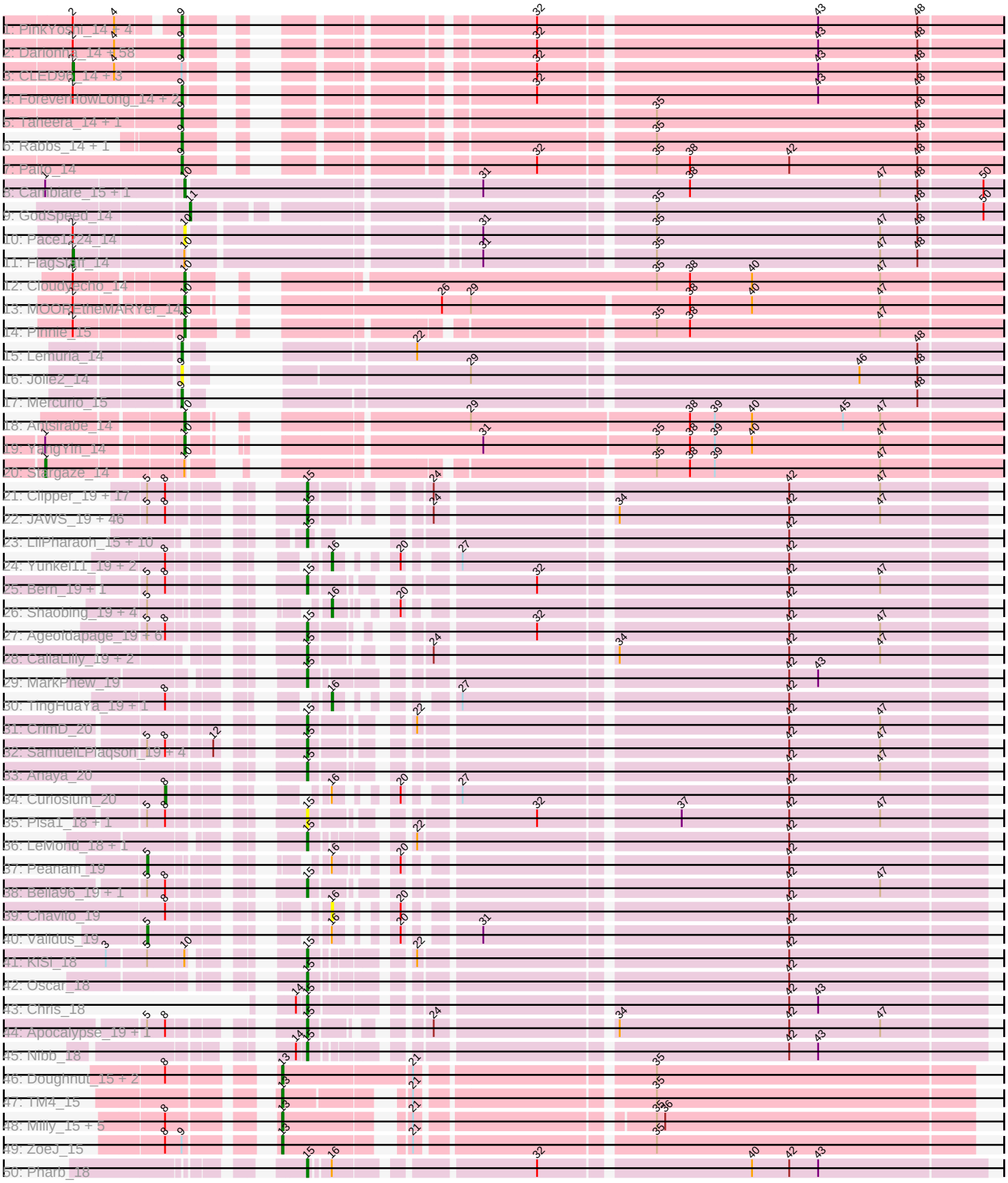
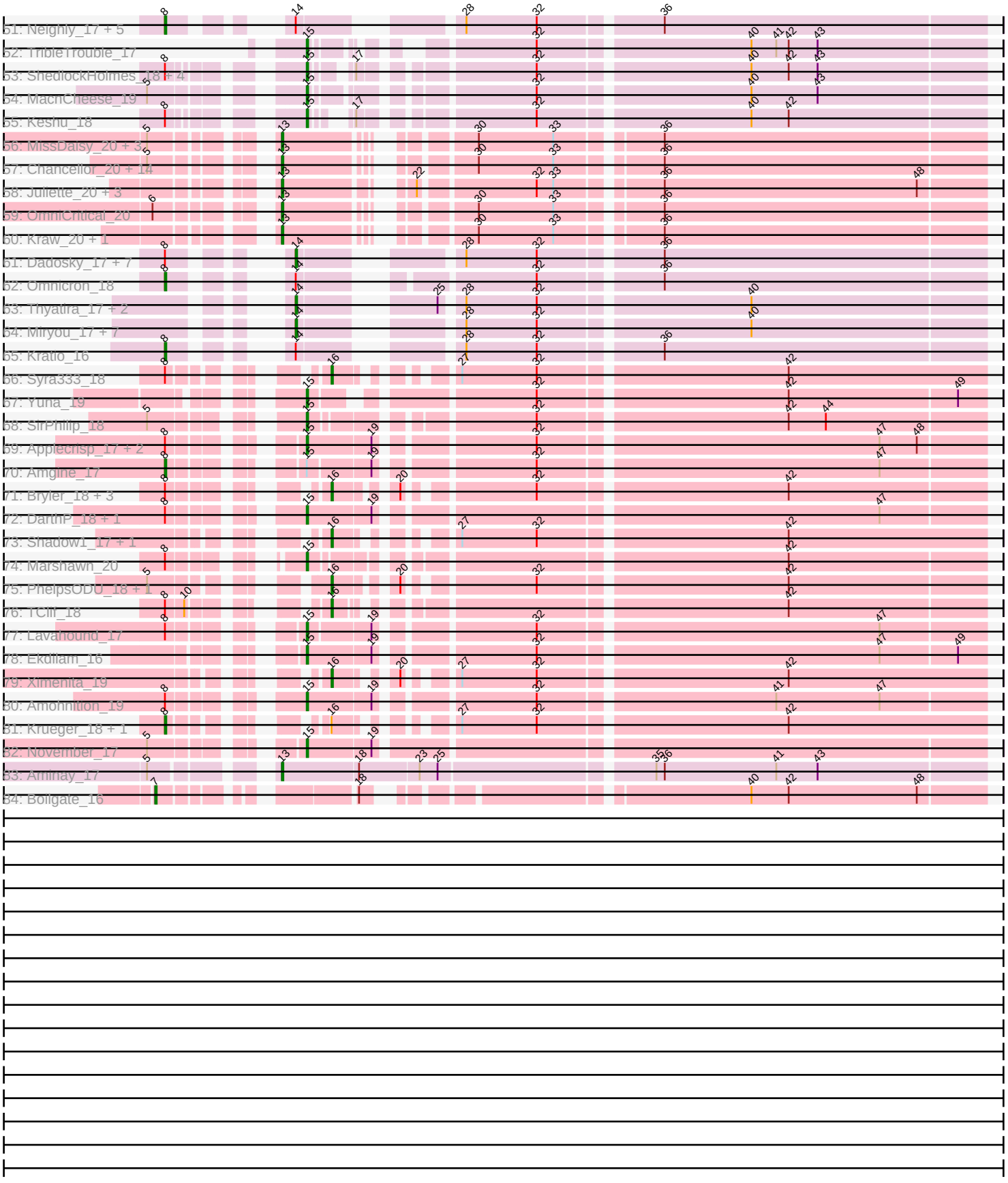
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1: PinkYoshi_14 + 4
2: Danonina_14 + 58
3: CLED96_14 + 3
4: ForeverHowLong_14 + 2
5: Taheera_14 + 1
6: Rabbs_14 + 1
7: Paiko_14
8: Cambiare_15 + 1
9: GodSpeed_14
10: Pace1224_14
11: FlagStaff_14
12: CloudyEcho_14
13: MOOREtheMARYer_14
14: Pinnie_15
15: Lemuria_14
16: Jolie2_14
17: Mercurio_15
18: Antsirabe_14
19: YangYin_14
20: Stargaze_14
21: Clipper_19 + 17
22: JAWS_19 + 46
23: LilPharaoh_15 + 10
24: Yunkel11_19 + 2
25: Bern_19 + 1
26: Shaobing_19 + 4
27: Ageoldadage_19 + 6
28: CallaLily_19 + 2
29: MarkPhew_19
30: YingHuaYa_19 + 1
31: ChimD_20
32: SamuelLPlaqson_19 + 4
33: Anaya_20
34: Curiosium_20
35: Pisa1_18 + 1
36: LeMond_18 + 1
37: Peaham_19
38: Bella96_19 + 1
39: Chavito_19
40: Validus_19
41: KISI_18
42: Oscar_18
43: Chris_18
44: Apocalypse_19 + 1
45: Nibb_18
46: Doughnut_15 + 2
47: TM4_15
48: Milly_15 + 5
49: ZoeJ_15
50: Pharo_18

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51: Neighly_17 + 5
52: TribleTrouble_17
53: SherlockHolmes_18 + 4
54: MacnCheese_19
55: Keshu_18
56: MissDaisy_20 + 3
57: Chancellor_20 + 14
58: Juliette_20 + 3
59: OmniCritical_20
60: Kraw_20 + 1
61: Dadosky_17 + 7
62: Omnicron_18
63: Thyatira_17 + 2
64: Miryou_17 + 7
65: Kratio_16
66: Syra333_18
67: Yuna_19
68: SirPhilip_18
69: Applechsp_17 + 2
70: Amgine_17
71: Bryler_18 + 3
72: DarthP_18 + 1
73: Shadow1_17 + 1
74: Marshawn_20
75: PhelpsODU_18 + 1
76: TCliff_18
77: Lavahound_17
78: Ekullam_16
79: Ximenita_19
80: Amohnition_19
81: Krueger_18 + 1
82: November_17
83: Amilnay_17
84: Boilgate_16

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 347162 Report

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

Pham number 347162 has 313 members, 21 are drafts.

Phages represented in each track:
• Track 1 : PinkYoshi_14, BQuat_14, Neoh_14, Coleslaw_14, Annihilator_14
• Track 2 : Darionha_14, Crespo_14, ShaboiShabazz_14, Frosty24_14, Jeilious_14, ZoMa_14, Gideon_14, Ruriko_14, DingDing_14, Jolene_14, AizenPogi_14, Rattrick_14, Jane_14, Zombie_14, Mowgli_14, Phloodle_14, Richarlison_14, Terralys_14, CassieYates_14, Cedasite_14, Angel_14, Camri_14, OctaviousRex_15, DMoney_14, ECartman_14, Kasen3_14, Sweets_14, Wendigo_14, Peeb_14, Gomashi_15, Cherrybomb426_14, Marmie_14, Periodt_14, Kareem_14, Jonghyun_14, Renaissance_14, Schiebel_14, Plagueis_14, Olga_14, Sizemore_14, Aroostook_14, Barkley26_14, Phish_14, MZKinsey_14, Hotshotbaby7_14, Hope_15, TomBrady_14, Chance64_15, BruceB_14, Grizzly_14, Maliketh_14, Avrafan_14, AzulaCat_14, JorRay_14, LouisV14_14, Phreak_14, Liefie_14, BPs_14, Primanti_14
• Track 3 : CLED96_14, DNAIII_0014, Remy19_14, GoldenAsh_14
• Track 4 : ForeverHowLong_14, TinaBug_14, Halo_14
• Track 5 : Taheera_14, Terror_14
• Track 6 : Rabbs_14, Sneeze_14
• Track 7 : Paito_14
• Track 8 : Cambiare_15, Avocado_14
• Track 9 : GodSpeed_14
• Track 10 : Pace1224_14
• Track 11 : FlagStaff_14
• Track 12 : Cloudyecho_14
• Track 13 : MOOREtheMARYer_14
• Track 14 : Pinnie_15
• Track 15 : Lemuria_14
• Track 16 : Jolie2_14
• Track 17 : Mercurio_15
• Track 18 : Antsirabe_14
• Track 19 : YangYin_14
• Track 20 : Stargaze_14
• Track 21 : Clipper_19, Deby_19, CheetoDust_19, Adonis_19, Angelica_19, Ganymede_20, Prithvi_19, Sulley_19, Tiri_19, Megsy_19, MacKat_19, LindNT_19, TreyKay_19, QuincyRose_18, BaghaKamala_19, TaiwanKao_20, Pokerus_18, Joy99_19
• Track 22 : JAWS_19, AlishaPH_19, Padpat_19, Capricorn_19, Blizzard_19, BEEST_19, Belladonna_19, Lunahalos_19, Adephagia_19, Durfee_19, Tachez_19, ActinUp_19, YoureAdopted_18, Mynx_19, Homura_19, Spock_19, MeaningOfLife_19, ShiaSurprise_19, Emerson_20, Llorens_19, Jayhawk_19,

CREW_19, Rosmarinus_19, Ramen_19, CaseJules_19, Asayake_19, Jarvi_19, TruffulaTree_19, BGlluviae_19, Peel_19, Piatt_19, Padfoot_19, Lokum_19, Dalmuri_19, Topper_19, Boiiii_19, Atiba_19, Rapunzel97_19, Hyperbowlee_19, BarrelRoll_19, Twitch_19, Inky_20, Zabiza_19, Jeckyll_19, Veliki_19, Slimphazie_19, HedwigODU_19
• Track 23 : LilPharaoh_15, Mdavu_15, Enkosi_15, Nikao_15, Nutello_15, Teejan_15, Trice_15, SgtBeansprout_15, Torres_15, Biglebops_15, Amelie_15
• Track 24 : Yunkel11_19, Efra2_19, Guanica15_19
• Track 25 : Bern_19, Kheparia_21
• Track 26 : Shaobing_19, Richo_19, Niklas_19, Dartin_19, McMater_19
• Track 27 : Ageofdapage_19, Stinson_19, Devera_19, LaterM_19, Dole_19, Murucutumbu_19, Illumine_19
• Track 28 : CallaLilly_19, Beezoo_19, Geraldini_19
• Track 29 : MarkPhew_19
• Track 30 : TingHuaYa_19, LastHope_20
• Track 31 : CrimD_20
• Track 32 : SamuelLPlaqson_19, Urkel_19, Anma_19, DrHayes_19, TiniBug_19
• Track 33 : Anaya_20
• Track 34 : Curiosium_20
• Track 35 : Pisa1_18, Pisa4_18
• Track 36 : LeMond_18, Scarlett_18
• Track 37 : Peanam_19
• Track 38 : Bella96_19, DartGoblin_19
• Track 39 : Chavito_19
• Track 40 : Validus_19
• Track 41 : KiSi_18
• Track 42 : Oscar_18
• Track 43 : Chris_18
• Track 44 : Apocalypse_19, Zavala_19
• Track 45 : Nibb_18
• Track 46 : Doughnut_15, Mufasa_15, BoostSeason_15
• Track 47 : TM4_15
• Track 48 : Milly_15, Marcoliusprime_15, Findley_15, DismalFunk_16, Strobilo_15, DismalStressor_15
• Track 49 : ZoeJ_15
• Track 50 : Pharb_18
• Track 51 : Neighly_17, AlleyCat_17, Collard_18, Psycho_17, Rando14_17, Larva_17
• Track 52 : TribleTrouble_17
• Track 53 : ShedlockHolmes_18, TBond007_18, Lea83_18, Hurricane_18, Pixie_19
• Track 54 : MacnCheese_19
• Track 55 : Keshu_18
• Track 56 : MissDaisy_20, Bobquesha_20, Patt_21, Reptar3000_20
• Track 57 : Chancellor_20, Slarp_21, Fionnbharth_20, Lebo14_20, Nolwazi_20, JF1_20, Qhanda_20, YasnayaPolyana_21, DanSyl44_20, Cheetobro_20, SamScheppers_18, Y2_20, Wintermute_20, Mitti_20, Y10_20
• Track 58 : Juliette_20, Taquito_18, Ruthiejr_19, Eponine_20
• Track 59 : OmniCritical_20
• Track 60 : Kraw_20, Malthus_20
• Track 61 : Dadosky_17, LilDirt_16, InvictusManeo_17, Edugator_17, Agent47_17, ViviJ_16, DoubleChamp_17, BananenDer11_17
• Track 62 : Omnicron_18
• Track 63 : Thyatira_17, Feyre_17, Waterfoul_17

• Track 64 : Miryou_17, SoSeph_17, OkiRoe_17, Heftyboy_17, Guillsminger_18, Gengar_17, Leston_17, Paola_17
• Track 65 : Kratio_16
• Track 66 : Syra333_18
• Track 67 : Yuna_19
• Track 68 : SirPhilip_18
• Track 69 : Applecrisp_17, Fefferhead_18, Ellie_16
• Track 70 : Amgine_17
• Track 71 : Bryler_18, Cain_18, Phrank_18, Tierra_18
• Track 72 : DarthP_18, Hammy_18
• Track 73 : Shadow1_17, Sunflower1121_17
• Track 74 : Marshawn_20
• Track 75 : PhelpsODU_18, Unicorn_18
• Track 76 : TClif_18
• Track 77 : Lavahound_17
• Track 78 : Ekdilam_16
• Track 79 : Ximenita_19
• Track 80 : Amohnition_19
• Track 81 : Krueger_18, Tigress9_18
• Track 82 : November_17
• Track 83 : Aminay_17
• Track 84 : Boilgate_16

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

The start number called the most often in the published annotations is 15, it was called in 122 of the 292 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• ActinUp_19, Adephagia_19, Adonis_19, Ageofdapage_19, AlishaPH_19, Amelie_15, Amohnition_19, Anaya_20, Angelica_19, Anma_19, Apocalypse_19, Applecrisp_17, Asayake_19, Atiba_19, BEEST_19, BGlluviae_19, BaghaKamala_19, BarrelRoll_19, Beezoo_19, Bella96_19, Belladonna_19, Bern_19, Biglebops_15, Blizzard_19, Boiiii_19, CREW_19, CallaLilly_19, Capricorn_19, CaseJules_19, CheetoDust_19, Chris_18, Clipper_19, CrimD_20, Dalmuri_19, DartGoblin_19, DarthP_18, Deby_19, Devera_19, Dole_19, DrHayes_19, Durfee_19, Ekdilam_16, Ellie_16, Emerson_20, Enkosi_15, Fefferhead_18, Ganymede_20, Geraldini_19, Hammy_18, HedwigODU_19, Homura_19, Hurricane_18, Hyperbowlee_19, Illumine_19, Inky_20, JAWS_19, Jarvi_19, Jayhawk_19, Jeckyll_19, Joy99_19, Keshu_18, Kheparia_21, KiSi_18, LaterM_19, Lavahound_17, LeMond_18, Lea83_18, LilPharaoh_15, LindNT_19, Llorens_19, Lokum_19, Lunahalos_19, MacKat_19, MacnCheese_19, MarkPhew_19, Marshawn_20, Mdavu_15, MeaningOfLife_19, Megsy_19, Murucutumbu_19, Mynx_19, Nibb_18, Nikao_15, November_17, Nutello_15, Oscar_18, Padfoot_19, Padpat_19, Peel_19, Pharb_18, Piatt_19, Pisa1_18, Pisa4_18, Pixie_19, Pokerus_18, Prithvi_19, QuincyRose_18, Ramen_19, Rapunzel97_19, Rosmarinus_19, SamuelLPlaqson_19, Scarlett_18, SgtBeansprout_15, ShedlockHolmes_18, ShiaSurprise_19, SirPhilip_18, Slimphazie_19, Spock_19, Stinson_19, Sulley_19, TBond007_18, Tachez_19, TaiwanKao_20, Teejan_15, TiniBug_19, Tiri_19, Topper_19, Torres_15, TreyKay_19, TribleTrouble_17, Trice_15, TruffulaTree_19, Twitch_19, Urkel_19, Veliki_19,

YoureAdopted_18, Yuna_19, Zabiza_19, Zavala_19,

Genes that have the "Most Annotated" start but do not call it:
• Amgine_17,

Genes that do not have the "Most Annotated" start:
• Agent47_17, AizenPogi_14, AlleyCat_17, Aminay_17, Angel_14, Annihilator_14, Antsirabe_14, Aroostook_14, Avocado_14, Avrafan_14, AzulaCat_14, BPs_14, BQuat_14, BananenDer11_17, Barkley26_14, Bobquesha_20, Boilgate_16, BoostSeason_15, BruceB_14, Bryler_18, CLED96_14, Cain_18, Cambiare_15, Camri_14, CassieYates_14, Cedasite_14, Chance64_15, Chancellor_20, Chavito_19, Cheetobro_20, Cherrybomb426_14, Cloudyecho_14, Coleslaw_14, Collard_18, Crespo_14, Curiosium_20, DMoney_14, DNAIII_0014, Dadosky_17, DanSyl44_20, Darionha_14, Dartin_19, DingDing_14, DismalFunk_16, DismalStressor_15, DoubleChamp_17, Doughnut_15, ECartman_14, Edugator_17, Efra2_19, Eponine_20, Feyre_17, Findley_15, Fionnbharth_20, FlagStaff_14, ForeverHowLong_14, Frosty24_14, Gengar_17, Gideon_14, GodSpeed_14, GoldenAsh_14, Gomashi_15, Grizzly_14, Guanica15_19, Guillsminger_18, Halo_14, Heftyboy_17, Hope_15, Hotshotbaby7_14, InvictusManeo_17, JF1_20, Jane_14, Jeilious_14, Jolene_14, Jolie2_14, Jonghyun_14, JorRay_14, Juliette_20, Kareem_14, Kasen3_14, Kratio_16, Kraw_20, Krueger_18, Larva_17, LastHope_20, Lebo14_20, Lemuria_14, Leston_17, Liefie_14, LilDirt_16, LouisV14_14, MOOREtheMARYer_14, MZKinsey_14, Maliketh_14, Malthus_20, Marcoliusprime_15, Marmie_14, McMater_19, Mercurio_15, Milly_15, Miryou_17, MissDaisy_20, Mitti_20, Mowgli_14, Mufasa_15, Neighly_17, Neoh_14, Niklas_19, Nolwazi_20, OctaviousRex_15, OkiRoe_17, Olga_14, OmniCritical_20, Omnicron_18, Pace1224_14, Paito_14, Paola_17, Patt_21, Peanam_19, Peeb_14, Periodt_14, PhelpsODU_18, Phish_14, Phloodle_14, Phrank_18, Phreak_14, PinkYoshi_14, Pinnie_15, Plagueis_14, Primanti_14, Psycho_17, Qhanda_20, Rabbs_14, Rando14_17, Rattrick_14, Remy19_14, Renaissance_14, Reptar3000_20, Richarlison_14, Richo_19, Ruriko_14, Ruthiejr_19, SamScheppers_18, Schiebel_14, ShaboiShabazz_14, Shadow1_17, Shaobing_19, Sizemore_14, Slarp_21, Sneeze_14, SoSeph_17, Stargaze_14, Strobilo_15, Sunflower1121_17, Sweets_14, Syra333_18, TClif_18, TM4_15, Taheera_14, Taquito_18, Terralys_14, Terror_14, Thyatira_17, Tierra_18, Tigress9_18, TinaBug_14, TingHuaYa_19, TomBrady_14, Unicorn_18, Validus_19, ViviJ_16, Waterfoul_17, Wendigo_14, Wintermute_20, Ximenita_19, Y10_20, Y2_20, YangYin_14, YasnayaPolyana_21, Yunkel11_19, ZoMa_14, ZoeJ_15, Zombie_14,

Summary by start number:

Start 1:
• Found in 4 of 313 (1.3%) of genes in pham
• Manual Annotations of this start: 1 of 292
• Called 25.0% of time when present
• Phage (with cluster) where this start called: Stargaze_14 (G5),

Start 2:
• Found in 76 of 313 (24.3%) of genes in pham
• Manual Annotations of this start: 5 of 292
• Called 6.6% of time when present
• Phage (with cluster) where this start called: CLED96_14 (G1), DNAIII_0014 (G1), FlagStaff_14 (G2), GoldenAsh_14 (G1), Remy19_14 (G1),

Start 5:
• Found in 118 of 313 (37.7%) of genes in pham
• Manual Annotations of this start: 2 of 292
• Called 1.7% of time when present
• Phage (with cluster) where this start called: Peanam_19 (K1), Validus_19 (K1),

Start 7:
• Found in 1 of 313 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 292
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Boilgate_16 (K8),

Start 8:
• Found in 141 of 313 (45.0%) of genes in pham
• Manual Annotations of this start: 11 of 292
• Called 8.5% of time when present
• Phage (with cluster) where this start called: AlleyCat_17 (K5), Amgine_17 (K6), Collard_18 (K5), Curiosium_20 (K1), Kratio_16 (K5), Krueger_18 (K6), Larva_17 (K5), Neighly_17 (K3), Omnicron_18 (K5), Psycho_17 (K5), Rando14_17 (K5), Tigress9_18 (K6),

Start 9:
• Found in 80 of 313 (25.6%) of genes in pham
• Manual Annotations of this start: 70 of 292
• Called 93.8% of time when present
• Phage (with cluster) where this start called: AizenPogi_14 (G1), Angel_14 (G1), Annihilator_14 (G1), Aroostook_14 (G1), Avrafan_14 (G1), AzulaCat_14 (G1), BPs_14 (G1), BQuat_14 (G1), Barkley26_14 (G1), BruceB_14 (G1), Camri_14 (G1), CassieYates_14 (G1), Cedasite_14 (G1), Chance64_15 (G1), Cherrybomb426_14 (G1), Coleslaw_14 (G1), Crespo_14 (G1), DMoney_14 (G1), Darionha_14 (G1), DingDing_14 (G1), ECartman_14 (G1), ForeverHowLong_14 (G1), Frosty24_14 (G1), Gideon_14 (G1), Gomashi_15 (G1), Grizzly_14 (G1), Halo_14 (G1), Hope_15 (G1), Hotshotbaby7_14 (G1), Jane_14 (G1), Jeilious_14 (G), Jolene_14 (G1), Jolie2_14 (G4), Jonghyun_14 (G1), JorRay_14 (G1), Kareem_14 (G1), Kasen3_14 (G1), Lemuria_14 (G4), Liefie_14 (G1), LouisV14_14 (G1), MZKinsey_14 (G1), Maliketh_14 (G1), Marmie_14 (G1), Mercurio_15 (G4), Mowgli_14 (G1), Neoh_14 (G), OctaviousRex_15 (G1), Olga_14 (G1), Paito_14 (G1), Peeb_14 (G1), Periodt_14 (G1), Phish_14 (G1), Phloodle_14 (G1), Phreak_14 (G1), PinkYoshi_14 (G1), Plagueis_14 (G1), Primanti_14 (G1), Rabbs_14 (G1), Rattrick_14 (G1), Renaissance_14 (G1), Richarlison_14 (G1), Ruriko_14 (G1), Schiebel_14 (G1), ShaboiShabazz_14 (G1), Sizemore_14 (G1), Sneeze_14 (G1), Sweets_14 (G1), Taheera_14 (G1), Terralys_14 (G1), Terror_14 (G1), TinaBug_14 (G1), TomBrady_14 (G1), Wendigo_14 (G1), ZoMa_14 (G1), Zombie_14 (G1),

Start 10:
• Found in 12 of 313 (3.8%) of genes in pham
• Manual Annotations of this start: 7 of 292
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Antsirabe_14 (G5), Avocado_14 (G2), Cambiare_15 (G2), Cloudyecho_14 (G3), MOOREtheMARYer_14 (G3), Pace1224_14 (G2), Pinnie_15 (G3), YangYin_14 (G5),

Start 11:
• Found in 1 of 313 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 292
• Called 100.0% of time when present
• Phage (with cluster) where this start called: GodSpeed_14 (G2),

Start 13:
• Found in 38 of 313 (12.1%) of genes in pham
• Manual Annotations of this start: 34 of 292
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Aminay_17 (K7), Bobquesha_20 (K4), BoostSeason_15 (K2), Chancellor_20 (K4), Cheetobro_20 (K4), DanSyl44_20 (K4), DismalFunk_16 (K2), DismalStressor_15 (K2), Doughnut_15 (K2), Eponine_20 (K4), Findley_15 (K2), Fionnbharth_20 (K4), JF1_20 (K4), Juliette_20 (K4), Kraw_20 (K4), Lebo14_20 (K4), Malthus_20 (K4), Marcoliusprime_15 (K2), Milly_15 (K2), MissDaisy_20 (K4), Mitti_20 (K4), Mufasa_15 (K2), Nolwazi_20 (K4), OmniCritical_20 (K4), Patt_21 (K4), Qhanda_20 (K4), Reptar3000_20 (K4), Ruthiejr_19 (K4), SamScheppers_18 (K4), Slarp_21 (K4), Strobilo_15 (K2), TM4_15 (K2), Taquito_18 (K4), Wintermute_20 (K4), Y10_20 (K4), Y2_20 (K4), YasnayaPolyana_21 (K4), ZoeJ_15 (K2),

Start 14:
• Found in 29 of 313 (9.3%) of genes in pham
• Manual Annotations of this start: 18 of 292
• Called 65.5% of time when present
• Phage (with cluster) where this start called: Agent47_17 (K5), BananenDer11_17 (K5), Dadosky_17 (K5), DoubleChamp_17 (K5), Edugator_17 (K5), Feyre_17 (K5), Gengar_17 (K5), Guillsminger_18 (K5), Heftyboy_17 (K5), InvictusManeo_17 (K5), Leston_17 (K5), LilDirt_16 (K5), Miryou_17 (K5), OkiRoe_17 (K5), Paola_17 (K5), SoSeph_17 (K5), Thyatira_17 (K5), ViviJ_16 (K5), Waterfoul_17 (K5),

Start 15:
• Found in 130 of 313 (41.5%) of genes in pham
• Manual Annotations of this start: 122 of 292
• Called 99.2% of time when present
• Phage (with cluster) where this start called: ActinUp_19 (K1), Adephagia_19 (K1), Adonis_19 (K1), Ageofdapage_19 (K1), AlishaPH_19 (K1), Amelie_15 (K1), Amohnition_19 (K6), Anaya_20 (K1), Angelica_19 (K1), Anma_19 (K1), Apocalypse_19 (K1), Applecrisp_17 (K6), Asayake_19 (K1), Atiba_19 (K1), BEEST_19 (K1), BGlluviae_19 (K1), BaghaKamala_19 (K1), BarrelRoll_19 (K1), Beezoo_19 (K1), Bella96_19 (K1), Belladonna_19 (K1), Bern_19 (K1), Biglebops_15 (K1), Blizzard_19 (K1), Boiiii_19 (K1), CREW_19 (K1), CallaLilly_19 (K1), Capricorn_19 (K1), CaseJules_19 (K1), CheetoDust_19 (K1), Chris_18 (K1), Clipper_19 (K1), CrimD_20 (K1), Dalmuri_19 (K1), DartGoblin_19 (K1), DarthP_18 (K6), Deby_19 (K1), Devera_19 (K1), Dole_19 (K1), DrHayes_19 (K1), Durfee_19 (K1), Ekdilam_16 (K6), Ellie_16 (K6), Emerson_20 (K1), Enkosi_15 (K1), Fefferhead_18 (K6), Ganymede_20 (K1), Geraldini_19 (K1), Hammy_18 (K6), HedwigODU_19 (K1), Homura_19 (K1), Hurricane_18 (K3), Hyperbowlee_19 (K1), Illumine_19 (K1), Inky_20 (K1), JAWS_19 (K1), Jarvi_19 (K1), Jayhawk_19 (K1), Jeckyll_19 (K1), Joy99_19 (K1), Keshu_18 (K3), Kheparia_21 (K1), KiSi_18 (K1), LaterM_19 (K1), Lavahound_17 (K6), LeMond_18 (K1), Lea83_18 (K3), LilPharaoh_15 (K1), LindNT_19 (K1), Llorens_19 (K1), Lokum_19 (K1), Lunahalos_19 (K1), MacKat_19 (K1), MacnCheese_19 (K3), MarkPhew_19 (K1),

Marshawn_20 (K6), Mdavu_15 (K1), MeaningOfLife_19 (K1), Megsy_19 (K1), Murucutumbu_19 (K1), Mynx_19 (K1), Nibb_18 (K1), Nikao_15 (K1), November_17 (K6), Nutello_15 (K1), Oscar_18 (K1), Padfoot_19 (K1), Padpat_19 (K1), Peel_19 (K1), Pharb_18 (K3), Piatt_19 (K1), Pisa1_18 (K1), Pisa4_18 (K1), Pixie_19 (K3), Pokerus_18 (K1), Prithvi_19 (K1), QuincyRose_18 (K1), Ramen_19 (K1), Rapunzel97_19 (K1), Rosmarinus_19 (K1), SamuelLPlaqson_19 (K1), Scarlett_18 (K1), SgtBeansprout_15 (K1), ShedlockHolmes_18 (K3), ShiaSurprise_19 (K1), SirPhilip_18 (K6), Slimphazie_19 (K1), Spock_19 (K1), Stinson_19 (K1), Sulley_19 (K1), TBond007_18 (K3), Tachez_19 (K1), TaiwanKao_20 (K1), Teejan_15 (K1), TiniBug_19 (K1), Tiri_19 (K1), Topper_19 (K1), Torres_15 (K1), TreyKay_19 (K1), TribleTrouble_17 (K3), Trice_15 (K1), TruffulaTree_19 (K1), Twitch_19 (K1), Urkel_19 (K1), Veliki_19 (K1), YoureAdopted_18 (K1), Yuna_19 (K6), Zabiza_19 (K1), Zavala_19 (K1),

Start 16:
• Found in 28 of 313 (8.9%) of genes in pham
• Manual Annotations of this start: 20 of 292
• Called 78.6% of time when present
• Phage (with cluster) where this start called: Bryler_18 (K6), Cain_18 (K6), Chavito_19 (K1), Dartin_19 (K1), Efra2_19 (K1), Guanica15_19 (K1), LastHope_20 (K1), McMater_19 (K1), Niklas_19 (K1), PhelpsODU_18 (K6), Phrank_18 (K6), Richo_19 (K1), Shadow1_17 (K6), Shaobing_19 (K1), Sunflower1121_17 (K6), Syra333_18 (K6), TClif_18 (K6), Tierra_18 (K6), TingHuaYa_19 (K1), Unicorn_18 (K6), Ximenita_19 (K6), Yunkel11_19 (K1),

Summary by clusters:

There are 14 clusters represented in this pham: G5, G4, G3, G1, G, K3, K2, K1, K7, K6, K5, K4, K8, G2,

Info for manual annotations of cluster G:
•Start number 9 was manually annotated 2 times for cluster G.

Info for manual annotations of cluster G1:
•Start number 2 was manually annotated 4 times for cluster G1.
•Start number 9 was manually annotated 66 times for cluster G1.

Info for manual annotations of cluster G2:
•Start number 2 was manually annotated 1 time for cluster G2.
•Start number 10 was manually annotated 2 times for cluster G2.
•Start number 11 was manually annotated 1 time for cluster G2.

Info for manual annotations of cluster G3:
•Start number 10 was manually annotated 3 times for cluster G3.

Info for manual annotations of cluster G4:
•Start number 9 was manually annotated 2 times for cluster G4.

Info for manual annotations of cluster G5:
•Start number 1 was manually annotated 1 time for cluster G5.
•Start number 10 was manually annotated 2 times for cluster G5.

Info for manual annotations of cluster K1:

•Start number 5 was manually annotated 2 times for cluster K1.
•Start number 8 was manually annotated 1 time for cluster K1.
•Start number 15 was manually annotated 101 times for cluster K1.
•Start number 16 was manually annotated 9 times for cluster K1.

Info for manual annotations of cluster K2:
•Start number 13 was manually annotated 11 times for cluster K2.

Info for manual annotations of cluster K3:
•Start number 15 was manually annotated 9 times for cluster K3.

Info for manual annotations of cluster K4:
•Start number 13 was manually annotated 22 times for cluster K4.

Info for manual annotations of cluster K5:
•Start number 8 was manually annotated 7 times for cluster K5.
•Start number 14 was manually annotated 18 times for cluster K5.

Info for manual annotations of cluster K6:
•Start number 8 was manually annotated 3 times for cluster K6.
•Start number 15 was manually annotated 12 times for cluster K6.
•Start number 16 was manually annotated 11 times for cluster K6.

Info for manual annotations of cluster K7:
•Start number 13 was manually annotated 1 time for cluster K7.

Info for manual annotations of cluster K8:
•Start number 7 was manually annotated 1 time for cluster K8.

Gene Information:

Gene: ActinUp_19 Start: 11232, Stop: 11669, Start Num: 15
Candidate Starts for ActinUp_19:
(Start: 5 @11154 has 2 MA's), (Start: 8 @11166 has 11 MA's), (Start: 15 @11232 has 122 MA's), (24, 11289), (34, 11406), (42, 11529), (47, 11595),

Gene: Adephagia_19 Start: 11232, Stop: 11669, Start Num: 15
Candidate Starts for Adephagia_19:
(Start: 5 @11154 has 2 MA's), (Start: 8 @11166 has 11 MA's), (Start: 15 @11232 has 122 MA's), (24, 11289), (34, 11406), (42, 11529), (47, 11595),

Gene: Adonis_19 Start: 11241, Stop: 11678, Start Num: 15
Candidate Starts for Adonis_19:
(Start: 5 @11163 has 2 MA's), (Start: 8 @11175 has 11 MA's), (Start: 15 @11241 has 122 MA's), (24, 11298), (42, 11538), (47, 11604),

Gene: Agent47_17 Start: 11377, Stop: 11823, Start Num: 14
Candidate Starts for Agent47_17:
(Start: 8 @11332 has 11 MA's), (Start: 14 @11377 has 18 MA's), (28, 11461), (32, 11512), (36, 11593),

Gene: Ageofdapage_19 Start: 11170, Stop: 11604, Start Num: 15

Candidate Starts for Ageofdapage_19:
(Start: 5 @11092 has 2 MA's), (Start: 8 @11104 has 11 MA's), (Start: 15 @11170 has 122 MA's), (32, 11293), (42, 11464), (47, 11530),

Gene: AizenPogi_14 Start: 10569, Stop: 11078, Start Num: 9
Candidate Starts for AizenPogi_14:
(Start: 2 @10494 has 5 MA's), (4, 10524), (Start: 9 @10569 has 70 MA's), (32, 10755), (43, 10947), (48, 11019),

Gene: AlishaPH_19 Start: 11228, Stop: 11665, Start Num: 15
Candidate Starts for AlishaPH_19:
(Start: 5 @11150 has 2 MA's), (Start: 8 @11162 has 11 MA's), (Start: 15 @11228 has 122 MA's), (24, 11285), (34, 11402), (42, 11525), (47, 11591),

Gene: AlleyCat_17 Start: 11208, Stop: 11699, Start Num: 8
Candidate Starts for AlleyCat_17:
(Start: 8 @11208 has 11 MA's), (Start: 14 @11253 has 18 MA's), (28, 11337), (32, 11388), (36, 11469),

Gene: Amelie_15 Start: 10504, Stop: 10920, Start Num: 15
Candidate Starts for Amelie_15:
(Start: 15 @10504 has 122 MA's), (42, 10780),

Gene: Amgine_17 Start: 10940, Stop: 11455, Start Num: 8
Candidate Starts for Amgine_17:
(Start: 8 @10940 has 11 MA's), (Start: 15 @11003 has 122 MA's), (19, 11045), (32, 11144), (47, 11381),

Gene: Aminay_17 Start: 11067, Stop: 11555, Start Num: 13
Candidate Starts for Aminay_17:
(Start: 5 @11001 has 2 MA's), (Start: 13 @11067 has 34 MA's), (18, 11121), (23, 11163), (25, 11175), (35, 11319), (36, 11325), (41, 11406), (43, 11436),

Gene: Amohnition_19 Start: 11325, Stop: 11780, Start Num: 15
Candidate Starts for Amohnition_19:
(Start: 8 @11256 has 11 MA's), (Start: 15 @11325 has 122 MA's), (19, 11370), (32, 11469), (41, 11631), (47, 11706),

Gene: Anaya_20 Start: 11244, Stop: 11687, Start Num: 15
Candidate Starts for Anaya_20:
(Start: 15 @11244 has 122 MA's), (42, 11547), (47, 11613),

Gene: Angel_14 Start: 10569, Stop: 11078, Start Num: 9
Candidate Starts for Angel_14:
(Start: 2 @10494 has 5 MA's), (4, 10524), (Start: 9 @10569 has 70 MA's), (32, 10755), (43, 10947), (48, 11019),

Gene: Angelica_19 Start: 11203, Stop: 11640, Start Num: 15
Candidate Starts for Angelica_19:
(Start: 5 @11125 has 2 MA's), (Start: 8 @11137 has 11 MA's), (Start: 15 @11203 has 122 MA's), (24, 11260), (42, 11500), (47, 11566),

Gene: Anma_19 Start: 11173, Stop: 11613, Start Num: 15
Candidate Starts for Anma_19:

(Start: 5 @11095 has 2 MA's), (Start: 8 @11107 has 11 MA's), (12, 11134), (Start: 15 @11173 has 122 MA's), (42, 11473), (47, 11539),

Gene: Annihilator_14 Start: 10560, Stop: 11069, Start Num: 9
Candidate Starts for Annihilator_14:
(Start: 2 @10494 has 5 MA's), (4, 10524), (Start: 9 @10560 has 70 MA's), (32, 10746), (43, 10938), (48, 11010),

Gene: Antsirabe_14 Start: 10908, Stop: 11438, Start Num: 10
Candidate Starts for Antsirabe_14:
(Start: 10 @10908 has 7 MA's), (29, 11058), (38, 11214), (39, 11232), (40, 11259), (45, 11325), (47, 11352),

Gene: Apocalypse_19 Start: 11206, Stop: 11643, Start Num: 15
Candidate Starts for Apocalypse_19:
(Start: 5 @11128 has 2 MA's), (Start: 8 @11140 has 11 MA's), (Start: 15 @11206 has 122 MA's), (24, 11263), (34, 11380), (42, 11503), (47, 11569),

Gene: Applecrisp_17 Start: 11411, Stop: 11866, Start Num: 15
Candidate Starts for Applecrisp_17:
(Start: 8 @11345 has 11 MA's), (Start: 15 @11411 has 122 MA's), (19, 11456), (32, 11555), (47, 11792), (48, 11819),

Gene: Aroostook_14 Start: 10569, Stop: 11078, Start Num: 9
Candidate Starts for Aroostook_14:
(Start: 2 @10494 has 5 MA's), (4, 10524), (Start: 9 @10569 has 70 MA's), (32, 10755), (43, 10947), (48, 11019),

Gene: Asayake_19 Start: 11269, Stop: 11706, Start Num: 15
Candidate Starts for Asayake_19:
(Start: 5 @11191 has 2 MA's), (Start: 8 @11203 has 11 MA's), (Start: 15 @11269 has 122 MA's), (24, 11326), (34, 11443), (42, 11566), (47, 11632),

Gene: Atiba_19 Start: 11195, Stop: 11632, Start Num: 15
Candidate Starts for Atiba_19:
(Start: 5 @11117 has 2 MA's), (Start: 8 @11129 has 11 MA's), (Start: 15 @11195 has 122 MA's), (24, 11252), (34, 11369), (42, 11492), (47, 11558),

Gene: Avocado_14 Start: 10731, Stop: 11291, Start Num: 10
Candidate Starts for Avocado_14:
(Start: 1 @10641 has 1 MA's), (Start: 10 @10731 has 7 MA's), (31, 10929), (38, 11067), (47, 11205), (48, 11232), (50, 11277),

Gene: Avrafan_14 Start: 10569, Stop: 11078, Start Num: 9
Candidate Starts for Avrafan_14:
(Start: 2 @10494 has 5 MA's), (4, 10524), (Start: 9 @10569 has 70 MA's), (32, 10755), (43, 10947), (48, 11019),

Gene: AzulaCat_14 Start: 10569, Stop: 11078, Start Num: 9
Candidate Starts for AzulaCat_14:
(Start: 2 @10494 has 5 MA's), (4, 10524), (Start: 9 @10569 has 70 MA's), (32, 10755), (43, 10947), (48, 11019),

Gene: BEEST_19 Start: 11269, Stop: 11706, Start Num: 15
Candidate Starts for BEEST_19:
(Start: 5 @11191 has 2 MA's), (Start: 8 @11203 has 11 MA's), (Start: 15 @11269 has 122 MA's), (24, 11326), (34, 11443), (42, 11566), (47, 11632),

Gene: BGlluviae_19 Start: 11269, Stop: 11706, Start Num: 15
Candidate Starts for BGlluviae_19:
(Start: 5 @11191 has 2 MA's), (Start: 8 @11203 has 11 MA's), (Start: 15 @11269 has 122 MA's), (24, 11326), (34, 11443), (42, 11566), (47, 11632),

Gene: BPs_14 Start: 10569, Stop: 11078, Start Num: 9
Candidate Starts for BPs_14:
(Start: 2 @10494 has 5 MA's), (4, 10524), (Start: 9 @10569 has 70 MA's), (32, 10755), (43, 10947), (48, 11019),

Gene: BQuat_14 Start: 10560, Stop: 11069, Start Num: 9
Candidate Starts for BQuat_14:
(Start: 2 @10494 has 5 MA's), (4, 10524), (Start: 9 @10560 has 70 MA's), (32, 10746), (43, 10938), (48, 11010),

Gene: BaghaKamala_19 Start: 11198, Stop: 11635, Start Num: 15
Candidate Starts for BaghaKamala_19:
(Start: 5 @11120 has 2 MA's), (Start: 8 @11132 has 11 MA's), (Start: 15 @11198 has 122 MA's), (24, 11255), (42, 11495), (47, 11561),

Gene: BananenDer11_17 Start: 11338, Stop: 11784, Start Num: 14
Candidate Starts for BananenDer11_17:
(Start: 8 @11293 has 11 MA's), (Start: 14 @11338 has 18 MA's), (28, 11422), (32, 11473), (36, 11554),

Gene: Barkley26_14 Start: 10569, Stop: 11078, Start Num: 9
Candidate Starts for Barkley26_14:
(Start: 2 @10494 has 5 MA's), (4, 10524), (Start: 9 @10569 has 70 MA's), (32, 10755), (43, 10947), (48, 11019),

Gene: BarrelRoll_19 Start: 11221, Stop: 11658, Start Num: 15
Candidate Starts for BarrelRoll_19:
(Start: 5 @11143 has 2 MA's), (Start: 8 @11155 has 11 MA's), (Start: 15 @11221 has 122 MA's), (24, 11278), (34, 11395), (42, 11518), (47, 11584),

Gene: Beezoo_19 Start: 11245, Stop: 11682, Start Num: 15
Candidate Starts for Beezoo_19:
(Start: 15 @11245 has 122 MA's), (24, 11302), (34, 11419), (42, 11542), (47, 11608),

Gene: Bella96_19 Start: 11152, Stop: 11595, Start Num: 15
Candidate Starts for Bella96_19:
(Start: 5 @11074 has 2 MA's), (Start: 8 @11086 has 11 MA's), (Start: 15 @11152 has 122 MA's), (42, 11455), (47, 11521),

Gene: Belladonna_19 Start: 11269, Stop: 11706, Start Num: 15
Candidate Starts for Belladonna_19:
(Start: 5 @11191 has 2 MA's), (Start: 8 @11203 has 11 MA's), (Start: 15 @11269 has 122 MA's), (24, 11326), (34, 11443), (42, 11566), (47, 11632),

Gene: Bern_19 Start: 11183, Stop: 11623, Start Num: 15
Candidate Starts for Bern_19:
(Start: 5 @11105 has 2 MA's), (Start: 8 @11117 has 11 MA's), (Start: 15 @11183 has 122 MA's), (32, 11312), (42, 11483), (47, 11549),

Gene: Biglebops_15 Start: 10504, Stop: 10920, Start Num: 15
Candidate Starts for Biglebops_15:
(Start: 15 @10504 has 122 MA's), (42, 10780),

Gene: Blizzard_19 Start: 11269, Stop: 11706, Start Num: 15
Candidate Starts for Blizzard_19:
(Start: 5 @11191 has 2 MA's), (Start: 8 @11203 has 11 MA's), (Start: 15 @11269 has 122 MA's), (24, 11326), (34, 11443), (42, 11566), (47, 11632),

Gene: Bobquesha_20 Start: 12184, Stop: 12633, Start Num: 13
Candidate Starts for Bobquesha_20:
(Start: 5 @12121 has 2 MA's), (Start: 13 @12184 has 34 MA's), (30, 12283), (33, 12337), (36, 12403),

Gene: Boiiii_19 Start: 11271, Stop: 11708, Start Num: 15
Candidate Starts for Boiiii_19:
(Start: 5 @11193 has 2 MA's), (Start: 8 @11205 has 11 MA's), (Start: 15 @11271 has 122 MA's), (24, 11328), (34, 11445), (42, 11568), (47, 11634),

Gene: Boilgate_16 Start: 11192, Stop: 11695, Start Num: 7
Candidate Starts for Boilgate_16:
(Start: 7 @11192 has 1 MA's), (18, 11297), (40, 11528), (42, 11555), (48, 11648),

Gene: BoostSeason_15 Start: 9260, Stop: 9730, Start Num: 13
Candidate Starts for BoostSeason_15:
(Start: 8 @9203 has 11 MA's), (Start: 13 @9260 has 34 MA's), (21, 9350), (35, 9503),

Gene: BruceB_14 Start: 10569, Stop: 11078, Start Num: 9
Candidate Starts for BruceB_14:
(Start: 2 @10494 has 5 MA's), (4, 10524), (Start: 9 @10569 has 70 MA's), (32, 10755), (43, 10947), (48, 11019),

Gene: Bryler_18 Start: 10254, Stop: 10676, Start Num: 16
Candidate Starts for Bryler_18:
(Start: 8 @10188 has 11 MA's), (Start: 16 @10254 has 20 MA's), (20, 10287), (32, 10365), (42, 10536),

Gene: CLED96_14 Start: 10494, Stop: 11078, Start Num: 2
Candidate Starts for CLED96_14:
(Start: 2 @10494 has 5 MA's), (4, 10524), (Start: 9 @10569 has 70 MA's), (32, 10755), (43, 10947), (48, 11019),

Gene: CREW_19 Start: 11269, Stop: 11706, Start Num: 15
Candidate Starts for CREW_19:
(Start: 5 @11191 has 2 MA's), (Start: 8 @11203 has 11 MA's), (Start: 15 @11269 has 122 MA's), (24, 11326), (34, 11443), (42, 11566), (47, 11632),

Gene: Cain_18 Start: 10242, Stop: 10664, Start Num: 16
Candidate Starts for Cain_18:
(Start: 8 @10176 has 11 MA's), (Start: 16 @10242 has 20 MA's), (20, 10275), (32, 10353), (42, 10524),

Gene: CallaLilly_19 Start: 11192, Stop: 11629, Start Num: 15
Candidate Starts for CallaLilly_19:
(Start: 15 @11192 has 122 MA's), (24, 11249), (34, 11366), (42, 11489), (47, 11555),

Gene: Cambiare_15 Start: 11193, Stop: 11753, Start Num: 10
Candidate Starts for Cambiare_15:
(Start: 1 @11103 has 1 MA's), (Start: 10 @11193 has 7 MA's), (31, 11391), (38, 11529), (47, 11667), (48, 11694), (50, 11739),

Gene: Camri_14 Start: 10569, Stop: 11078, Start Num: 9
Candidate Starts for Camri_14:
(Start: 2 @10494 has 5 MA's), (4, 10524), (Start: 9 @10569 has 70 MA's), (32, 10755), (43, 10947), (48, 11019),

Gene: Capricorn_19 Start: 11269, Stop: 11706, Start Num: 15
Candidate Starts for Capricorn_19:
(Start: 5 @11191 has 2 MA's), (Start: 8 @11203 has 11 MA's), (Start: 15 @11269 has 122 MA's), (24, 11326), (34, 11443), (42, 11566), (47, 11632),

Gene: CaseJules_19 Start: 11269, Stop: 11706, Start Num: 15
Candidate Starts for CaseJules_19:
(Start: 5 @11191 has 2 MA's), (Start: 8 @11203 has 11 MA's), (Start: 15 @11269 has 122 MA's), (24, 11326), (34, 11443), (42, 11566), (47, 11632),

Gene: CassieYates_14 Start: 10569, Stop: 11078, Start Num: 9
Candidate Starts for CassieYates_14:
(Start: 2 @10494 has 5 MA's), (4, 10524), (Start: 9 @10569 has 70 MA's), (32, 10755), (43, 10947), (48, 11019),

Gene: Cedasite_14 Start: 10569, Stop: 11078, Start Num: 9
Candidate Starts for Cedasite_14:
(Start: 2 @10494 has 5 MA's), (4, 10524), (Start: 9 @10569 has 70 MA's), (32, 10755), (43, 10947), (48, 11019),

Gene: Chance64_15 Start: 10569, Stop: 11078, Start Num: 9
Candidate Starts for Chance64_15:
(Start: 2 @10494 has 5 MA's), (4, 10524), (Start: 9 @10569 has 70 MA's), (32, 10755), (43, 10947), (48, 11019),

Gene: Chancellor_20 Start: 12441, Stop: 12890, Start Num: 13
Candidate Starts for Chancellor_20:
(Start: 5 @12378 has 2 MA's), (Start: 13 @12441 has 34 MA's), (30, 12540), (33, 12594), (36, 12660),

Gene: Chavito_19 Start: 10312, Stop: 10725, Start Num: 16
Candidate Starts for Chavito_19:
(Start: 8 @10246 has 11 MA's), (Start: 16 @10312 has 20 MA's), (20, 10336), (42, 10585),

Gene: CheetoDust_19 Start: 11246, Stop: 11683, Start Num: 15
Candidate Starts for CheetoDust_19:
(Start: 5 @11168 has 2 MA's), (Start: 8 @11180 has 11 MA's), (Start: 15 @11246 has 122 MA's), (24, 11303), (42, 11543), (47, 11609),

Gene: Cheetobro_20 Start: 12441, Stop: 12890, Start Num: 13
Candidate Starts for Cheetobro_20:
(Start: 5 @12378 has 2 MA's), (Start: 13 @12441 has 34 MA's), (30, 12540), (33, 12594), (36, 12660),

Gene: Cherrybomb426_14 Start: 10569, Stop: 11078, Start Num: 9
Candidate Starts for Cherrybomb426_14:
(Start: 2 @10494 has 5 MA's), (4, 10524), (Start: 9 @10569 has 70 MA's), (32, 10755), (43, 10947), (48, 11019),

Gene: Chris_18 Start: 10215, Stop: 10664, Start Num: 15
Candidate Starts for Chris_18:
(Start: 14 @10209 has 18 MA's), (Start: 15 @10215 has 122 MA's), (42, 10524), (43, 10545),

Gene: Clipper_19 Start: 11246, Stop: 11683, Start Num: 15
Candidate Starts for Clipper_19:
(Start: 5 @11168 has 2 MA's), (Start: 8 @11180 has 11 MA's), (Start: 15 @11246 has 122 MA's), (24, 11303), (42, 11543), (47, 11609),

Gene: Cloudyecho_14 Start: 10793, Stop: 11329, Start Num: 10
Candidate Starts for Cloudyecho_14:
(Start: 2 @10724 has 5 MA's), (Start: 10 @10793 has 7 MA's), (35, 11081), (38, 11105), (40, 11150), (47, 11243),

Gene: Coleslaw_14 Start: 10560, Stop: 11069, Start Num: 9
Candidate Starts for Coleslaw_14:
(Start: 2 @10494 has 5 MA's), (4, 10524), (Start: 9 @10560 has 70 MA's), (32, 10746), (43, 10938), (48, 11010),

Gene: Collard_18 Start: 11293, Stop: 11784, Start Num: 8
Candidate Starts for Collard_18:
(Start: 8 @11293 has 11 MA's), (Start: 14 @11338 has 18 MA's), (28, 11422), (32, 11473), (36, 11554),

Gene: Crespo_14 Start: 10570, Stop: 11079, Start Num: 9
Candidate Starts for Crespo_14:
(Start: 2 @10495 has 5 MA's), (4, 10525), (Start: 9 @10570 has 70 MA's), (32, 10756), (43, 10948), (48, 11020),

Gene: CrimD_20 Start: 11200, Stop: 11640, Start Num: 15
Candidate Starts for CrimD_20:
(Start: 15 @11200 has 122 MA's), (22, 11251), (42, 11500), (47, 11566),

Gene: Curiosium_20 Start: 10615, Stop: 11094, Start Num: 8
Candidate Starts for Curiosium_20:
(Start: 8 @10615 has 11 MA's), (Start: 16 @10681 has 20 MA's), (20, 10705), (27, 10729), (42, 10954),

Gene: DMoney_14 Start: 10569, Stop: 11078, Start Num: 9
Candidate Starts for DMoney_14:
(Start: 2 @10494 has 5 MA's), (4, 10524), (Start: 9 @10569 has 70 MA's), (32, 10755), (43, 10947), (48, 11019),

Gene: DNAIII_0014 Start: 10503, Stop: 11087, Start Num: 2
Candidate Starts for DNAIII_0014:

(Start: 2 @10503 has 5 MA's), (4, 10533), (Start: 9 @10578 has 70 MA's), (32, 10764), (43, 10956), (48, 11028),

Gene: Dadosky_17 Start: 11254, Stop: 11700, Start Num: 14
Candidate Starts for Dadosky_17:
(Start: 8 @11209 has 11 MA's), (Start: 14 @11254 has 18 MA's), (28, 11338), (32, 11389), (36, 11470),

Gene: Dalmuri_19 Start: 11269, Stop: 11706, Start Num: 15
Candidate Starts for Dalmuri_19:
(Start: 5 @11191 has 2 MA's), (Start: 8 @11203 has 11 MA's), (Start: 15 @11269 has 122 MA's), (24, 11326), (34, 11443), (42, 11566), (47, 11632),

Gene: DanSyl44_20 Start: 12444, Stop: 12893, Start Num: 13
Candidate Starts for DanSyl44_20:
(Start: 5 @12381 has 2 MA's), (Start: 13 @12444 has 34 MA's), (30, 12543), (33, 12597), (36, 12663),

Gene: Darionha_14 Start: 10569, Stop: 11078, Start Num: 9
Candidate Starts for Darionha_14:
(Start: 2 @10494 has 5 MA's), (4, 10524), (Start: 9 @10569 has 70 MA's), (32, 10755), (43, 10947), (48, 11019),

Gene: DartGoblin_19 Start: 11152, Stop: 11592, Start Num: 15
Candidate Starts for DartGoblin_19:
(Start: 5 @11074 has 2 MA's), (Start: 8 @11086 has 11 MA's), (Start: 15 @11152 has 122 MA's), (42, 11452), (47, 11518),

Gene: DarthP_18 Start: 11325, Stop: 11780, Start Num: 15
Candidate Starts for DarthP_18:
(Start: 8 @11256 has 11 MA's), (Start: 15 @11325 has 122 MA's), (19, 11370), (47, 11706),

Gene: Dartin_19 Start: 10305, Stop: 10721, Start Num: 16
Candidate Starts for Dartin_19:
(Start: 5 @10227 has 2 MA's), (Start: 16 @10305 has 20 MA's), (20, 10332), (42, 10581),

Gene: Deby_19 Start: 11203, Stop: 11640, Start Num: 15
Candidate Starts for Deby_19:
(Start: 5 @11125 has 2 MA's), (Start: 8 @11137 has 11 MA's), (Start: 15 @11203 has 122 MA's), (24, 11260), (42, 11500), (47, 11566),

Gene: Devera_19 Start: 11230, Stop: 11664, Start Num: 15
Candidate Starts for Devera_19:
(Start: 5 @11152 has 2 MA's), (Start: 8 @11164 has 11 MA's), (Start: 15 @11230 has 122 MA's), (32, 11353), (42, 11524), (47, 11590),

Gene: DingDing_14 Start: 10569, Stop: 11078, Start Num: 9
Candidate Starts for DingDing_14:
(Start: 2 @10494 has 5 MA's), (4, 10524), (Start: 9 @10569 has 70 MA's), (32, 10755), (43, 10947), (48, 11019),

Gene: DismalFunk_16 Start: 9253, Stop: 9702, Start Num: 13
Candidate Starts for DismalFunk_16:
(Start: 8 @9196 has 11 MA's), (Start: 13 @9253 has 34 MA's), (21, 9325), (35, 9475), (36, 9481),

Gene: DismalStressor_15 Start: 9253, Stop: 9702, Start Num: 13
Candidate Starts for DismalStressor_15:
(Start: 8 @9196 has 11 MA's), (Start: 13 @9253 has 34 MA's), (21, 9325), (35, 9475), (36, 9481),

Gene: Dole_19 Start: 11232, Stop: 11666, Start Num: 15
Candidate Starts for Dole_19:
(Start: 5 @11154 has 2 MA's), (Start: 8 @11166 has 11 MA's), (Start: 15 @11232 has 122 MA's), (32, 11355), (42, 11526), (47, 11592),

Gene: DoubleChamp_17 Start: 11338, Stop: 11784, Start Num: 14
Candidate Starts for DoubleChamp_17:
(Start: 8 @11293 has 11 MA's), (Start: 14 @11338 has 18 MA's), (28, 11422), (32, 11473), (36, 11554),

Gene: Doughnut_15 Start: 9254, Stop: 9724, Start Num: 13
Candidate Starts for Doughnut_15:
(Start: 8 @9197 has 11 MA's), (Start: 13 @9254 has 34 MA's), (21, 9344), (35, 9497),

Gene: DrHayes_19 Start: 11173, Stop: 11613, Start Num: 15
Candidate Starts for DrHayes_19:
(Start: 5 @11095 has 2 MA's), (Start: 8 @11107 has 11 MA's), (12, 11134), (Start: 15 @11173 has 122 MA's), (42, 11473), (47, 11539),

Gene: Durfee_19 Start: 11269, Stop: 11706, Start Num: 15
Candidate Starts for Durfee_19:
(Start: 5 @11191 has 2 MA's), (Start: 8 @11203 has 11 MA's), (Start: 15 @11269 has 122 MA's), (24, 11326), (34, 11443), (42, 11566), (47, 11632),

Gene: ECartman_14 Start: 10569, Stop: 11078, Start Num: 9
Candidate Starts for ECartman_14:
(Start: 2 @10494 has 5 MA's), (4, 10524), (Start: 9 @10569 has 70 MA's), (32, 10755), (43, 10947), (48, 11019),

Gene: Edugator_17 Start: 11254, Stop: 11700, Start Num: 14
Candidate Starts for Edugator_17:
(Start: 8 @11209 has 11 MA's), (Start: 14 @11254 has 18 MA's), (28, 11338), (32, 11389), (36, 11470),

Gene: Efra2_19 Start: 10171, Stop: 10584, Start Num: 16
Candidate Starts for Efra2_19:
(Start: 8 @10105 has 11 MA's), (Start: 16 @10171 has 20 MA's), (20, 10195), (27, 10219), (42, 10444),

Gene: Ekdilam_16 Start: 11036, Stop: 11491, Start Num: 15
Candidate Starts for Ekdilam_16:
(Start: 15 @11036 has 122 MA's), (19, 11081), (32, 11180), (47, 11417), (49, 11471),

Gene: Ellie_16 Start: 11081, Stop: 11536, Start Num: 15
Candidate Starts for Ellie_16:
(Start: 8 @11015 has 11 MA's), (Start: 15 @11081 has 122 MA's), (19, 11126), (32, 11225), (47, 11462), (48, 11489),

Gene: Emerson_20 Start: 11229, Stop: 11666, Start Num: 15
Candidate Starts for Emerson_20:
(Start: 5 @11151 has 2 MA's), (Start: 8 @11163 has 11 MA's), (Start: 15 @11229 has 122 MA's), (24, 11286), (34, 11403), (42, 11526), (47, 11592),

Gene: Enkosi_15 Start: 10504, Stop: 10920, Start Num: 15
Candidate Starts for Enkosi_15:
(Start: 15 @10504 has 122 MA's), (42, 10780),

Gene: Eponine_20 Start: 12303, Stop: 12755, Start Num: 13
Candidate Starts for Eponine_20:
(Start: 13 @12303 has 34 MA's), (22, 12372), (32, 12447), (33, 12459), (36, 12525), (48, 12708),

Gene: Fefferhead_18 Start: 11248, Stop: 11703, Start Num: 15
Candidate Starts for Fefferhead_18:
(Start: 8 @11182 has 11 MA's), (Start: 15 @11248 has 122 MA's), (19, 11293), (32, 11392), (47, 11629), (48, 11656),

Gene: Feyre_17 Start: 11196, Stop: 11642, Start Num: 14
Candidate Starts for Feyre_17:
(Start: 14 @11196 has 18 MA's), (25, 11268), (28, 11280), (32, 11331), (40, 11475),

Gene: Findley_15 Start: 9253, Stop: 9702, Start Num: 13
Candidate Starts for Findley_15:
(Start: 8 @9196 has 11 MA's), (Start: 13 @9253 has 34 MA's), (21, 9325), (35, 9475), (36, 9481),

Gene: Fionnbharth_20 Start: 12431, Stop: 12880, Start Num: 13
Candidate Starts for Fionnbharth_20:
(Start: 5 @12368 has 2 MA's), (Start: 13 @12431 has 34 MA's), (30, 12530), (33, 12584), (36, 12650),

Gene: FlagStaff_14 Start: 10592, Stop: 11215, Start Num: 2
Candidate Starts for FlagStaff_14:
(Start: 2 @10592 has 5 MA's), (Start: 10 @10664 has 7 MA's), (31, 10853), (35, 10967), (47, 11129), (48, 11156),

Gene: ForeverHowLong_14 Start: 10564, Stop: 11073, Start Num: 9
Candidate Starts for ForeverHowLong_14:
(Start: 2 @10489 has 5 MA's), (Start: 9 @10564 has 70 MA's), (32, 10750), (43, 10942), (48, 11014),

Gene: Frosty24_14 Start: 10569, Stop: 11078, Start Num: 9
Candidate Starts for Frosty24_14:
(Start: 2 @10494 has 5 MA's), (4, 10524), (Start: 9 @10569 has 70 MA's), (32, 10755), (43, 10947), (48, 11019),

Gene: Ganymede_20 Start: 11249, Stop: 11686, Start Num: 15
Candidate Starts for Ganymede_20:
(Start: 5 @11171 has 2 MA's), (Start: 8 @11183 has 11 MA's), (Start: 15 @11249 has 122 MA's), (24, 11306), (42, 11546), (47, 11612),

Gene: Gengar_17 Start: 11303, Stop: 11749, Start Num: 14
Candidate Starts for Gengar_17:
(Start: 14 @11303 has 18 MA's), (28, 11387), (32, 11438), (40, 11582),

Gene: Geraldini_19 Start: 11245, Stop: 11682, Start Num: 15
Candidate Starts for Geraldini_19:
(Start: 15 @11245 has 122 MA's), (24, 11302), (34, 11419), (42, 11542), (47, 11608),

Gene: Gideon_14 Start: 10569, Stop: 11078, Start Num: 9
Candidate Starts for Gideon_14:
(Start: 2 @10494 has 5 MA's), (4, 10524), (Start: 9 @10569 has 70 MA's), (32, 10755), (43, 10947), (48, 11019),

Gene: GodSpeed_14 Start: 10652, Stop: 11191, Start Num: 11
Candidate Starts for GodSpeed_14:
(Start: 11 @10652 has 1 MA's), (35, 10943), (48, 11132), (50, 11177),

Gene: GoldenAsh_14 Start: 10494, Stop: 11078, Start Num: 2
Candidate Starts for GoldenAsh_14:
(Start: 2 @10494 has 5 MA's), (4, 10524), (Start: 9 @10569 has 70 MA's), (32, 10755), (43, 10947), (48, 11019),

Gene: Gomashi_15 Start: 10570, Stop: 11079, Start Num: 9
Candidate Starts for Gomashi_15:
(Start: 2 @10495 has 5 MA's), (4, 10525), (Start: 9 @10570 has 70 MA's), (32, 10756), (43, 10948), (48, 11020),

Gene: Grizzly_14 Start: 10569, Stop: 11078, Start Num: 9
Candidate Starts for Grizzly_14:
(Start: 2 @10494 has 5 MA's), (4, 10524), (Start: 9 @10569 has 70 MA's), (32, 10755), (43, 10947), (48, 11019),

Gene: Guanica15_19 Start: 10187, Stop: 10600, Start Num: 16
Candidate Starts for Guanica15_19:
(Start: 8 @10121 has 11 MA's), (Start: 16 @10187 has 20 MA's), (20, 10211), (27, 10235), (42, 10460),

Gene: Guillsminger_18 Start: 11278, Stop: 11724, Start Num: 14
Candidate Starts for Guillsminger_18:
(Start: 14 @11278 has 18 MA's), (28, 11362), (32, 11413), (40, 11557),

Gene: Halo_14 Start: 10564, Stop: 11073, Start Num: 9
Candidate Starts for Halo_14:
(Start: 2 @10489 has 5 MA's), (Start: 9 @10564 has 70 MA's), (32, 10750), (43, 10942), (48, 11014),

Gene: Hammy_18 Start: 11319, Stop: 11774, Start Num: 15
Candidate Starts for Hammy_18:
(Start: 8 @11250 has 11 MA's), (Start: 15 @11319 has 122 MA's), (19, 11364), (47, 11700),

Gene: HedwigODU_19 Start: 11232, Stop: 11669, Start Num: 15
Candidate Starts for HedwigODU_19:
(Start: 5 @11154 has 2 MA's), (Start: 8 @11166 has 11 MA's), (Start: 15 @11232 has 122 MA's), (24, 11289), (34, 11406), (42, 11529), (47, 11595),

Gene: Heftyboy_17 Start: 11405, Stop: 11851, Start Num: 14
Candidate Starts for Heftyboy_17:
(Start: 14 @11405 has 18 MA's), (28, 11489), (32, 11540), (40, 11684),

Gene: Homura_19 Start: 11269, Stop: 11706, Start Num: 15
Candidate Starts for Homura_19:
(Start: 5 @11191 has 2 MA's), (Start: 8 @11203 has 11 MA's), (Start: 15 @11269 has 122 MA's), (24, 11326), (34, 11443), (42, 11566), (47, 11632),

Gene: Hope_15 Start: 10569, Stop: 11078, Start Num: 9
Candidate Starts for Hope_15:
(Start: 2 @10494 has 5 MA's), (4, 10524), (Start: 9 @10569 has 70 MA's), (32, 10755), (43, 10947), (48, 11019),

Gene: Hotshotbaby7_14 Start: 10569, Stop: 11078, Start Num: 9
Candidate Starts for Hotshotbaby7_14:
(Start: 2 @10494 has 5 MA's), (4, 10524), (Start: 9 @10569 has 70 MA's), (32, 10755), (43, 10947), (48, 11019),

Gene: Hurricane_18 Start: 11360, Stop: 11794, Start Num: 15
Candidate Starts for Hurricane_18:
(Start: 8 @11297 has 11 MA's), (Start: 15 @11360 has 122 MA's), (17, 11378), (32, 11483), (40, 11627), (42, 11654), (43, 11675),

Gene: Hyperbowlee_19 Start: 11269, Stop: 11706, Start Num: 15
Candidate Starts for Hyperbowlee_19:
(Start: 5 @11191 has 2 MA's), (Start: 8 @11203 has 11 MA's), (Start: 15 @11269 has 122 MA's), (24, 11326), (34, 11443), (42, 11566), (47, 11632),

Gene: Illumine_19 Start: 11232, Stop: 11666, Start Num: 15
Candidate Starts for Illumine_19:
(Start: 5 @11154 has 2 MA's), (Start: 8 @11166 has 11 MA's), (Start: 15 @11232 has 122 MA's), (32, 11355), (42, 11526), (47, 11592),

Gene: Inky_20 Start: 11269, Stop: 11706, Start Num: 15
Candidate Starts for Inky_20:
(Start: 5 @11191 has 2 MA's), (Start: 8 @11203 has 11 MA's), (Start: 15 @11269 has 122 MA's), (24, 11326), (34, 11443), (42, 11566), (47, 11632),

Gene: InvictusManeo_17 Start: 11381, Stop: 11827, Start Num: 14
Candidate Starts for InvictusManeo_17:
(Start: 8 @11336 has 11 MA's), (Start: 14 @11381 has 18 MA's), (28, 11465), (32, 11516), (36, 11597),

Gene: JAWS_19 Start: 11223, Stop: 11660, Start Num: 15
Candidate Starts for JAWS_19:
(Start: 5 @11145 has 2 MA's), (Start: 8 @11157 has 11 MA's), (Start: 15 @11223 has 122 MA's), (24, 11280), (34, 11397), (42, 11520), (47, 11586),

Gene: JF1_20 Start: 12430, Stop: 12879, Start Num: 13
Candidate Starts for JF1_20:
(Start: 5 @12367 has 2 MA's), (Start: 13 @12430 has 34 MA's), (30, 12529), (33, 12583), (36, 12649),

Gene: Jane_14 Start: 10569, Stop: 11078, Start Num: 9
Candidate Starts for Jane_14:
(Start: 2 @10494 has 5 MA's), (4, 10524), (Start: 9 @10569 has 70 MA's), (32, 10755), (43, 10947), (48, 11019),

Gene: Jarvi_19 Start: 11269, Stop: 11706, Start Num: 15
Candidate Starts for Jarvi_19:
(Start: 5 @11191 has 2 MA's), (Start: 8 @11203 has 11 MA's), (Start: 15 @11269 has 122 MA's), (24, 11326), (34, 11443), (42, 11566), (47, 11632),

Gene: Jayhawk_19 Start: 11233, Stop: 11670, Start Num: 15
Candidate Starts for Jayhawk_19:
(Start: 5 @11155 has 2 MA's), (Start: 8 @11167 has 11 MA's), (Start: 15 @11233 has 122 MA's), (24, 11290), (34, 11407), (42, 11530), (47, 11596),

Gene: Jeckyll_19 Start: 11269, Stop: 11706, Start Num: 15
Candidate Starts for Jeckyll_19:
(Start: 5 @11191 has 2 MA's), (Start: 8 @11203 has 11 MA's), (Start: 15 @11269 has 122 MA's), (24, 11326), (34, 11443), (42, 11566), (47, 11632),

Gene: Jeilious_14 Start: 10568, Stop: 11077, Start Num: 9
Candidate Starts for Jeilious_14:
(Start: 2 @10493 has 5 MA's), (4, 10523), (Start: 9 @10568 has 70 MA's), (32, 10754), (43, 10946), (48, 11018),

Gene: Jolene_14 Start: 10569, Stop: 11078, Start Num: 9
Candidate Starts for Jolene_14:
(Start: 2 @10494 has 5 MA's), (4, 10524), (Start: 9 @10569 has 70 MA's), (32, 10755), (43, 10947), (48, 11019),

Gene: Jolie2_14 Start: 9852, Stop: 10367, Start Num: 9
Candidate Starts for Jolie2_14:
(Start: 9 @9852 has 70 MA's), (29, 9996), (46, 10266), (48, 10308),

Gene: Jonghyun_14 Start: 10569, Stop: 11078, Start Num: 9
Candidate Starts for Jonghyun_14:
(Start: 2 @10494 has 5 MA's), (4, 10524), (Start: 9 @10569 has 70 MA's), (32, 10755), (43, 10947), (48, 11019),

Gene: JorRay_14 Start: 10569, Stop: 11078, Start Num: 9
Candidate Starts for JorRay_14:
(Start: 2 @10494 has 5 MA's), (4, 10524), (Start: 9 @10569 has 70 MA's), (32, 10755), (43, 10947), (48, 11019),

Gene: Joy99_19 Start: 11198, Stop: 11635, Start Num: 15
Candidate Starts for Joy99_19:
(Start: 5 @11120 has 2 MA's), (Start: 8 @11132 has 11 MA's), (Start: 15 @11198 has 122 MA's), (24, 11255), (42, 11495), (47, 11561),

Gene: Juliette_20 Start: 12303, Stop: 12755, Start Num: 13
Candidate Starts for Juliette_20:
(Start: 13 @12303 has 34 MA's), (22, 12372), (32, 12447), (33, 12459), (36, 12525), (48, 12708),

Gene: Kareem_14 Start: 10569, Stop: 11078, Start Num: 9
Candidate Starts for Kareem_14:
(Start: 2 @10494 has 5 MA's), (4, 10524), (Start: 9 @10569 has 70 MA's), (32, 10755), (43, 10947), (48, 11019),

Gene: Kasen3_14 Start: 10570, Stop: 11079, Start Num: 9
Candidate Starts for Kasen3_14:
(Start: 2 @10495 has 5 MA's), (4, 10525), (Start: 9 @10570 has 70 MA's), (32, 10756), (43, 10948), (48, 11020),

Gene: Keshu_18 Start: 11346, Stop: 11774, Start Num: 15
Candidate Starts for Keshu_18:
(Start: 8 @11283 has 11 MA's), (Start: 15 @11346 has 122 MA's), (17, 11358), (32, 11463), (40, 11607), (42, 11634),

Gene: Kheparia_21 Start: 11183, Stop: 11623, Start Num: 15
Candidate Starts for Kheparia_21:
(Start: 5 @11105 has 2 MA's), (Start: 8 @11117 has 11 MA's), (Start: 15 @11183 has 122 MA's), (32, 11312), (42, 11483), (47, 11549),

Gene: KiSi_18 Start: 10161, Stop: 10604, Start Num: 15
Candidate Starts for KiSi_18:
(3, 10059), (Start: 5 @10086 has 2 MA's), (Start: 10 @10110 has 7 MA's), (Start: 15 @10161 has 122 MA's), (22, 10215), (42, 10464),

Gene: Kratio_16 Start: 10964, Stop: 11455, Start Num: 8
Candidate Starts for Kratio_16:
(Start: 8 @10964 has 11 MA's), (Start: 14 @11009 has 18 MA's), (28, 11093), (32, 11144), (36, 11225),

Gene: Kraw_20 Start: 12354, Stop: 12803, Start Num: 13
Candidate Starts for Kraw_20:
(Start: 13 @12354 has 34 MA's), (30, 12453), (33, 12507), (36, 12573),

Gene: Krueger_18 Start: 10147, Stop: 10632, Start Num: 8
Candidate Starts for Krueger_18:
(Start: 8 @10147 has 11 MA's), (Start: 16 @10210 has 20 MA's), (27, 10264), (32, 10318), (42, 10489),

Gene: Larva_17 Start: 11076, Stop: 11567, Start Num: 8
Candidate Starts for Larva_17:
(Start: 8 @11076 has 11 MA's), (Start: 14 @11121 has 18 MA's), (28, 11205), (32, 11256), (36, 11337),

Gene: LastHope_20 Start: 10261, Stop: 10674, Start Num: 16
Candidate Starts for LastHope_20:
(Start: 8 @10195 has 11 MA's), (Start: 16 @10261 has 20 MA's), (27, 10309), (42, 10534),

Gene: LaterM_19 Start: 11198, Stop: 11632, Start Num: 15
Candidate Starts for LaterM_19:
(Start: 5 @11120 has 2 MA's), (Start: 8 @11132 has 11 MA's), (Start: 15 @11198 has 122 MA's), (32, 11321), (42, 11492), (47, 11558),

Gene: Lavahound_17 Start: 11003, Stop: 11455, Start Num: 15
Candidate Starts for Lavahound_17:
(Start: 8 @10940 has 11 MA's), (Start: 15 @11003 has 122 MA's), (19, 11045), (32, 11144), (47, 11381),

Gene: LeMond_18 Start: 10232, Stop: 10675, Start Num: 15
Candidate Starts for LeMond_18:
(Start: 15 @10232 has 122 MA's), (22, 10286), (42, 10535),

Gene: Lea83_18 Start: 11349, Stop: 11783, Start Num: 15
Candidate Starts for Lea83_18:

(Start: 8 @11286 has 11 MA's), (Start: 15 @11349 has 122 MA's), (17, 11367), (32, 11472), (40, 11616), (42, 11643), (43, 11664),

Gene: Lebo14_20 Start: 12444, Stop: 12893, Start Num: 13
Candidate Starts for Lebo14_20:
(Start: 5 @12381 has 2 MA's), (Start: 13 @12444 has 34 MA's), (30, 12543), (33, 12597), (36, 12663),

Gene: Lemuria_14 Start: 9901, Stop: 10413, Start Num: 9
Candidate Starts for Lemuria_14:
(Start: 9 @9901 has 70 MA's), (22, 10003), (48, 10354),

Gene: Leston_17 Start: 11408, Stop: 11854, Start Num: 14
Candidate Starts for Leston_17:
(Start: 14 @11408 has 18 MA's), (28, 11492), (32, 11543), (40, 11687),

Gene: Liefie_14 Start: 10568, Stop: 11077, Start Num: 9
Candidate Starts for Liefie_14:
(Start: 2 @10493 has 5 MA's), (4, 10523), (Start: 9 @10568 has 70 MA's), (32, 10754), (43, 10946), (48, 11018),

Gene: LilDirt_16 Start: 11138, Stop: 11584, Start Num: 14
Candidate Starts for LilDirt_16:
(Start: 8 @11093 has 11 MA's), (Start: 14 @11138 has 18 MA's), (28, 11222), (32, 11273), (36, 11354),

Gene: LilPharaoh_15 Start: 10504, Stop: 10920, Start Num: 15
Candidate Starts for LilPharaoh_15:
(Start: 15 @10504 has 122 MA's), (42, 10780),

Gene: LindNT_19 Start: 11196, Stop: 11636, Start Num: 15
Candidate Starts for LindNT_19:
(Start: 5 @11118 has 2 MA's), (Start: 8 @11130 has 11 MA's), (Start: 15 @11196 has 122 MA's), (24, 11256), (42, 11496), (47, 11562),

Gene: Llorens_19 Start: 11269, Stop: 11706, Start Num: 15
Candidate Starts for Llorens_19:
(Start: 5 @11191 has 2 MA's), (Start: 8 @11203 has 11 MA's), (Start: 15 @11269 has 122 MA's), (24, 11326), (34, 11443), (42, 11566), (47, 11632),

Gene: Lokum_19 Start: 11269, Stop: 11706, Start Num: 15
Candidate Starts for Lokum_19:
(Start: 5 @11191 has 2 MA's), (Start: 8 @11203 has 11 MA's), (Start: 15 @11269 has 122 MA's), (24, 11326), (34, 11443), (42, 11566), (47, 11632),

Gene: LouisV14_14 Start: 10569, Stop: 11078, Start Num: 9
Candidate Starts for LouisV14_14:
(Start: 2 @10494 has 5 MA's), (4, 10524), (Start: 9 @10569 has 70 MA's), (32, 10755), (43, 10947), (48, 11019),

Gene: Lunahalos_19 Start: 11269, Stop: 11706, Start Num: 15
Candidate Starts for Lunahalos_19:
(Start: 5 @11191 has 2 MA's), (Start: 8 @11203 has 11 MA's), (Start: 15 @11269 has 122 MA's), (24, 11326), (34, 11443), (42, 11566), (47, 11632),

Gene: MOOREtheMARYer_14 Start: 10788, Stop: 11321, Start Num: 10
Candidate Starts for MOOREtheMARYer_14:
(Start: 2 @10719 has 5 MA's), (Start: 10 @10788 has 7 MA's), (26, 10923), (29, 10944), (38, 11097), (40, 11142), (47, 11235),

Gene: MZKinsey_14 Start: 10569, Stop: 11078, Start Num: 9
Candidate Starts for MZKinsey_14:
(Start: 2 @10494 has 5 MA's), (4, 10524), (Start: 9 @10569 has 70 MA's), (32, 10755), (43, 10947), (48, 11019),

Gene: MacKat_19 Start: 11246, Stop: 11683, Start Num: 15
Candidate Starts for MacKat_19:
(Start: 5 @11168 has 2 MA's), (Start: 8 @11180 has 11 MA's), (Start: 15 @11246 has 122 MA's), (24, 11303), (42, 11543), (47, 11609),

Gene: MacnCheese_19 Start: 11578, Stop: 12018, Start Num: 15
Candidate Starts for MacnCheese_19:
(Start: 5 @11497 has 2 MA's), (Start: 15 @11578 has 122 MA's), (32, 11707), (40, 11851), (43, 11899),

Gene: Maliketh_14 Start: 10569, Stop: 11078, Start Num: 9
Candidate Starts for Maliketh_14:
(Start: 2 @10494 has 5 MA's), (4, 10524), (Start: 9 @10569 has 70 MA's), (32, 10755), (43, 10947), (48, 11019),

Gene: Malthus_20 Start: 12354, Stop: 12803, Start Num: 13
Candidate Starts for Malthus_20:
(Start: 13 @12354 has 34 MA's), (30, 12453), (33, 12507), (36, 12573),

Gene: Marcoliusprime_15 Start: 9253, Stop: 9702, Start Num: 13
Candidate Starts for Marcoliusprime_15:
(Start: 8 @9196 has 11 MA's), (Start: 13 @9253 has 34 MA's), (21, 9325), (35, 9475), (36, 9481),

Gene: MarkPhew_19 Start: 10120, Stop: 10566, Start Num: 15
Candidate Starts for MarkPhew_19:
(Start: 15 @10120 has 122 MA's), (42, 10426), (43, 10447),

Gene: Marmie_14 Start: 10569, Stop: 11078, Start Num: 9
Candidate Starts for Marmie_14:
(Start: 2 @10494 has 5 MA's), (4, 10524), (Start: 9 @10569 has 70 MA's), (32, 10755), (43, 10947), (48, 11019),

Gene: Marshawn_20 Start: 10810, Stop: 11253, Start Num: 15
Candidate Starts for Marshawn_20:
(Start: 8 @10753 has 11 MA's), (Start: 15 @10810 has 122 MA's), (42, 11113),

Gene: McMater_19 Start: 10305, Stop: 10721, Start Num: 16
Candidate Starts for McMater_19:
(Start: 5 @10227 has 2 MA's), (Start: 16 @10305 has 20 MA's), (20, 10332), (42, 10581),

Gene: Mdavu_15 Start: 10492, Stop: 10908, Start Num: 15
Candidate Starts for Mdavu_15:
(Start: 15 @10492 has 122 MA's), (42, 10768),

Gene: MeaningOfLife_19 Start: 11205, Stop: 11642, Start Num: 15
Candidate Starts for MeaningOfLife_19:
(Start: 5 @11127 has 2 MA's), (Start: 8 @11139 has 11 MA's), (Start: 15 @11205 has 122 MA's), (24, 11262), (34, 11379), (42, 11502), (47, 11568),

Gene: Megsy_19 Start: 11199, Stop: 11639, Start Num: 15
Candidate Starts for Megsy_19:
(Start: 5 @11121 has 2 MA's), (Start: 8 @11133 has 11 MA's), (Start: 15 @11199 has 122 MA's), (24, 11259), (42, 11499), (47, 11565),

Gene: Mercurio_15 Start: 10548, Stop: 11060, Start Num: 9
Candidate Starts for Mercurio_15:
(Start: 9 @10548 has 70 MA's), (48, 11001),

Gene: Milly_15 Start: 9253, Stop: 9702, Start Num: 13
Candidate Starts for Milly_15:
(Start: 8 @9196 has 11 MA's), (Start: 13 @9253 has 34 MA's), (21, 9325), (35, 9475), (36, 9481),

Gene: Miryou_17 Start: 11256, Stop: 11702, Start Num: 14
Candidate Starts for Miryou_17:
(Start: 14 @11256 has 18 MA's), (28, 11340), (32, 11391), (40, 11535),

Gene: MissDaisy_20 Start: 12205, Stop: 12654, Start Num: 13
Candidate Starts for MissDaisy_20:
(Start: 5 @12142 has 2 MA's), (Start: 13 @12205 has 34 MA's), (30, 12304), (33, 12358), (36, 12424),

Gene: Mitti_20 Start: 12354, Stop: 12803, Start Num: 13
Candidate Starts for Mitti_20:
(Start: 5 @12291 has 2 MA's), (Start: 13 @12354 has 34 MA's), (30, 12453), (33, 12507), (36, 12573),

Gene: Mowgli_14 Start: 10569, Stop: 11078, Start Num: 9
Candidate Starts for Mowgli_14:
(Start: 2 @10494 has 5 MA's), (4, 10524), (Start: 9 @10569 has 70 MA's), (32, 10755), (43, 10947), (48, 11019),

Gene: Mufasa_15 Start: 9254, Stop: 9724, Start Num: 13
Candidate Starts for Mufasa_15:
(Start: 8 @9197 has 11 MA's), (Start: 13 @9254 has 34 MA's), (21, 9344), (35, 9497),

Gene: Murucutumbu_19 Start: 11191, Stop: 11625, Start Num: 15
Candidate Starts for Murucutumbu_19:
(Start: 5 @11113 has 2 MA's), (Start: 8 @11125 has 11 MA's), (Start: 15 @11191 has 122 MA's), (32, 11314), (42, 11485), (47, 11551),

Gene: Mynx_19 Start: 11252, Stop: 11689, Start Num: 15
Candidate Starts for Mynx_19:
(Start: 5 @11174 has 2 MA's), (Start: 8 @11186 has 11 MA's), (Start: 15 @11252 has 122 MA's), (24, 11309), (34, 11426), (42, 11549), (47, 11615),

Gene: Neighly_17 Start: 11075, Stop: 11566, Start Num: 8
Candidate Starts for Neighly_17:
(Start: 8 @11075 has 11 MA's), (Start: 14 @11120 has 18 MA's), (28, 11204), (32, 11255), (36, 11336),

Gene: Neoh_14 Start: 10561, Stop: 11070, Start Num: 9
Candidate Starts for Neoh_14:
(Start: 2 @10495 has 5 MA's), (4, 10525), (Start: 9 @10561 has 70 MA's), (32, 10747), (43, 10939), (48, 11011),

Gene: Nibb_18 Start: 10272, Stop: 10715, Start Num: 15
Candidate Starts for Nibb_18:
(Start: 14 @10266 has 18 MA's), (Start: 15 @10272 has 122 MA's), (42, 10575), (43, 10596),

Gene: Nikao_15 Start: 10504, Stop: 10920, Start Num: 15
Candidate Starts for Nikao_15:
(Start: 15 @10504 has 122 MA's), (42, 10780),

Gene: Niklas_19 Start: 10305, Stop: 10721, Start Num: 16
Candidate Starts for Niklas_19:
(Start: 5 @10227 has 2 MA's), (Start: 16 @10305 has 20 MA's), (20, 10332), (42, 10581),

Gene: Nolwazi_20 Start: 12355, Stop: 12804, Start Num: 13
Candidate Starts for Nolwazi_20:
(Start: 5 @12292 has 2 MA's), (Start: 13 @12355 has 34 MA's), (30, 12454), (33, 12508), (36, 12574),

Gene: November_17 Start: 11163, Stop: 11624, Start Num: 15
Candidate Starts for November_17:
(Start: 5 @11085 has 2 MA's), (Start: 15 @11163 has 122 MA's), (19, 11208),

Gene: Nutello_15 Start: 10504, Stop: 10920, Start Num: 15
Candidate Starts for Nutello_15:
(Start: 15 @10504 has 122 MA's), (42, 10780),

Gene: OctaviousRex_15 Start: 10569, Stop: 11078, Start Num: 9
Candidate Starts for OctaviousRex_15:
(Start: 2 @10494 has 5 MA's), (4, 10524), (Start: 9 @10569 has 70 MA's), (32, 10755), (43, 10947), (48, 11019),

Gene: OkiRoe_17 Start: 11278, Stop: 11724, Start Num: 14
Candidate Starts for OkiRoe_17:
(Start: 14 @11278 has 18 MA's), (28, 11362), (32, 11413), (40, 11557),

Gene: Olga_14 Start: 10569, Stop: 11078, Start Num: 9
Candidate Starts for Olga_14:
(Start: 2 @10494 has 5 MA's), (4, 10524), (Start: 9 @10569 has 70 MA's), (32, 10755), (43, 10947), (48, 11019),

Gene: OmniCritical_20 Start: 12342, Stop: 12791, Start Num: 13
Candidate Starts for OmniCritical_20:
(6, 12282), (Start: 13 @12342 has 34 MA's), (30, 12441), (33, 12495), (36, 12561),

Gene: Omnicron_18 Start: 10271, Stop: 10759, Start Num: 8
Candidate Starts for Omnicron_18:
(Start: 8 @10271 has 11 MA's), (Start: 14 @10316 has 18 MA's), (32, 10448), (36, 10529),

Gene: Oscar_18 Start: 10233, Stop: 10676, Start Num: 15
Candidate Starts for Oscar_18:

(Start: 15 @10233 has 122 MA's), (42, 10536),

Gene: Pace1224_14 Start: 10664, Stop: 11215, Start Num: 10
Candidate Starts for Pace1224_14:
(Start: 2 @10592 has 5 MA's), (Start: 10 @10664 has 7 MA's), (31, 10853), (35, 10967), (47, 11129), (48, 11156),

Gene: Padfoot_19 Start: 11269, Stop: 11706, Start Num: 15
Candidate Starts for Padfoot_19:
(Start: 5 @11191 has 2 MA's), (Start: 8 @11203 has 11 MA's), (Start: 15 @11269 has 122 MA's), (24, 11326), (34, 11443), (42, 11566), (47, 11632),

Gene: Padpat_19 Start: 11229, Stop: 11666, Start Num: 15
Candidate Starts for Padpat_19:
(Start: 5 @11151 has 2 MA's), (Start: 8 @11163 has 11 MA's), (Start: 15 @11229 has 122 MA's), (24, 11286), (34, 11403), (42, 11526), (47, 11592),

Gene: Paito_14 Start: 10684, Stop: 11196, Start Num: 9
Candidate Starts for Paito_14:
(Start: 9 @10684 has 70 MA's), (32, 10873), (35, 10948), (38, 10972), (42, 11044), (48, 11137),

Gene: Paola_17 Start: 11278, Stop: 11724, Start Num: 14
Candidate Starts for Paola_17:
(Start: 14 @11278 has 18 MA's), (28, 11362), (32, 11413), (40, 11557),

Gene: Patt_21 Start: 12181, Stop: 12630, Start Num: 13
Candidate Starts for Patt_21:
(Start: 5 @12118 has 2 MA's), (Start: 13 @12181 has 34 MA's), (30, 12280), (33, 12334), (36, 12400),

Gene: Peanam_19 Start: 10227, Stop: 10721, Start Num: 5
Candidate Starts for Peanam_19:
(Start: 5 @10227 has 2 MA's), (Start: 16 @10305 has 20 MA's), (20, 10332), (42, 10581),

Gene: Peeb_14 Start: 10569, Stop: 11078, Start Num: 9
Candidate Starts for Peeb_14:
(Start: 2 @10494 has 5 MA's), (4, 10524), (Start: 9 @10569 has 70 MA's), (32, 10755), (43, 10947), (48, 11019),

Gene: Peel_19 Start: 11269, Stop: 11706, Start Num: 15
Candidate Starts for Peel_19:
(Start: 5 @11191 has 2 MA's), (Start: 8 @11203 has 11 MA's), (Start: 15 @11269 has 122 MA's), (24, 11326), (34, 11443), (42, 11566), (47, 11632),

Gene: Periodt_14 Start: 10569, Stop: 11078, Start Num: 9
Candidate Starts for Periodt_14:
(Start: 2 @10494 has 5 MA's), (4, 10524), (Start: 9 @10569 has 70 MA's), (32, 10755), (43, 10947), (48, 11019),

Gene: Pharb_18 Start: 11150, Stop: 11599, Start Num: 15
Candidate Starts for Pharb_18:
(Start: 15 @11150 has 122 MA's), (Start: 16 @11162 has 20 MA's), (32, 11288), (40, 11432), (42, 11459), (43, 11480),

Gene: PhelpsODU_18 Start: 10279, Stop: 10701, Start Num: 16
Candidate Starts for PhelpsODU_18:
(Start: 5 @10207 has 2 MA's), (Start: 16 @10279 has 20 MA's), (20, 10312), (32, 10390), (42, 10561),

Gene: Phish_14 Start: 10569, Stop: 11078, Start Num: 9
Candidate Starts for Phish_14:
(Start: 2 @10494 has 5 MA's), (4, 10524), (Start: 9 @10569 has 70 MA's), (32, 10755), (43, 10947), (48, 11019),

Gene: Phloodle_14 Start: 10569, Stop: 11078, Start Num: 9
Candidate Starts for Phloodle_14:
(Start: 2 @10494 has 5 MA's), (4, 10524), (Start: 9 @10569 has 70 MA's), (32, 10755), (43, 10947), (48, 11019),

Gene: Phrank_18 Start: 10230, Stop: 10652, Start Num: 16
Candidate Starts for Phrank_18:
(Start: 8 @10164 has 11 MA's), (Start: 16 @10230 has 20 MA's), (20, 10263), (32, 10341), (42, 10512),

Gene: Phreak_14 Start: 10569, Stop: 11078, Start Num: 9
Candidate Starts for Phreak_14:
(Start: 2 @10494 has 5 MA's), (4, 10524), (Start: 9 @10569 has 70 MA's), (32, 10755), (43, 10947), (48, 11019),

Gene: Piatt_19 Start: 11269, Stop: 11706, Start Num: 15
Candidate Starts for Piatt_19:
(Start: 5 @11191 has 2 MA's), (Start: 8 @11203 has 11 MA's), (Start: 15 @11269 has 122 MA's), (24, 11326), (34, 11443), (42, 11566), (47, 11632),

Gene: PinkYoshi_14 Start: 10560, Stop: 11069, Start Num: 9
Candidate Starts for PinkYoshi_14:
(Start: 2 @10494 has 5 MA's), (4, 10524), (Start: 9 @10560 has 70 MA's), (32, 10746), (43, 10938), (48, 11010),

Gene: Pinnie_15 Start: 11257, Stop: 11769, Start Num: 10
Candidate Starts for Pinnie_15:
(Start: 2 @11185 has 5 MA's), (Start: 10 @11257 has 7 MA's), (35, 11521), (38, 11545), (47, 11683),

Gene: Pisa1_18 Start: 10983, Stop: 11423, Start Num: 15
Candidate Starts for Pisa1_18:
(Start: 5 @10905 has 2 MA's), (Start: 8 @10917 has 11 MA's), (Start: 15 @10983 has 122 MA's), (32, 11112), (37, 11205), (42, 11283), (47, 11349),

Gene: Pisa4_18 Start: 10983, Stop: 11423, Start Num: 15
Candidate Starts for Pisa4_18:
(Start: 5 @10905 has 2 MA's), (Start: 8 @10917 has 11 MA's), (Start: 15 @10983 has 122 MA's), (32, 11112), (37, 11205), (42, 11283), (47, 11349),

Gene: Pixie_19 Start: 11101, Stop: 11535, Start Num: 15
Candidate Starts for Pixie_19:
(Start: 8 @11038 has 11 MA's), (Start: 15 @11101 has 122 MA's), (17, 11119), (32, 11224), (40, 11368), (42, 11395), (43, 11416),

Gene: Plagueis_14 Start: 10569, Stop: 11078, Start Num: 9

Candidate Starts for Plagueis_14:
(Start: 2 @10494 has 5 MA's), (4, 10524), (Start: 9 @10569 has 70 MA's), (32, 10755), (43, 10947), (48, 11019),

Gene: Pokerus_18 Start: 11186, Stop: 11623, Start Num: 15
Candidate Starts for Pokerus_18:
(Start: 5 @11108 has 2 MA's), (Start: 8 @11120 has 11 MA's), (Start: 15 @11186 has 122 MA's), (24, 11243), (42, 11483), (47, 11549),

Gene: Primanti_14 Start: 10569, Stop: 11078, Start Num: 9
Candidate Starts for Primanti_14:
(Start: 2 @10494 has 5 MA's), (4, 10524), (Start: 9 @10569 has 70 MA's), (32, 10755), (43, 10947), (48, 11019),

Gene: Prithvi_19 Start: 11196, Stop: 11636, Start Num: 15
Candidate Starts for Prithvi_19:
(Start: 5 @11118 has 2 MA's), (Start: 8 @11130 has 11 MA's), (Start: 15 @11196 has 122 MA's), (24, 11256), (42, 11496), (47, 11562),

Gene: Psycho_17 Start: 11206, Stop: 11697, Start Num: 8
Candidate Starts for Psycho_17:
(Start: 8 @11206 has 11 MA's), (Start: 14 @11251 has 18 MA's), (28, 11335), (32, 11386), (36, 11467),

Gene: Qhanda_20 Start: 12450, Stop: 12899, Start Num: 13
Candidate Starts for Qhanda_20:
(Start: 5 @12387 has 2 MA's), (Start: 13 @12450 has 34 MA's), (30, 12549), (33, 12603), (36, 12669),

Gene: QuincyRose_18 Start: 11249, Stop: 11686, Start Num: 15
Candidate Starts for QuincyRose_18:
(Start: 5 @11171 has 2 MA's), (Start: 8 @11183 has 11 MA's), (Start: 15 @11249 has 122 MA's), (24, 11306), (42, 11546), (47, 11612),

Gene: Rabbs_14 Start: 10556, Stop: 11068, Start Num: 9
Candidate Starts for Rabbs_14:
(Start: 9 @10556 has 70 MA's), (35, 10820), (48, 11009),

Gene: Ramen_19 Start: 11232, Stop: 11669, Start Num: 15
Candidate Starts for Ramen_19:
(Start: 5 @11154 has 2 MA's), (Start: 8 @11166 has 11 MA's), (Start: 15 @11232 has 122 MA's), (24, 11289), (34, 11406), (42, 11529), (47, 11595),

Gene: Rando14_17 Start: 10173, Stop: 10661, Start Num: 8
Candidate Starts for Rando14_17:
(Start: 8 @10173 has 11 MA's), (Start: 14 @10218 has 18 MA's), (28, 10299), (32, 10350), (36, 10431),

Gene: Rapunzel97_19 Start: 11233, Stop: 11670, Start Num: 15
Candidate Starts for Rapunzel97_19:
(Start: 5 @11155 has 2 MA's), (Start: 8 @11167 has 11 MA's), (Start: 15 @11233 has 122 MA's), (24, 11290), (34, 11407), (42, 11530), (47, 11596),

Gene: Rattrick_14 Start: 10569, Stop: 11078, Start Num: 9
Candidate Starts for Rattrick_14:

(Start: 2 @10494 has 5 MA's), (4, 10524), (Start: 9 @10569 has 70 MA's), (32, 10755), (43, 10947), (48, 11019),

Gene: Remy19_14 Start: 10494, Stop: 11078, Start Num: 2
Candidate Starts for Remy19_14:
(Start: 2 @10494 has 5 MA's), (4, 10524), (Start: 9 @10569 has 70 MA's), (32, 10755), (43, 10947), (48, 11019),

Gene: Renaissance_14 Start: 10569, Stop: 11078, Start Num: 9
Candidate Starts for Renaissance_14:
(Start: 2 @10494 has 5 MA's), (4, 10524), (Start: 9 @10569 has 70 MA's), (32, 10755), (43, 10947), (48, 11019),

Gene: Reptar3000_20 Start: 12183, Stop: 12632, Start Num: 13
Candidate Starts for Reptar3000_20:
(Start: 5 @12120 has 2 MA's), (Start: 13 @12183 has 34 MA's), (30, 12282), (33, 12336), (36, 12402),

Gene: Richarlison_14 Start: 10569, Stop: 11078, Start Num: 9
Candidate Starts for Richarlison_14:
(Start: 2 @10494 has 5 MA's), (4, 10524), (Start: 9 @10569 has 70 MA's), (32, 10755), (43, 10947), (48, 11019),

Gene: Richo_19 Start: 10305, Stop: 10721, Start Num: 16
Candidate Starts for Richo_19:
(Start: 5 @10227 has 2 MA's), (Start: 16 @10305 has 20 MA's), (20, 10332), (42, 10581),

Gene: Rosmarinus_19 Start: 11257, Stop: 11694, Start Num: 15
Candidate Starts for Rosmarinus_19:
(Start: 5 @11179 has 2 MA's), (Start: 8 @11191 has 11 MA's), (Start: 15 @11257 has 122 MA's), (24, 11314), (34, 11431), (42, 11554), (47, 11620),

Gene: Ruriko_14 Start: 10569, Stop: 11078, Start Num: 9
Candidate Starts for Ruriko_14:
(Start: 2 @10494 has 5 MA's), (4, 10524), (Start: 9 @10569 has 70 MA's), (32, 10755), (43, 10947), (48, 11019),

Gene: Ruthiejr_19 Start: 12034, Stop: 12486, Start Num: 13
Candidate Starts for Ruthiejr_19:
(Start: 13 @12034 has 34 MA's), (22, 12103), (32, 12178), (33, 12190), (36, 12256), (48, 12439),

Gene: SamScheppers_18 Start: 11957, Stop: 12406, Start Num: 13
Candidate Starts for SamScheppers_18:
(Start: 5 @11894 has 2 MA's), (Start: 13 @11957 has 34 MA's), (30, 12056), (33, 12110), (36, 12176),

Gene: SamuelLPlaqson_19 Start: 11173, Stop: 11613, Start Num: 15
Candidate Starts for SamuelLPlaqson_19:
(Start: 5 @11095 has 2 MA's), (Start: 8 @11107 has 11 MA's), (12, 11134), (Start: 15 @11173 has 122 MA's), (42, 11473), (47, 11539),

Gene: Scarlett_18 Start: 10232, Stop: 10675, Start Num: 15
Candidate Starts for Scarlett_18:
(Start: 15 @10232 has 122 MA's), (22, 10286), (42, 10535),

Gene: Schiebel_14 Start: 10569, Stop: 11078, Start Num: 9
Candidate Starts for Schiebel_14:
(Start: 2 @10494 has 5 MA's), (4, 10524), (Start: 9 @10569 has 70 MA's), (32, 10755), (43, 10947), (48, 11019),

Gene: SgtBeansprout_15 Start: 10504, Stop: 10920, Start Num: 15
Candidate Starts for SgtBeansprout_15:
(Start: 15 @10504 has 122 MA's), (42, 10780),

Gene: ShaboiShabazz_14 Start: 10569, Stop: 11078, Start Num: 9
Candidate Starts for ShaboiShabazz_14:
(Start: 2 @10494 has 5 MA's), (4, 10524), (Start: 9 @10569 has 70 MA's), (32, 10755), (43, 10947), (48, 11019),

Gene: Shadow1_17 Start: 10121, Stop: 10543, Start Num: 16
Candidate Starts for Shadow1_17:
(Start: 16 @10121 has 20 MA's), (27, 10175), (32, 10229), (42, 10400),

Gene: Shaobing_19 Start: 10305, Stop: 10721, Start Num: 16
Candidate Starts for Shaobing_19:
(Start: 5 @10227 has 2 MA's), (Start: 16 @10305 has 20 MA's), (20, 10332), (42, 10581),

Gene: ShedlockHolmes_18 Start: 11349, Stop: 11783, Start Num: 15
Candidate Starts for ShedlockHolmes_18:
(Start: 8 @11286 has 11 MA's), (Start: 15 @11349 has 122 MA's), (17, 11367), (32, 11472), (40, 11616), (42, 11643), (43, 11664),

Gene: ShiaSurprise_19 Start: 11269, Stop: 11706, Start Num: 15
Candidate Starts for ShiaSurprise_19:
(Start: 5 @11191 has 2 MA's), (Start: 8 @11203 has 11 MA's), (Start: 15 @11269 has 122 MA's), (24, 11326), (34, 11443), (42, 11566), (47, 11632),

Gene: SirPhilip_18 Start: 10000, Stop: 10446, Start Num: 15
Candidate Starts for SirPhilip_18:
(Start: 5 @9922 has 2 MA's), (Start: 15 @10000 has 122 MA's), (32, 10135), (42, 10306), (44, 10333),

Gene: Sizemore_14 Start: 10570, Stop: 11079, Start Num: 9
Candidate Starts for Sizemore_14:
(Start: 2 @10495 has 5 MA's), (4, 10525), (Start: 9 @10570 has 70 MA's), (32, 10756), (43, 10948), (48, 11020),

Gene: Slarp_21 Start: 12441, Stop: 12890, Start Num: 13
Candidate Starts for Slarp_21:
(Start: 5 @12378 has 2 MA's), (Start: 13 @12441 has 34 MA's), (30, 12540), (33, 12594), (36, 12660),

Gene: Slimphazie_19 Start: 11233, Stop: 11670, Start Num: 15
Candidate Starts for Slimphazie_19:
(Start: 5 @11155 has 2 MA's), (Start: 8 @11167 has 11 MA's), (Start: 15 @11233 has 122 MA's), (24, 11290), (34, 11407), (42, 11530), (47, 11596),

Gene: Sneeze_14 Start: 10555, Stop: 11067, Start Num: 9
Candidate Starts for Sneeze_14:
(Start: 9 @10555 has 70 MA's), (35, 10819), (48, 11008),

Gene: SoSeph_17 Start: 11405, Stop: 11851, Start Num: 14
Candidate Starts for SoSeph_17:
(Start: 14 @11405 has 18 MA's), (28, 11489), (32, 11540), (40, 11684),

Gene: Spock_19 Start: 11269, Stop: 11706, Start Num: 15
Candidate Starts for Spock_19:
(Start: 5 @11191 has 2 MA's), (Start: 8 @11203 has 11 MA's), (Start: 15 @11269 has 122 MA's), (24, 11326), (34, 11443), (42, 11566), (47, 11632),

Gene: Stargaze_14 Start: 10778, Stop: 11371, Start Num: 1
Candidate Starts for Stargaze_14:
(Start: 1 @10778 has 1 MA's), (Start: 10 @10865 has 7 MA's), (35, 11123), (38, 11147), (39, 11165), (47, 11285),

Gene: Stinson_19 Start: 11203, Stop: 11637, Start Num: 15
Candidate Starts for Stinson_19:
(Start: 5 @11125 has 2 MA's), (Start: 8 @11137 has 11 MA's), (Start: 15 @11203 has 122 MA's), (32, 11326), (42, 11497), (47, 11563),

Gene: Strobilo_15 Start: 9253, Stop: 9702, Start Num: 13
Candidate Starts for Strobilo_15:
(Start: 8 @9196 has 11 MA's), (Start: 13 @9253 has 34 MA's), (21, 9325), (35, 9475), (36, 9481),

Gene: Sulley_19 Start: 11202, Stop: 11639, Start Num: 15
Candidate Starts for Sulley_19:
(Start: 5 @11124 has 2 MA's), (Start: 8 @11136 has 11 MA's), (Start: 15 @11202 has 122 MA's), (24, 11259), (42, 11499), (47, 11565),

Gene: Sunflower1121_17 Start: 10132, Stop: 10554, Start Num: 16
Candidate Starts for Sunflower1121_17:
(Start: 16 @10132 has 20 MA's), (27, 10186), (32, 10240), (42, 10411),

Gene: Sweets_14 Start: 10564, Stop: 11073, Start Num: 9
Candidate Starts for Sweets_14:
(Start: 2 @10489 has 5 MA's), (4, 10519), (Start: 9 @10564 has 70 MA's), (32, 10750), (43, 10942), (48, 11014),

Gene: Syra333_18 Start: 10227, Stop: 10649, Start Num: 16
Candidate Starts for Syra333_18:
(Start: 8 @10164 has 11 MA's), (Start: 16 @10227 has 20 MA's), (27, 10281), (32, 10335), (42, 10506),

Gene: TBond007_18 Start: 11100, Stop: 11534, Start Num: 15
Candidate Starts for TBond007_18:
(Start: 8 @11037 has 11 MA's), (Start: 15 @11100 has 122 MA's), (17, 11118), (32, 11223), (40, 11367), (42, 11394), (43, 11415),

Gene: TClif_18 Start: 10225, Stop: 10647, Start Num: 16
Candidate Starts for TClif_18:
(Start: 8 @10156 has 11 MA's), (Start: 10 @10168 has 7 MA's), (Start: 16 @10225 has 20 MA's), (42, 10507),

Gene: TM4_15 Start: 9314, Stop: 9763, Start Num: 13

Candidate Starts for TM4_15:
(Start: 13 @9314 has 34 MA's), (21, 9383), (35, 9536),

Gene: Tachez_19 Start: 11195, Stop: 11632, Start Num: 15
Candidate Starts for Tachez_19:
(Start: 5 @11117 has 2 MA's), (Start: 8 @11129 has 11 MA's), (Start: 15 @11195 has 122 MA's), (24, 11252), (34, 11369), (42, 11492), (47, 11558),

Gene: Taheera_14 Start: 10568, Stop: 11080, Start Num: 9
Candidate Starts for Taheera_14:
(Start: 9 @10568 has 70 MA's), (35, 10832), (48, 11021),

Gene: TaiwanKao_20 Start: 11202, Stop: 11642, Start Num: 15
Candidate Starts for TaiwanKao_20:
(Start: 5 @11124 has 2 MA's), (Start: 8 @11136 has 11 MA's), (Start: 15 @11202 has 122 MA's), (24, 11262), (42, 11502), (47, 11568),

Gene: Taquito_18 Start: 12025, Stop: 12477, Start Num: 13
Candidate Starts for Taquito_18:
(Start: 13 @12025 has 34 MA's), (22, 12094), (32, 12169), (33, 12181), (36, 12247), (48, 12430),

Gene: Teejan_15 Start: 10504, Stop: 10920, Start Num: 15
Candidate Starts for Teejan_15:
(Start: 15 @10504 has 122 MA's), (42, 10780),

Gene: Terralys_14 Start: 10569, Stop: 11078, Start Num: 9
Candidate Starts for Terralys_14:
(Start: 2 @10494 has 5 MA's), (4, 10524), (Start: 9 @10569 has 70 MA's), (32, 10755), (43, 10947), (48, 11019),

Gene: Terror_14 Start: 10568, Stop: 11080, Start Num: 9
Candidate Starts for Terror_14:
(Start: 9 @10568 has 70 MA's), (35, 10832), (48, 11021),

Gene: Thyatira_17 Start: 11277, Stop: 11723, Start Num: 14
Candidate Starts for Thyatira_17:
(Start: 14 @11277 has 18 MA's), (25, 11349), (28, 11361), (32, 11412), (40, 11556),

Gene: Tierra_18 Start: 10951, Stop: 11373, Start Num: 16
Candidate Starts for Tierra_18:
(Start: 8 @10885 has 11 MA's), (Start: 16 @10951 has 20 MA's), (20, 10984), (32, 11062), (42, 11233),

Gene: Tigress9_18 Start: 10147, Stop: 10632, Start Num: 8
Candidate Starts for Tigress9_18:
(Start: 8 @10147 has 11 MA's), (Start: 16 @10210 has 20 MA's), (27, 10264), (32, 10318), (42, 10489),

Gene: TinaBug_14 Start: 10564, Stop: 11073, Start Num: 9
Candidate Starts for TinaBug_14:
(Start: 2 @10489 has 5 MA's), (Start: 9 @10564 has 70 MA's), (32, 10750), (43, 10942), (48, 11014),

Gene: TingHuaYa_19 Start: 10264, Stop: 10677, Start Num: 16
Candidate Starts for TingHuaYa_19:
(Start: 8 @10198 has 11 MA's), (Start: 16 @10264 has 20 MA's), (27, 10312), (42, 10537),

Gene: TiniBug_19 Start: 11173, Stop: 11613, Start Num: 15
Candidate Starts for TiniBug_19:
(Start: 5 @11095 has 2 MA's), (Start: 8 @11107 has 11 MA's), (12, 11134), (Start: 15 @11173 has 122 MA's), (42, 11473), (47, 11539),

Gene: Tiri_19 Start: 11241, Stop: 11678, Start Num: 15
Candidate Starts for Tiri_19:
(Start: 5 @11163 has 2 MA's), (Start: 8 @11175 has 11 MA's), (Start: 15 @11241 has 122 MA's), (24, 11298), (42, 11538), (47, 11604),

Gene: TomBrady_14 Start: 10570, Stop: 11079, Start Num: 9
Candidate Starts for TomBrady_14:
(Start: 2 @10495 has 5 MA's), (4, 10525), (Start: 9 @10570 has 70 MA's), (32, 10756), (43, 10948), (48, 11020),

Gene: Topper_19 Start: 11269, Stop: 11706, Start Num: 15
Candidate Starts for Topper_19:
(Start: 5 @11191 has 2 MA's), (Start: 8 @11203 has 11 MA's), (Start: 15 @11269 has 122 MA's), (24, 11326), (34, 11443), (42, 11566), (47, 11632),

Gene: Torres_15 Start: 10504, Stop: 10920, Start Num: 15
Candidate Starts for Torres_15:
(Start: 15 @10504 has 122 MA's), (42, 10780),

Gene: TreyKay_19 Start: 11196, Stop: 11636, Start Num: 15
Candidate Starts for TreyKay_19:
(Start: 5 @11118 has 2 MA's), (Start: 8 @11130 has 11 MA's), (Start: 15 @11196 has 122 MA's), (24, 11256), (42, 11496), (47, 11562),

Gene: TribleTrouble_17 Start: 11167, Stop: 11592, Start Num: 15
Candidate Starts for TribleTrouble_17:
(Start: 15 @11167 has 122 MA's), (32, 11281), (40, 11425), (41, 11443), (42, 11452), (43, 11473),

Gene: Trice_15 Start: 10504, Stop: 10920, Start Num: 15
Candidate Starts for Trice_15:
(Start: 15 @10504 has 122 MA's), (42, 10780),

Gene: TruffulaTree_19 Start: 11229, Stop: 11666, Start Num: 15
Candidate Starts for TruffulaTree_19:
(Start: 5 @11151 has 2 MA's), (Start: 8 @11163 has 11 MA's), (Start: 15 @11229 has 122 MA's), (24, 11286), (34, 11403), (42, 11526), (47, 11592),

Gene: Twitch_19 Start: 11269, Stop: 11706, Start Num: 15
Candidate Starts for Twitch_19:
(Start: 5 @11191 has 2 MA's), (Start: 8 @11203 has 11 MA's), (Start: 15 @11269 has 122 MA's), (24, 11326), (34, 11443), (42, 11566), (47, 11632),

Gene: Unicorn_18 Start: 10279, Stop: 10701, Start Num: 16
Candidate Starts for Unicorn_18:
(Start: 5 @10207 has 2 MA's), (Start: 16 @10279 has 20 MA's), (20, 10312), (32, 10390), (42, 10561),

Gene: Urkel_19 Start: 11173, Stop: 11613, Start Num: 15

Candidate Starts for Urkel_19:
(Start: 5 @11095 has 2 MA's), (Start: 8 @11107 has 11 MA's), (12, 11134), (Start: 15 @11173 has 122 MA's), (42, 11473), (47, 11539),

Gene: Validus_19 Start: 10149, Stop: 10643, Start Num: 5
Candidate Starts for Validus_19:
(Start: 5 @10149 has 2 MA's), (Start: 16 @10230 has 20 MA's), (20, 10254), (31, 10293), (42, 10503),

Gene: Veliki_19 Start: 11269, Stop: 11706, Start Num: 15
Candidate Starts for Veliki_19:
(Start: 5 @11191 has 2 MA's), (Start: 8 @11203 has 11 MA's), (Start: 15 @11269 has 122 MA's), (24, 11326), (34, 11443), (42, 11566), (47, 11632),

Gene: ViviJ_16 Start: 11138, Stop: 11584, Start Num: 14
Candidate Starts for ViviJ_16:
(Start: 8 @11093 has 11 MA's), (Start: 14 @11138 has 18 MA's), (28, 11222), (32, 11273), (36, 11354),

Gene: Waterfoul_17 Start: 11299, Stop: 11745, Start Num: 14
Candidate Starts for Waterfoul_17:
(Start: 14 @11299 has 18 MA's), (25, 11371), (28, 11383), (32, 11434), (40, 11578),

Gene: Wendigo_14 Start: 10569, Stop: 11078, Start Num: 9
Candidate Starts for Wendigo_14:
(Start: 2 @10494 has 5 MA's), (4, 10524), (Start: 9 @10569 has 70 MA's), (32, 10755), (43, 10947), (48, 11019),

Gene: Wintermute_20 Start: 12430, Stop: 12879, Start Num: 13
Candidate Starts for Wintermute_20:
(Start: 5 @12367 has 2 MA's), (Start: 13 @12430 has 34 MA's), (30, 12529), (33, 12583), (36, 12649),

Gene: Ximenita_19 Start: 10406, Stop: 10828, Start Num: 16
Candidate Starts for Ximenita_19:
(Start: 16 @10406 has 20 MA's), (20, 10436), (27, 10460), (32, 10514), (42, 10685),

Gene: Y10_20 Start: 12430, Stop: 12879, Start Num: 13
Candidate Starts for Y10_20:
(Start: 5 @12367 has 2 MA's), (Start: 13 @12430 has 34 MA's), (30, 12529), (33, 12583), (36, 12649),

Gene: Y2_20 Start: 12430, Stop: 12879, Start Num: 13
Candidate Starts for Y2_20:
(Start: 5 @12367 has 2 MA's), (Start: 13 @12430 has 34 MA's), (30, 12529), (33, 12583), (36, 12649),

Gene: YangYin_14 Start: 10865, Stop: 11392, Start Num: 10
Candidate Starts for YangYin_14:
(Start: 1 @10778 has 1 MA's), (Start: 10 @10865 has 7 MA's), (31, 11021), (35, 11144), (38, 11168), (39, 11186), (40, 11213), (47, 11306),

Gene: YasnayaPolyana_21 Start: 12431, Stop: 12880, Start Num: 13
Candidate Starts for YasnayaPolyana_21:
(Start: 5 @12368 has 2 MA's), (Start: 13 @12431 has 34 MA's), (30, 12530), (33, 12584), (36, 12650),

Gene: YoureAdopted_18 Start: 11202, Stop: 11639, Start Num: 15
Candidate Starts for YoureAdopted_18:

(Start: 5 @11124 has 2 MA's), (Start: 8 @11136 has 11 MA's), (Start: 15 @11202 has 122 MA's), (24, 11259), (34, 11376), (42, 11499), (47, 11565),

Gene: Yuna_19 Start: 10337, Stop: 10783, Start Num: 15
Candidate Starts for Yuna_19:
(Start: 15 @10337 has 122 MA's), (32, 10472), (42, 10643), (49, 10763),

Gene: Yunkel11_19 Start: 10187, Stop: 10600, Start Num: 16
Candidate Starts for Yunkel11_19:
(Start: 8 @10121 has 11 MA's), (Start: 16 @10187 has 20 MA's), (20, 10211), (27, 10235), (42, 10460),

Gene: Zabiza_19 Start: 11230, Stop: 11667, Start Num: 15
Candidate Starts for Zabiza_19:
(Start: 5 @11152 has 2 MA's), (Start: 8 @11164 has 11 MA's), (Start: 15 @11230 has 122 MA's), (24, 11287), (34, 11404), (42, 11527), (47, 11593),

Gene: Zavala_19 Start: 11210, Stop: 11647, Start Num: 15
Candidate Starts for Zavala_19:
(Start: 5 @11132 has 2 MA's), (Start: 8 @11144 has 11 MA's), (Start: 15 @11210 has 122 MA's), (24, 11267), (34, 11384), (42, 11507), (47, 11573),

Gene: ZoMa_14 Start: 10569, Stop: 11078, Start Num: 9
Candidate Starts for ZoMa_14:
(Start: 2 @10494 has 5 MA's), (4, 10524), (Start: 9 @10569 has 70 MA's), (32, 10755), (43, 10947), (48, 11019),

Gene: ZoeJ_15 Start: 9211, Stop: 9663, Start Num: 13
Candidate Starts for ZoeJ_15:
(Start: 8 @9154 has 11 MA's), (Start: 9 @9166 has 70 MA's), (Start: 13 @9211 has 34 MA's), (21, 9283), (35, 9436),

Gene: Zombie_14 Start: 10569, Stop: 11078, Start Num: 9
Candidate Starts for Zombie_14:
(Start: 2 @10494 has 5 MA's), (4, 10524), (Start: 9 @10569 has 70 MA's), (32, 10755), (43, 10947), (48, 11019),