Pham 290803

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 290803 Report

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

Pham number 290803 has 251 members, 32 are drafts.

Phages represented in each track:
• Track 1 : Olga_21, Halo_21, DNAIII_0021, Jolene_21, Phreak_21, BPs_21, AzulaCat_21, Jeilious_21, BruceB_21, Angel_21, Aroostook_21, Richarlison_21, DingDing_21, Crespo_21, Cedasite_21, Sweets_21, ECartman_21, Plagueis_21, GoldenAsh_21, Annihilator_21, Zombie_21, Maliketh_21, Hope_21, Kareem_21, Peeb_21, MZKinsey_21, OctaviousRex_21, Frosty24_21, Phloodle_21, ShaboiShabazz_21, Cherrybomb426_21, Chance64_21, DMoney_21, LouisV14_21, Ruriko_21, Camri_21, Renaissance_21, Gideon_21, Liefie_21, TomBrady_21, Mowgli_21, Coleslaw_21, Neoh_21, AizenPogi_21, Jonghyun_21, Gomashi_21, Kasen3_21, Marmie_21, Sizemore_21, PinkYoshi_21, Hotshotbaby7_21, Darionha_21, JorRay_21, Phish_21, BQuat_21, Rattrick_21, Jane_21, Remy19_21, Periodt_21, CassieYates_21, CLED96_21, Avrafan_21, TinaBug_21, ZoMa_21, Schiebel_21, Wendigo_21
• Track 2 : Sneeze_21, Rabbs_21
• Track 3 : Terror_21, Taheera_21
• Track 4 : Grizzly_21, Barkley26_21
• Track 5 : Paito_21
• Track 6 : FlagStaff_21, Pace1224_21
• Track 7 : Avocado_21, Cambiare_22
• Track 8 : GodSpeed_22
• Track 9 : Cloudyecho_21
• Track 10 : MOOREtheMARYer_22
• Track 11 : Pinnie_22
• Track 12 : Mercurio_23
• Track 13 : Lemuria_22
• Track 14 : Jolie2_21
• Track 15 : Antsirabe_21
• Track 16 : YangYin_21, Stargaze_21
• Track 17 : BaghaKamala_26, Durfee_26, Apocalypse_26, BarrelRoll_26, Efra2_26, Slimphazie_26, Murucutumbu_26, Boiiii_26, YoureAdopted_25, Joy99_26, Dole_26, Belladonna_26, Sulley_26, Peel_26, CheetoDust_26, Jarvi_26, Adonis_26, Piatt_26, Blizzard_26, Padfoot_26, Angelica_26, Zavala_26, Topper_26, HedwigODU_26, Jayhawk_26, Dalmuri_26, Mynx_26, Asayake_26, Inky_26, JAWS_26, Illumine_26, Guanica15_26, Capricorn_26, Jeckyll_26, BGlluviae_26, Spock_26, Curiosium_27, CREW_26, MeaningOfLife_26, Ganymede_27, CallaLilly_26, ActinUp_26, CaseJules_26, Veliki_26, CrimD_26, AlishaPH_26, Padpat_26, Beezoo_26, Yunkel11_26, Twitch_26, Devera_26, Zabiza_26, Emerson_26, Atiba_26, Geraldini_26, Ramen_26, Tiri_26, Rapunzel97_26, Hyperbowlee_26, MacKat_26,

Pokerus_25, Homura_26, BEEST_26, Adephagia_26, Tachez_26, Lunahalos_26, Clipper_26, QuincyRose_25, Rosmarinus_26, Deby_26, ShiaSurprise_26, Llorens_26
• Track 18 : Mdavu_22, Teejan_22, Trice_22, Enkosi_22, Biglebops_22, LilPharaoh_22, Amelie_22, Nikao_22, SgtBeansprout_22, Torres_22, Nutello_22
• Track 19 : MarkPhew_26
• Track 20 : Chavito_26
• Track 21 : LindNT_26, TaiwanKao_27, Anaya_27, TreyKay_26, Prithvi_26, Megsy_26
• Track 22 : McMater_26, Peanam_26, Dartin_26, Richo_26, Niklas_26, Shaobing_26
• Track 23 : Bern_26, Pisa1_25, Pisa4_25
• Track 24 : KiSi_25, LeMond_25, Scarlett_25, Oscar_25
• Track 25 : TingHuaYa_26, LastHope_26
• Track 26 : Stinson_27
• Track 27 : Nibb_25
• Track 28 : Chris_25
• Track 29 : TruffulaTree_26
• Track 30 : Validus_26
• Track 31 : Omnicron_25
• Track 32 : Edugator_24, Neighly_25, Larva_25, Dadosky_25, Psycho_25, AlleyCat_25
• Track 33 : ViviJ_23, SoSeph_24, LilDirt_23, Heftyboy_24, Guillsminger_24, Collard_24, BananenDer11_24, Kratio_23, DoubleChamp_24, Feyre_24, Leston_24, InvictusManeo_24, Agent47_24, OkiRoe_24, Paola_24
• Track 34 : Rando14_25
• Track 35 : Thyatira_24, Waterfoul_24, Miryou_24
• Track 36 : Gengar_24
• Track 37 : Ekdilam_23
• Track 38 : Phrank_25, Bryler_25, Tierra_25, PhelpsODU_25, Cain_25, Unicorn_25
• Track 39 : Syra333_25, Ximenita_26
• Track 40 : DarthP_25, Amohnition_25, Hammy_25
• Track 41 : Sunflower1121_24, Shadow1_24
• Track 42 : TClif_25
• Track 43 : November_24
• Track 44 : Tigress9_26, Krueger_25
• Track 45 : Yuna_27
• Track 46 : Amgine_24, Lavahound_24, Fefferhead_25, Ellie_23, Applecrisp_24
• Track 47 : SirPhilip_25
• Track 48 : Marshawn_27

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

The start number called the most often in the published annotations is 21, it was called in 152 of the 219 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• ActinUp_26, Adephagia_26, Adonis_26, Agent47_24, AlishaPH_26, AlleyCat_25, Amelie_22, Amgine_24, Amohnition_25, Anaya_27, Angelica_26, Antsirabe_21, Apocalypse_26, Applecrisp_24, Asayake_26, Atiba_26, BEEST_26, BGIluviae_26, BaghaKamala_26, BananenDer11_24, BarrelRoll_26, Beezoo_26, Belladonna_26,

Bern_26, Biglebops_22, Blizzard_26, Boiiii_26, Bryler_25, CREW_26, Cain_25, CallaLilly_26, Capricorn_26, CaseJules_26, Chavito_26, CheetoDust_26, Chris_25, Clipper_26, Cloudyecho_21, Collard_24, CrimD_26, Curiosium_27, Dadosky_25, Dalmuri_26, DarthP_25, Dartin_26, Deby_26, Devera_26, Dole_26, DoubleChamp_24, Durfee_26, Edugator_24, Efra2_26, Ekdilam_23, Ellie_23, Emerson_26, Enkosi_22, Fefferhead_25, Feyre_24, Ganymede_27, Gengar_24, Geraldini_26, Guanica15_26, Guillsminger_24, Hammy_25, HedwigODU_26, Heftyboy_24, Homura_26, Hyperbowlee_26, Illumine_26, Inky_26, InvictusManeo_24, JAWS_26, Jarvi_26, Jayhawk_26, Jeckyll_26, Joy99_26, KiSi_25, Kratio_23, Krueger_25, Larva_25, LastHope_26, Lavahound_24, LeMond_25, Leston_24, LilDirt_23, LilPharaoh_22, LindNT_26, Llorens_26, Lunahalos_26, MOOREtheMARYer_22, MacKat_26, MarkPhew_26, Marshawn_27, McMater_26, Mdavu_22, MeaningOfLife_26, Megsy_26, Miryou_24, Murucutumbu_26, Mynx_26, Neighly_25, Nibb_25, Nikao_22, Niklas_26, November_24, Nutello_22, OkiRoe_24, Omnicron_25, Oscar_25, Padfoot_26, Padpat_26, Paola_24, Peanam_26, Peel_26, PhelpsODU_25, Phrank_25, Piatt_26, Pinnie_22, Pisa1_25, Pisa4_25, Pokerus_25, Prithvi_26, Psycho_25, QuincyRose_25, Ramen_26, Rando14_25, Rapunzel97_26, Richo_26, Rosmarinus_26, Scarlett_25, SgtBeansprout_22, Shadow1_24, Shaobing_26, ShiaSurprise_26, SirPhilip_25, Slimphazie_26, SoSeph_24, Spock_26, Stargaze_21, Stinson_27, Sulley_26, Sunflower1121_24, Syra333_25, TClif_25, Tachez_26, TaiwanKao_27, Teejan_22, Thyatira_24, Tierra_25, Tigress9_26, TingHuaYa_26, Tiri_26, Topper_26, Torres_22, TreyKay_26, Trice_22, TruffulaTree_26, Twitch_26, Unicorn_25, Validus_26, Veliki_26, ViviJ_23, Waterfoul_24, Ximenita_26, YangYin_21, YoureAdopted_25, Yuna_27, Yunkel11_26, Zabiza_26, Zavala_26,

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

Genes that do not have the "Most Annotated" start:
• AizenPogi_21, Angel_21, Annihilator_21, Aroostook_21, Avocado_21, Avrafan_21, AzulaCat_21, BPs_21, BQuat_21, Barkley26_21, BruceB_21, CLED96_21, Cambiare_22, Camri_21, CassieYates_21, Cedasite_21, Chance64_21, Cherrybomb426_21, Coleslaw_21, Crespo_21, DMoney_21, DNAIII_0021, Darionha_21, DingDing_21, ECartman_21, FlagStaff_21, Frosty24_21, Gideon_21, GodSpeed_22, GoldenAsh_21, Gomashi_21, Grizzly_21, Halo_21, Hope_21, Hotshotbaby7_21, Jane_21, Jeilious_21, Jolene_21, Jolie2_21, Jonghyun_21, JorRay_21, Kareem_21, Kasen3_21, Lemuria_22, Liefie_21, LouisV14_21, MZKinsey_21, Maliketh_21, Marmie_21, Mercurio_23, Mowgli_21, Neoh_21, OctaviousRex_21, Olga_21, Pace1224_21, Paito_21, Peeb_21, Periodt_21, Phish_21, Phloodle_21, Phreak_21, PinkYoshi_21, Plagueis_21, Rabbs_21, Rattrick_21, Remy19_21, Renaissance_21, Richarlison_21, Ruriko_21, Schiebel_21, ShaboiShabazz_21, Sizemore_21, Sneeze_21, Sweets_21, Taheera_21, Terror_21, TinaBug_21, TomBrady_21, Wendigo_21, ZoMa_21, Zombie_21,

Summary by start number:

Start 16:
• Found in 5 of 251 (2.0%) of genes in pham
• Manual Annotations of this start: 3 of 219
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Avocado_21 (G2), Cambiare_22 (G2), FlagStaff_21 (G2), GodSpeed_22 (G2), Pace1224_21 (G2),

Start 18:
• Found in 3 of 251 (1.2%) of genes in pham
• Manual Annotations of this start: 2 of 219
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Jolie2_21 (G4), Lemuria_22 (G4), Mercurio_23 (G4),

Start 19:
• Found in 73 of 251 (29.1%) of genes in pham
• Manual Annotations of this start: 62 of 219
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AizenPogi_21 (G1), Angel_21 (G1), Annihilator_21 (G1), Aroostook_21 (G1), Avrafan_21 (G1), AzulaCat_21 (G1), BPs_21 (G1), BQuat_21 (G1), Barkley26_21 (G1), BruceB_21 (G1), CLED96_21 (G1), Camri_21 (G1), CassieYates_21 (G1), Cedasite_21 (G1), Chance64_21 (G1), Cherrybomb426_21 (G1), Coleslaw_21 (G1), Crespo_21 (G1), DMoney_21 (G1), DNAIII_0021 (G1), Darionha_21 (G1), DingDing_21 (G1), ECartman_21 (G1), Frosty24_21 (G1), Gideon_21 (G1), GoldenAsh_21 (G1), Gomashi_21 (G1), Grizzly_21 (G1), Halo_21 (G1), Hope_21 (G1), Hotshotbaby7_21 (G1), Jane_21 (G1), Jeilious_21 (G), Jolene_21 (G1), Jonghyun_21 (G1), JorRay_21 (G1), Kareem_21 (G1), Kasen3_21 (G1), Liefie_21 (G1), LouisV14_21 (G1), MZKinsey_21 (G1), Maliketh_21 (G1), Marmie_21 (G1), Mowgli_21 (G1), Neoh_21 (G), OctaviousRex_21 (G1), Olga_21 (G1), Paito_21 (G1), Peeb_21 (G1), Periodt_21 (G1), Phish_21 (G1), Phloodle_21 (G1), Phreak_21 (G1), PinkYoshi_21 (G1), Plagueis_21 (G1), Rabbs_21 (G1), Rattrick_21 (G1), Remy19_21 (G1), Renaissance_21 (G1), Richarlison_21 (G1), Ruriko_21 (G1), Schiebel_21 (G1), ShaboiShabazz_21 (G1), Sizemore_21 (G1), Sneeze_21 (G1), Sweets_21 (G1), Taheera_21 (G1), Terror_21 (G1), TinaBug_21 (G1), TomBrady_21 (G1), Wendigo_21 (G1), ZoMa_21 (G1), Zombie_21 (G1),

Start 21:
• Found in 170 of 251 (67.7%) of genes in pham
• Manual Annotations of this start: 152 of 219
• Called 100.0% of time when present
• Phage (with cluster) where this start called: ActinUp_26 (K1), Adephagia_26 (K1), Adonis_26 (K1), Agent47_24 (K5), AlishaPH_26 (K1), AlleyCat_25 (K5), Amelie_22 (K1), Amgine_24 (K6), Amohnition_25 (K6), Anaya_27 (K1), Angelica_26 (K1), Antsirabe_21 (G5), Apocalypse_26 (K1), Applecrisp_24 (K6), Asayake_26 (K1), Atiba_26 (K1), BEEST_26 (K1), BGlluviae_26 (K1), BaghaKamala_26 (K1), BananenDer11_24 (K5), BarrelRoll_26 (K1), Beezoo_26 (K1), Belladonna_26 (K1), Bern_26 (K1), Biglebops_22 (K1), Blizzard_26 (K1), Boiiii_26 (K1), Bryler_25 (K6), CREW_26 (K1), Cain_25 (K6), CallaLilly_26 (K1), Capricorn_26 (K1), CaseJules_26 (K1), Chavito_26 (K1), CheetoDust_26 (K1), Chris_25 (K1), Clipper_26 (K1), Cloudyecho_21 (G3), Collard_24 (K5), CrimD_26 (K1), Curiosium_27 (K1), Dadosky_25 (K5), Dalmuri_26 (K1), DarthP_25 (K6), Dartin_26 (K1), Deby_26 (K1), Devera_26 (K1), Dole_26 (K1), DoubleChamp_24 (K5), Durfee_26 (K1), Edugator_24 (K5), Efra2_26 (K1), Ekdilam_23 (K6), Ellie_23 (K6), Emerson_26 (K1), Enkosi_22 (K1), Fefferhead_25 (K6), Feyre_24 (K5), Ganymede_27 (K1), Gengar_24 (K5), Geraldini_26 (K1), Guanica15_26 (K1), Guillsminger_24 (K5), Hammy_25 (K6), HedwigODU_26 (K1), Heftyboy_24 (K5), Homura_26 (K1), Hyperbowlee_26 (K1), Illumine_26 (K1), Inky_26 (K1), InvictusManeo_24 (K5), JAWS_26 (K1), Jarvi_26 (K1), Jayhawk_26 (K1), Jeckyll_26 (K1), Joy99_26 (K1), KiSi_25 (K1), Kratio_23 (K5),

Krueger_25 (K6), Larva_25 (K5), LastHope_26 (K1), Lavahound_24 (K6), LeMond_25 (K1), Leston_24 (K5), LilDirt_23 (K5), LilPharaoh_22 (K1), LindNT_26 (K1), Llorens_26 (K1), Lunahalos_26 (K1), MOOREtheMARYer_22 (G3), MacKat_26 (K1), MarkPhew_26 (K1), Marshawn_27 (K6), McMater_26 (K1), Mdavu_22 (K1), MeaningOfLife_26 (K1), Megsy_26 (K1), Miryou_24 (K5), Murucutumbu_26 (K1), Mynx_26 (K1), Neighly_25 (K3), Nibb_25 (K1), Nikao_22 (K1), Niklas_26 (K1), November_24 (K6), Nutello_22 (K1), OkiRoe_24 (K5), Omnicron_25 (K5), Oscar_25 (K1), Padfoot_26 (K1), Padpat_26 (K1), Paola_24 (K5), Peanam_26 (K1), Peel_26 (K1), PhelpsODU_25 (K6), Phrank_25 (K6), Piatt_26 (K1), Pinnie_22 (G3), Pisa1_25 (K1), Pisa4_25 (K1), Pokerus_25 (K1), Prithvi_26 (K1), Psycho_25 (K5), QuincyRose_25 (K1), Ramen_26 (K1), Rando14_25 (K5), Rapunzel97_26 (K1), Richo_26 (K1), Rosmarinus_26 (K1), Scarlett_25 (K1), SgtBeansprout_22 (K1), Shadow1_24 (K6), Shaobing_26 (K1), ShiaSurprise_26 (K1), SirPhilip_25 (K6), Slimphazie_26 (K1), SoSeph_24 (K5), Spock_26 (K1), Stargaze_21 (G5), Stinson_27 (K1), Sulley_26 (K1), Sunflower1121_24 (K6), Syra333_25 (K6), TClif_25 (K6), Tachez_26 (K1), TaiwanKao_27 (K1), Teejan_22 (K1), Thyatira_24 (K5), Tierra_25 (K6), Tigress9_26 (K6), TingHuaYa_26 (K1), Tiri_26 (K1), Topper_26 (K1), Torres_22 (K1), TreyKay_26 (K1), Trice_22 (K1), TruffulaTree_26 (K1), Twitch_26 (K1), Unicorn_25 (K6), Validus_26 (K1), Veliki_26 (K1), ViviJ_23 (K5), Waterfoul_24 (K5), Ximenita_26 (K6), YangYin_21 (G5), YoureAdopted_25 (K1), Yuna_27 (K6), Yunkel11_26 (K1), Zabiza_26 (K1), Zavala_26 (K1),

Summary by clusters:

There are 10 clusters represented in this pham: G5, G, G3, G2, G1, K3, K1, G4, K6, K5,

Info for manual annotations of cluster G1:
•Start number 19 was manually annotated 62 times for cluster G1.

Info for manual annotations of cluster G2:
•Start number 16 was manually annotated 3 times for cluster G2.

Info for manual annotations of cluster G3:
•Start number 21 was manually annotated 2 times for cluster G3.

Info for manual annotations of cluster G4:
•Start number 18 was manually annotated 2 times for cluster G4.

Info for manual annotations of cluster G5:
•Start number 21 was manually annotated 2 times for cluster G5.

Info for manual annotations of cluster K1:
•Start number 21 was manually annotated 101 times for cluster K1.

Info for manual annotations of cluster K5:
•Start number 21 was manually annotated 23 times for cluster K5.

Info for manual annotations of cluster K6:
•Start number 21 was manually annotated 24 times for cluster K6.

Gene Information:

Gene: ActinUp_26 Start: 20572, Stop: 20880, Start Num: 21
Candidate Starts for ActinUp_26:
(Start: 21 @20572 has 152 MA's), (23, 20602), (35, 20680), (39, 20716),

Gene: Adephagia_26 Start: 20569, Stop: 20877, Start Num: 21
Candidate Starts for Adephagia_26:
(Start: 21 @20569 has 152 MA's), (23, 20599), (35, 20677), (39, 20713),

Gene: Adonis_26 Start: 20575, Stop: 20883, Start Num: 21
Candidate Starts for Adonis_26:
(Start: 21 @20575 has 152 MA's), (23, 20605), (35, 20683), (39, 20719),

Gene: Agent47_24 Start: 20955, Stop: 21272, Start Num: 21
Candidate Starts for Agent47_24:
(Start: 21 @20955 has 152 MA's), (36, 21069), (39, 21099), (41, 21126), (57, 21246),

Gene: AizenPogi_21 Start: 20008, Stop: 20442, Start Num: 19
Candidate Starts for AizenPogi_21:
(Start: 19 @20008 has 62 MA's), (23, 20059), (24, 20065), (31, 20134), (40, 20233), (42, 20254),

Gene: AlishaPH_26 Start: 20562, Stop: 20870, Start Num: 21
Candidate Starts for AlishaPH_26:
(Start: 21 @20562 has 152 MA's), (23, 20592), (35, 20670), (39, 20706),

Gene: AlleyCat_25 Start: 20892, Stop: 21209, Start Num: 21
Candidate Starts for AlleyCat_25:
(Start: 21 @20892 has 152 MA's), (36, 21006), (41, 21063), (57, 21183),

Gene: Amelie_22 Start: 20111, Stop: 20413, Start Num: 21
Candidate Starts for Amelie_22:
(Start: 21 @20111 has 152 MA's), (35, 20219), (36, 20225), (39, 20255), (53, 20375),

Gene: Amgine_24 Start: 20660, Stop: 20974, Start Num: 21
Candidate Starts for Amgine_24:
(Start: 21 @20660 has 152 MA's), (31, 20720), (39, 20804), (55, 20951), (56, 20954),

Gene: Amohnition_25 Start: 21059, Stop: 21373, Start Num: 21
Candidate Starts for Amohnition_25:
(2, 20558), (3, 20579), (4, 20711), (8, 20852), (Start: 21 @21059 has 152 MA's), (31, 21119), (32, 21122), (39, 21203), (55, 21350), (56, 21353),

Gene: Anaya_27 Start: 20588, Stop: 20896, Start Num: 21
Candidate Starts for Anaya_27:
(Start: 21 @20588 has 152 MA's), (23, 20618), (35, 20696), (39, 20732), (48, 20816),

Gene: Angel_21 Start: 20008, Stop: 20442, Start Num: 19
Candidate Starts for Angel_21:
(Start: 19 @20008 has 62 MA's), (23, 20059), (24, 20065), (31, 20134), (40, 20233), (42, 20254),

Gene: Angelica_26 Start: 20537, Stop: 20845, Start Num: 21
Candidate Starts for Angelica_26:
(Start: 21 @20537 has 152 MA's), (23, 20567), (35, 20645), (39, 20681),

Gene: Annihilator_21 Start: 19999, Stop: 20433, Start Num: 19
Candidate Starts for Annihilator_21:
(Start: 19 @19999 has 62 MA's), (23, 20050), (24, 20056), (31, 20125), (40, 20224), (42, 20245),

Gene: Antsirabe_21 Start: 20386, Stop: 20760, Start Num: 21
Candidate Starts for Antsirabe_21:
(13, 20305), (Start: 21 @20386 has 152 MA's), (34, 20503), (41, 20575),

Gene: Apocalypse_26 Start: 20540, Stop: 20848, Start Num: 21
Candidate Starts for Apocalypse_26:
(Start: 21 @20540 has 152 MA's), (23, 20570), (35, 20648), (39, 20684),

Gene: Applecrisp_24 Start: 21074, Stop: 21388, Start Num: 21
Candidate Starts for Applecrisp_24:
(Start: 21 @21074 has 152 MA's), (31, 21134), (39, 21218), (55, 21365), (56, 21368),

Gene: Aroostook_21 Start: 20008, Stop: 20442, Start Num: 19
Candidate Starts for Aroostook_21:
(Start: 19 @20008 has 62 MA's), (23, 20059), (24, 20065), (31, 20134), (40, 20233), (42, 20254),

Gene: Asayake_26 Start: 20603, Stop: 20911, Start Num: 21
Candidate Starts for Asayake_26:
(Start: 21 @20603 has 152 MA's), (23, 20633), (35, 20711), (39, 20747),

Gene: Atiba_26 Start: 20532, Stop: 20840, Start Num: 21
Candidate Starts for Atiba_26:
(Start: 21 @20532 has 152 MA's), (23, 20562), (35, 20640), (39, 20676),

Gene: Avocado_21 Start: 20322, Stop: 20762, Start Num: 16
Candidate Starts for Avocado_21:
(Start: 16 @20322 has 3 MA's), (22, 20379), (25, 20406), (30, 20463), (43, 20589), (46, 20607), (52, 20655),

Gene: Avrafan_21 Start: 20008, Stop: 20442, Start Num: 19
Candidate Starts for Avrafan_21:
(Start: 19 @20008 has 62 MA's), (23, 20059), (24, 20065), (31, 20134), (40, 20233), (42, 20254),

Gene: AzulaCat_21 Start: 20008, Stop: 20442, Start Num: 19
Candidate Starts for AzulaCat_21:
(Start: 19 @20008 has 62 MA's), (23, 20059), (24, 20065), (31, 20134), (40, 20233), (42, 20254),

Gene: BEEST_26 Start: 20603, Stop: 20911, Start Num: 21
Candidate Starts for BEEST_26:
(Start: 21 @20603 has 152 MA's), (23, 20633), (35, 20711), (39, 20747),

Gene: BGlluviae_26 Start: 20603, Stop: 20911, Start Num: 21
Candidate Starts for BGlluviae_26:
(Start: 21 @20603 has 152 MA's), (23, 20633), (35, 20711), (39, 20747),

Gene: BPs_21 Start: 20008, Stop: 20442, Start Num: 19
Candidate Starts for BPs_21:
(Start: 19 @20008 has 62 MA's), (23, 20059), (24, 20065), (31, 20134), (40, 20233), (42, 20254),

Gene: BQuat_21 Start: 19999, Stop: 20433, Start Num: 19
Candidate Starts for BQuat_21:
(Start: 19 @19999 has 62 MA's), (23, 20050), (24, 20056), (31, 20125), (40, 20224), (42, 20245),

Gene: BaghaKamala_26 Start: 20532, Stop: 20840, Start Num: 21
Candidate Starts for BaghaKamala_26:
(Start: 21 @20532 has 152 MA's), (23, 20562), (35, 20640), (39, 20676),

Gene: BananenDer11_24 Start: 20916, Stop: 21233, Start Num: 21
Candidate Starts for BananenDer11_24:
(Start: 21 @20916 has 152 MA's), (36, 21030), (39, 21060), (41, 21087), (57, 21207),

Gene: Barkley26_21 Start: 20012, Stop: 20446, Start Num: 19
Candidate Starts for Barkley26_21:
(3, 19532), (8, 19805), (Start: 19 @20012 has 62 MA's), (24, 20069), (25, 20087), (31, 20138), (40, 20237), (42, 20258), (54, 20354),

Gene: BarrelRoll_26 Start: 20555, Stop: 20863, Start Num: 21
Candidate Starts for BarrelRoll_26:
(Start: 21 @20555 has 152 MA's), (23, 20585), (35, 20663), (39, 20699),

Gene: Beezoo_26 Start: 20579, Stop: 20887, Start Num: 21
Candidate Starts for Beezoo_26:
(Start: 21 @20579 has 152 MA's), (23, 20609), (35, 20687), (39, 20723),

Gene: Belladonna_26 Start: 20603, Stop: 20911, Start Num: 21
Candidate Starts for Belladonna_26:
(Start: 21 @20603 has 152 MA's), (23, 20633), (35, 20711), (39, 20747),

Gene: Bern_26 Start: 20523, Stop: 20831, Start Num: 21
Candidate Starts for Bern_26:
(Start: 21 @20523 has 152 MA's), (35, 20631), (39, 20667), (48, 20751),

Gene: Biglebops_22 Start: 20111, Stop: 20413, Start Num: 21
Candidate Starts for Biglebops_22:
(Start: 21 @20111 has 152 MA's), (35, 20219), (36, 20225), (39, 20255), (53, 20375),

Gene: Blizzard_26 Start: 20603, Stop: 20911, Start Num: 21
Candidate Starts for Blizzard_26:
(Start: 21 @20603 has 152 MA's), (23, 20633), (35, 20711), (39, 20747),

Gene: Boiiii_26 Start: 20605, Stop: 20913, Start Num: 21
Candidate Starts for Boiiii_26:
(Start: 21 @20605 has 152 MA's), (23, 20635), (35, 20713), (39, 20749),

Gene: BruceB_21 Start: 20008, Stop: 20442, Start Num: 19
Candidate Starts for BruceB_21:
(Start: 19 @20008 has 62 MA's), (23, 20059), (24, 20065), (31, 20134), (40, 20233), (42, 20254),

Gene: Bryler_25 Start: 19758, Stop: 20069, Start Num: 21
Candidate Starts for Bryler_25:
(Start: 21 @19758 has 152 MA's), (31, 19818), (39, 19902), (51, 20004),

Gene: CLED96_21 Start: 20008, Stop: 20442, Start Num: 19
Candidate Starts for CLED96_21:
(Start: 19 @20008 has 62 MA's), (23, 20059), (24, 20065), (31, 20134), (40, 20233), (42, 20254),

Gene: CREW_26 Start: 20603, Stop: 20911, Start Num: 21
Candidate Starts for CREW_26:
(Start: 21 @20603 has 152 MA's), (23, 20633), (35, 20711), (39, 20747),

Gene: Cain_25 Start: 19746, Stop: 20057, Start Num: 21
Candidate Starts for Cain_25:
(Start: 21 @19746 has 152 MA's), (31, 19806), (39, 19890), (51, 19992),

Gene: CallaLilly_26 Start: 20526, Stop: 20834, Start Num: 21
Candidate Starts for CallaLilly_26:
(Start: 21 @20526 has 152 MA's), (23, 20556), (35, 20634), (39, 20670),

Gene: Cambiare_22 Start: 20787, Stop: 21227, Start Num: 16
Candidate Starts for Cambiare_22:
(Start: 16 @20787 has 3 MA's), (22, 20844), (25, 20871), (30, 20928), (43, 21054), (46, 21072), (52, 21120),

Gene: Camri_21 Start: 20008, Stop: 20442, Start Num: 19
Candidate Starts for Camri_21:
(Start: 19 @20008 has 62 MA's), (23, 20059), (24, 20065), (31, 20134), (40, 20233), (42, 20254),

Gene: Capricorn_26 Start: 20603, Stop: 20911, Start Num: 21
Candidate Starts for Capricorn_26:
(Start: 21 @20603 has 152 MA's), (23, 20633), (35, 20711), (39, 20747),

Gene: CaseJules_26 Start: 20603, Stop: 20911, Start Num: 21
Candidate Starts for CaseJules_26:
(Start: 21 @20603 has 152 MA's), (23, 20633), (35, 20711), (39, 20747),

Gene: CassieYates_21 Start: 20008, Stop: 20442, Start Num: 19
Candidate Starts for CassieYates_21:
(Start: 19 @20008 has 62 MA's), (23, 20059), (24, 20065), (31, 20134), (40, 20233), (42, 20254),

Gene: Cedasite_21 Start: 20008, Stop: 20442, Start Num: 19
Candidate Starts for Cedasite_21:
(Start: 19 @20008 has 62 MA's), (23, 20059), (24, 20065), (31, 20134), (40, 20233), (42, 20254),

Gene: Chance64_21 Start: 20008, Stop: 20442, Start Num: 19
Candidate Starts for Chance64_21:
(Start: 19 @20008 has 62 MA's), (23, 20059), (24, 20065), (31, 20134), (40, 20233), (42, 20254),

Gene: Chavito_26 Start: 19940, Stop: 20242, Start Num: 21
Candidate Starts for Chavito_26:
(Start: 21 @19940 has 152 MA's), (24, 19976), (31, 20000), (35, 20048), (36, 20054), (39, 20084),

Gene: CheetoDust_26 Start: 20580, Stop: 20888, Start Num: 21
Candidate Starts for CheetoDust_26:
(Start: 21 @20580 has 152 MA's), (23, 20610), (35, 20688), (39, 20724),

Gene: Cherrybomb426_21 Start: 20008, Stop: 20442, Start Num: 19
Candidate Starts for Cherrybomb426_21:
(Start: 19 @20008 has 62 MA's), (23, 20059), (24, 20065), (31, 20134), (40, 20233), (42, 20254),

Gene: Chris_25 Start: 19832, Stop: 20134, Start Num: 21
Candidate Starts for Chris_25:
(7, 19604), (9, 19694), (10, 19715), (11, 19733), (17, 19808), (Start: 21 @19832 has 152 MA's), (32, 19895), (39, 19976), (47, 20039),

Gene: Clipper_26 Start: 20580, Stop: 20888, Start Num: 21
Candidate Starts for Clipper_26:
(Start: 21 @20580 has 152 MA's), (23, 20610), (35, 20688), (39, 20724),

Gene: Cloudyecho_21 Start: 20244, Stop: 20645, Start Num: 21
Candidate Starts for Cloudyecho_21:
(12, 20160), (13, 20163), (14, 20199), (Start: 21 @20244 has 152 MA's), (27, 20316), (37, 20421), (40, 20457), (42, 20478),

Gene: Coleslaw_21 Start: 19999, Stop: 20433, Start Num: 19
Candidate Starts for Coleslaw_21:
(Start: 19 @19999 has 62 MA's), (23, 20050), (24, 20056), (31, 20125), (40, 20224), (42, 20245),

Gene: Collard_24 Start: 20916, Stop: 21233, Start Num: 21
Candidate Starts for Collard_24:
(Start: 21 @20916 has 152 MA's), (36, 21030), (39, 21060), (41, 21087), (57, 21207),

Gene: Crespo_21 Start: 20009, Stop: 20443, Start Num: 19
Candidate Starts for Crespo_21:
(Start: 19 @20009 has 62 MA's), (23, 20060), (24, 20066), (31, 20135), (40, 20234), (42, 20255),

Gene: CrimD_26 Start: 20541, Stop: 20849, Start Num: 21
Candidate Starts for CrimD_26:
(Start: 21 @20541 has 152 MA's), (23, 20571), (35, 20649), (39, 20685),

Gene: Curiosium_27 Start: 20274, Stop: 20582, Start Num: 21
Candidate Starts for Curiosium_27:
(Start: 21 @20274 has 152 MA's), (23, 20304), (35, 20382), (39, 20418),

Gene: DMoney_21 Start: 20008, Stop: 20442, Start Num: 19
Candidate Starts for DMoney_21:
(Start: 19 @20008 has 62 MA's), (23, 20059), (24, 20065), (31, 20134), (40, 20233), (42, 20254),

Gene: DNAIII_0021 Start: 20017, Stop: 20451, Start Num: 19
Candidate Starts for DNAIII_0021:
(Start: 19 @20017 has 62 MA's), (23, 20068), (24, 20074), (31, 20143), (40, 20242), (42, 20263),

Gene: Dadosky_25 Start: 20893, Stop: 21210, Start Num: 21
Candidate Starts for Dadosky_25:
(Start: 21 @20893 has 152 MA's), (36, 21007), (41, 21064), (57, 21184),

Gene: Dalmuri_26 Start: 20603, Stop: 20911, Start Num: 21
Candidate Starts for Dalmuri_26:
(Start: 21 @20603 has 152 MA's), (23, 20633), (35, 20711), (39, 20747),

Gene: Darionha_21 Start: 20008, Stop: 20442, Start Num: 19
Candidate Starts for Darionha_21:
(Start: 19 @20008 has 62 MA's), (23, 20059), (24, 20065), (31, 20134), (40, 20233), (42, 20254),

Gene: DarthP_25 Start: 21005, Stop: 21319, Start Num: 21
Candidate Starts for DarthP_25:
(2, 20504), (3, 20525), (4, 20657), (8, 20798), (Start: 21 @21005 has 152 MA's), (31, 21065), (32, 21068), (39, 21149), (55, 21296), (56, 21299),

Gene: Dartin_26 Start: 19927, Stop: 20229, Start Num: 21
Candidate Starts for Dartin_26:
(Start: 21 @19927 has 152 MA's), (24, 19963), (31, 19987), (35, 20035), (36, 20041), (39, 20071),

Gene: Deby_26 Start: 20537, Stop: 20845, Start Num: 21
Candidate Starts for Deby_26:
(Start: 21 @20537 has 152 MA's), (23, 20567), (35, 20645), (39, 20681),

Gene: Devera_26 Start: 20585, Stop: 20893, Start Num: 21
Candidate Starts for Devera_26:
(Start: 21 @20585 has 152 MA's), (23, 20615), (35, 20693), (39, 20729),

Gene: DingDing_21 Start: 20008, Stop: 20442, Start Num: 19
Candidate Starts for DingDing_21:
(Start: 19 @20008 has 62 MA's), (23, 20059), (24, 20065), (31, 20134), (40, 20233), (42, 20254),

Gene: Dole_26 Start: 20587, Stop: 20895, Start Num: 21
Candidate Starts for Dole_26:
(Start: 21 @20587 has 152 MA's), (23, 20617), (35, 20695), (39, 20731),

Gene: DoubleChamp_24 Start: 20916, Stop: 21233, Start Num: 21
Candidate Starts for DoubleChamp_24:
(Start: 21 @20916 has 152 MA's), (36, 21030), (39, 21060), (41, 21087), (57, 21207),

Gene: Durfee_26 Start: 20603, Stop: 20911, Start Num: 21
Candidate Starts for Durfee_26:
(Start: 21 @20603 has 152 MA's), (23, 20633), (35, 20711), (39, 20747),

Gene: ECartman_21 Start: 20008, Stop: 20442, Start Num: 19
Candidate Starts for ECartman_21:
(Start: 19 @20008 has 62 MA's), (23, 20059), (24, 20065), (31, 20134), (40, 20233), (42, 20254),

Gene: Edugator_24 Start: 20892, Stop: 21209, Start Num: 21
Candidate Starts for Edugator_24:
(Start: 21 @20892 has 152 MA's), (36, 21006), (41, 21063), (57, 21183),

Gene: Efra2_26 Start: 19773, Stop: 20081, Start Num: 21
Candidate Starts for Efra2_26:
(Start: 21 @19773 has 152 MA's), (23, 19803), (35, 19881), (39, 19917),

Gene: Ekdilam_23 Start: 20770, Stop: 21084, Start Num: 21
Candidate Starts for Ekdilam_23:
(4, 20422), (8, 20563), (Start: 21 @20770 has 152 MA's), (31, 20830), (39, 20914), (51, 21016),

Gene: Ellie_23 Start: 20744, Stop: 21058, Start Num: 21
Candidate Starts for Ellie_23:
(Start: 21 @20744 has 152 MA's), (31, 20804), (39, 20888), (55, 21035), (56, 21038),

Gene: Emerson_26 Start: 20563, Stop: 20871, Start Num: 21
Candidate Starts for Emerson_26:
(Start: 21 @20563 has 152 MA's), (23, 20593), (35, 20671), (39, 20707),

Gene: Enkosi_22 Start: 20111, Stop: 20413, Start Num: 21
Candidate Starts for Enkosi_22:
(Start: 21 @20111 has 152 MA's), (35, 20219), (36, 20225), (39, 20255), (53, 20375),

Gene: Fefferhead_25 Start: 20911, Stop: 21225, Start Num: 21
Candidate Starts for Fefferhead_25:
(Start: 21 @20911 has 152 MA's), (31, 20971), (39, 21055), (55, 21202), (56, 21205),

Gene: Feyre_24 Start: 20777, Stop: 21094, Start Num: 21
Candidate Starts for Feyre_24:
(Start: 21 @20777 has 152 MA's), (36, 20891), (39, 20921), (41, 20948), (57, 21068),

Gene: FlagStaff_21 Start: 20199, Stop: 20639, Start Num: 16
Candidate Starts for FlagStaff_21:
(Start: 16 @20199 has 3 MA's), (22, 20256), (25, 20283), (30, 20340), (52, 20535),

Gene: Frosty24_21 Start: 20008, Stop: 20442, Start Num: 19
Candidate Starts for Frosty24_21:
(Start: 19 @20008 has 62 MA's), (23, 20059), (24, 20065), (31, 20134), (40, 20233), (42, 20254),

Gene: Ganymede_27 Start: 20583, Stop: 20891, Start Num: 21
Candidate Starts for Ganymede_27:
(Start: 21 @20583 has 152 MA's), (23, 20613), (35, 20691), (39, 20727),

Gene: Gengar_24 Start: 20884, Stop: 21201, Start Num: 21
Candidate Starts for Gengar_24:
(Start: 21 @20884 has 152 MA's), (23, 20914), (36, 20998), (39, 21028), (41, 21055), (57, 21175), (58, 21181),

Gene: Geraldini_26 Start: 20579, Stop: 20887, Start Num: 21
Candidate Starts for Geraldini_26:
(Start: 21 @20579 has 152 MA's), (23, 20609), (35, 20687), (39, 20723),

Gene: Gideon_21 Start: 20008, Stop: 20442, Start Num: 19
Candidate Starts for Gideon_21:
(Start: 19 @20008 has 62 MA's), (23, 20059), (24, 20065), (31, 20134), (40, 20233), (42, 20254),

Gene: GodSpeed_22 Start: 20232, Stop: 20675, Start Num: 16
Candidate Starts for GodSpeed_22:
(Start: 16 @20232 has 3 MA's), (22, 20286), (25, 20313), (30, 20370),

Gene: GoldenAsh_21 Start: 20008, Stop: 20442, Start Num: 19
Candidate Starts for GoldenAsh_21:
(Start: 19 @20008 has 62 MA's), (23, 20059), (24, 20065), (31, 20134), (40, 20233), (42, 20254),

Gene: Gomashi_21 Start: 20009, Stop: 20443, Start Num: 19
Candidate Starts for Gomashi_21:
(Start: 19 @20009 has 62 MA's), (23, 20060), (24, 20066), (31, 20135), (40, 20234), (42, 20255),

Gene: Grizzly_21 Start: 20012, Stop: 20446, Start Num: 19
Candidate Starts for Grizzly_21:
(3, 19532), (8, 19805), (Start: 19 @20012 has 62 MA's), (24, 20069), (25, 20087), (31, 20138), (40, 20237), (42, 20258), (54, 20354),

Gene: Guanica15_26 Start: 19789, Stop: 20097, Start Num: 21
Candidate Starts for Guanica15_26:
(Start: 21 @19789 has 152 MA's), (23, 19819), (35, 19897), (39, 19933),

Gene: Guillsminger_24 Start: 20859, Stop: 21176, Start Num: 21
Candidate Starts for Guillsminger_24:
(Start: 21 @20859 has 152 MA's), (36, 20973), (39, 21003), (41, 21030), (57, 21150),

Gene: Halo_21 Start: 20003, Stop: 20437, Start Num: 19
Candidate Starts for Halo_21:
(Start: 19 @20003 has 62 MA's), (23, 20054), (24, 20060), (31, 20129), (40, 20228), (42, 20249),

Gene: Hammy_25 Start: 21002, Stop: 21316, Start Num: 21
Candidate Starts for Hammy_25:
(2, 20501), (3, 20522), (4, 20654), (8, 20795), (Start: 21 @21002 has 152 MA's), (31, 21062), (32, 21065), (39, 21146), (55, 21293), (56, 21296),

Gene: HedwigODU_26 Start: 20572, Stop: 20880, Start Num: 21
Candidate Starts for HedwigODU_26:
(Start: 21 @20572 has 152 MA's), (23, 20602), (35, 20680), (39, 20716),

Gene: Heftyboy_24 Start: 21007, Stop: 21324, Start Num: 21
Candidate Starts for Heftyboy_24:
(Start: 21 @21007 has 152 MA's), (36, 21121), (39, 21151), (41, 21178), (57, 21298),

Gene: Homura_26 Start: 20603, Stop: 20911, Start Num: 21
Candidate Starts for Homura_26:
(Start: 21 @20603 has 152 MA's), (23, 20633), (35, 20711), (39, 20747),

Gene: Hope_21 Start: 20008, Stop: 20442, Start Num: 19
Candidate Starts for Hope_21:
(Start: 19 @20008 has 62 MA's), (23, 20059), (24, 20065), (31, 20134), (40, 20233), (42, 20254),

Gene: Hotshotbaby7_21 Start: 20008, Stop: 20442, Start Num: 19
Candidate Starts for Hotshotbaby7_21:
(Start: 19 @20008 has 62 MA's), (23, 20059), (24, 20065), (31, 20134), (40, 20233), (42, 20254),

Gene: Hyperbowlee_26 Start: 20603, Stop: 20911, Start Num: 21
Candidate Starts for Hyperbowlee_26:

(Start: 21 @20603 has 152 MA's), (23, 20633), (35, 20711), (39, 20747),

Gene: Illumine_26 Start: 20587, Stop: 20895, Start Num: 21
Candidate Starts for Illumine_26:
(Start: 21 @20587 has 152 MA's), (23, 20617), (35, 20695), (39, 20731),

Gene: Inky_26 Start: 20603, Stop: 20911, Start Num: 21
Candidate Starts for Inky_26:
(Start: 21 @20603 has 152 MA's), (23, 20633), (35, 20711), (39, 20747),

Gene: InvictusManeo_24 Start: 20959, Stop: 21276, Start Num: 21
Candidate Starts for InvictusManeo_24:
(Start: 21 @20959 has 152 MA's), (36, 21073), (39, 21103), (41, 21130), (57, 21250),

Gene: JAWS_26 Start: 20557, Stop: 20865, Start Num: 21
Candidate Starts for JAWS_26:
(Start: 21 @20557 has 152 MA's), (23, 20587), (35, 20665), (39, 20701),

Gene: Jane_21 Start: 20008, Stop: 20442, Start Num: 19
Candidate Starts for Jane_21:
(Start: 19 @20008 has 62 MA's), (23, 20059), (24, 20065), (31, 20134), (40, 20233), (42, 20254),

Gene: Jarvi_26 Start: 20603, Stop: 20911, Start Num: 21
Candidate Starts for Jarvi_26:
(Start: 21 @20603 has 152 MA's), (23, 20633), (35, 20711), (39, 20747),

Gene: Jayhawk_26 Start: 20570, Stop: 20878, Start Num: 21
Candidate Starts for Jayhawk_26:
(Start: 21 @20570 has 152 MA's), (23, 20600), (35, 20678), (39, 20714),

Gene: Jeckyll_26 Start: 20603, Stop: 20911, Start Num: 21
Candidate Starts for Jeckyll_26:
(Start: 21 @20603 has 152 MA's), (23, 20633), (35, 20711), (39, 20747),

Gene: Jeilious_21 Start: 20007, Stop: 20441, Start Num: 19
Candidate Starts for Jeilious_21:
(Start: 19 @20007 has 62 MA's), (23, 20058), (24, 20064), (31, 20133), (40, 20232), (42, 20253),

Gene: Jolene_21 Start: 20008, Stop: 20442, Start Num: 19
Candidate Starts for Jolene_21:
(Start: 19 @20008 has 62 MA's), (23, 20059), (24, 20065), (31, 20134), (40, 20233), (42, 20254),

Gene: Jolie2_21 Start: 19327, Stop: 19776, Start Num: 18
Candidate Starts for Jolie2_21:
(Start: 18 @19327 has 2 MA's), (20, 19345), (22, 19390), (26, 19420), (29, 19444), (30, 19474), (44, 19600), (50, 19657), (54, 19690),

Gene: Jonghyun_21 Start: 20008, Stop: 20442, Start Num: 19
Candidate Starts for Jonghyun_21:
(Start: 19 @20008 has 62 MA's), (23, 20059), (24, 20065), (31, 20134), (40, 20233), (42, 20254),

Gene: JorRay_21 Start: 20008, Stop: 20442, Start Num: 19
Candidate Starts for JorRay_21:

(Start: 19 @20008 has 62 MA's), (23, 20059), (24, 20065), (31, 20134), (40, 20233), (42, 20254),

Gene: Joy99_26 Start: 20532, Stop: 20840, Start Num: 21
Candidate Starts for Joy99_26:
(Start: 21 @20532 has 152 MA's), (23, 20562), (35, 20640), (39, 20676),

Gene: Kareem_21 Start: 20008, Stop: 20442, Start Num: 19
Candidate Starts for Kareem_21:
(Start: 19 @20008 has 62 MA's), (23, 20059), (24, 20065), (31, 20134), (40, 20233), (42, 20254),

Gene: Kasen3_21 Start: 20009, Stop: 20443, Start Num: 19
Candidate Starts for Kasen3_21:
(Start: 19 @20009 has 62 MA's), (23, 20060), (24, 20066), (31, 20135), (40, 20234), (42, 20255),

Gene: KiSi_25 Start: 19734, Stop: 20036, Start Num: 21
Candidate Starts for KiSi_25:
(Start: 21 @19734 has 152 MA's), (32, 19797), (39, 19878),

Gene: Kratio_23 Start: 20590, Stop: 20907, Start Num: 21
Candidate Starts for Kratio_23:
(Start: 21 @20590 has 152 MA's), (36, 20704), (39, 20734), (41, 20761), (57, 20881),

Gene: Krueger_25 Start: 19703, Stop: 20014, Start Num: 21
Candidate Starts for Krueger_25:
(Start: 21 @19703 has 152 MA's), (31, 19763), (39, 19847), (40, 19862),

Gene: Larva_25 Start: 20760, Stop: 21077, Start Num: 21
Candidate Starts for Larva_25:
(Start: 21 @20760 has 152 MA's), (36, 20874), (41, 20931), (57, 21051),

Gene: LastHope_26 Start: 19866, Stop: 20174, Start Num: 21
Candidate Starts for LastHope_26:
(Start: 21 @19866 has 152 MA's), (31, 19926), (39, 20010), (51, 20112),

Gene: Lavahound_24 Start: 20663, Stop: 20977, Start Num: 21
Candidate Starts for Lavahound_24:
(Start: 21 @20663 has 152 MA's), (31, 20723), (39, 20807), (55, 20954), (56, 20957),

Gene: LeMond_25 Start: 19805, Stop: 20107, Start Num: 21
Candidate Starts for LeMond_25:
(Start: 21 @19805 has 152 MA's), (32, 19868), (39, 19949),

Gene: Lemuria_22 Start: 20141, Stop: 20578, Start Num: 18
Candidate Starts for Lemuria_22:
(3, 19676), (5, 19886), (Start: 18 @20141 has 2 MA's), (22, 20204), (47, 20423), (48, 20444), (50, 20459),

Gene: Leston_24 Start: 20989, Stop: 21306, Start Num: 21
Candidate Starts for Leston_24:
(Start: 21 @20989 has 152 MA's), (36, 21103), (39, 21133), (41, 21160), (57, 21280),

Gene: Liefie_21 Start: 20007, Stop: 20441, Start Num: 19
Candidate Starts for Liefie_21:

(Start: 19 @20007 has 62 MA's), (23, 20058), (24, 20064), (31, 20133), (40, 20232), (42, 20253),

Gene: LilDirt_23 Start: 20716, Stop: 21033, Start Num: 21
Candidate Starts for LilDirt_23:
(Start: 21 @20716 has 152 MA's), (36, 20830), (39, 20860), (41, 20887), (57, 21007),

Gene: LilPharaoh_22 Start: 20111, Stop: 20413, Start Num: 21
Candidate Starts for LilPharaoh_22:
(Start: 21 @20111 has 152 MA's), (35, 20219), (36, 20225), (39, 20255), (53, 20375),

Gene: LindNT_26 Start: 20537, Stop: 20845, Start Num: 21
Candidate Starts for LindNT_26:
(Start: 21 @20537 has 152 MA's), (23, 20567), (35, 20645), (39, 20681), (48, 20765),

Gene: Llorens_26 Start: 20603, Stop: 20911, Start Num: 21
Candidate Starts for Llorens_26:
(Start: 21 @20603 has 152 MA's), (23, 20633), (35, 20711), (39, 20747),

Gene: LouisV14_21 Start: 20008, Stop: 20442, Start Num: 19
Candidate Starts for LouisV14_21:
(Start: 19 @20008 has 62 MA's), (23, 20059), (24, 20065), (31, 20134), (40, 20233), (42, 20254),

Gene: Lunahalos_26 Start: 20603, Stop: 20911, Start Num: 21
Candidate Starts for Lunahalos_26:
(Start: 21 @20603 has 152 MA's), (23, 20633), (35, 20711), (39, 20747),

Gene: MOOREtheMARYer_22 Start: 20362, Stop: 20802, Start Num: 21
Candidate Starts for MOOREtheMARYer_22:
(Start: 21 @20362 has 152 MA's), (40, 20581), (44, 20605), (47, 20626),

Gene: MZKinsey_21 Start: 20008, Stop: 20442, Start Num: 19
Candidate Starts for MZKinsey_21:
(Start: 19 @20008 has 62 MA's), (23, 20059), (24, 20065), (31, 20134), (40, 20233), (42, 20254),

Gene: MacKat_26 Start: 20580, Stop: 20888, Start Num: 21
Candidate Starts for MacKat_26:
(Start: 21 @20580 has 152 MA's), (23, 20610), (35, 20688), (39, 20724),

Gene: Maliketh_21 Start: 20008, Stop: 20442, Start Num: 19
Candidate Starts for Maliketh_21:
(Start: 19 @20008 has 62 MA's), (23, 20059), (24, 20065), (31, 20134), (40, 20233), (42, 20254),

Gene: MarkPhew_26 Start: 19694, Stop: 19996, Start Num: 21
Candidate Starts for MarkPhew_26:
(Start: 21 @19694 has 152 MA's), (32, 19757), (39, 19838),

Gene: Marmie_21 Start: 20008, Stop: 20442, Start Num: 19
Candidate Starts for Marmie_21:
(Start: 19 @20008 has 62 MA's), (23, 20059), (24, 20065), (31, 20134), (40, 20233), (42, 20254),

Gene: Marshawn_27 Start: 20316, Stop: 20672, Start Num: 21
Candidate Starts for Marshawn_27:

(6, 20082), (9, 20178), (Start: 21 @20316 has 152 MA's), (24, 20352), (28, 20370), (31, 20376), (45, 20505), (46, 20517), (49, 20553),

Gene: McMater_26 Start: 19927, Stop: 20229, Start Num: 21
Candidate Starts for McMater_26:
(Start: 21 @19927 has 152 MA's), (24, 19963), (31, 19987), (35, 20035), (36, 20041), (39, 20071),

Gene: Mdavu_22 Start: 20099, Stop: 20401, Start Num: 21
Candidate Starts for Mdavu_22:
(Start: 21 @20099 has 152 MA's), (35, 20207), (36, 20213), (39, 20243), (53, 20363),

Gene: MeaningOfLife_26 Start: 20539, Stop: 20847, Start Num: 21
Candidate Starts for MeaningOfLife_26:
(Start: 21 @20539 has 152 MA's), (23, 20569), (35, 20647), (39, 20683),

Gene: Megsy_26 Start: 20540, Stop: 20848, Start Num: 21
Candidate Starts for Megsy_26:
(Start: 21 @20540 has 152 MA's), (23, 20570), (35, 20648), (39, 20684), (48, 20768),

Gene: Mercurio_23 Start: 20757, Stop: 21194, Start Num: 18
Candidate Starts for Mercurio_23:
(1, 19929), (3, 20292), (5, 20502), (Start: 18 @20757 has 2 MA's), (22, 20820), (47, 21039), (50, 21075),

Gene: Miryou_24 Start: 20844, Stop: 21161, Start Num: 21
Candidate Starts for Miryou_24:
(Start: 21 @20844 has 152 MA's), (36, 20958), (39, 20988), (41, 21015), (57, 21135),

Gene: Mowgli_21 Start: 20008, Stop: 20442, Start Num: 19
Candidate Starts for Mowgli_21:
(Start: 19 @20008 has 62 MA's), (23, 20059), (24, 20065), (31, 20134), (40, 20233), (42, 20254),

Gene: Murucutumbu_26 Start: 20523, Stop: 20831, Start Num: 21
Candidate Starts for Murucutumbu_26:
(Start: 21 @20523 has 152 MA's), (23, 20553), (35, 20631), (39, 20667),

Gene: Mynx_26 Start: 20586, Stop: 20894, Start Num: 21
Candidate Starts for Mynx_26:
(Start: 21 @20586 has 152 MA's), (23, 20616), (35, 20694), (39, 20730),

Gene: Neighly_25 Start: 20759, Stop: 21076, Start Num: 21
Candidate Starts for Neighly_25:
(Start: 21 @20759 has 152 MA's), (36, 20873), (41, 20930), (57, 21050),

Gene: Neoh_21 Start: 20000, Stop: 20434, Start Num: 19
Candidate Starts for Neoh_21:
(Start: 19 @20000 has 62 MA's), (23, 20051), (24, 20057), (31, 20126), (40, 20225), (42, 20246),

Gene: Nibb_25 Start: 19835, Stop: 20137, Start Num: 21
Candidate Starts for Nibb_25:
(Start: 21 @19835 has 152 MA's), (32, 19898), (39, 19979), (51, 20081),

Gene: Nikao_22 Start: 20111, Stop: 20413, Start Num: 21

Candidate Starts for Nikao_22:
(Start: 21 @20111 has 152 MA's), (35, 20219), (36, 20225), (39, 20255), (53, 20375),

Gene: Niklas_26 Start: 19930, Stop: 20232, Start Num: 21
Candidate Starts for Niklas_26:
(Start: 21 @19930 has 152 MA's), (24, 19966), (31, 19990), (35, 20038), (36, 20044), (39, 20074),

Gene: November_24 Start: 20899, Stop: 21213, Start Num: 21
Candidate Starts for November_24:
(Start: 21 @20899 has 152 MA's), (31, 20959), (32, 20962), (39, 21043), (55, 21190), (56, 21193),

Gene: Nutello_22 Start: 20111, Stop: 20413, Start Num: 21
Candidate Starts for Nutello_22:
(Start: 21 @20111 has 152 MA's), (35, 20219), (36, 20225), (39, 20255), (53, 20375),

Gene: OctaviousRex_21 Start: 20008, Stop: 20442, Start Num: 19
Candidate Starts for OctaviousRex_21:
(Start: 19 @20008 has 62 MA's), (23, 20059), (24, 20065), (31, 20134), (40, 20233), (42, 20254),

Gene: OkiRoe_24 Start: 20860, Stop: 21177, Start Num: 21
Candidate Starts for OkiRoe_24:
(Start: 21 @20860 has 152 MA's), (36, 20974), (39, 21004), (41, 21031), (57, 21151),

Gene: Olga_21 Start: 20008, Stop: 20442, Start Num: 19
Candidate Starts for Olga_21:
(Start: 19 @20008 has 62 MA's), (23, 20059), (24, 20065), (31, 20134), (40, 20233), (42, 20254),

Gene: Omnicron_25 Start: 19679, Stop: 19996, Start Num: 21
Candidate Starts for Omnicron_25:
(Start: 21 @19679 has 152 MA's), (36, 19793), (39, 19823), (41, 19850), (57, 19970),

Gene: Oscar_25 Start: 19806, Stop: 20108, Start Num: 21
Candidate Starts for Oscar_25:
(Start: 21 @19806 has 152 MA's), (32, 19869), (39, 19950),

Gene: Pace1224_21 Start: 20199, Stop: 20639, Start Num: 16
Candidate Starts for Pace1224_21:
(Start: 16 @20199 has 3 MA's), (22, 20256), (25, 20283), (30, 20340), (52, 20535),

Gene: Padfoot_26 Start: 20603, Stop: 20911, Start Num: 21
Candidate Starts for Padfoot_26:
(Start: 21 @20603 has 152 MA's), (23, 20633), (35, 20711), (39, 20747),

Gene: Padpat_26 Start: 20563, Stop: 20871, Start Num: 21
Candidate Starts for Padpat_26:
(Start: 21 @20563 has 152 MA's), (23, 20593), (35, 20671), (39, 20707),

Gene: Paito_21 Start: 20209, Stop: 20643, Start Num: 19
Candidate Starts for Paito_21:
(Start: 19 @20209 has 62 MA's), (40, 20431), (42, 20452),

Gene: Paola_24 Start: 20859, Stop: 21176, Start Num: 21
Candidate Starts for Paola_24:

(Start: 21 @20859 has 152 MA's), (36, 20973), (39, 21003), (41, 21030), (57, 21150),

Gene: Peanam_26 Start: 19927, Stop: 20229, Start Num: 21
Candidate Starts for Peanam_26:
(Start: 21 @19927 has 152 MA's), (24, 19963), (31, 19987), (35, 20035), (36, 20041), (39, 20071),

Gene: Peeb_21 Start: 20008, Stop: 20442, Start Num: 19
Candidate Starts for Peeb_21:
(Start: 19 @20008 has 62 MA's), (23, 20059), (24, 20065), (31, 20134), (40, 20233), (42, 20254),

Gene: Peel_26 Start: 20603, Stop: 20911, Start Num: 21
Candidate Starts for Peel_26:
(Start: 21 @20603 has 152 MA's), (23, 20633), (35, 20711), (39, 20747),

Gene: Periodt_21 Start: 20008, Stop: 20442, Start Num: 19
Candidate Starts for Periodt_21:
(Start: 19 @20008 has 62 MA's), (23, 20059), (24, 20065), (31, 20134), (40, 20233), (42, 20254),

Gene: PhelpsODU_25 Start: 19781, Stop: 20092, Start Num: 21
Candidate Starts for PhelpsODU_25:
(Start: 21 @19781 has 152 MA's), (31, 19841), (39, 19925), (51, 20027),

Gene: Phish_21 Start: 20008, Stop: 20442, Start Num: 19
Candidate Starts for Phish_21:
(Start: 19 @20008 has 62 MA's), (23, 20059), (24, 20065), (31, 20134), (40, 20233), (42, 20254),

Gene: Phloodle_21 Start: 20008, Stop: 20442, Start Num: 19
Candidate Starts for Phloodle_21:
(Start: 19 @20008 has 62 MA's), (23, 20059), (24, 20065), (31, 20134), (40, 20233), (42, 20254),

Gene: Phrank_25 Start: 19734, Stop: 20045, Start Num: 21
Candidate Starts for Phrank_25:
(Start: 21 @19734 has 152 MA's), (31, 19794), (39, 19878), (51, 19980),

Gene: Phreak_21 Start: 20008, Stop: 20442, Start Num: 19
Candidate Starts for Phreak_21:
(Start: 19 @20008 has 62 MA's), (23, 20059), (24, 20065), (31, 20134), (40, 20233), (42, 20254),

Gene: Piatt_26 Start: 20603, Stop: 20911, Start Num: 21
Candidate Starts for Piatt_26:
(Start: 21 @20603 has 152 MA's), (23, 20633), (35, 20711), (39, 20747),

Gene: PinkYoshi_21 Start: 19999, Stop: 20433, Start Num: 19
Candidate Starts for PinkYoshi_21:
(Start: 19 @19999 has 62 MA's), (23, 20050), (24, 20056), (31, 20125), (40, 20224), (42, 20245),

Gene: Pinnie_22 Start: 20768, Stop: 21181, Start Num: 21
Candidate Starts for Pinnie_22:
(13, 20687), (14, 20723), (Start: 21 @20768 has 152 MA's), (40, 20981), (42, 21002),

Gene: Pisa1_25 Start: 20637, Stop: 20945, Start Num: 21
Candidate Starts for Pisa1_25:
(Start: 21 @20637 has 152 MA's), (35, 20745), (39, 20781), (48, 20865),

Gene: Pisa4_25 Start: 20637, Stop: 20945, Start Num: 21
Candidate Starts for Pisa4_25:
(Start: 21 @20637 has 152 MA's), (35, 20745), (39, 20781), (48, 20865),

Gene: Plagueis_21 Start: 20008, Stop: 20442, Start Num: 19
Candidate Starts for Plagueis_21:
(Start: 19 @20008 has 62 MA's), (23, 20059), (24, 20065), (31, 20134), (40, 20233), (42, 20254),

Gene: Pokerus_25 Start: 20520, Stop: 20828, Start Num: 21
Candidate Starts for Pokerus_25:
(Start: 21 @20520 has 152 MA's), (23, 20550), (35, 20628), (39, 20664),

Gene: Prithvi_26 Start: 20537, Stop: 20845, Start Num: 21
Candidate Starts for Prithvi_26:
(Start: 21 @20537 has 152 MA's), (23, 20567), (35, 20645), (39, 20681), (48, 20765),

Gene: Psycho_25 Start: 20890, Stop: 21207, Start Num: 21
Candidate Starts for Psycho_25:
(Start: 21 @20890 has 152 MA's), (36, 21004), (41, 21061), (57, 21181),

Gene: QuincyRose_25 Start: 20583, Stop: 20891, Start Num: 21
Candidate Starts for QuincyRose_25:
(Start: 21 @20583 has 152 MA's), (23, 20613), (35, 20691), (39, 20727),

Gene: Rabbs_21 Start: 20095, Stop: 20526, Start Num: 19
Candidate Starts for Rabbs_21:
(Start: 19 @20095 has 62 MA's), (24, 20149), (31, 20218), (40, 20317), (42, 20338), (52, 20407),

Gene: Ramen_26 Start: 20569, Stop: 20877, Start Num: 21
Candidate Starts for Ramen_26:
(Start: 21 @20569 has 152 MA's), (23, 20599), (35, 20677), (39, 20713),

Gene: Rando14_25 Start: 19578, Stop: 19880, Start Num: 21
Candidate Starts for Rando14_25:
(Start: 21 @19578 has 152 MA's), (36, 19692), (39, 19722), (41, 19749), (52, 19827), (57, 19869),

Gene: Rapunzel97_26 Start: 20570, Stop: 20878, Start Num: 21
Candidate Starts for Rapunzel97_26:
(Start: 21 @20570 has 152 MA's), (23, 20600), (35, 20678), (39, 20714),

Gene: Rattrick_21 Start: 20008, Stop: 20442, Start Num: 19
Candidate Starts for Rattrick_21:
(Start: 19 @20008 has 62 MA's), (23, 20059), (24, 20065), (31, 20134), (40, 20233), (42, 20254),

Gene: Remy19_21 Start: 20008, Stop: 20442, Start Num: 19
Candidate Starts for Remy19_21:
(Start: 19 @20008 has 62 MA's), (23, 20059), (24, 20065), (31, 20134), (40, 20233), (42, 20254),

Gene: Renaissance_21 Start: 20008, Stop: 20442, Start Num: 19
Candidate Starts for Renaissance_21:
(Start: 19 @20008 has 62 MA's), (23, 20059), (24, 20065), (31, 20134), (40, 20233), (42, 20254),

Gene: Richarlison_21 Start: 20008, Stop: 20442, Start Num: 19
Candidate Starts for Richarlison_21:
(Start: 19 @20008 has 62 MA's), (23, 20059), (24, 20065), (31, 20134), (40, 20233), (42, 20254),

Gene: Richo_26 Start: 19927, Stop: 20229, Start Num: 21
Candidate Starts for Richo_26:
(Start: 21 @19927 has 152 MA's), (24, 19963), (31, 19987), (35, 20035), (36, 20041), (39, 20071),

Gene: Rosmarinus_26 Start: 20591, Stop: 20899, Start Num: 21
Candidate Starts for Rosmarinus_26:
(Start: 21 @20591 has 152 MA's), (23, 20621), (35, 20699), (39, 20735),

Gene: Ruriko_21 Start: 20008, Stop: 20442, Start Num: 19
Candidate Starts for Ruriko_21:
(Start: 19 @20008 has 62 MA's), (23, 20059), (24, 20065), (31, 20134), (40, 20233), (42, 20254),

Gene: Scarlett_25 Start: 19808, Stop: 20110, Start Num: 21
Candidate Starts for Scarlett_25:
(Start: 21 @19808 has 152 MA's), (32, 19871), (39, 19952),

Gene: Schiebel_21 Start: 20008, Stop: 20442, Start Num: 19
Candidate Starts for Schiebel_21:
(Start: 19 @20008 has 62 MA's), (23, 20059), (24, 20065), (31, 20134), (40, 20233), (42, 20254),

Gene: SgtBeansprout_22 Start: 20111, Stop: 20413, Start Num: 21
Candidate Starts for SgtBeansprout_22:
(Start: 21 @20111 has 152 MA's), (35, 20219), (36, 20225), (39, 20255), (53, 20375),

Gene: ShaboiShabazz_21 Start: 20008, Stop: 20442, Start Num: 19
Candidate Starts for ShaboiShabazz_21:
(Start: 19 @20008 has 62 MA's), (23, 20059), (24, 20065), (31, 20134), (40, 20233), (42, 20254),

Gene: Shadow1_24 Start: 19608, Stop: 19919, Start Num: 21
Candidate Starts for Shadow1_24:
(Start: 21 @19608 has 152 MA's), (31, 19668), (33, 19680), (39, 19752),

Gene: Shaobing_26 Start: 19927, Stop: 20229, Start Num: 21
Candidate Starts for Shaobing_26:
(Start: 21 @19927 has 152 MA's), (24, 19963), (31, 19987), (35, 20035), (36, 20041), (39, 20071),

Gene: ShiaSurprise_26 Start: 20603, Stop: 20911, Start Num: 21
Candidate Starts for ShiaSurprise_26:
(Start: 21 @20603 has 152 MA's), (23, 20633), (35, 20711), (39, 20747),

Gene: SirPhilip_25 Start: 19446, Stop: 19754, Start Num: 21
Candidate Starts for SirPhilip_25:
(Start: 21 @19446 has 152 MA's), (31, 19506), (35, 19554), (39, 19590), (51, 19692),

Gene: Sizemore_21 Start: 20009, Stop: 20443, Start Num: 19
Candidate Starts for Sizemore_21:
(Start: 19 @20009 has 62 MA's), (23, 20060), (24, 20066), (31, 20135), (40, 20234), (42, 20255),

Gene: Slimphazie_26 Start: 20570, Stop: 20878, Start Num: 21

Candidate Starts for Slimphazie_26:
(Start: 21 @20570 has 152 MA's), (23, 20600), (35, 20678), (39, 20714),

Gene: Sneeze_21 Start: 20094, Stop: 20525, Start Num: 19
Candidate Starts for Sneeze_21:
(Start: 19 @20094 has 62 MA's), (24, 20148), (31, 20217), (40, 20316), (42, 20337), (52, 20406),

Gene: SoSeph_24 Start: 21007, Stop: 21324, Start Num: 21
Candidate Starts for SoSeph_24:
(Start: 21 @21007 has 152 MA's), (36, 21121), (39, 21151), (41, 21178), (57, 21298),

Gene: Spock_26 Start: 20603, Stop: 20911, Start Num: 21
Candidate Starts for Spock_26:
(Start: 21 @20603 has 152 MA's), (23, 20633), (35, 20711), (39, 20747),

Gene: Stargaze_21 Start: 20451, Stop: 20828, Start Num: 21
Candidate Starts for Stargaze_21:
(Start: 21 @20451 has 152 MA's), (34, 20568), (41, 20640), (42, 20649), (52, 20718),

Gene: Stinson_27 Start: 20812, Stop: 21120, Start Num: 21
Candidate Starts for Stinson_27:
(15, 20773), (Start: 21 @20812 has 152 MA's), (23, 20842), (31, 20872), (33, 20884), (35, 20920), (39, 20956), (45, 21001), (48, 21040),

Gene: Sulley_26 Start: 20536, Stop: 20844, Start Num: 21
Candidate Starts for Sulley_26:
(Start: 21 @20536 has 152 MA's), (23, 20566), (35, 20644), (39, 20680),

Gene: Sunflower1121_24 Start: 19620, Stop: 19931, Start Num: 21
Candidate Starts for Sunflower1121_24:
(Start: 21 @19620 has 152 MA's), (31, 19680), (33, 19692), (39, 19764),

Gene: Sweets_21 Start: 20003, Stop: 20437, Start Num: 19
Candidate Starts for Sweets_21:
(Start: 19 @20003 has 62 MA's), (23, 20054), (24, 20060), (31, 20129), (40, 20228), (42, 20249),

Gene: Syra333_25 Start: 19715, Stop: 20026, Start Num: 21
Candidate Starts for Syra333_25:
(Start: 21 @19715 has 152 MA's), (31, 19775), (39, 19859), (40, 19874), (45, 19904),

Gene: TClif_25 Start: 19775, Stop: 20077, Start Num: 21
Candidate Starts for TClif_25:
(6, 19538), (Start: 21 @19775 has 152 MA's), (31, 19835), (33, 19847), (39, 19919),

Gene: Tachez_26 Start: 20532, Stop: 20840, Start Num: 21
Candidate Starts for Tachez_26:
(Start: 21 @20532 has 152 MA's), (23, 20562), (35, 20640), (39, 20676),

Gene: Taheera_21 Start: 20103, Stop: 20534, Start Num: 19
Candidate Starts for Taheera_21:
(Start: 19 @20103 has 62 MA's), (24, 20157), (31, 20226), (40, 20325), (42, 20346), (52, 20415),

Gene: TaiwanKao_27 Start: 20543, Stop: 20851, Start Num: 21

Candidate Starts for TaiwanKao_27:
(Start: 21 @20543 has 152 MA's), (23, 20573), (35, 20651), (39, 20687), (48, 20771),

Gene: Teejan_22 Start: 20111, Stop: 20413, Start Num: 21
Candidate Starts for Teejan_22:
(Start: 21 @20111 has 152 MA's), (35, 20219), (36, 20225), (39, 20255), (53, 20375),

Gene: Terror_21 Start: 20103, Stop: 20534, Start Num: 19
Candidate Starts for Terror_21:
(Start: 19 @20103 has 62 MA's), (24, 20157), (31, 20226), (40, 20325), (42, 20346), (52, 20415),

Gene: Thyatira_24 Start: 20859, Stop: 21176, Start Num: 21
Candidate Starts for Thyatira_24:
(Start: 21 @20859 has 152 MA's), (36, 20973), (39, 21003), (41, 21030), (57, 21150),

Gene: Tierra_25 Start: 20455, Stop: 20766, Start Num: 21
Candidate Starts for Tierra_25:
(Start: 21 @20455 has 152 MA's), (31, 20515), (39, 20599), (51, 20701),

Gene: Tigress9_26 Start: 19703, Stop: 20014, Start Num: 21
Candidate Starts for Tigress9_26:
(Start: 21 @19703 has 152 MA's), (31, 19763), (39, 19847), (40, 19862),

Gene: TinaBug_21 Start: 20003, Stop: 20437, Start Num: 19
Candidate Starts for TinaBug_21:
(Start: 19 @20003 has 62 MA's), (23, 20054), (24, 20060), (31, 20129), (40, 20228), (42, 20249),

Gene: TingHuaYa_26 Start: 19869, Stop: 20177, Start Num: 21
Candidate Starts for TingHuaYa_26:
(Start: 21 @19869 has 152 MA's), (31, 19929), (39, 20013), (51, 20115),

Gene: Tiri_26 Start: 20575, Stop: 20883, Start Num: 21
Candidate Starts for Tiri_26:
(Start: 21 @20575 has 152 MA's), (23, 20605), (35, 20683), (39, 20719),

Gene: TomBrady_21 Start: 20009, Stop: 20443, Start Num: 19
Candidate Starts for TomBrady_21:
(Start: 19 @20009 has 62 MA's), (23, 20060), (24, 20066), (31, 20135), (40, 20234), (42, 20255),

Gene: Topper_26 Start: 20603, Stop: 20911, Start Num: 21
Candidate Starts for Topper_26:
(Start: 21 @20603 has 152 MA's), (23, 20633), (35, 20711), (39, 20747),

Gene: Torres_22 Start: 20111, Stop: 20413, Start Num: 21
Candidate Starts for Torres_22:
(Start: 21 @20111 has 152 MA's), (35, 20219), (36, 20225), (39, 20255), (53, 20375),

Gene: TreyKay_26 Start: 20537, Stop: 20845, Start Num: 21
Candidate Starts for TreyKay_26:
(Start: 21 @20537 has 152 MA's), (23, 20567), (35, 20645), (39, 20681), (48, 20765),

Gene: Trice_22 Start: 20111, Stop: 20413, Start Num: 21
Candidate Starts for Trice_22:

(Start: 21 @20111 has 152 MA's), (35, 20219), (36, 20225), (39, 20255), (53, 20375),

Gene: TruffulaTree_26 Start: 20566, Stop: 20874, Start Num: 21
Candidate Starts for TruffulaTree_26:
(Start: 21 @20566 has 152 MA's), (23, 20596), (35, 20674), (38, 20707), (39, 20710),

Gene: Twitch_26 Start: 20603, Stop: 20911, Start Num: 21
Candidate Starts for Twitch_26:
(Start: 21 @20603 has 152 MA's), (23, 20633), (35, 20711), (39, 20747),

Gene: Unicorn_25 Start: 19781, Stop: 20092, Start Num: 21
Candidate Starts for Unicorn_25:
(Start: 21 @19781 has 152 MA's), (31, 19841), (39, 19925), (51, 20027),

Gene: Validus_26 Start: 19858, Stop: 20166, Start Num: 21
Candidate Starts for Validus_26:
(Start: 21 @19858 has 152 MA's), (31, 19918), (39, 20002), (48, 20086), (51, 20104),

Gene: Veliki_26 Start: 20606, Stop: 20914, Start Num: 21
Candidate Starts for Veliki_26:
(Start: 21 @20606 has 152 MA's), (23, 20636), (35, 20714), (39, 20750),

Gene: ViviJ_23 Start: 20716, Stop: 21033, Start Num: 21
Candidate Starts for ViviJ_23:
(Start: 21 @20716 has 152 MA's), (36, 20830), (39, 20860), (41, 20887), (57, 21007),

Gene: Waterfoul_24 Start: 20880, Stop: 21197, Start Num: 21
Candidate Starts for Waterfoul_24:
(Start: 21 @20880 has 152 MA's), (36, 20994), (39, 21024), (41, 21051), (57, 21171),

Gene: Wendigo_21 Start: 20008, Stop: 20442, Start Num: 19
Candidate Starts for Wendigo_21:
(Start: 19 @20008 has 62 MA's), (23, 20059), (24, 20065), (31, 20134), (40, 20233), (42, 20254),

Gene: Ximenita_26 Start: 19893, Stop: 20204, Start Num: 21
Candidate Starts for Ximenita_26:
(Start: 21 @19893 has 152 MA's), (31, 19953), (39, 20037), (40, 20052), (45, 20082),

Gene: YangYin_21 Start: 20475, Stop: 20852, Start Num: 21
Candidate Starts for YangYin_21:
(Start: 21 @20475 has 152 MA's), (34, 20592), (41, 20664), (42, 20673), (52, 20742),

Gene: YoureAdopted_25 Start: 20539, Stop: 20847, Start Num: 21
Candidate Starts for YoureAdopted_25:
(Start: 21 @20539 has 152 MA's), (23, 20569), (35, 20647), (39, 20683),

Gene: Yuna_27 Start: 20510, Stop: 20818, Start Num: 21
Candidate Starts for Yuna_27:
(Start: 21 @20510 has 152 MA's), (39, 20654), (51, 20756),

Gene: Yunkel11_26 Start: 19789, Stop: 20097, Start Num: 21
Candidate Starts for Yunkel11_26:
(Start: 21 @19789 has 152 MA's), (23, 19819), (35, 19897), (39, 19933),

Gene: Zabiza_26 Start: 20570, Stop: 20878, Start Num: 21
Candidate Starts for Zabiza_26:
(Start: 21 @20570 has 152 MA's), (23, 20600), (35, 20678), (39, 20714),

Gene: Zavala_26 Start: 20545, Stop: 20853, Start Num: 21
Candidate Starts for Zavala_26:
(Start: 21 @20545 has 152 MA's), (23, 20575), (35, 20653), (39, 20689),

Gene: ZoMa_21 Start: 20008, Stop: 20442, Start Num: 19
Candidate Starts for ZoMa_21:
(Start: 19 @20008 has 62 MA's), (23, 20059), (24, 20065), (31, 20134), (40, 20233), (42, 20254),

Gene: Zombie_21 Start: 20008, Stop: 20442, Start Num: 19
Candidate Starts for Zombie_21:
(Start: 19 @20008 has 62 MA's), (23, 20059), (24, 20065), (31, 20134), (40, 20233), (42, 20254),