (43, 4630), (49, 4699), (50, 4708), (56, 4810), (63, 4927),

Gene: AlishaPH_12 Start: 7315, Stop: 7857, Start Num: 16

Candidate Starts for AlishaPH_12:

(Start: 16 @7315 has 70 MA's), (38, 7450), (41, 7483), (52, 7618), (59, 7813), (62, 7831), (63, 7840),

Gene: Aloeri_6 Start: 4412, Stop: 4948, Start Num: 23

Candidate Starts for Aloeri_6:

(Start: 23 @4412 has 61 MA's), (43, 4634), (49, 4703), (50, 4712), (52, 4730), (56, 4814), (63, 4931),

Gene: Amelie_8 Start: 6589, Stop: 7137, Start Num: 17

Candidate Starts for Amelie_8:

(Start: 17 @6589 has 61 MA's), (52, 6904), (59, 7093), (62, 7111),

Gene: Amgine_10 Start: 6944, Stop: 7507, Start Num: 17

Candidate Starts for Amgine_10:

(Start: 17 @6944 has 61 MA's), (52, 7274), (62, 7481), (63, 7490),

Gene: Amohnition_11 Start: 7198, Stop: 7755, Start Num: 17

Candidate Starts for Amohnition_11:

(12, 7180), (Start: 17 @7198 has 61 MA's), (52, 7522), (59, 7711), (62, 7729), (63, 7738),

Gene: Anaya_13 Start: 7316, Stop: 7855, Start Num: 16

Candidate Starts for Anaya_13:

(Start: 16 @7316 has 70 MA's), (38, 7451), (48, 7583), (52, 7619), (59, 7811), (62, 7829), (63, 7838),

Gene: Anma_12 Start: 7263, Stop: 7805, Start Num: 16

Candidate Starts for Anma_12:

(Start: 16 @7263 has 70 MA's), (38, 7398), (52, 7566), (59, 7761), (62, 7779), (63, 7788),

Gene: AnnabelLee_7 Start: 4967, Stop: 5473, Start Num: 26

Candidate Starts for AnnabelLee_7:

(Start: 26 @4967 has 1 MA's), (42, 5153), (49, 5246),

Gene: Apocalypse_12 Start: 7291, Stop: 7833, Start Num: 16

Candidate Starts for Apocalypse_12:

(Start: 16 @7291 has 70 MA's), (38, 7426), (52, 7594), (59, 7789), (62, 7807), (63, 7816),

Gene: Applecrisp_10 Start: 7342, Stop: 7908, Start Num: 17

Candidate Starts for Applecrisp_10:

(Start: 17 @7342 has 61 MA's), (52, 7675), (62, 7882), (63, 7891),

Gene: Asayake_12 Start: 7357, Stop: 7899, Start Num: 16

Candidate Starts for Asayake_12:

(Start: 16 @7357 has 70 MA's), (38, 7492), (52, 7660), (59, 7855), (62, 7873), (63, 7882),

Gene: Atiba_12 Start: 7279, Stop: 7821, Start Num: 16

Candidate Starts for Atiba_12:

(Start: 16 @7279 has 70 MA's), (38, 7414), (52, 7582), (59, 7777), (62, 7795), (63, 7804),

Gene: Awesomesauce_6 Start: 4411, Stop: 4947, Start Num: 23

Candidate Starts for Awesomesauce_6:

(Start: 23 @4411 has 61 MA's), (43, 4633), (49, 4702), (50, 4711), (52, 4729), (56, 4813), (63, 4930),

Gene: BEEST_12 Start: 7357, Stop: 7899, Start Num: 16

Candidate Starts for BEEST_12:

(Start: 16 @7357 has 70 MA's), (38, 7492), (52, 7660), (59, 7855), (62, 7873), (63, 7882),

Gene: BGlluviae_12 Start: 7357, Stop: 7899, Start Num: 16

Candidate Starts for BGlluviae_12:

(Start: 16 @7357 has 70 MA's), (38, 7492), (52, 7660), (59, 7855), (62, 7873), (63, 7882),

Gene: BaghaKamala_12 Start: 7289, Stop: 7825, Start Num: 16

Candidate Starts for BaghaKamala_12:

(Start: 16 @7289 has 70 MA's), (38, 7418), (52, 7586), (59, 7781), (62, 7799), (63, 7808),

Gene: BananenDer11_10 Start: 7478, Stop: 7987, Start Num: 29

Candidate Starts for BananenDer11_10:

(5, 7358), (9, 7397), (Start: 21 @7442 has 2 MA's), (Start: 25 @7463 has 3 MA's), (Start: 29 @7478 has 5 MA's), (31, 7490), (52, 7763),

Gene: BarrelRoll_12 Start: 7307, Stop: 7849, Start Num: 16

Candidate Starts for BarrelRoll_12:

(Start: 16 @7307 has 70 MA's), (38, 7442), (52, 7610), (59, 7805), (62, 7823), (63, 7832),

Gene: Beakin_6 Start: 4411, Stop: 4947, Start Num: 23

Candidate Starts for Beakin_6:

(Start: 23 @4411 has 61 MA's), (43, 4633), (49, 4702), (50, 4711), (56, 4813), (63, 4930),

Gene: Beanstalk_6 Start: 4408, Stop: 4944, Start Num: 23

Candidate Starts for Beanstalk_6:

(Start: 23 @4408 has 61 MA's), (43, 4630), (49, 4699), (50, 4708), (56, 4810), (63, 4927),

Gene: Beezoo_12 Start: 7339, Stop: 7875, Start Num: 16
Candidate Starts for Beezoo_12:
(Start: 16 @7339 has 70 MA's), (38, 7468), (52, 7636), (59, 7831), (62, 7849), (63, 7858),

Gene: Bella96_12 Start: 7242, Stop: 7784, Start Num: 16
Candidate Starts for Bella96_12:
(Start: 16 @7242 has 70 MA's), (38, 7377), (52, 7545), (59, 7740), (62, 7758), (63, 7767),

Gene: Belladonna_12 Start: 7357, Stop: 7899, Start Num: 16
Candidate Starts for Belladonna_12:
(Start: 16 @7357 has 70 MA's), (38, 7492), (52, 7660), (59, 7855), (62, 7873), (63, 7882),

Gene: Bern_12 Start: 7282, Stop: 7815, Start Num: 16
Candidate Starts for Bern_12:
(Start: 16 @7282 has 70 MA's), (38, 7411), (52, 7579), (62, 7789), (63, 7798),

Gene: BigPhil_6 Start: 4408, Stop: 4944, Start Num: 23
Candidate Starts for BigPhil_6:
(Start: 23 @4408 has 61 MA's), (43, 4630), (49, 4699), (50, 4708), (56, 4810), (63, 4927),

Gene: Biglebops_8 Start: 6589, Stop: 7137, Start Num: 17
Candidate Starts for Biglebops_8:
(Start: 17 @6589 has 61 MA's), (52, 6904), (59, 7093), (62, 7111),

Gene: Blizzard_12 Start: 7357, Stop: 7899, Start Num: 16
Candidate Starts for Blizzard_12:
(Start: 16 @7357 has 70 MA's), (38, 7492), (52, 7660), (59, 7855), (62, 7873), (63, 7882),

Gene: Bobi_6 Start: 4408, Stop: 4944, Start Num: 23
Candidate Starts for Bobi_6:
(Start: 23 @4408 has 61 MA's), (43, 4630), (49, 4699), (50, 4708), (56, 4810), (63, 4927),

Gene: Bobquesha_13 Start: 8298, Stop: 8870, Start Num: 17
Candidate Starts for Bobquesha_13:
(Start: 17 @8298 has 61 MA's), (46, 8586), (52, 8631),

Gene: Boiiii_12 Start: 7357, Stop: 7899, Start Num: 16
Candidate Starts for Boiiii_12:
(Start: 16 @7357 has 70 MA's), (38, 7492), (52, 7660), (59, 7855), (62, 7873), (63, 7882),

Gene: Boomer_6 Start: 4408, Stop: 4944, Start Num: 23
Candidate Starts for Boomer_6:
(Start: 23 @4408 has 61 MA's), (43, 4630), (49, 4699), (50, 4708), (56, 4810), (63, 4927),

Gene: BoostSeason_8 Start: 5333, Stop: 5878, Start Num: 22
Candidate Starts for BoostSeason_8:
(Start: 22 @5333 has 10 MA's), (50, 5636), (52, 5654), (62, 5852),

Gene: Brookers_6 Start: 4408, Stop: 4944, Start Num: 23
Candidate Starts for Brookers_6:
(Start: 23 @4408 has 61 MA's), (43, 4630), (49, 4699), (50, 4708), (56, 4810), (63, 4927),

Gene: Brushbloom_6 Start: 4408, Stop: 4944, Start Num: 23

Candidate Starts for Brushbloom_6:
(Start: 23 @4408 has 61 MA's), (43, 4630), (49, 4699), (50, 4708), (56, 4810), (63, 4927),

Gene: Bryler_11 Start: 6246, Stop: 6824, Start Num: 17
Candidate Starts for Bryler_11:
(Start: 17 @6246 has 61 MA's), (52, 6591), (53, 6630), (63, 6807),

Gene: BuzzLyseyear_6 Start: 4407, Stop: 4943, Start Num: 23
Candidate Starts for BuzzLyseyear_6:
(Start: 23 @4407 has 61 MA's), (43, 4629), (49, 4698), (50, 4707), (56, 4809), (63, 4926),

Gene: CREW_12 Start: 7357, Stop: 7899, Start Num: 16
Candidate Starts for CREW_12:
(Start: 16 @7357 has 70 MA's), (38, 7492), (52, 7660), (59, 7855), (62, 7873), (63, 7882),

Gene: Cain_11 Start: 6234, Stop: 6812, Start Num: 17
Candidate Starts for Cain_11:
(Start: 17 @6234 has 61 MA's), (52, 6579), (53, 6618), (63, 6795),

Gene: CallaLilly_12 Start: 7286, Stop: 7822, Start Num: 16
Candidate Starts for CallaLilly_12:
(Start: 16 @7286 has 70 MA's), (38, 7415), (52, 7583), (59, 7778), (62, 7796), (63, 7805),

Gene: Capricorn_12 Start: 7357, Stop: 7899, Start Num: 16
Candidate Starts for Capricorn_12:
(Start: 16 @7357 has 70 MA's), (38, 7492), (52, 7660), (59, 7855), (62, 7873), (63, 7882),

Gene: CardboardBox_7 Start: 4967, Stop: 5473, Start Num: 26
Candidate Starts for CardboardBox_7:
(Start: 26 @4967 has 1 MA's), (42, 5153), (49, 5246),

Gene: CaseJules_12 Start: 7357, Stop: 7899, Start Num: 16
Candidate Starts for CaseJules_12:
(Start: 16 @7357 has 70 MA's), (38, 7492), (52, 7660), (59, 7855), (62, 7873), (63, 7882),

Gene: Cerasum_6 Start: 4408, Stop: 4944, Start Num: 23
Candidate Starts for Cerasum_6:
(Start: 23 @4408 has 61 MA's), (43, 4630), (49, 4699), (50, 4708), (56, 4810), (63, 4927),

Gene: ChamoyPickle_7 Start: 4967, Stop: 5473, Start Num: 26
Candidate Starts for ChamoyPickle_7:
(Start: 26 @4967 has 1 MA's), (42, 5153), (49, 5246),

Gene: Chancellor_13 Start: 8544, Stop: 9116, Start Num: 17
Candidate Starts for Chancellor_13:
(Start: 17 @8544 has 61 MA's), (46, 8832), (52, 8877),

Gene: Chavito_12 Start: 6370, Stop: 6924, Start Num: 13
Candidate Starts for Chavito_12:
(Start: 13 @6370 has 1 MA's), (38, 6520), (52, 6688), (62, 6898),

Gene: CheetoDust_12 Start: 7333, Stop: 7875, Start Num: 16
Candidate Starts for CheetoDust_12:

(Start: 16 @7333 has 70 MA's), (38, 7468), (52, 7636), (59, 7831), (62, 7849), (63, 7858),

Gene: Cheetobro_13 Start: 8544, Stop: 9116, Start Num: 17

Candidate Starts for Cheetobro_13:

(Start: 17 @8544 has 61 MA's), (46, 8832), (52, 8877),

Gene: ChickenDinner_6 Start: 4412, Stop: 4948, Start Num: 23

Candidate Starts for ChickenDinner_6:

(Start: 23 @4412 has 61 MA's), (43, 4634), (49, 4703), (50, 4712), (52, 4730), (56, 4814), (63, 4931),

Gene: ChipsNGuac_7 Start: 4967, Stop: 5473, Start Num: 26

Candidate Starts for ChipsNGuac_7:

(Start: 26 @4967 has 1 MA's), (42, 5153), (49, 5246),

Gene: Chris_11 Start: 6182, Stop: 6724, Start Num: 17

Candidate Starts for Chris_11:

(Start: 17 @6182 has 61 MA's), (59, 6680), (62, 6698), (63, 6707),

Gene: Clipper_12 Start: 7333, Stop: 7875, Start Num: 16

Candidate Starts for Clipper_12:

(Start: 16 @7333 has 70 MA's), (38, 7468), (52, 7636), (59, 7831), (62, 7849), (63, 7858),

Gene: Coco12_6 Start: 4408, Stop: 4944, Start Num: 23

Candidate Starts for Coco12_6:

(Start: 23 @4408 has 61 MA's), (43, 4630), (49, 4699), (50, 4708), (52, 4726), (56, 4810), (63, 4927),

Gene: Cornucopia_6 Start: 4408, Stop: 4944, Start Num: 23

Candidate Starts for Cornucopia_6:

(Start: 23 @4408 has 61 MA's), (49, 4699), (50, 4708), (63, 4927),

Gene: CrimD_12 Start: 7285, Stop: 7827, Start Num: 16

Candidate Starts for CrimD_12:

(Start: 16 @7285 has 70 MA's), (38, 7420), (50, 7564), (52, 7588), (59, 7783), (62, 7801), (63, 7810),

Gene: Curiosium_13 Start: 6689, Stop: 7222, Start Num: 15

Candidate Starts for Curiosium_13:

(Start: 15 @6689 has 1 MA's), (38, 6824), (52, 6992), (62, 7196), (63, 7205),

Gene: DS6A_10 Start: 7559, Stop: 8122, Start Num: 23

Candidate Starts for DS6A_10:

(Start: 23 @7559 has 61 MA's), (47, 7835), (51, 7868), (63, 8105),

Gene: DaWorst_6 Start: 4409, Stop: 4945, Start Num: 23

Candidate Starts for DaWorst_6:

(Start: 23 @4409 has 61 MA's), (43, 4631), (49, 4700), (50, 4709), (52, 4727), (56, 4811), (63, 4928),

Gene: Dalmuri_12 Start: 7357, Stop: 7899, Start Num: 16

Candidate Starts for Dalmuri_12:

(Start: 16 @7357 has 70 MA's), (38, 7492), (52, 7660), (59, 7855), (62, 7873), (63, 7882),

Gene: DanSyl44_13 Start: 8547, Stop: 9119, Start Num: 17

Candidate Starts for DanSyl44_13:

(Start: 17 @8547 has 61 MA's), (46, 8835), (52, 8880),

Gene: DartGoblin_12 Start: 7242, Stop: 7784, Start Num: 16

Candidate Starts for DartGoblin_12:

(Start: 16 @7242 has 70 MA's), (38, 7377), (52, 7545), (59, 7740), (62, 7758), (63, 7767),

Gene: DarthP_11 Start: 7198, Stop: 7755, Start Num: 17

Candidate Starts for DarthP_11:

(12, 7180), (Start: 17 @7198 has 61 MA's), (52, 7522), (59, 7711), (62, 7729), (63, 7738),

Gene: Devera_12 Start: 7321, Stop: 7854, Start Num: 16

Candidate Starts for Devera_12:

(Start: 16 @7321 has 70 MA's), (38, 7447), (52, 7615), (62, 7828), (63, 7837),

Gene: DirtMcgirt_6 Start: 4410, Stop: 4946, Start Num: 23

Candidate Starts for DirtMcgirt_6:

(Start: 23 @4410 has 61 MA's), (43, 4632), (49, 4701), (50, 4710), (56, 4812), (63, 4929),

Gene: DismalFunk_8 Start: 5349, Stop: 5891, Start Num: 22

Candidate Starts for DismalFunk_8:

(Start: 22 @5349 has 10 MA's), (50, 5652), (52, 5670), (62, 5865),

Gene: DismalStressor_8 Start: 5349, Stop: 5891, Start Num: 22

Candidate Starts for DismalStressor_8:

(Start: 22 @5349 has 10 MA's), (50, 5652), (52, 5670), (62, 5865),

Gene: DocMcStuffins_6 Start: 4412, Stop: 4948, Start Num: 23

Candidate Starts for DocMcStuffins_6:

(Start: 23 @4412 has 61 MA's), (43, 4634), (49, 4703), (50, 4712), (52, 4730), (56, 4814), (63, 4931),

Gene: Dole_12 Start: 7321, Stop: 7854, Start Num: 16

Candidate Starts for Dole_12:

(Start: 16 @7321 has 70 MA's), (38, 7447), (52, 7615), (62, 7828), (63, 7837),

Gene: Doomslug_6 Start: 4408, Stop: 4944, Start Num: 23

Candidate Starts for Doomslug_6:

(Start: 23 @4408 has 61 MA's), (43, 4630), (49, 4699), (50, 4708), (56, 4810), (63, 4927),

Gene: DosHalletts_6 Start: 4408, Stop: 4944, Start Num: 23

Candidate Starts for DosHalletts_6:

(Start: 23 @4408 has 61 MA's), (43, 4630), (49, 4699), (50, 4708), (56, 4810), (63, 4927),

Gene: DoubleChamp_10 Start: 7478, Stop: 7987, Start Num: 29

Candidate Starts for DoubleChamp_10:

(5, 7358), (9, 7397), (Start: 21 @7442 has 2 MA's), (Start: 25 @7463 has 3 MA's), (Start: 29 @7478 has 5 MA's), (31, 7490), (52, 7763),

Gene: Doughnut_8 Start: 5333, Stop: 5878, Start Num: 22

Candidate Starts for Doughnut_8:

(Start: 22 @5333 has 10 MA's), (50, 5636), (52, 5654), (62, 5852),

Gene: DrHayes_12 Start: 7263, Stop: 7805, Start Num: 16

Candidate Starts for DrHayes_12:

(Start: 16 @7263 has 70 MA's), (38, 7398), (52, 7566), (59, 7761), (62, 7779), (63, 7788),

Gene: Drago_6 Start: 4408, Stop: 4944, Start Num: 23

Candidate Starts for Drago_6:

(Start: 23 @4408 has 61 MA's), (43, 4630), (49, 4699), (50, 4708), (56, 4810), (63, 4927),

Gene: Durfee_12 Start: 7357, Stop: 7899, Start Num: 16

Candidate Starts for Durfee_12:

(Start: 16 @7357 has 70 MA's), (38, 7492), (52, 7660), (59, 7855), (62, 7873), (63, 7882),

Gene: Efra2_12 Start: 6263, Stop: 6796, Start Num: 20

Candidate Starts for Efra2_12:

(Start: 18 @6257 has 1 MA's), (Start: 20 @6263 has 3 MA's), (38, 6392), (52, 6560), (62, 6770), (63, 6779),

Gene: Ekdilam_9 Start: 6928, Stop: 7482, Start Num: 17

Candidate Starts for Ekdilam_9:

(Start: 17 @6928 has 61 MA's), (52, 7249), (59, 7438), (62, 7456), (63, 7465),

Gene: Ellie_9 Start: 7015, Stop: 7581, Start Num: 17

Candidate Starts for Ellie_9:

(Start: 17 @7015 has 61 MA's), (52, 7348), (62, 7555), (63, 7564),

Gene: Emerson_12 Start: 7316, Stop: 7858, Start Num: 16

Candidate Starts for Emerson_12:

(Start: 16 @7316 has 70 MA's), (38, 7451), (52, 7619), (59, 7814), (62, 7832), (63, 7841),

Gene: Emmaloid_6 Start: 4409, Stop: 4945, Start Num: 23

Candidate Starts for Emmaloid_6:

(Start: 23 @4409 has 61 MA's), (43, 4631), (49, 4700), (50, 4709), (52, 4727), (56, 4811), (63, 4928),

Gene: Enby_6 Start: 4408, Stop: 4944, Start Num: 23

Candidate Starts for Enby_6:

(Start: 23 @4408 has 61 MA's), (43, 4630), (49, 4699), (50, 4708), (56, 4810), (63, 4927),

Gene: Enkosi_8 Start: 6589, Stop: 7137, Start Num: 17

Candidate Starts for Enkosi_8:

(Start: 17 @6589 has 61 MA's), (52, 6904), (59, 7093), (62, 7111),

Gene: Eponine_13 Start: 8420, Stop: 8992, Start Num: 17

Candidate Starts for Eponine_13:

(2, 8240), (Start: 17 @8420 has 61 MA's), (46, 8708), (52, 8753),

Gene: Ezurina_6 Start: 4583, Stop: 5089, Start Num: 26

Candidate Starts for Ezurina_6:

(Start: 26 @4583 has 1 MA's), (42, 4769), (49, 4862), (51, 4880),

Gene: Farewell_5 Start: 4759, Stop: 5304, Start Num: 24

Candidate Starts for Farewell_5:

(Start: 24 @4759 has 1 MA's), (33, 4870), (36, 4879), (54, 5128), (57, 5164), (58, 5236),

Gene: Fefferhead_11 Start: 7185, Stop: 7748, Start Num: 17

Candidate Starts for Fefferhead_11:

(Start: 17 @7185 has 61 MA's), (52, 7515), (62, 7722), (63, 7731),

Gene: Feyre_10 Start: 7278, Stop: 7802, Start Num: 25
Candidate Starts for Feyre_10:
(5, 7173), (9, 7212), (Start: 21 @7257 has 2 MA's), (Start: 25 @7278 has 3 MA's), (Start: 29 @7293 has 5 MA's), (31, 7305), (52, 7578),

Gene: Findley_8 Start: 5349, Stop: 5891, Start Num: 22
Candidate Starts for Findley_8:
(Start: 22 @5349 has 10 MA's), (50, 5652), (52, 5670), (62, 5865),

Gene: Fionnbharth_13 Start: 8534, Stop: 9106, Start Num: 17
Candidate Starts for Fionnbharth_13:
(Start: 17 @8534 has 61 MA's), (46, 8822), (52, 8867),

Gene: Flathead_6 Start: 4408, Stop: 4944, Start Num: 23
Candidate Starts for Flathead_6:
(Start: 23 @4408 has 61 MA's), (43, 4630), (49, 4699), (50, 4708), (56, 4810), (63, 4927),

Gene: Frankie_6 Start: 4602, Stop: 5138, Start Num: 23
Candidate Starts for Frankie_6:
(Start: 23 @4602 has 61 MA's), (43, 4824), (49, 4893), (50, 4902), (56, 5004), (63, 5121),

Gene: Geraldini_12 Start: 7339, Stop: 7875, Start Num: 16
Candidate Starts for Geraldini_12:
(Start: 16 @7339 has 70 MA's), (38, 7468), (52, 7636), (59, 7831), (62, 7849), (63, 7858),

Gene: Gerri43_7 Start: 4967, Stop: 5473, Start Num: 26
Candidate Starts for Gerri43_7:
(Start: 26 @4967 has 1 MA's), (42, 5153), (49, 5246),

Gene: Girafales_6 Start: 4403, Stop: 4939, Start Num: 23
Candidate Starts for Girafales_6:
(Start: 23 @4403 has 61 MA's), (49, 4694), (50, 4703), (63, 4922),

Gene: Guanica15_12 Start: 6279, Stop: 6812, Start Num: 20
Candidate Starts for Guanica15_12:
(Start: 18 @6273 has 1 MA's), (Start: 20 @6279 has 3 MA's), (38, 6408), (52, 6576), (62, 6786), (63, 6795),

Gene: Hammy_11 Start: 7195, Stop: 7752, Start Num: 17
Candidate Starts for Hammy_11:
(12, 7177), (Start: 17 @7195 has 61 MA's), (52, 7519), (59, 7708), (63, 7735),

Gene: HedwigODU_12 Start: 7313, Stop: 7855, Start Num: 16
Candidate Starts for HedwigODU_12:
(Start: 16 @7313 has 70 MA's), (38, 7448), (52, 7616), (59, 7811), (62, 7829), (63, 7838),

Gene: Heftyboy_10 Start: 7501, Stop: 8010, Start Num: 29
Candidate Starts for Heftyboy_10:
(5, 7381), (9, 7420), (Start: 21 @7465 has 2 MA's), (Start: 25 @7486 has 3 MA's), (Start: 29 @7501 has 5 MA's), (31, 7513), (52, 7786),

Gene: Hegedechwinu_6 Start: 4408, Stop: 4944, Start Num: 23

Candidate Starts for Hegedechwinu_6:
(Start: 23 @4408 has 61 MA's), (43, 4630), (50, 4708), (56, 4810), (63, 4927),

Gene: Homura_12 Start: 7357, Stop: 7899, Start Num: 16
Candidate Starts for Homura_12:
(Start: 16 @7357 has 70 MA's), (38, 7492), (52, 7660), (59, 7855), (62, 7873), (63, 7882),

Gene: Hurricane_11 Start: 7335, Stop: 7883, Start Num: 30
Candidate Starts for Hurricane_11:
(4, 7140), (Start: 21 @7299 has 2 MA's), (Start: 30 @7335 has 5 MA's), (37, 7461), (43, 7545), (52, 7647), (63, 7866),

Gene: Hyperbowlee_12 Start: 7357, Stop: 7899, Start Num: 16
Candidate Starts for Hyperbowlee_12:
(Start: 16 @7357 has 70 MA's), (38, 7492), (52, 7660), (59, 7855), (62, 7873), (63, 7882),

Gene: Illumine_12 Start: 7321, Stop: 7854, Start Num: 16
Candidate Starts for Illumine_12:
(Start: 16 @7321 has 70 MA's), (38, 7447), (52, 7615), (62, 7828), (63, 7837),

Gene: Inky_12 Start: 7357, Stop: 7899, Start Num: 16
Candidate Starts for Inky_12:
(Start: 16 @7357 has 70 MA's), (38, 7492), (52, 7660), (59, 7855), (62, 7873), (63, 7882),

Gene: JF1_13 Start: 8533, Stop: 9105, Start Num: 17
Candidate Starts for JF1_13:
(Start: 17 @8533 has 61 MA's), (46, 8821), (52, 8866),

Gene: JalFarm20_6 Start: 4408, Stop: 4944, Start Num: 23
Candidate Starts for JalFarm20_6:
(Start: 23 @4408 has 61 MA's), (43, 4630), (49, 4699), (50, 4708), (56, 4810), (63, 4927),

Gene: Jarvi_12 Start: 7357, Stop: 7899, Start Num: 16
Candidate Starts for Jarvi_12:
(Start: 16 @7357 has 70 MA's), (38, 7492), (52, 7660), (59, 7855), (62, 7873), (63, 7882),

Gene: Jayhawk_12 Start: 7314, Stop: 7856, Start Num: 17
Candidate Starts for Jayhawk_12:
(3, 7131), (Start: 17 @7314 has 61 MA's), (38, 7449), (52, 7617), (59, 7812), (62, 7830), (63, 7839),

Gene: Jeckyll_12 Start: 7357, Stop: 7899, Start Num: 16
Candidate Starts for Jeckyll_12:
(Start: 16 @7357 has 70 MA's), (38, 7492), (52, 7660), (59, 7855), (62, 7873), (63, 7882),

Gene: Job42_6 Start: 4408, Stop: 4944, Start Num: 23
Candidate Starts for Job42_6:
(Start: 23 @4408 has 61 MA's), (43, 4630), (49, 4699), (50, 4708), (52, 4726), (55, 4786), (56, 4810), (63, 4927),

Gene: Joy99_12 Start: 7289, Stop: 7825, Start Num: 16
Candidate Starts for Joy99_12:
(Start: 16 @7289 has 70 MA's), (38, 7418), (52, 7586), (59, 7781), (62, 7799), (63, 7808),

Gene: Juice456_6 Start: 4409, Stop: 4945, Start Num: 23
Candidate Starts for Juice456_6:
(Start: 23 @4409 has 61 MA's), (43, 4631), (49, 4700), (50, 4709), (56, 4811), (63, 4928),

Gene: Juliette_13 Start: 8420, Stop: 8992, Start Num: 17
Candidate Starts for Juliette_13:
(2, 8240), (Start: 17 @8420 has 61 MA's), (46, 8708), (52, 8753),

Gene: Keshu_11 Start: 7324, Stop: 7872, Start Num: 30
Candidate Starts for Keshu_11:
(Start: 30 @7324 has 5 MA's), (34, 7417), (52, 7636), (63, 7855),

Gene: KiSi_11 Start: 6171, Stop: 6728, Start Num: 17
Candidate Starts for KiSi_11:
(Start: 17 @6171 has 61 MA's), (59, 6684), (62, 6702), (63, 6711),

Gene: Kimberlium_6 Start: 4409, Stop: 4945, Start Num: 23
Candidate Starts for Kimberlium_6:
(Start: 23 @4409 has 61 MA's), (43, 4631), (49, 4700), (50, 4709), (56, 4811), (63, 4928),

Gene: Kingsley_6 Start: 4408, Stop: 4944, Start Num: 23
Candidate Starts for Kingsley_6:
(Start: 23 @4408 has 61 MA's), (43, 4630), (49, 4699), (50, 4708), (56, 4810), (63, 4927),

Gene: Kraw_13 Start: 8453, Stop: 9025, Start Num: 17
Candidate Starts for Kraw_13:
(Start: 17 @8453 has 61 MA's), (46, 8741), (52, 8786),

Gene: LaterM_12 Start: 7280, Stop: 7822, Start Num: 16
Candidate Starts for LaterM_12:
(Start: 16 @7280 has 70 MA's), (38, 7415), (52, 7583), (62, 7796), (63, 7805),

Gene: Lavahound_10 Start: 6944, Stop: 7507, Start Num: 17
Candidate Starts for Lavahound_10:
(Start: 17 @6944 has 61 MA's), (52, 7274), (62, 7481), (63, 7490),

Gene: LeMond_11 Start: 6171, Stop: 6728, Start Num: 17
Candidate Starts for LeMond_11:
(Start: 17 @6171 has 61 MA's), (59, 6684), (62, 6702), (63, 6711),

Gene: Lea83_11 Start: 7326, Stop: 7874, Start Num: 30
Candidate Starts for Lea83_11:
(Start: 21 @7290 has 2 MA's), (Start: 30 @7326 has 5 MA's), (48, 7602), (52, 7638), (63, 7857),

Gene: Lebo14_13 Start: 8547, Stop: 9119, Start Num: 17
Candidate Starts for Lebo14_13:
(Start: 17 @8547 has 61 MA's), (46, 8835), (52, 8880),

Gene: Leozinho_6 Start: 4408, Stop: 4944, Start Num: 23
Candidate Starts for Leozinho_6:
(Start: 23 @4408 has 61 MA's), (43, 4630), (49, 4699), (50, 4708), (56, 4810), (63, 4927),

Gene: LilPharaoh_8 Start: 6589, Stop: 7137, Start Num: 17

Candidate Starts for LilPharaoh_8:

(Start: 17 @6589 has 61 MA's), (52, 6904), (59, 7093), (62, 7111),

Gene: LindNT_12 Start: 7280, Stop: 7822, Start Num: 16

Candidate Starts for LindNT_12:

(Start: 16 @7280 has 70 MA's), (38, 7415), (52, 7583), (59, 7778), (62, 7796), (63, 7805),

Gene: LittleShirley_6 Start: 4409, Stop: 4945, Start Num: 23

Candidate Starts for LittleShirley_6:

(Start: 23 @4409 has 61 MA's), (43, 4631), (49, 4700), (50, 4709), (56, 4811), (63, 4928),

Gene: Llorens_12 Start: 7357, Stop: 7899, Start Num: 16

Candidate Starts for Llorens_12:

(Start: 16 @7357 has 70 MA's), (38, 7492), (52, 7660), (59, 7855), (62, 7873), (63, 7882),

Gene: LordVader_7 Start: 4404, Stop: 4940, Start Num: 23

Candidate Starts for LordVader_7:

(Start: 23 @4404 has 61 MA's), (39, 4572), (43, 4626), (49, 4695), (50, 4704), (56, 4806), (63, 4923),

Gene: Lorde_6 Start: 4408, Stop: 4944, Start Num: 23

Candidate Starts for Lorde_6:

(Start: 23 @4408 has 61 MA's), (43, 4630), (49, 4699), (50, 4708), (56, 4810), (63, 4927),

Gene: Lucia_6 Start: 4408, Stop: 4944, Start Num: 23

Candidate Starts for Lucia_6:

(Start: 23 @4408 has 61 MA's), (43, 4630), (49, 4699), (50, 4708), (56, 4810), (63, 4927),

Gene: Lunahalos_12 Start: 7357, Stop: 7899, Start Num: 16

Candidate Starts for Lunahalos_12:

(Start: 16 @7357 has 70 MA's), (38, 7492), (52, 7660), (59, 7855), (62, 7873), (63, 7882),

Gene: MacKat_12 Start: 7333, Stop: 7875, Start Num: 16

Candidate Starts for MacKat_12:

(Start: 16 @7333 has 70 MA's), (38, 7468), (52, 7636), (59, 7831), (62, 7849), (63, 7858),

Gene: Madiba_6 Start: 4407, Stop: 4943, Start Num: 23

Candidate Starts for Madiba_6:

(Start: 23 @4407 has 61 MA's), (43, 4629), (49, 4698), (50, 4707), (52, 4725), (55, 4785), (56, 4809), (63, 4926),

Gene: Malthus_13 Start: 8453, Stop: 9025, Start Num: 17

Candidate Starts for Malthus_13:

(Start: 17 @8453 has 61 MA's), (46, 8741), (52, 8786),

Gene: Marcoliusprime_8 Start: 5349, Stop: 5891, Start Num: 22

Candidate Starts for Marcoliusprime_8:

(Start: 22 @5349 has 10 MA's), (50, 5652), (52, 5670), (62, 5865),

Gene: MarkPhew_11 Start: 6090, Stop: 6629, Start Num: 17

Candidate Starts for MarkPhew_11:

(Start: 17 @6090 has 61 MA's), (45, 6342), (48, 6357), (59, 6585), (62, 6603), (63, 6612),

Gene: Marker_6 Start: 4407, Stop: 4943, Start Num: 23

Candidate Starts for Marker_6:

(Start: 23 @4407 has 61 MA's), (43, 4629), (49, 4698), (50, 4707), (52, 4725), (55, 4785), (56, 4809), (63, 4926),

Gene: Marshawn_13 Start: 6726, Stop: 7280, Start Num: 17

Candidate Starts for Marshawn_13:

(Start: 17 @6726 has 61 MA's), (38, 6876), (48, 7008), (59, 7236), (62, 7254),

Gene: Mdavu_8 Start: 6577, Stop: 7125, Start Num: 17

Candidate Starts for Mdavu_8:

(Start: 17 @6577 has 61 MA's), (52, 6892), (59, 7081), (62, 7099),

Gene: Megsy_12 Start: 7283, Stop: 7825, Start Num: 16

Candidate Starts for Megsy_12:

(Start: 16 @7283 has 70 MA's), (38, 7418), (52, 7586), (59, 7781), (62, 7799), (63, 7808),

Gene: Milly_8 Start: 5349, Stop: 5891, Start Num: 22

Candidate Starts for Milly_8:

(Start: 22 @5349 has 10 MA's), (50, 5652), (52, 5670), (62, 5865),

Gene: Miryou_10 Start: 7374, Stop: 7883, Start Num: 29

Candidate Starts for Miryou_10:

(5, 7254), (9, 7293), (Start: 21 @7338 has 2 MA's), (Start: 25 @7359 has 3 MA's), (Start: 29 @7374 has 5 MA's), (31, 7386), (52, 7659),

Gene: Misha28_6 Start: 4412, Stop: 4948, Start Num: 23

Candidate Starts for Misha28_6:

(Start: 23 @4412 has 61 MA's), (43, 4634), (49, 4703), (50, 4712), (52, 4730), (56, 4814), (63, 4931),

Gene: MissDaisy_13 Start: 8319, Stop: 8891, Start Num: 17

Candidate Starts for MissDaisy_13:

(Start: 17 @8319 has 61 MA's), (46, 8607), (52, 8652),

Gene: Mitti_13 Start: 8457, Stop: 9029, Start Num: 17

Candidate Starts for Mitti_13:

(Start: 17 @8457 has 61 MA's), (46, 8745), (52, 8790),

Gene: Mova_6 Start: 4410, Stop: 4946, Start Num: 23

Candidate Starts for Mova_6:

(Start: 23 @4410 has 61 MA's), (43, 4632), (49, 4701), (50, 4710), (52, 4728), (56, 4812), (63, 4929),

Gene: Mozy_6 Start: 4405, Stop: 4941, Start Num: 23

Candidate Starts for Mozy_6:

(Start: 23 @4405 has 61 MA's), (49, 4696), (50, 4705), (63, 4924),

Gene: Mufasa_8 Start: 5333, Stop: 5878, Start Num: 22

Candidate Starts for Mufasa_8:

(Start: 22 @5333 has 10 MA's), (50, 5636), (52, 5654), (62, 5852),

Gene: MulchExplorer_6 Start: 4409, Stop: 4945, Start Num: 23

Candidate Starts for MulchExplorer_6:

(Start: 23 @4409 has 61 MA's), (43, 4631), (49, 4700), (50, 4709), (56, 4811), (63, 4928),

Gene: Murucutumbu_12 Start: 7273, Stop: 7815, Start Num: 16
Candidate Starts for Murucutumbu_12:
(Start: 16 @7273 has 70 MA's), (38, 7408), (52, 7576), (62, 7789), (63, 7798),

Gene: Mynx_12 Start: 7336, Stop: 7878, Start Num: 16
Candidate Starts for Mynx_12:
(Start: 16 @7336 has 70 MA's), (38, 7471), (52, 7639), (59, 7834), (62, 7852), (63, 7861),

Gene: Neuville_7 Start: 4967, Stop: 5473, Start Num: 26
Candidate Starts for Neuville_7:
(Start: 26 @4967 has 1 MA's), (42, 5153), (49, 5246),

Gene: Nibb_11 Start: 6227, Stop: 6772, Start Num: 17
Candidate Starts for Nibb_11:
(Start: 17 @6227 has 61 MA's), (53, 6572), (59, 6728), (62, 6746), (63, 6755),

Gene: Nikao_8 Start: 6589, Stop: 7137, Start Num: 17
Candidate Starts for Nikao_8:
(Start: 17 @6589 has 61 MA's), (52, 6904), (59, 7093), (62, 7111),

Gene: November_10 Start: 7032, Stop: 7598, Start Num: 17
Candidate Starts for November_10:
(Start: 17 @7032 has 61 MA's), (48, 7326), (52, 7362), (62, 7572), (63, 7581),

Gene: Nutello_8 Start: 6589, Stop: 7137, Start Num: 17
Candidate Starts for Nutello_8:
(Start: 17 @6589 has 61 MA's), (52, 6904), (59, 7093), (62, 7111),

Gene: OkiRoe_10 Start: 7360, Stop: 7884, Start Num: 25
Candidate Starts for OkiRoe_10:
(5, 7255), (9, 7294), (Start: 21 @7339 has 2 MA's), (Start: 25 @7360 has 3 MA's), (Start: 29 @7375 has 5 MA's), (31, 7387), (52, 7660),

Gene: Oksu_6 Start: 4409, Stop: 4945, Start Num: 23
Candidate Starts for Oksu_6:
(Start: 23 @4409 has 61 MA's), (43, 4631), (49, 4700), (50, 4709), (56, 4811), (63, 4928),

Gene: OmniCritical_13 Start: 8444, Stop: 9016, Start Num: 17
Candidate Starts for OmniCritical_13:
(Start: 17 @8444 has 61 MA's), (46, 8732), (52, 8777),

Gene: Oscar_11 Start: 6172, Stop: 6729, Start Num: 17
Candidate Starts for Oscar_11:
(Start: 17 @6172 has 61 MA's), (59, 6685), (62, 6703), (63, 6712),

Gene: OwlsT2W_6 Start: 4408, Stop: 4944, Start Num: 23
Candidate Starts for OwlsT2W_6:
(Start: 23 @4408 has 61 MA's), (43, 4630), (49, 4699), (50, 4708), (56, 4810), (63, 4927),

Gene: Padfoot_12 Start: 7357, Stop: 7899, Start Num: 16
Candidate Starts for Padfoot_12:
(Start: 16 @7357 has 70 MA's), (38, 7492), (52, 7660), (59, 7855), (62, 7873), (63, 7882),

Gene: Padpat_12 Start: 7316, Stop: 7858, Start Num: 16

Candidate Starts for Padpat_12:

(Start: 16 @7316 has 70 MA's), (38, 7451), (52, 7619), (59, 7814), (62, 7832), (63, 7841),

Gene: Paola_10 Start: 7359, Stop: 7883, Start Num: 25

Candidate Starts for Paola_10:

(5, 7254), (9, 7293), (Start: 21 @7338 has 2 MA's), (Start: 25 @7359 has 3 MA's), (Start: 29 @7374 has 5 MA's), (31, 7386), (52, 7659),

Gene: Patt_13 Start: 8295, Stop: 8867, Start Num: 17

Candidate Starts for Patt_13:

(Start: 17 @8295 has 61 MA's), (46, 8583), (52, 8628),

Gene: Peel_12 Start: 7357, Stop: 7899, Start Num: 16

Candidate Starts for Peel_12:

(Start: 16 @7357 has 70 MA's), (38, 7492), (52, 7660), (59, 7855), (62, 7873), (63, 7882),

Gene: Peridot_6 Start: 4409, Stop: 4945, Start Num: 23

Candidate Starts for Peridot_6:

(Start: 23 @4409 has 61 MA's), (43, 4631), (49, 4700), (50, 4709), (52, 4727), (56, 4811), (63, 4928),

Gene: Pharb_11 Start: 7169, Stop: 7717, Start Num: 30

Candidate Starts for Pharb_11:

(10, 7088), (11, 7094), (Start: 30 @7169 has 5 MA's), (32, 7184), (52, 7481), (63, 7700),

Gene: PhelpsODU_11 Start: 6278, Stop: 6850, Start Num: 17

Candidate Starts for PhelpsODU_11:

(1, 6080), (8, 6236), (Start: 17 @6278 has 61 MA's), (52, 6617), (53, 6656), (59, 6806), (62, 6824),

Gene: Phrank_11 Start: 6234, Stop: 6800, Start Num: 17

Candidate Starts for Phrank_11:

(Start: 17 @6234 has 61 MA's), (52, 6567), (53, 6606), (63, 6783),

Gene: Piatt_12 Start: 7357, Stop: 7899, Start Num: 16

Candidate Starts for Piatt_12:

(Start: 16 @7357 has 70 MA's), (38, 7492), (52, 7660), (59, 7855), (62, 7873), (63, 7882),

Gene: Piper2020_6 Start: 4411, Stop: 4947, Start Num: 23

Candidate Starts for Piper2020_6:

(Start: 23 @4411 has 61 MA's), (43, 4633), (49, 4702), (50, 4711), (52, 4729), (56, 4813), (63, 4930),

Gene: Pisa1_11 Start: 7079, Stop: 7612, Start Num: 16

Candidate Starts for Pisa1_11:

(Start: 16 @7079 has 70 MA's), (38, 7208), (52, 7376), (62, 7586), (63, 7595),

Gene: Pisa4_11 Start: 7079, Stop: 7612, Start Num: 16

Candidate Starts for Pisa4_11:

(Start: 16 @7079 has 70 MA's), (38, 7208), (52, 7376), (62, 7586), (63, 7595),

Gene: Pixie_11 Start: 7042, Stop: 7626, Start Num: 21

Candidate Starts for Pixie_11:

(Start: 21 @7042 has 2 MA's), (Start: 30 @7078 has 5 MA's), (48, 7354), (52, 7390), (63, 7609),

Gene: Plumbus_6 Start: 4409, Stop: 4945, Start Num: 23

Candidate Starts for Plumbus_6:

(Start: 23 @4409 has 61 MA's), (43, 4631), (49, 4700), (50, 4709), (56, 4811), (63, 4928),

Gene: Pollywog_6 Start: 4408, Stop: 4944, Start Num: 23

Candidate Starts for Pollywog_6:

(Start: 23 @4408 has 61 MA's), (43, 4630), (49, 4699), (50, 4708), (52, 4726), (56, 4810), (63, 4927),

Gene: Prithvi_12 Start: 7280, Stop: 7822, Start Num: 16

Candidate Starts for Prithvi_12:

(Start: 16 @7280 has 70 MA's), (38, 7415), (52, 7583), (59, 7778), (62, 7796), (63, 7805),

Gene: Pucara_5 Start: 5039, Stop: 5533, Start Num: 28

Candidate Starts for Pucara_5:

(28, 5039), (51, 5318), (60, 5495),

Gene: Qhanda_13 Start: 8553, Stop: 9125, Start Num: 17

Candidate Starts for Qhanda_13:

(Start: 17 @8553 has 61 MA's), (46, 8841), (52, 8886),

Gene: Quico_6 Start: 4403, Stop: 4939, Start Num: 23

Candidate Starts for Quico_6:

(Start: 23 @4403 has 61 MA's), (49, 4694), (50, 4703), (63, 4922),

Gene: Ramen_12 Start: 7313, Stop: 7855, Start Num: 16

Candidate Starts for Ramen_12:

(Start: 16 @7313 has 70 MA's), (38, 7448), (52, 7616), (59, 7811), (62, 7829), (63, 7838),

Gene: Ramsey_6 Start: 4408, Stop: 4944, Start Num: 23

Candidate Starts for Ramsey_6:

(Start: 23 @4408 has 61 MA's), (49, 4699), (50, 4708), (56, 4810), (63, 4927),

Gene: Rapunzel97_12 Start: 7314, Stop: 7856, Start Num: 17

Candidate Starts for Rapunzel97_12:

(3, 7131), (Start: 17 @7314 has 61 MA's), (38, 7449), (52, 7617), (59, 7812), (62, 7830), (63, 7839),

Gene: Reptar3000_13 Start: 8297, Stop: 8869, Start Num: 17

Candidate Starts for Reptar3000_13:

(Start: 17 @8297 has 61 MA's), (46, 8585), (52, 8630),

Gene: Rialto_6 Start: 4409, Stop: 4945, Start Num: 23

Candidate Starts for Rialto_6:

(Start: 23 @4409 has 61 MA's), (43, 4631), (49, 4700), (50, 4709), (52, 4727), (56, 4811), (63, 4928),

Gene: Roberts_7 Start: 4967, Stop: 5473, Start Num: 26

Candidate Starts for Roberts_7:

(Start: 26 @4967 has 1 MA's), (42, 5153), (49, 5246),

Gene: RockyHorror_6 Start: 4408, Stop: 4944, Start Num: 23

Candidate Starts for RockyHorror_6:

(Start: 23 @4408 has 61 MA's), (43, 4630), (49, 4699), (50, 4708), (56, 4810), (63, 4927),

Gene: Rosmarinus_12 Start: 7345, Stop: 7887, Start Num: 16

Candidate Starts for Rosmarinus_12:

(Start: 16 @7345 has 70 MA's), (38, 7480), (52, 7648), (59, 7843), (62, 7861), (63, 7870),

Gene: Ruthiejr_12 Start: 8151, Stop: 8723, Start Num: 17

Candidate Starts for Ruthiejr_12:

(2, 7971), (Start: 17 @8151 has 61 MA's), (46, 8439), (52, 8484),

Gene: SamScheppers_11 Start: 8060, Stop: 8632, Start Num: 17

Candidate Starts for SamScheppers_11:

(Start: 17 @8060 has 61 MA's), (46, 8348), (52, 8393),

Gene: SamuelLPlaqson_12 Start: 7263, Stop: 7805, Start Num: 16

Candidate Starts for SamuelLPlaqson_12:

(Start: 16 @7263 has 70 MA's), (38, 7398), (52, 7566), (59, 7761), (62, 7779), (63, 7788),

Gene: Sarma624_6 Start: 4408, Stop: 4944, Start Num: 23

Candidate Starts for Sarma624_6:

(Start: 23 @4408 has 61 MA's), (43, 4630), (49, 4699), (50, 4708), (56, 4810), (63, 4927),

Gene: Scarlett_11 Start: 6171, Stop: 6728, Start Num: 17

Candidate Starts for Scarlett_11:

(Start: 17 @6171 has 61 MA's), (59, 6684), (62, 6702), (63, 6711),

Gene: Seagreen_6 Start: 4409, Stop: 4945, Start Num: 23

Candidate Starts for Seagreen_6:

(Start: 23 @4409 has 61 MA's), (43, 4631), (49, 4700), (50, 4709), (56, 4811), (63, 4928),

Gene: SgtBeansprout_8 Start: 6589, Stop: 7137, Start Num: 17

Candidate Starts for SgtBeansprout_8:

(Start: 17 @6589 has 61 MA's), (52, 6904), (59, 7093), (62, 7111),

Gene: Shadow1_10 Start: 6145, Stop: 6711, Start Num: 17

Candidate Starts for Shadow1_10:

(Start: 17 @6145 has 61 MA's), (53, 6517), (63, 6694),

Gene: ShedlockHolmes_11 Start: 7290, Stop: 7874, Start Num: 21

Candidate Starts for ShedlockHolmes_11:

(Start: 21 @7290 has 2 MA's), (Start: 30 @7326 has 5 MA's), (48, 7602), (52, 7638), (63, 7857),

Gene: ShiaSurprise_12 Start: 7357, Stop: 7899, Start Num: 16

Candidate Starts for ShiaSurprise_12:

(Start: 16 @7357 has 70 MA's), (38, 7492), (52, 7660), (59, 7855), (62, 7873), (63, 7882),

Gene: SimranZ1_6 Start: 4408, Stop: 4944, Start Num: 23

Candidate Starts for SimranZ1_6:

(Start: 23 @4408 has 61 MA's), (43, 4630), (49, 4699), (50, 4708), (56, 4810), (63, 4927),

Gene: SirPhilip_11 Start: 6046, Stop: 6564, Start Num: 23

Candidate Starts for SirPhilip_11:

(Start: 23 @6046 has 61 MA's), (38, 6163), (61, 6529), (62, 6538), (63, 6547),

Gene: Slarp_13 Start: 8544, Stop: 9116, Start Num: 17

Candidate Starts for Slarp_13:

(Start: 17 @8544 has 61 MA's), (46, 8832), (52, 8877),

Gene: Slim_6 Start: 4409, Stop: 4945, Start Num: 23

Candidate Starts for Slim_6:

(Start: 23 @4409 has 61 MA's), (43, 4631), (49, 4700), (50, 4709), (52, 4727), (56, 4811), (63, 4928),

Gene: Slimphazie_12 Start: 7314, Stop: 7856, Start Num: 17

Candidate Starts for Slimphazie_12:

(3, 7131), (Start: 17 @7314 has 61 MA's), (38, 7449), (52, 7617), (59, 7812), (62, 7830), (63, 7839),

Gene: SoSeph_10 Start: 7501, Stop: 8010, Start Num: 29

Candidate Starts for SoSeph_10:

(5, 7381), (9, 7420), (Start: 21 @7465 has 2 MA's), (Start: 25 @7486 has 3 MA's), (Start: 29 @7501 has 5 MA's), (31, 7513), (52, 7786),

Gene: Spikelee_6 Start: 4409, Stop: 4945, Start Num: 23

Candidate Starts for Spikelee_6:

(Start: 23 @4409 has 61 MA's), (43, 4631), (49, 4700), (50, 4709), (52, 4727), (56, 4811), (63, 4928),

Gene: Spock_12 Start: 7357, Stop: 7899, Start Num: 16

Candidate Starts for Spock_12:

(Start: 16 @7357 has 70 MA's), (38, 7492), (52, 7660), (59, 7855), (62, 7873), (63, 7882),

Gene: Squirty_6 Start: 4407, Stop: 4943, Start Num: 23

Candidate Starts for Squirty_6:

(Start: 23 @4407 has 61 MA's), (43, 4629), (49, 4698), (50, 4707), (56, 4809), (63, 4926),

Gene: Stap_6 Start: 4408, Stop: 4944, Start Num: 23

Candidate Starts for Stap_6:

(Start: 23 @4408 has 61 MA's), (43, 4630), (49, 4699), (50, 4708), (56, 4810), (63, 4927),

Gene: Starcevich_6 Start: 4409, Stop: 4945, Start Num: 23

Candidate Starts for Starcevich_6:

(Start: 23 @4409 has 61 MA's), (43, 4631), (49, 4700), (50, 4709), (52, 4727), (56, 4811), (63, 4928),

Gene: Stinson_12 Start: 7285, Stop: 7827, Start Num: 16

Candidate Starts for Stinson_12:

(Start: 16 @7285 has 70 MA's), (38, 7420), (52, 7588), (62, 7801), (63, 7810),

Gene: Strobilo_8 Start: 5349, Stop: 5891, Start Num: 22

Candidate Starts for Strobilo_8:

(Start: 22 @5349 has 10 MA's), (50, 5652), (52, 5670), (62, 5865),

Gene: Studio_7 Start: 4771, Stop: 5280, Start Num: 26

Candidate Starts for Studio_7:

(6, 4687), (Start: 26 @4771 has 1 MA's), (35, 4876), (42, 4957),

Gene: Sunflower1121_10 Start: 6147, Stop: 6722, Start Num: 17

Candidate Starts for Sunflower1121_10:

(Start: 17 @6147 has 61 MA's), (52, 6489), (53, 6528), (63, 6705),

Gene: Syra333_11 Start: 6243, Stop: 6815, Start Num: 17

Candidate Starts for Syra333_11:

(Start: 17 @6243 has 61 MA's), (45, 6531), (52, 6582), (53, 6621), (62, 6789), (63, 6798),

Gene: TBond007_11 Start: 7077, Stop: 7625, Start Num: 30

Candidate Starts for TBond007_11:

(Start: 21 @7041 has 2 MA's), (Start: 30 @7077 has 5 MA's), (48, 7353), (52, 7389), (63, 7608),

Gene: TClif_11 Start: 6257, Stop: 6814, Start Num: 18

Candidate Starts for TClif_11:

(Start: 18 @6257 has 1 MA's), (27, 6290), (52, 6581), (63, 6797),

Gene: TM4_8 Start: 5384, Stop: 5944, Start Num: 14

Candidate Starts for TM4_8:

(Start: 14 @5384 has 1 MA's), (35, 5516), (50, 5702), (52, 5720), (62, 5918),

Gene: TMaxx_7 Start: 4931, Stop: 5440, Start Num: 26

Candidate Starts for TMaxx_7:

(Start: 26 @4931 has 1 MA's), (42, 5117), (44, 5162),

Gene: Tachez_12 Start: 7279, Stop: 7821, Start Num: 16

Candidate Starts for Tachez_12:

(Start: 16 @7279 has 70 MA's), (38, 7414), (52, 7582), (59, 7777), (62, 7795), (63, 7804),

Gene: TaiwanKao_12 Start: 7286, Stop: 7828, Start Num: 16

Candidate Starts for TaiwanKao_12:

(Start: 16 @7286 has 70 MA's), (38, 7421), (52, 7589), (59, 7784), (62, 7802), (63, 7811),

Gene: Taquito_11 Start: 8133, Stop: 8702, Start Num: 17

Candidate Starts for Taquito_11:

(Start: 17 @8133 has 61 MA's), (46, 8418), (52, 8463),

Gene: Tchotchke_6 Start: 4409, Stop: 4945, Start Num: 23

Candidate Starts for Tchotchke_6:

(Start: 23 @4409 has 61 MA's), (43, 4631), (49, 4700), (50, 4709), (56, 4811), (63, 4928),

Gene: Teejan_8 Start: 6589, Stop: 7137, Start Num: 17

Candidate Starts for Teejan_8:

(Start: 17 @6589 has 61 MA's), (52, 6904), (59, 7093), (62, 7111),

Gene: Thyatira_10 Start: 7374, Stop: 7883, Start Num: 29

Candidate Starts for Thyatira_10:

(5, 7254), (9, 7293), (Start: 21 @7338 has 2 MA's), (Start: 25 @7359 has 3 MA's), (Start: 29 @7374 has 5 MA's), (31, 7386), (52, 7659),

Gene: Tierra_11 Start: 6942, Stop: 7514, Start Num: 17

Candidate Starts for Tierra_11:

(1, 6744), (8, 6900), (Start: 17 @6942 has 61 MA's), (52, 7281), (53, 7320), (59, 7470), (62, 7488),

Gene: Tigress9_11 Start: 6224, Stop: 6796, Start Num: 17

Candidate Starts for Tigress9_11:

(7, 6185), (Start: 17 @6224 has 61 MA's), (45, 6512), (52, 6563), (53, 6602), (62, 6770), (63, 6779),

Gene: TiniBug_12 Start: 7263, Stop: 7805, Start Num: 16

Candidate Starts for TiniBug_12:

(Start: 16 @7263 has 70 MA's), (38, 7398), (52, 7566), (59, 7761), (62, 7779), (63, 7788),

Gene: Tiri_12 Start: 7324, Stop: 7866, Start Num: 16

Candidate Starts for Tiri_12:

(Start: 16 @7324 has 70 MA's), (38, 7459), (52, 7627), (59, 7822), (62, 7840), (63, 7849),

Gene: TootsiePop_6 Start: 4412, Stop: 4948, Start Num: 23

Candidate Starts for TootsiePop_6:

(Start: 23 @4412 has 61 MA's), (43, 4634), (49, 4703), (50, 4712), (52, 4730), (56, 4814), (63, 4931),

Gene: Tootsieroll_6 Start: 4408, Stop: 4944, Start Num: 23

Candidate Starts for Tootsieroll_6:

(Start: 23 @4408 has 61 MA's), (43, 4630), (49, 4699), (50, 4708), (56, 4810), (63, 4927),

Gene: Topper_12 Start: 7357, Stop: 7899, Start Num: 16

Candidate Starts for Topper_12:

(Start: 16 @7357 has 70 MA's), (38, 7492), (52, 7660), (59, 7855), (62, 7873), (63, 7882),

Gene: Torres_8 Start: 6589, Stop: 7137, Start Num: 17

Candidate Starts for Torres_8:

(Start: 17 @6589 has 61 MA's), (52, 6904), (59, 7093), (62, 7111),

Gene: Totinger_6 Start: 4409, Stop: 4945, Start Num: 23

Candidate Starts for Totinger_6:

(Start: 23 @4409 has 61 MA's), (43, 4631), (49, 4700), (50, 4709), (52, 4727), (56, 4811), (63, 4928),

Gene: TreyKay_12 Start: 7280, Stop: 7822, Start Num: 16

Candidate Starts for TreyKay_12:

(Start: 16 @7280 has 70 MA's), (38, 7415), (52, 7583), (59, 7778), (62, 7796), (63, 7805),

Gene: Trice_8 Start: 6589, Stop: 7137, Start Num: 17

Candidate Starts for Trice_8:

(Start: 17 @6589 has 61 MA's), (52, 6904), (59, 7093), (62, 7111),

Gene: TruffulaTree_12 Start: 7310, Stop: 7852, Start Num: 16

Candidate Starts for TruffulaTree_12:

(Start: 16 @7310 has 70 MA's), (38, 7445), (52, 7613), (59, 7808), (62, 7826), (63, 7835),

Gene: Twitch_12 Start: 7357, Stop: 7899, Start Num: 16

Candidate Starts for Twitch_12:

(Start: 16 @7357 has 70 MA's), (38, 7492), (52, 7660), (59, 7855), (62, 7873), (63, 7882),

Gene: UncleRicky_6 Start: 4408, Stop: 4944, Start Num: 23

Candidate Starts for UncleRicky_6:

(Start: 23 @4408 has 61 MA's), (43, 4630), (49, 4699), (50, 4708), (56, 4810), (63, 4927),

Gene: Unicorn_11 Start: 6278, Stop: 6850, Start Num: 17

Candidate Starts for Unicorn_11:

(1, 6080), (8, 6236), (Start: 17 @6278 has 61 MA's), (52, 6617), (53, 6656), (59, 6806), (62, 6824),

Gene: Urkel_12 Start: 7263, Stop: 7805, Start Num: 16

Candidate Starts for Urkel_12:

(Start: 16 @7263 has 70 MA's), (38, 7398), (52, 7566), (59, 7761), (62, 7779), (63, 7788),

Gene: Validus_12 Start: 6293, Stop: 6850, Start Num: 13

Candidate Starts for Validus_12:

(Start: 13 @6293 has 1 MA's), (38, 6446), (52, 6614), (62, 6824),

Gene: Veliki_12 Start: 7357, Stop: 7899, Start Num: 16

Candidate Starts for Veliki_12:

(Start: 16 @7357 has 70 MA's), (38, 7492), (52, 7660), (59, 7855), (62, 7873), (63, 7882),

Gene: Velveteen_6 Start: 4408, Stop: 4944, Start Num: 23

Candidate Starts for Velveteen_6:

(Start: 23 @4408 has 61 MA's), (43, 4630), (49, 4699), (50, 4708), (56, 4810), (63, 4927),

Gene: Waterfoul_10 Start: 7396, Stop: 7905, Start Num: 29

Candidate Starts for Waterfoul_10:

(5, 7276), (9, 7315), (Start: 21 @7360 has 2 MA's), (Start: 25 @7381 has 3 MA's), (Start: 29 @7396 has 5 MA's), (31, 7408), (52, 7681),

Gene: Wintermute_13 Start: 8533, Stop: 9105, Start Num: 17

Candidate Starts for Wintermute_13:

(Start: 17 @8533 has 61 MA's), (46, 8821), (52, 8866),

Gene: Ximenita_12 Start: 6410, Stop: 6994, Start Num: 17

Candidate Starts for Ximenita_12:

(Start: 17 @6410 has 61 MA's), (43, 6659), (45, 6710), (52, 6761), (53, 6800), (63, 6977),

Gene: Y10_13 Start: 8533, Stop: 9105, Start Num: 17

Candidate Starts for Y10_13:

(Start: 17 @8533 has 61 MA's), (46, 8821), (52, 8866),

Gene: Y2_13 Start: 8533, Stop: 9105, Start Num: 17

Candidate Starts for Y2_13:

(Start: 17 @8533 has 61 MA's), (46, 8821), (52, 8866),

Gene: YasnayaPolyana_13 Start: 8534, Stop: 9106, Start Num: 17

Candidate Starts for YasnayaPolyana_13:

(Start: 17 @8534 has 61 MA's), (46, 8822), (52, 8867),

Gene: Yuna_12 Start: 6421, Stop: 6981, Start Num: 19

Candidate Starts for Yuna_12:

(Start: 19 @6421 has 1 MA's), (53, 6781), (62, 6955), (63, 6964),

Gene: Yunkel11_12 Start: 6279, Stop: 6812, Start Num: 20

Candidate Starts for Yunkel11_12:

(Start: 18 @6273 has 1 MA's), (Start: 20 @6279 has 3 MA's), (38, 6408), (52, 6576), (62, 6786), (63, 6795),

Gene: Zabiza_12 Start: 7313, Stop: 7855, Start Num: 16

Candidate Starts for Zabiza_12:

(Start: 16 @7313 has 70 MA's), (38, 7448), (52, 7616), (59, 7811), (62, 7829), (63, 7838),

Gene: Zavala_12 Start: 7295, Stop: 7837, Start Num: 16

Candidate Starts for Zavala_12:

(Start: 16 @7295 has 70 MA's), (38, 7430), (52, 7598), (59, 7793), (62, 7811), (63, 7820),

Gene: ZoeJ_8 Start: 5306, Stop: 5842, Start Num: 22

Candidate Starts for ZoeJ_8:

(Start: 22 @5306 has 10 MA's), (50, 5603), (52, 5621), (62, 5816),