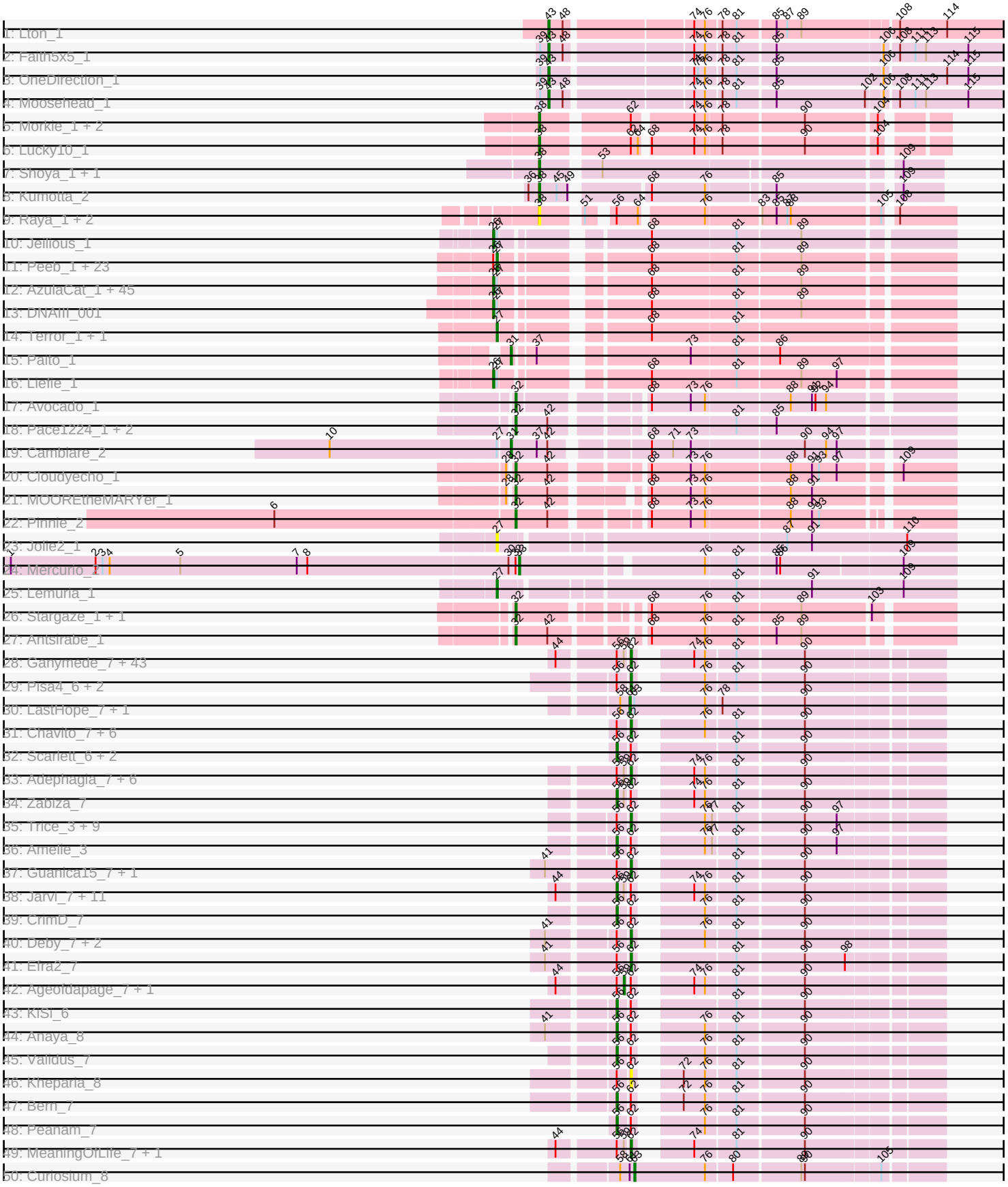
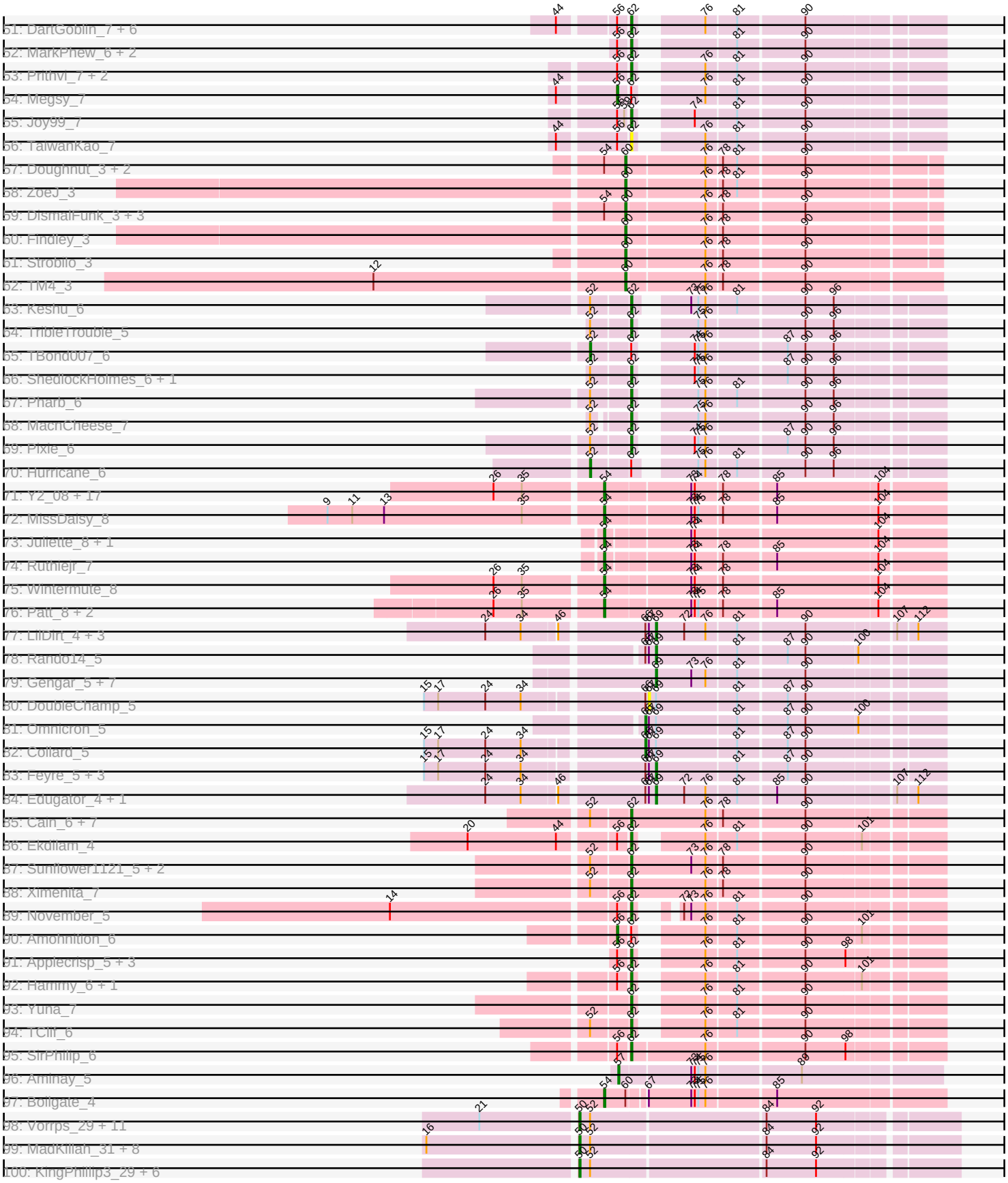
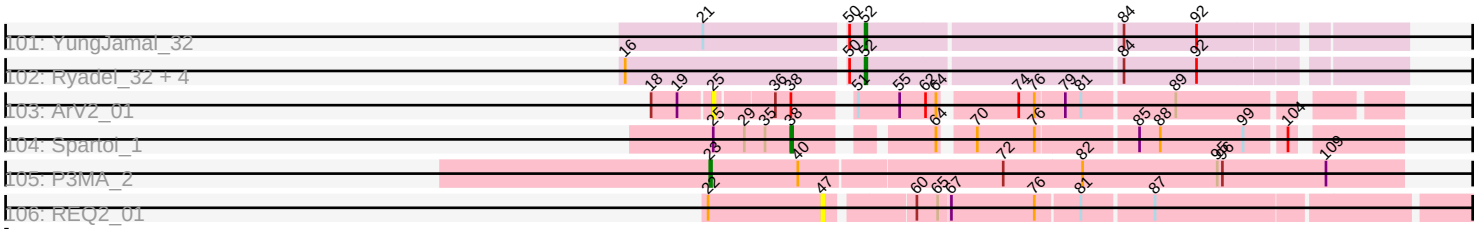
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1: Lion_1
2: Faith5x5_1
3: OneDirection_1
4: Moosehead_1
5: Morkie_1 + 2
6: Lucky10_1
7: Shoya_1 + 1
8: Kumotta_2
9: Raya_1 + 2
10: Jellious_1
11: Peeb_1 + 23
12: AzulaCat_1 + 45
13: DNAm_001
14: Terror_1 + 1
15: Paito_1
16: Lielie_1
17: Avocado_1
18: Pace1224_1 + 2
19: Cambiare_2
20: Cloudyecho_1
21: MOOREtheMARYer_1
22: Pinnie_2
23: Jolie2_1
24: Mercurio_2
25: Lemuria_1
26: Stargaze_1 + 1
27: Amsirabe_1
28: Ganymede_7 + 43
29: Pisa4_6 + 2
30: LastHope_7 + 1
31: Chavito_7 + 6
32: Scarlett_6 + 2
33: Adephagia_7 + 6
34: Zabiza_7
35: Trice_3 + 9
36: Amelie_3
37: Guanica15_7 + 1
38: Jarvi_7 + 11
39: ChmD_7
40: Deby_7 + 2
41: Elra2_7
42: Ageoldapage_7 + 1
43: KISI_6
44: Anaya_8
45: Validus_7
46: Kheparia_8
47: Bem_7
48: Peanam_7
49: MeaningOfLife_7 + 1
50: Curiosium_8

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51: DartGoblin_7 + 6
52: MarkPhew_6 + 2
53: Prithvi_7 + 2
54: Megsy_7
55: Joy99_7
56: TaiwanKao_7
57: Doughnut_3 + 2
58: ZoeJ_3
59: DismalFunk_3 + 3
60: Findley_3
61: Strobilo_3
62: TM4_3
63: Keshu_6
64: TrebleTrouble_5
65: TBond007_6
66: SnedlockHolmes_6 + 1
67: Pharb_6
68: MacnCheese_7
69: Pixie_6
70: Hurricane_6
71: Y2_08 + 17
72: MissDaisy_8
73: Juliette_8 + 1
74: Ruthiejr_7
75: Wintermute_8
76: Patt_8 + 2
77: LilDirt_4 + 3
78: Rando14_5
79: Gengar_5 + 7
80: DoubleChamp_5
81: Omnicron_5
82: Collard_5
83: Feyre_5 + 3
84: Edugator_4 + 1
85: Cain_6 + 7
86: Ekollam_4
87: Sunflower1121_5 + 2
88: Ximenita_7
89: November_5
90: Amohnition_6
91: Applecrisp_5 + 3
92: Hammy_6 + 1
93: Yuna_7
94: TCliff_6
95: SirPhilip_6
96: Aminay_5
97: Boilgate_4
98: Vorrps_29 + 11
99: MadKillah_31 + 8
100: KingPhilip3_29 + 6

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101: YungJamal_32
102: Ryadel_32 + 4
103: Arv2_01
104: Spartol_1
105: P3MA_2
106: REQ2_01

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 347131 Report

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

Pham number 347131 has 360 members, 29 are drafts.

Phages represented in each track:
- Track 1 : Lton_1
- Track 2 : Faith5x5_1
- Track 3 : OneDirection_1
- Track 4 : Moosehead_1
- Track 5 : Morkie_1, PhorbesPhlower_1, InLimbo_1
- Track 6 : Lucky10_1
- Track 7 : Shoya_1, Rooter_1
- Track 8 : Kumotta_2
- Track 9 : Raya_1, Neroxid_1, Skyerus_1
- Track 10 : Jeilious_1
- Track 11 : Peeb_1, Sweets_1, Maliketh_1, Cherrybomb426_1, TinaBug_1, Hotshotbaby7_1, Grizzly_1, PinkYoshi_1, Kasen3_1, Primanti_1, Sizemore_1, Phish_1, AizenPogi_1, Olga_1, Darionha_1, Mowgli_1, Schiebel_1, GoldenAsh_1, ForeverHowLong_1, Neoh_1, Plagueis_1, ShaboiShabazz_1, Terralys_1, DMoney_1
- Track 12 : AzulaCat_1, Rabbs_1, BruceB_1, Hope_1, DingDing_1, Camri_1, Wendigo_1, Barkley26_1, Phloodle_1, CassieYates_1, Marmie_1, ECartman_1, Halo_1, Jane_1, Zombie_1, CLED96_1, Jonghyun_1, JorRay_1, Renaissance_1, Remy19_1, Cedasite_1, Periodt_1, BQuat_1, Annihilator_1, Crespo_1, Gomashi_1, Frosty24_1, ZoMa_1, BPs_1, OctaviousRex_1, Richarlison_1, Phreak_1, Aroostook_1, Ruriko_1, Gideon_1, LouisV14_1, Jolene_1, Avrafan_1, TomBrady_1, Rattrick_1, MZKinsey_1, Kareem_1, Angel_1, Sneeze_1, Chance64_1, Coleslaw_1
- Track 13 : DNAIII_001
- Track 14 : Terror_1, Taheera_1
- Track 15 : Paito_1
- Track 16 : Liefie_1
- Track 17 : Avocado_1
- Track 18 : Pace1224_1, FlagStaff_1, GodSpeed_1
- Track 19 : Cambiare_2
- Track 20 : Cloudyecho_1
- Track 21 : MOOREtheMARYer_1
- Track 22 : Pinnie_2
- Track 23 : Jolie2_1
- Track 24 : Mercurio_2
- Track 25 : Lemuria_1
- Track 26 : Stargaze_1, YangYin_1
- Track 27 : Antsirabe_1

• Track 28 : Ganymede_7, Durfee_7, ShiaSurprise_7, TruffulaTree_7, Clipper_7, MacKat_7, Apocalypse_7, Tiri_7, LaterM_7, Capricorn_7, Dalmuri_7, Asayake_7, Hyperbowlee_7, Beezoo_7, Homura_7, Geraldini_7, Belladonna_7, Lunahalos_7, BEEST_7, Padpat_7, CallaLilly_7, Devera_7, BarrelRoll_7, Boiiii_7, Pokerus_6, Emerson_7, Topper_7, CheetoDust_7, Piatt_7, Illumine_7, Mynx_7, Llorens_7, Jeckyll_7, Dole_7, Murucutumbu_7, JAWS_7, Blizzard_7, BGlluviae_7, Veliki_7, YoureAdopted_6, Rosmarinus_7, Tachez_7, Spock_7, Inky_7
• Track 29 : Pisa4_6, Marshawn_8, Pisa1_6
• Track 30 : LastHope_7, TingHuaYa_7
• Track 31 : Chavito_7, McMater_7, Richo_7, Shaobing_7, Dartin_7, Lavahound_5, Niklas_7
• Track 32 : Scarlett_6, LeMond_6, Oscar_6
• Track 33 : Adephagia_7, Slimphazie_7, Jayhawk_7, Ramen_7, HedwigODU_7, ActinUp_7, Rapunzel97_7
• Track 34 : Zabiza_7
• Track 35 : Trice_3, Enkosi_3, SgtBeansprout_3, Torres_3, Teejan_3, Nutello_3, Nikao_3, Mdavu_3, LilPharaoh_3, Biglebops_3
• Track 36 : Amelie_3
• Track 37 : Guanica15_7, Yunkel11_7
• Track 38 : Jarvi_7, CREW_7, Stinson_7, Padfoot_7, Zavala_7, Lokum_7, AlishaPH_7, Adonis_7, Twitch_7, QuincyRose_6, Peel_7, CaseJules_7
• Track 39 : CrimD_7
• Track 40 : Deby_7, Angelica_7, Sulley_7
• Track 41 : Efra2_7
• Track 42 : Ageofdapage_7, Atiba_7
• Track 43 : KiSi_6
• Track 44 : Anaya_8
• Track 45 : Validus_7
• Track 46 : Kheparia_8
• Track 47 : Bern_7
• Track 48 : Peanam_7
• Track 49 : MeaningOfLife_7, BaghaKamala_7
• Track 50 : Curiosium_8
• Track 51 : DartGoblin_7, DrHayes_7, Anma_7, Bella96_7, SamuelLPlaqson_7, TiniBug_7, Urkel_7
• Track 52 : MarkPhew_6, Nibb_6, Chris_6
• Track 53 : Prithvi_7, LindNT_7, TreyKay_7
• Track 54 : Megsy_7
• Track 55 : Joy99_7
• Track 56 : TaiwanKao_7
• Track 57 : Doughnut_3, BoostSeason_3, Mufasa_3
• Track 58 : ZoeJ_3
• Track 59 : DismalFunk_3, Milly_3, Marcoliusprime_3, DismalStressor_3
• Track 60 : Findley_3
• Track 61 : Strobilo_3
• Track 62 : TM4_3
• Track 63 : Keshu_6
• Track 64 : TribleTrouble_5
• Track 65 : TBond007_6
• Track 66 : ShedlockHolmes_6, Lea83_6
• Track 67 : Pharb_6
• Track 68 : MacnCheese_7
• Track 69 : Pixie_6

• Track 70 : Hurricane_6
• Track 71 : Y2_08, Fionnbharth_8, Slarp_8, JF1_8, Cheetobro_8, Chancellor_8, Nolwazi_8, Mitti_8, YasnayaPolyana_8, DanSyl44_8, Qhanda_8, Taquito_6, OmniCritical_8, SamScheppers_6, Malthus_8, Kraw_8, Lebo14_8, Y10_08
• Track 72 : MissDaisy_8
• Track 73 : Juliette_8, Eponine_8
• Track 74 : Ruthiejr_7
• Track 75 : Wintermute_8
• Track 76 : Patt_8, Bobquesha_8, Reptar3000_8
• Track 77 : LilDirt_4, Agent47_5, ViviJ_4, Neighly_5
• Track 78 : Rando14_5
• Track 79 : Gengar_5, SoSeph_5, Heftyboy_5, Waterfoul_5, OkiRoe_5, Leston_5, Guillsminger_5, Paola_5
• Track 80 : DoubleChamp_5
• Track 81 : Omnicron_5
• Track 82 : Collard_5
• Track 83 : Feyre_5, Thyatira_5, BananenDer11_5, Miryou_5
• Track 84 : Edugator_4, Dadosky_5
• Track 85 : Cain_6, Unicorn_6, Tierra_6, Krueger_6, PhelpsODU_6, Bryler_6, Phrank_6, Tigress9_6
• Track 86 : Ekdilam_4
• Track 87 : Sunflower1121_5, Shadow1_5, Syra333_6
• Track 88 : Ximenita_7
• Track 89 : November_5
• Track 90 : Amohnition_6
• Track 91 : Applecrisp_5, Ellie_4, Fefferhead_6, Amgine_5
• Track 92 : Hammy_6, DarthP_6
• Track 93 : Yuna_7
• Track 94 : TClif_6
• Track 95 : SirPhilip_6
• Track 96 : Aminay_5
• Track 97 : Boilgate_4
• Track 98 : Vorrps_29, Bora_27, Wildflower_30, Ashwin_31, Firecracker_30, Dylan_29, Zakhe101_30, Shida_30, Krili_29, Corndog_31, Mori_29, NiebruSaylor_29
• Track 99 : MadKillah_31, Zebo_29, Smooch_32, Blessica_30, Alkhayr_30, Vagabond_30, Wogge42_29, Schuy_31, Imara_30
• Track 100 : KingPhillip3_29, JangDynasty_29, TelAviv_27, Idergollasper_29, FoulBall_29, Murai_30, Familton_30
• Track 101 : YungJamal_32
• Track 102 : Ryadel_32, YoyoKar_28, SchoolBus_29, Catdawg_29, Winget_30
• Track 103 : ArV2_01
• Track 104 : Spartoi_1
• Track 105 : P3MA_2
• Track 106 : REQ2_01

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

The start number called the most often in the published annotations is 62, it was called in 118 of the 331 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• ActinUp_7, Adephagia_7, Amgine_5, Angelica_7, Anma_7, Apocalypse_7, Applecrisp_5, Asayake_7, BEEST_7, BGlluviae_7, BaghaKamala_7, BarrelRoll_7, Beezoo_7, Bella96_7, Belladonna_7, Biglebops_3, Blizzard_7, Boiiii_7, Bryler_6, Cain_6, CallaLilly_7, Capricorn_7, Chavito_7, CheetoDust_7, Chris_6, Clipper_7, Dalmuri_7, DartGoblin_7, DarthP_6, Dartin_7, Deby_7, Devera_7, Dole_7, DrHayes_7, Durfee_7, Efra2_7, Ekdilam_4, Ellie_4, Emerson_7, Enkosi_3, Fefferhead_6, Ganymede_7, Geraldini_7, Guanica15_7, Hammy_6, HedwigODU_7, Homura_7, Hyperbowlee_7, Illumine_7, Inky_7, JAWS_7, Jayhawk_7, Jeckyll_7, Joy99_7, Keshu_6, Kheparia_8, Krueger_6, LaterM_7, Lavahound_5, Lea83_6, LilPharaoh_3, LindNT_7, Llorens_7, Lunahalos_7, MacKat_7, MacnCheese_7, MarkPhew_6, Marshawn_8, McMater_7, Mdavu_3, MeaningOfLife_7, Murucutumbu_7, Mynx_7, Nibb_6, Nikao_3, Niklas_7, November_5, Nutello_3, Padpat_7, Pharb_6, PhelpsODU_6, Phrank_6, Piatt_7, Pisa1_6, Pisa4_6, Pixie_6, Pokerus_6, Prithvi_7, Ramen_7, Rapunzel97_7, Richo_7, Rosmarinus_7, SamuelLPlaqson_7, SgtBeansprout_3, Shadow1_5, Shaobing_7, ShedlockHolmes_6, ShiaSurprise_7, SirPhilip_6, Slimphazie_7, Spock_7, Sulley_7, Sunflower1121_5, Syra333_6, TClif_6, Tachez_7, TaiwanKao_7, Teejan_3, Tierra_6, Tigress9_6, TiniBug_7, Tiri_7, Topper_7, Torres_3, TreyKay_7, TribleTrouble_5, Trice_3, TruffulaTree_7, Unicorn_6, Urkel_7, Veliki_7, Ximenita_7, YoureAdopted_6, Yuna_7, Yunkel11_7,

Genes that have the "Most Annotated" start but do not call it:
• Adonis_7, Ageofdapage_7, AlishaPH_7, Amelie_3, Amohnition_6, Anaya_8, ArV2_01, Atiba_7, Bern_7, CREW_7, CaseJules_7, CrimD_7, Hurricane_6, InLimbo_1, Jarvi_7, KiSi_6, LeMond_6, Lokum_7, Lucky10_1, Megsy_7, Morkie_1, Oscar_6, Padfoot_7, Peanam_7, Peel_7, PhorbesPhlower_1, QuincyRose_6, Scarlett_6, Stinson_7, TBond007_6, Twitch_7, Validus_7, Zabiza_7, Zavala_7,

Genes that do not have the "Most Annotated" start:
• Agent47_5, AizenPogi_1, Alkhayr_30, Aminay_5, Angel_1, Annihilator_1, Antsirabe_1, Aroostook_1, Ashwin_31, Avocado_1, Avrafan_1, AzulaCat_1, BPs_1, BQuat_1, BananenDer11_5, Barkley26_1, Blessica_30, Bobquesha_8, Boilgate_4, BoostSeason_3, Bora_27, BruceB_1, CLED96_1, Cambiare_2, Camri_1, CassieYates_1, Catdawg_29, Cedasite_1, Chance64_1, Chancellor_8, Cheetobro_8, Cherrybomb426_1, Cloudyecho_1, Coleslaw_1, Collard_5, Corndog_31, Crespo_1, Curiosium_8, DMoney_1, DNAIII_001, Dadosky_5, DanSyl44_8, Darionha_1, DingDing_1, DismalFunk_3, DismalStressor_3, DoubleChamp_5, Doughnut_3, Dylan_29, ECartman_1, Edugator_4, Eponine_8, Faith5x5_1, Famílton_30, Feyre_5, Findley_3, Fionnbharth_8, Firecracker_30, FlagStaff_1, ForeverHowLong_1, FoulBall_29, Frosty24_1, Gengar_5, Gideon_1, GodSpeed_1, GoldenAsh_1, Gomashi_1, Grizzly_1, Guillsminger_5, Halo_1, Heftyboy_5, Hope_1, Hotshotbaby7_1, Idergollasper_29, Imara_30, JF1_8, Jane_1, JangDynasty_29, Jeilious_1, Jolene_1, Jolie2_1, Jonghyun_1, JorRay_1, Juliette_8, Kareem_1, Kasen3_1, KingPhillip3_29, Kraw_8, Krili_29, Kumotta_2, LastHope_7, Lebo14_8, Lemuria_1, Leston_5, Liefie_1, LilDirt_4, LouisV14_1, Lton_1, MOOREtheMARYer_1, MZKinsey_1, MadKillah_31, Maliketh_1, Malthus_8, Marcoliusprime_3, Marmie_1, Mercurio_2, Milly_3, Miryou_5, MissDaisy_8, Mitti_8, Moosehead_1, Mori_29, Mowgli_1, Mufasa_3, Murai_30, Neighly_5, Neoh_1, Neroxid_1, NiebruSaylor_29, Nolwazi_8, OctaviousRex_1, OkiRoe_5, Olga_1, OmniCritical_8, Omnicron_5, OneDirection_1, P3MA_2, Pace1224_1, Paito_1, Paola_5, Patt_8, Peeb_1, Periodt_1, Phish_1, Phloodle_1, Phreak_1, PinkYoshi_1, Pinnie_2, Plagueis_1, Primanti_1, Qhanda_8, REQ2_01, Rabbs_1, Rando14_5, Rattrick_1, Raya_1,

Remy19_1, Renaissance_1, Reptar3000_8, Richarlison_1, Rooter_1, Ruriko_1, Ruthiejr_7, Ryadel_32, SamScheppers_6, Schiebel_1, SchoolBus_29, Schuy_31, ShaboiShabazz_1, Shida_30, Shoya_1, Sizemore_1, Skyerus_1, Slarp_8, Smooch_32, Sneeze_1, SoSeph_5, Spartoi_1, Stargaze_1, Strobilo_3, Sweets_1, TM4_3, Taheera_1, Taquito_6, TelAviv_27, Terralys_1, Terror_1, Thyatira_5, TinaBug_1, TingHuaYa_7, TomBrady_1, Vagabond_30, ViviJ_4, Vorrps_29, Waterfoul_5, Wendigo_1, Wildflower_30, Winget_30, Wintermute_8, Wogge42_29, Y10_08, Y2_08, YangYin_1, YasnayaPolyana_8, YoyoKar_28, YungJamal_32, Zakhe101_30, Zebo_29, ZoMa_1, ZoeJ_3, Zombie_1,

Summary by start number:

Start 23:
• Found in 1 of 360 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 331
• Called 100.0% of time when present
• Phage (with cluster) where this start called: P3MA_2 (singleton),

Start 25:
• Found in 2 of 360 (0.6%) of genes in pham
• No Manual Annotations of this start.
• Called 50.0% of time when present
• Phage (with cluster) where this start called: ArV2_01 (singleton),

Start 26:
• Found in 95 of 360 (26.4%) of genes in pham
• Manual Annotations of this start: 49 of 331
• Called 51.6% of time when present
• Phage (with cluster) where this start called: Angel_1 (G1), Annihilator_1 (G1), Aroostook_1 (G1), Avrafan_1 (G1), AzulaCat_1 (G1), BPs_1 (G1), BQuat_1 (G1), Barkley26_1 (G1), BruceB_1 (G1), CLED96_1 (G1), Camri_1 (G1), CassieYates_1 (G1), Cedasite_1 (G1), Chance64_1 (G1), Coleslaw_1 (G1), Crespo_1 (G1), DNAIII_001 (G1), DingDing_1 (G1), ECartman_1 (G1), Frosty24_1 (G1), Gideon_1 (G1), Gomashi_1 (G1), Halo_1 (G1), Hope_1 (G1), Jane_1 (G1), Jeilious_1 (G), Jolene_1 (G1), Jonghyun_1 (G1), JorRay_1 (G1), Kareem_1 (G1), Liefie_1 (G1), LouisV14_1 (G1), MZKinsey_1 (G1), Marmie_1 (G1), OctaviousRex_1 (G1), Periodt_1 (G1), Phloodle_1 (G1), Phreak_1 (G1), Rabbs_1 (G1), Rattrick_1 (G1), Remy19_1 (G1), Renaissance_1 (G1), Richarlison_1 (G1), Ruriko_1 (G1), Sneeze_1 (G1), TomBrady_1 (G1), Wendigo_1 (G1), ZoMa_1 (G1), Zombie_1 (G1),

Start 27:
• Found in 78 of 360 (21.7%) of genes in pham
• Manual Annotations of this start: 23 of 331
• Called 35.9% of time when present
• Phage (with cluster) where this start called: AizenPogi_1 (G1), Cherrybomb426_1 (G1), DMoney_1 (G1), Darionha_1 (G1), ForeverHowLong_1 (G1), GoldenAsh_1 (G1), Grizzly_1 (G1), Hotshotbaby7_1 (G1), Jolie2_1 (G4), Kasen3_1 (G1), Lemuria_1 (G4), Maliketh_1 (G1), Mowgli_1 (G1), Neoh_1 (G), Olga_1 (G1), Peeb_1 (G1), Phish_1 (G1), PinkYoshi_1 (G1), Plagueis_1 (G1), Primanti_1 (G1), Schiebel_1 (G1), ShaboiShabazz_1 (G1), Sizemore_1 (G1), Sweets_1 (G1), Taheera_1 (G1), Terralys_1 (G1), Terror_1 (G1), TinaBug_1 (G1),

Start 31:

• Found in 2 of 360 (0.6%) of genes in pham
• Manual Annotations of this start: 2 of 331
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Cambiare_2 (G2), Paito_1 (G1),

Start 32:
• Found in 11 of 360 (3.1%) of genes in pham
• Manual Annotations of this start: 9 of 331
• Called 90.9% of time when present
• Phage (with cluster) where this start called: Antsirabe_1 (G5), Avocado_1 (G2), Cloudyecho_1 (G3), FlagStaff_1 (G2), GodSpeed_1 (G2), MOOREtheMARYer_1 (G3), Pace1224_1 (G2), Pinnie_2 (G3), Stargaze_1 (G5), YangYin_1 (G5),

Start 33:
• Found in 1 of 360 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 331
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Mercurio_2 (G4),

Start 38:
• Found in 12 of 360 (3.3%) of genes in pham
• Manual Annotations of this start: 7 of 331
• Called 91.7% of time when present
• Phage (with cluster) where this start called: InLimbo_1 (DH), Kumotta_2 (FB), Lucky10_1 (DH), Morkie_1 (DH), Neroxid_1 (FQ2), PhorbesPhlower_1 (DH), Raya_1 (FQ2), Rooter_1 (FB), Shoya_1 (FB), Skyerus_1 (FQ2), Spartoi_1 (singleton),

Start 43:
• Found in 4 of 360 (1.1%) of genes in pham
• Manual Annotations of this start: 4 of 331
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Faith5x5_1 (CZ6), Lton_1 (CZ), Moosehead_1 (CZ6), OneDirection_1 (CZ6),

Start 47:
• Found in 1 of 360 (0.3%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: REQ2_01 (singleton),

Start 50:
• Found in 34 of 360 (9.4%) of genes in pham
• Manual Annotations of this start: 27 of 331
• Called 82.4% of time when present
• Phage (with cluster) where this start called: Alkhayr_30 (O), Ashwin_31 (O), Blessica_30 (O), Bora_27 (O), Corndog_31 (O), Dylan_29 (O), Familton_30 (O), Firecracker_30 (O), FoulBall_29 (O), Idergollasper_29 (O), Imara_30 (O), JangDynasty_29 (O), KingPhillip3_29 (O), Krili_29 (O), MadKillah_31 (O), Mori_29 (O), Murai_30 (O), NiebruSaylor_29 (O), Schuy_31 (O), Shida_30 (O), Smooch_32 (O), TelAviv_27 (O), Vagabond_30 (O), Vorrps_29 (O), Wildflower_30 (O), Wogge42_29 (O), Zakhe101_30 (O), Zebo_29 (O),

Start 52:

• Found in 56 of 360 (15.6%) of genes in pham
• Manual Annotations of this start: 7 of 331
• Called 14.3% of time when present
• Phage (with cluster) where this start called: Catdawg_29 (O), Hurricane_6 (K3), Ryadel_32 (O), SchoolBus_29 (O), TBond007_6 (K3), Winget_30 (O), YoyoKar_28 (O), YungJamal_32 (O),

Start 54:
• Found in 34 of 360 (9.4%) of genes in pham
• Manual Annotations of this start: 23 of 331
• Called 79.4% of time when present
• Phage (with cluster) where this start called: Bobquesha_8 (K4), Boilgate_4 (K8), Chancellor_8 (K4), Cheetobro_8 (K4), DanSyl44_8 (K4), Eponine_8 (K4), Fionnbharth_8 (K4), JF1_8 (K4), Juliette_8 (K4), Kraw_8 (K4), Lebo14_8 (K4), Malthus_8 (K4), MissDaisy_8 (K4), Mitti_8 (K4), Nolwazi_8 (K4), OmniCritical_8 (K4), Patt_8 (K4), Qhanda_8 (K4), Reptar3000_8 (K4), Ruthiejr_7 (K4), SamScheppers_6 (K4), Slarp_8 (K4), Taquito_6 (K4), Wintermute_8 (K4), Y10_08 (K4), Y2_08 (K4), YasnayaPolyana_8 (K4),

Start 56:
• Found in 134 of 360 (37.2%) of genes in pham
• Manual Annotations of this start: 24 of 331
• Called 18.7% of time when present
• Phage (with cluster) where this start called: Adonis_7 (K1), AlishaPH_7 (K1), Amelie_3 (K1), Amohnition_6 (K6), Anaya_8 (K1), Bern_7 (K1), CREW_7 (K1), CaseJules_7 (K1), CrimD_7 (K1), Jarvi_7 (K1), KiSi_6 (K1), LeMond_6 (K1), Lokum_7 (K1), Megsy_7 (K1), Oscar_6 (K1), Padfoot_7 (K1), Peanam_7 (K1), Peel_7 (K1), QuincyRose_6 (K1), Scarlett_6 (K1), Stinson_7 (K1), Twitch_7 (K1), Validus_7 (K1), Zabiza_7 (K1), Zavala_7 (K1),

Start 57:
• Found in 1 of 360 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 331
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Aminay_5 (K7),

Start 59:
• Found in 69 of 360 (19.2%) of genes in pham
• Manual Annotations of this start: 2 of 331
• Called 2.9% of time when present
• Phage (with cluster) where this start called: Ageofdapage_7 (K1), Atiba_7 (K1),

Start 60:
• Found in 13 of 360 (3.6%) of genes in pham
• Manual Annotations of this start: 11 of 331
• Called 84.6% of time when present
• Phage (with cluster) where this start called: BoostSeason_3 (K2), DismalFunk_3 (K2), DismalStressor_3 (K2), Doughnut_3 (K2), Findley_3 (K2), Marcoliusprime_3 (K2), Milly_3 (K2), Mufasa_3 (K2), Strobilo_3 (K2), TM4_3 (K2), ZoeJ_3 (K2),

Start 61:
• Found in 3 of 360 (0.8%) of genes in pham
• Manual Annotations of this start: 1 of 331

• Called 66.7% of time when present
• Phage (with cluster) where this start called: LastHope_7 (K1), TingHuaYa_7 (K1),

Start 62:
• Found in 159 of 360 (44.2%) of genes in pham
• Manual Annotations of this start: 118 of 331
• Called 78.6% of time when present
• Phage (with cluster) where this start called: ActinUp_7 (K1), Adephagia_7 (K1), Amgine_5 (K6), Angelica_7 (K1), Anma_7 (K1), Apocalypse_7 (K1), Applecrisp_5 (K6), Asayake_7 (K1), BEEST_7 (K1), BGlluviae_7 (K1), BaghaKamala_7 (K1), BarrelRoll_7 (K1), Beezoo_7 (K1), Bella96_7 (K1), Belladonna_7 (K1), Biglebops_3 (K1), Blizzard_7 (K1), Boiiii_7 (K1), Bryler_6 (K6), Cain_6 (K6), CallaLilly_7 (K1), Capricorn_7 (K1), Chavito_7 (K1), CheetoDust_7 (K1), Chris_6 (K1), Clipper_7 (K1), Dalmuri_7 (K1), DartGoblin_7 (K1), DarthP_6 (K6), Dartin_7 (K1), Deby_7 (K1), Devera_7 (K1), Dole_7 (K1), DrHayes_7 (K1), Durfee_7 (K1), Efra2_7 (K1), Ekdilam_4 (K6), Ellie_4 (K6), Emerson_7 (K1), Enkosi_3 (K1), Fefferhead_6 (K6), Ganymede_7 (K1), Geraldini_7 (K1), Guanica15_7 (K1), Hammy_6 (K6), HedwigODU_7 (K1), Homura_7 (K1), Hyperbowlee_7 (K1), Illumine_7 (K1), Inky_7 (K1), JAWS_7 (K1), Jayhawk_7 (K1), Jeckyll_7 (K1), Joy99_7 (K1), Keshu_6 (K3), Kheparia_8 (K1), Krueger_6 (K6), LaterM_7 (K1), Lavahound_5 (K6), Lea83_6 (K3), LilPharaoh_3 (K1), LindNT_7 (K1), Llorens_7 (K1), Lunahalos_7 (K1), MacKat_7 (K1), MacnCheese_7 (K3), MarkPhew_6 (K1), Marshawn_8 (K6), McMater_7 (K1), Mdavu_3 (K1), MeaningOfLife_7 (K1), Murucutumbu_7 (K1), Mynx_7 (K1), Nibb_6 (K1), Nikao_3 (K1), Niklas_7 (K1), November_5 (K6), Nutello_3 (K1), Padpat_7 (K1), Pharb_6 (K3), PhelpsODU_6 (K6), Phrank_6 (K6), Piatt_7 (K1), Pisa1_6 (K1), Pisa4_6 (K1), Pixie_6 (K3), Pokerus_6 (K1), Prithvi_7 (K1), Ramen_7 (K1), Rapunzel97_7 (K1), Richo_7 (K1), Rosmarinus_7 (K1), SamuelLPlaqson_7 (K1), SgtBeansprout_3 (K1), Shadow1_5 (K6), Shaobing_7 (K1), ShedlockHolmes_6 (K3), ShiaSurprise_7 (K1), SirPhilip_6 (K6), Slimphazie_7 (K1), Spock_7 (K1), Sulley_7 (K1), Sunflower1121_5 (K6), Syra333_6 (K6), TClif_6 (K6), Tachez_7 (K1), TaiwanKao_7 (K1), Teejan_3 (K1), Tierra_6 (K6), Tigress9_6 (K6), TiniBug_7 (K1), Tiri_7 (K1), Topper_7 (K1), Torres_3 (K1), TreyKay_7 (K1), TribleTrouble_5 (K3), Trice_3 (K1), TruffulaTree_7 (K1), Unicorn_6 (K6), Urkel_7 (K1), Veliki_7 (K1), Ximenita_7 (K6), YoureAdopted_6 (K1), Yuna_7 (K6), Yunkel11_7 (K1),

Start 63:
• Found in 3 of 360 (0.8%) of genes in pham
• Manual Annotations of this start: 1 of 331
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Curiosium_8 (K1),

Start 66:
• Found in 14 of 360 (3.9%) of genes in pham
• Manual Annotations of this start: 2 of 331
• Called 14.3% of time when present
• Phage (with cluster) where this start called: Collard_5 (K5), Omnicron_5 (K5),

Start 67:
• Found in 16 of 360 (4.4%) of genes in pham
• No Manual Annotations of this start.
• Called 6.2% of time when present
• Phage (with cluster) where this start called: DoubleChamp_5 (K5),

Start 69:
• Found in 22 of 360 (6.1%) of genes in pham
• Manual Annotations of this start: 18 of 331
• Called 86.4% of time when present
• Phage (with cluster) where this start called: Agent47_5 (K5), BananenDer11_5 (K5), Dadosky_5 (K5), Edugator_4 (K5), Feyre_5 (K5), Gengar_5 (K5), Guillsminger_5 (K5), Heftyboy_5 (K5), Leston_5 (K5), LilDirt_4 (K5), Miryou_5 (K5), Neighly_5 (K3), OkiRoe_5 (K5), Paola_5 (K5), Rando14_5 (K5), SoSeph_5 (K5), Thyatira_5 (K5), ViviJ_4 (K5), Waterfoul_5 (K5),

Summary by clusters:

There are 21 clusters represented in this pham: DH, G5, G4, G3, G, G1, CZ, CZ6, FB, O, K3, K2, K1, K7, K6, K5, K4, FQ2, singleton, K8, G2,

Info for manual annotations of cluster CZ:
•Start number 43 was manually annotated 1 time for cluster CZ.

Info for manual annotations of cluster CZ6:
•Start number 43 was manually annotated 3 times for cluster CZ6.

Info for manual annotations of cluster DH:
•Start number 38 was manually annotated 3 times for cluster DH.

Info for manual annotations of cluster FB:
•Start number 38 was manually annotated 3 times for cluster FB.

Info for manual annotations of cluster G:
•Start number 26 was manually annotated 1 time for cluster G.
•Start number 27 was manually annotated 1 time for cluster G.

Info for manual annotations of cluster G1:
•Start number 26 was manually annotated 48 times for cluster G1.
•Start number 27 was manually annotated 21 times for cluster G1.
•Start number 31 was manually annotated 1 time for cluster G1.

Info for manual annotations of cluster G2:
•Start number 31 was manually annotated 1 time for cluster G2.
•Start number 32 was manually annotated 3 times for cluster G2.

Info for manual annotations of cluster G3:
•Start number 32 was manually annotated 3 times for cluster G3.

Info for manual annotations of cluster G4:
•Start number 27 was manually annotated 1 time for cluster G4.
•Start number 33 was manually annotated 1 time for cluster G4.

Info for manual annotations of cluster G5:
•Start number 32 was manually annotated 3 times for cluster G5.

Info for manual annotations of cluster K1:
•Start number 56 was manually annotated 23 times for cluster K1.

•Start number 59 was manually annotated 2 times for cluster K1.
•Start number 61 was manually annotated 1 time for cluster K1.
•Start number 62 was manually annotated 86 times for cluster K1.
•Start number 63 was manually annotated 1 time for cluster K1.

Info for manual annotations of cluster K2:
•Start number 60 was manually annotated 11 times for cluster K2.

Info for manual annotations of cluster K3:
•Start number 52 was manually annotated 2 times for cluster K3.
•Start number 62 was manually annotated 7 times for cluster K3.

Info for manual annotations of cluster K4:
•Start number 54 was manually annotated 22 times for cluster K4.

Info for manual annotations of cluster K5:
•Start number 66 was manually annotated 2 times for cluster K5.
•Start number 69 was manually annotated 18 times for cluster K5.

Info for manual annotations of cluster K6:
•Start number 56 was manually annotated 1 time for cluster K6.
•Start number 62 was manually annotated 25 times for cluster K6.

Info for manual annotations of cluster K7:
•Start number 57 was manually annotated 1 time for cluster K7.

Info for manual annotations of cluster K8:
•Start number 54 was manually annotated 1 time for cluster K8.

Info for manual annotations of cluster O:
•Start number 50 was manually annotated 27 times for cluster O.
•Start number 52 was manually annotated 5 times for cluster O.

Gene Information:

Gene: ActinUp_7 Start: 1376, Stop: 1603, Start Num: 62
Candidate Starts for ActinUp_7:
(Start: 56 @1367 has 24 MA's), (Start: 59 @1373 has 2 MA's), (Start: 62 @1376 has 118 MA's), (74, 1409), (76, 1418), (81, 1442), (90, 1496),

Gene: Adephagia_7 Start: 1376, Stop: 1603, Start Num: 62
Candidate Starts for Adephagia_7:
(Start: 56 @1367 has 24 MA's), (Start: 59 @1373 has 2 MA's), (Start: 62 @1376 has 118 MA's), (74, 1409), (76, 1418), (81, 1442), (90, 1496),

Gene: Adonis_7 Start: 1384, Stop: 1620, Start Num: 56
Candidate Starts for Adonis_7:
(44, 1339), (Start: 56 @1384 has 24 MA's), (Start: 59 @1390 has 2 MA's), (Start: 62 @1393 has 118 MA's), (74, 1426), (76, 1435), (81, 1459), (90, 1513),

Gene: Agent47_5 Start: 1111, Stop: 1338, Start Num: 69

Candidate Starts for Agent47_5:
(24, 979), (34, 1009), (46, 1036), (Start: 66 @1102 has 2 MA's), (67, 1105), (Start: 69 @1111 has 18 MA's), (72, 1135), (76, 1153), (81, 1177), (90, 1231), (107, 1300), (112, 1315),

Gene: Ageofdapage_7 Start: 1322, Stop: 1552, Start Num: 59
Candidate Starts for Ageofdapage_7:
(44, 1271), (Start: 56 @1316 has 24 MA's), (Start: 59 @1322 has 2 MA's), (Start: 62 @1325 has 118 MA's), (74, 1358), (76, 1367), (81, 1391), (90, 1445),

Gene: AizenPogi_1 Start: 46, Stop: 387, Start Num: 27
Candidate Starts for AizenPogi_1:
(Start: 26 @43 has 49 MA's), (Start: 27 @46 has 23 MA's), (68, 148), (81, 217), (89, 268),

Gene: AlishaPH_7 Start: 1372, Stop: 1608, Start Num: 56
Candidate Starts for AlishaPH_7:
(44, 1327), (Start: 56 @1372 has 24 MA's), (Start: 59 @1378 has 2 MA's), (Start: 62 @1381 has 118 MA's), (74, 1414), (76, 1423), (81, 1447), (90, 1501),

Gene: Alkhayr_30 Start: 13181, Stop: 13480, Start Num: 50
Candidate Starts for Alkhayr_30:
(16, 13058), (Start: 50 @13181 has 27 MA's), (Start: 52 @13190 has 7 MA's), (84, 13331), (92, 13373),

Gene: Amelie_3 Start: 627, Stop: 863, Start Num: 56
Candidate Starts for Amelie_3:
(Start: 56 @627 has 24 MA's), (Start: 62 @636 has 118 MA's), (76, 678), (77, 684), (81, 702), (90, 756), (97, 783),

Gene: Amgine_5 Start: 970, Stop: 1197, Start Num: 62
Candidate Starts for Amgine_5:
(Start: 56 @961 has 24 MA's), (Start: 62 @970 has 118 MA's), (76, 1012), (81, 1036), (90, 1090), (98, 1123),

Gene: Aminay_5 Start: 1070, Stop: 1327, Start Num: 57
Candidate Starts for Aminay_5:
(Start: 57 @1070 has 1 MA's), (73, 1127), (74, 1130), (75, 1133), (76, 1139), (89, 1214),

Gene: Amohnition_6 Start: 1167, Stop: 1403, Start Num: 56
Candidate Starts for Amohnition_6:
(Start: 56 @1167 has 24 MA's), (Start: 62 @1176 has 118 MA's), (76, 1218), (81, 1242), (90, 1296), (101, 1341),

Gene: Anaya_8 Start: 1396, Stop: 1632, Start Num: 56
Candidate Starts for Anaya_8:
(41, 1345), (Start: 56 @1396 has 24 MA's), (Start: 62 @1405 has 118 MA's), (76, 1447), (81, 1471), (90, 1525),

Gene: Angel_1 Start: 43, Stop: 387, Start Num: 26
Candidate Starts for Angel_1:
(Start: 26 @43 has 49 MA's), (Start: 27 @46 has 23 MA's), (68, 148), (81, 217), (89, 268),

Gene: Angelica_7 Start: 1364, Stop: 1591, Start Num: 62
Candidate Starts for Angelica_7:

(41, 1304), (Start: 56 @1355 has 24 MA's), (Start: 62 @1364 has 118 MA's), (76, 1406), (81, 1430), (90, 1484),

Gene: Anma_7 Start: 1355, Stop: 1582, Start Num: 62
Candidate Starts for Anma_7:
(44, 1304), (Start: 56 @1346 has 24 MA's), (Start: 62 @1355 has 118 MA's), (76, 1397), (81, 1421), (90, 1475),

Gene: Annihilator_1 Start: 43, Stop: 387, Start Num: 26
Candidate Starts for Annihilator_1:
(Start: 26 @43 has 49 MA's), (Start: 27 @46 has 23 MA's), (68, 148), (81, 217), (89, 268),

Gene: Antsirabe_1 Start: 53, Stop: 382, Start Num: 32
Candidate Starts for Antsirabe_1:
(Start: 32 @53 has 9 MA's), (42, 80), (68, 146), (76, 191), (81, 215), (85, 245), (89, 266),

Gene: Apocalypse_7 Start: 1360, Stop: 1587, Start Num: 62
Candidate Starts for Apocalypse_7:
(44, 1306), (Start: 56 @1351 has 24 MA's), (Start: 59 @1357 has 2 MA's), (Start: 62 @1360 has 118 MA's), (74, 1393), (76, 1402), (81, 1426), (90, 1480),

Gene: Applecrisp_5 Start: 1329, Stop: 1556, Start Num: 62
Candidate Starts for Applecrisp_5:
(Start: 56 @1320 has 24 MA's), (Start: 62 @1329 has 118 MA's), (76, 1371), (81, 1395), (90, 1449), (98, 1482),

Gene: ArV2_01 Start: 36, Stop: 380, Start Num: 25
Candidate Starts for ArV2_01:
(18, 3), (19, 18), (25, 36), (36, 66), (Start: 38 @75 has 7 MA's), (51, 102), (55, 126), (Start: 62 @141 has 118 MA's), (64, 147), (74, 186), (76, 195), (79, 210), (81, 219), (89, 270),

Gene: Aroostook_1 Start: 43, Stop: 387, Start Num: 26
Candidate Starts for Aroostook_1:
(Start: 26 @43 has 49 MA's), (Start: 27 @46 has 23 MA's), (68, 148), (81, 217), (89, 268),

Gene: Asayake_7 Start: 1426, Stop: 1653, Start Num: 62
Candidate Starts for Asayake_7:
(44, 1372), (Start: 56 @1417 has 24 MA's), (Start: 59 @1423 has 2 MA's), (Start: 62 @1426 has 118 MA's), (74, 1459), (76, 1468), (81, 1492), (90, 1546),

Gene: Ashwin_31 Start: 13191, Stop: 13490, Start Num: 50
Candidate Starts for Ashwin_31:
(21, 13113), (Start: 50 @13191 has 27 MA's), (Start: 52 @13200 has 7 MA's), (84, 13341), (92, 13383),

Gene: Atiba_7 Start: 1342, Stop: 1572, Start Num: 59
Candidate Starts for Atiba_7:
(44, 1291), (Start: 56 @1336 has 24 MA's), (Start: 59 @1342 has 2 MA's), (Start: 62 @1345 has 118 MA's), (74, 1378), (76, 1387), (81, 1411), (90, 1465),

Gene: Avocado_1 Start: 54, Stop: 380, Start Num: 32
Candidate Starts for Avocado_1:
(Start: 32 @54 has 9 MA's), (68, 144), (73, 177), (76, 189), (88, 255), (91, 273), (92, 276), (94, 285),

Gene: Avrafan_1 Start: 43, Stop: 387, Start Num: 26
Candidate Starts for Avrafan_1:
(Start: 26 @43 has 49 MA's), (Start: 27 @46 has 23 MA's), (68, 148), (81, 217), (89, 268),

Gene: AzulaCat_1 Start: 43, Stop: 387, Start Num: 26
Candidate Starts for AzulaCat_1:
(Start: 26 @43 has 49 MA's), (Start: 27 @46 has 23 MA's), (68, 148), (81, 217), (89, 268),

Gene: BEEST_7 Start: 1426, Stop: 1653, Start Num: 62
Candidate Starts for BEEST_7:
(44, 1372), (Start: 56 @1417 has 24 MA's), (Start: 59 @1423 has 2 MA's), (Start: 62 @1426 has 118 MA's), (74, 1459), (76, 1468), (81, 1492), (90, 1546),

Gene: BGlluviae_7 Start: 1426, Stop: 1653, Start Num: 62
Candidate Starts for BGlluviae_7:
(44, 1372), (Start: 56 @1417 has 24 MA's), (Start: 59 @1423 has 2 MA's), (Start: 62 @1426 has 118 MA's), (74, 1459), (76, 1468), (81, 1492), (90, 1546),

Gene: BPs_1 Start: 43, Stop: 387, Start Num: 26
Candidate Starts for BPs_1:
(Start: 26 @43 has 49 MA's), (Start: 27 @46 has 23 MA's), (68, 148), (81, 217), (89, 268),

Gene: BQuat_1 Start: 43, Stop: 387, Start Num: 26
Candidate Starts for BQuat_1:
(Start: 26 @43 has 49 MA's), (Start: 27 @46 has 23 MA's), (68, 148), (81, 217), (89, 268),

Gene: BaghaKamala_7 Start: 1352, Stop: 1579, Start Num: 62
Candidate Starts for BaghaKamala_7:
(44, 1298), (Start: 56 @1343 has 24 MA's), (Start: 59 @1349 has 2 MA's), (Start: 62 @1352 has 118 MA's), (74, 1385), (81, 1418), (90, 1472),

Gene: BananenDer11_5 Start: 1104, Stop: 1331, Start Num: 69
Candidate Starts for BananenDer11_5:
(15, 921), (17, 933), (24, 972), (34, 1002), (Start: 66 @1095 has 2 MA's), (67, 1098), (Start: 69 @1104 has 18 MA's), (81, 1170), (87, 1209), (90, 1224),

Gene: Barkley26_1 Start: 43, Stop: 387, Start Num: 26
Candidate Starts for Barkley26_1:
(Start: 26 @43 has 49 MA's), (Start: 27 @46 has 23 MA's), (68, 148), (81, 217), (89, 268),

Gene: BarrelRoll_7 Start: 1376, Stop: 1603, Start Num: 62
Candidate Starts for BarrelRoll_7:
(44, 1322), (Start: 56 @1367 has 24 MA's), (Start: 59 @1373 has 2 MA's), (Start: 62 @1376 has 118 MA's), (74, 1409), (76, 1418), (81, 1442), (90, 1496),

Gene: Beezoo_7 Start: 1405, Stop: 1632, Start Num: 62
Candidate Starts for Beezoo_7:
(44, 1351), (Start: 56 @1396 has 24 MA's), (Start: 59 @1402 has 2 MA's), (Start: 62 @1405 has 118 MA's), (74, 1438), (76, 1447), (81, 1471), (90, 1525),

Gene: Bella96_7 Start: 1334, Stop: 1561, Start Num: 62
Candidate Starts for Bella96_7:

(44, 1283), (Start: 56 @1325 has 24 MA's), (Start: 62 @1334 has 118 MA's), (76, 1376), (81, 1400), (90, 1454),

Gene: Belladonna_7 Start: 1426, Stop: 1653, Start Num: 62
Candidate Starts for Belladonna_7:
(44, 1372), (Start: 56 @1417 has 24 MA's), (Start: 59 @1423 has 2 MA's), (Start: 62 @1426 has 118 MA's), (74, 1459), (76, 1468), (81, 1492), (90, 1546),

Gene: Bern_7 Start: 1363, Stop: 1599, Start Num: 56
Candidate Starts for Bern_7:
(Start: 56 @1363 has 24 MA's), (Start: 62 @1372 has 118 MA's), (72, 1396), (76, 1414), (81, 1438), (90, 1492),

Gene: Biglebops_3 Start: 636, Stop: 863, Start Num: 62
Candidate Starts for Biglebops_3:
(Start: 56 @627 has 24 MA's), (Start: 62 @636 has 118 MA's), (76, 678), (77, 684), (81, 702), (90, 756), (97, 783),

Gene: Blessica_30 Start: 13214, Stop: 13513, Start Num: 50
Candidate Starts for Blessica_30:
(16, 13091), (Start: 50 @13214 has 27 MA's), (Start: 52 @13223 has 7 MA's), (84, 13364), (92, 13406),

Gene: Blizzard_7 Start: 1426, Stop: 1653, Start Num: 62
Candidate Starts for Blizzard_7:
(44, 1372), (Start: 56 @1417 has 24 MA's), (Start: 59 @1423 has 2 MA's), (Start: 62 @1426 has 118 MA's), (74, 1459), (76, 1468), (81, 1492), (90, 1546),

Gene: Bobquesha_8 Start: 2153, Stop: 2425, Start Num: 54
Candidate Starts for Bobquesha_8:
(Start: 26 @2066 has 49 MA's), (35, 2090), (Start: 54 @2153 has 23 MA's), (73, 2222), (74, 2225), (75, 2228), (78, 2246), (85, 2288), (104, 2372),

Gene: Boiiii_7 Start: 1426, Stop: 1653, Start Num: 62
Candidate Starts for Boiiii_7:
(44, 1372), (Start: 56 @1417 has 24 MA's), (Start: 59 @1423 has 2 MA's), (Start: 62 @1426 has 118 MA's), (74, 1459), (76, 1468), (81, 1492), (90, 1546),

Gene: Boilgate_4 Start: 1309, Stop: 1578, Start Num: 54
Candidate Starts for Boilgate_4:
(Start: 54 @1309 has 23 MA's), (Start: 60 @1327 has 11 MA's), (67, 1339), (73, 1375), (74, 1378), (75, 1381), (76, 1387), (85, 1441),

Gene: BoostSeason_3 Start: 426, Stop: 674, Start Num: 60
Candidate Starts for BoostSeason_3:
(Start: 54 @408 has 23 MA's), (Start: 60 @426 has 11 MA's), (76, 489), (78, 501), (81, 513), (90, 567),

Gene: Bora_27 Start: 12644, Stop: 12943, Start Num: 50
Candidate Starts for Bora_27:
(21, 12566), (Start: 50 @12644 has 27 MA's), (Start: 52 @12653 has 7 MA's), (84, 12794), (92, 12836),

Gene: BruceB_1 Start: 43, Stop: 387, Start Num: 26
Candidate Starts for BruceB_1:
(Start: 26 @43 has 49 MA's), (Start: 27 @46 has 23 MA's), (68, 148), (81, 217), (89, 268),

Gene: Bryler_6 Start: 1277, Stop: 1525, Start Num: 62
Candidate Starts for Bryler_6:
(Start: 52 @1247 has 7 MA's), (Start: 62 @1277 has 118 MA's), (76, 1340), (78, 1352), (90, 1418),

Gene: CLED96_1 Start: 43, Stop: 387, Start Num: 26
Candidate Starts for CLED96_1:
(Start: 26 @43 has 49 MA's), (Start: 27 @46 has 23 MA's), (68, 148), (81, 217), (89, 268),

Gene: CREW_7 Start: 1417, Stop: 1653, Start Num: 56
Candidate Starts for CREW_7:
(44, 1372), (Start: 56 @1417 has 24 MA's), (Start: 59 @1423 has 2 MA's), (Start: 62 @1426 has 118 MA's), (74, 1459), (76, 1468), (81, 1492), (90, 1546),

Gene: Cain_6 Start: 1277, Stop: 1525, Start Num: 62
Candidate Starts for Cain_6:
(Start: 52 @1247 has 7 MA's), (Start: 62 @1277 has 118 MA's), (76, 1340), (78, 1352), (90, 1418),

Gene: CallaLilly_7 Start: 1352, Stop: 1579, Start Num: 62
Candidate Starts for CallaLilly_7:
(44, 1298), (Start: 56 @1343 has 24 MA's), (Start: 59 @1349 has 2 MA's), (Start: 62 @1352 has 118 MA's), (74, 1385), (76, 1394), (81, 1418), (90, 1472),

Gene: Cambiare_2 Start: 534, Stop: 869, Start Num: 31
Candidate Starts for Cambiare_2:
(10, 384), (Start: 27 @525 has 23 MA's), (Start: 31 @534 has 2 MA's), (37, 555), (42, 564), (68, 633), (71, 651), (73, 666), (90, 756), (94, 774), (97, 783),

Gene: Camri_1 Start: 43, Stop: 387, Start Num: 26
Candidate Starts for Camri_1:
(Start: 26 @43 has 49 MA's), (Start: 27 @46 has 23 MA's), (68, 148), (81, 217), (89, 268),

Gene: Capricorn_7 Start: 1426, Stop: 1653, Start Num: 62
Candidate Starts for Capricorn_7:
(44, 1372), (Start: 56 @1417 has 24 MA's), (Start: 59 @1423 has 2 MA's), (Start: 62 @1426 has 118 MA's), (74, 1459), (76, 1468), (81, 1492), (90, 1546),

Gene: CaseJules_7 Start: 1417, Stop: 1653, Start Num: 56
Candidate Starts for CaseJules_7:
(44, 1372), (Start: 56 @1417 has 24 MA's), (Start: 59 @1423 has 2 MA's), (Start: 62 @1426 has 118 MA's), (74, 1459), (76, 1468), (81, 1492), (90, 1546),

Gene: CassieYates_1 Start: 43, Stop: 387, Start Num: 26
Candidate Starts for CassieYates_1:
(Start: 26 @43 has 49 MA's), (Start: 27 @46 has 23 MA's), (68, 148), (81, 217), (89, 268),

Gene: Catdawg_29 Start: 12829, Stop: 13119, Start Num: 52
Candidate Starts for Catdawg_29:
(16, 12697), (Start: 50 @12820 has 27 MA's), (Start: 52 @12829 has 7 MA's), (84, 12970), (92, 13012),

Gene: Cedasite_1 Start: 43, Stop: 387, Start Num: 26
Candidate Starts for Cedasite_1:
(Start: 26 @43 has 49 MA's), (Start: 27 @46 has 23 MA's), (68, 148), (81, 217), (89, 268),

Gene: Chance64_1 Start: 43, Stop: 387, Start Num: 26
Candidate Starts for Chance64_1:
(Start: 26 @43 has 49 MA's), (Start: 27 @46 has 23 MA's), (68, 148), (81, 217), (89, 268),

Gene: Chancellor_8 Start: 2234, Stop: 2506, Start Num: 54
Candidate Starts for Chancellor_8:
(Start: 26 @2147 has 49 MA's), (35, 2171), (Start: 54 @2234 has 23 MA's), (73, 2303), (74, 2306), (78, 2327), (85, 2369), (104, 2453),

Gene: Chavito_7 Start: 1450, Stop: 1677, Start Num: 62
Candidate Starts for Chavito_7:
(Start: 56 @1441 has 24 MA's), (Start: 62 @1450 has 118 MA's), (76, 1492), (81, 1516), (90, 1570),

Gene: CheetoDust_7 Start: 1402, Stop: 1629, Start Num: 62
Candidate Starts for CheetoDust_7:
(44, 1348), (Start: 56 @1393 has 24 MA's), (Start: 59 @1399 has 2 MA's), (Start: 62 @1402 has 118 MA's), (74, 1435), (76, 1444), (81, 1468), (90, 1522),

Gene: Cheetobro_8 Start: 2234, Stop: 2506, Start Num: 54
Candidate Starts for Cheetobro_8:
(Start: 26 @2147 has 49 MA's), (35, 2171), (Start: 54 @2234 has 23 MA's), (73, 2303), (74, 2306), (78, 2327), (85, 2369), (104, 2453),

Gene: Cherrybomb426_1 Start: 46, Stop: 387, Start Num: 27
Candidate Starts for Cherrybomb426_1:
(Start: 26 @43 has 49 MA's), (Start: 27 @46 has 23 MA's), (68, 148), (81, 217), (89, 268),

Gene: Chris_6 Start: 1317, Stop: 1541, Start Num: 62
Candidate Starts for Chris_6:
(Start: 56 @1308 has 24 MA's), (Start: 62 @1317 has 118 MA's), (81, 1380), (90, 1434),

Gene: Clipper_7 Start: 1402, Stop: 1629, Start Num: 62
Candidate Starts for Clipper_7:
(44, 1348), (Start: 56 @1393 has 24 MA's), (Start: 59 @1399 has 2 MA's), (Start: 62 @1402 has 118 MA's), (74, 1435), (76, 1444), (81, 1468), (90, 1522),

Gene: Cloudyecho_1 Start: 52, Stop: 381, Start Num: 32
Candidate Starts for Cloudyecho_1:
(28, 49), (Start: 32 @52 has 9 MA's), (42, 79), (68, 145), (73, 178), (76, 190), (88, 256), (91, 274), (93, 280), (97, 295), (109, 337),

Gene: Coleslaw_1 Start: 43, Stop: 387, Start Num: 26
Candidate Starts for Coleslaw_1:
(Start: 26 @43 has 49 MA's), (Start: 27 @46 has 23 MA's), (68, 148), (81, 217), (89, 268),

Gene: Collard_5 Start: 1095, Stop: 1331, Start Num: 66
Candidate Starts for Collard_5:
(15, 921), (17, 933), (24, 972), (34, 1002), (Start: 66 @1095 has 2 MA's), (67, 1098), (Start: 69 @1104 has 18 MA's), (81, 1170), (87, 1209), (90, 1224),

Gene: Corndog_31 Start: 13270, Stop: 13569, Start Num: 50
Candidate Starts for Corndog_31:

(21, 13192), (Start: 50 @13270 has 27 MA's), (Start: 52 @13279 has 7 MA's), (84, 13420), (92, 13462),

Gene: Crespo_1 Start: 44, Stop: 388, Start Num: 26
Candidate Starts for Crespo_1:
(Start: 26 @44 has 49 MA's), (Start: 27 @47 has 23 MA's), (68, 149), (81, 218), (89, 269),

Gene: CrimD_7 Start: 1342, Stop: 1578, Start Num: 56
Candidate Starts for CrimD_7:
(Start: 56 @1342 has 24 MA's), (Start: 62 @1351 has 118 MA's), (76, 1393), (81, 1417), (90, 1471),

Gene: Curiosium_8 Start: 1733, Stop: 1978, Start Num: 63
Candidate Starts for Curiosium_8:
(58, 1724), (Start: 61 @1730 has 1 MA's), (Start: 63 @1733 has 1 MA's), (76, 1793), (80, 1814), (89, 1868), (90, 1871), (105, 1931),

Gene: DMoney_1 Start: 46, Stop: 387, Start Num: 27
Candidate Starts for DMoney_1:
(Start: 26 @43 has 49 MA's), (Start: 27 @46 has 23 MA's), (68, 148), (81, 217), (89, 268),

Gene: DNAIII_001 Start: 52, Stop: 396, Start Num: 26
Candidate Starts for DNAIII_001:
(Start: 26 @52 has 49 MA's), (Start: 27 @55 has 23 MA's), (68, 157), (81, 226), (89, 277),

Gene: Dadosky_5 Start: 1129, Stop: 1356, Start Num: 69
Candidate Starts for Dadosky_5:
(24, 997), (34, 1027), (46, 1054), (Start: 66 @1120 has 2 MA's), (67, 1123), (Start: 69 @1129 has 18 MA's), (72, 1153), (76, 1171), (81, 1195), (85, 1225), (90, 1249), (107, 1318), (112, 1333),

Gene: Dalmuri_7 Start: 1426, Stop: 1653, Start Num: 62
Candidate Starts for Dalmuri_7:
(44, 1372), (Start: 56 @1417 has 24 MA's), (Start: 59 @1423 has 2 MA's), (Start: 62 @1426 has 118 MA's), (74, 1459), (76, 1468), (81, 1492), (90, 1546),

Gene: DanSyl44_8 Start: 2234, Stop: 2506, Start Num: 54
Candidate Starts for DanSyl44_8:
(Start: 26 @2147 has 49 MA's), (35, 2171), (Start: 54 @2234 has 23 MA's), (73, 2303), (74, 2306), (78, 2327), (85, 2369), (104, 2453),

Gene: Darionha_1 Start: 46, Stop: 387, Start Num: 27
Candidate Starts for Darionha_1:
(Start: 26 @43 has 49 MA's), (Start: 27 @46 has 23 MA's), (68, 148), (81, 217), (89, 268),

Gene: DartGoblin_7 Start: 1334, Stop: 1561, Start Num: 62
Candidate Starts for DartGoblin_7:
(44, 1283), (Start: 56 @1325 has 24 MA's), (Start: 62 @1334 has 118 MA's), (76, 1376), (81, 1400), (90, 1454),

Gene: DarthP_6 Start: 1176, Stop: 1403, Start Num: 62
Candidate Starts for DarthP_6:
(Start: 56 @1167 has 24 MA's), (Start: 62 @1176 has 118 MA's), (76, 1218), (81, 1242), (90, 1296), (101, 1341),

Gene: Dartin_7 Start: 1449, Stop: 1676, Start Num: 62

Candidate Starts for Dartin_7:
(Start: 56 @1440 has 24 MA's), (Start: 62 @1449 has 118 MA's), (76, 1491), (81, 1515), (90, 1569),

Gene: Deby_7 Start: 1364, Stop: 1591, Start Num: 62
Candidate Starts for Deby_7:
(41, 1304), (Start: 56 @1355 has 24 MA's), (Start: 62 @1364 has 118 MA's), (76, 1406), (81, 1430), (90, 1484),

Gene: Devera_7 Start: 1393, Stop: 1620, Start Num: 62
Candidate Starts for Devera_7:
(44, 1339), (Start: 56 @1384 has 24 MA's), (Start: 59 @1390 has 2 MA's), (Start: 62 @1393 has 118 MA's), (74, 1426), (76, 1435), (81, 1459), (90, 1513),

Gene: DingDing_1 Start: 43, Stop: 387, Start Num: 26
Candidate Starts for DingDing_1:
(Start: 26 @43 has 49 MA's), (Start: 27 @46 has 23 MA's), (68, 148), (81, 217), (89, 268),

Gene: DismalFunk_3 Start: 426, Stop: 674, Start Num: 60
Candidate Starts for DismalFunk_3:
(Start: 54 @408 has 23 MA's), (Start: 60 @426 has 11 MA's), (76, 489), (78, 501), (90, 567),

Gene: DismalStressor_3 Start: 426, Stop: 674, Start Num: 60
Candidate Starts for DismalStressor_3:
(Start: 54 @408 has 23 MA's), (Start: 60 @426 has 11 MA's), (76, 489), (78, 501), (90, 567),

Gene: Dole_7 Start: 1393, Stop: 1620, Start Num: 62
Candidate Starts for Dole_7:
(44, 1339), (Start: 56 @1384 has 24 MA's), (Start: 59 @1390 has 2 MA's), (Start: 62 @1393 has 118 MA's), (74, 1426), (76, 1435), (81, 1459), (90, 1513),

Gene: DoubleChamp_5 Start: 1098, Stop: 1331, Start Num: 67
Candidate Starts for DoubleChamp_5:
(15, 921), (17, 933), (24, 972), (34, 1002), (Start: 66 @1095 has 2 MA's), (67, 1098), (Start: 69 @1104 has 18 MA's), (81, 1170), (87, 1209), (90, 1224),

Gene: Doughnut_3 Start: 426, Stop: 674, Start Num: 60
Candidate Starts for Doughnut_3:
(Start: 54 @408 has 23 MA's), (Start: 60 @426 has 11 MA's), (76, 489), (78, 501), (81, 513), (90, 567),

Gene: DrHayes_7 Start: 1355, Stop: 1582, Start Num: 62
Candidate Starts for DrHayes_7:
(44, 1304), (Start: 56 @1346 has 24 MA's), (Start: 62 @1355 has 118 MA's), (76, 1397), (81, 1421), (90, 1475),

Gene: Durfee_7 Start: 1426, Stop: 1653, Start Num: 62
Candidate Starts for Durfee_7:
(44, 1372), (Start: 56 @1417 has 24 MA's), (Start: 59 @1423 has 2 MA's), (Start: 62 @1426 has 118 MA's), (74, 1459), (76, 1468), (81, 1492), (90, 1546),

Gene: Dylan_29 Start: 12996, Stop: 13295, Start Num: 50
Candidate Starts for Dylan_29:
(21, 12918), (Start: 50 @12996 has 27 MA's), (Start: 52 @13005 has 7 MA's), (84, 13146), (92, 13188),

Gene: ECartman_1 Start: 43, Stop: 387, Start Num: 26
Candidate Starts for ECartman_1:
(Start: 26 @43 has 49 MA's), (Start: 27 @46 has 23 MA's), (68, 148), (81, 217), (89, 268),

Gene: Edugator_4 Start: 1129, Stop: 1356, Start Num: 69
Candidate Starts for Edugator_4:
(24, 997), (34, 1027), (46, 1054), (Start: 66 @1120 has 2 MA's), (67, 1123), (Start: 69 @1129 has 18 MA's), (72, 1153), (76, 1171), (81, 1195), (85, 1225), (90, 1249), (107, 1318), (112, 1333),

Gene: Efra2_7 Start: 1360, Stop: 1587, Start Num: 62
Candidate Starts for Efra2_7:
(41, 1297), (Start: 56 @1351 has 24 MA's), (Start: 62 @1360 has 118 MA's), (81, 1426), (90, 1480), (98, 1513),

Gene: Ekdilam_4 Start: 911, Stop: 1138, Start Num: 62
Candidate Starts for Ekdilam_4:
(20, 785), (44, 860), (Start: 56 @902 has 24 MA's), (Start: 62 @911 has 118 MA's), (76, 953), (81, 977), (90, 1031), (101, 1076),

Gene: Ellie_4 Start: 1002, Stop: 1229, Start Num: 62
Candidate Starts for Ellie_4:
(Start: 56 @993 has 24 MA's), (Start: 62 @1002 has 118 MA's), (76, 1044), (81, 1068), (90, 1122), (98, 1155),

Gene: Emerson_7 Start: 1382, Stop: 1609, Start Num: 62
Candidate Starts for Emerson_7:
(44, 1328), (Start: 56 @1373 has 24 MA's), (Start: 59 @1379 has 2 MA's), (Start: 62 @1382 has 118 MA's), (74, 1415), (76, 1424), (81, 1448), (90, 1502),

Gene: Enkosi_3 Start: 636, Stop: 863, Start Num: 62
Candidate Starts for Enkosi_3:
(Start: 56 @627 has 24 MA's), (Start: 62 @636 has 118 MA's), (76, 678), (77, 684), (81, 702), (90, 756), (97, 783),

Gene: Eponine_8 Start: 2229, Stop: 2498, Start Num: 54
Candidate Starts for Eponine_8:
(Start: 54 @2229 has 23 MA's), (73, 2295), (74, 2298), (104, 2445),

Gene: Faith5x5_1 Start: 103, Stop: 465, Start Num: 43
Candidate Starts for Faith5x5_1:
(39, 97), (Start: 43 @103 has 4 MA's), (48, 115), (74, 214), (76, 223), (78, 235), (81, 247), (85, 277), (106, 364), (108, 373), (111, 385), (113, 394), (115, 430),

Gene: Familton_30 Start: 12824, Stop: 13123, Start Num: 50
Candidate Starts for Familton_30:
(Start: 50 @12824 has 27 MA's), (Start: 52 @12833 has 7 MA's), (84, 12974), (92, 13016),

Gene: Fefferhead_6 Start: 1172, Stop: 1399, Start Num: 62
Candidate Starts for Fefferhead_6:
(Start: 56 @1163 has 24 MA's), (Start: 62 @1172 has 118 MA's), (76, 1214), (81, 1238), (90, 1292), (98, 1325),

Gene: Feyre_5 Start: 1105, Stop: 1332, Start Num: 69

Candidate Starts for Feyre_5:
(15, 922), (17, 934), (24, 973), (34, 1003), (Start: 66 @1096 has 2 MA's), (67, 1099), (Start: 69 @1105 has 18 MA's), (81, 1171), (87, 1210), (90, 1225),

Gene: Findley_3 Start: 426, Stop: 674, Start Num: 60
Candidate Starts for Findley_3:
(Start: 60 @426 has 11 MA's), (76, 489), (78, 501), (90, 567),

Gene: Fionnbharth_8 Start: 2221, Stop: 2493, Start Num: 54
Candidate Starts for Fionnbharth_8:
(Start: 26 @2134 has 49 MA's), (35, 2158), (Start: 54 @2221 has 23 MA's), (73, 2290), (74, 2293), (78, 2314), (85, 2356), (104, 2440),

Gene: Firecracker_30 Start: 12894, Stop: 13193, Start Num: 50
Candidate Starts for Firecracker_30:
(21, 12816), (Start: 50 @12894 has 27 MA's), (Start: 52 @12903 has 7 MA's), (84, 13044), (92, 13086),

Gene: FlagStaff_1 Start: 52, Stop: 387, Start Num: 32
Candidate Starts for FlagStaff_1:
(Start: 32 @52 has 9 MA's), (42, 79), (81, 214), (85, 244),

Gene: ForeverHowLong_1 Start: 46, Stop: 387, Start Num: 27
Candidate Starts for ForeverHowLong_1:
(Start: 26 @43 has 49 MA's), (Start: 27 @46 has 23 MA's), (68, 148), (81, 217), (89, 268),

Gene: FoulBall_29 Start: 12818, Stop: 13117, Start Num: 50
Candidate Starts for FoulBall_29:
(Start: 50 @12818 has 27 MA's), (Start: 52 @12827 has 7 MA's), (84, 12968), (92, 13010),

Gene: Frosty24_1 Start: 43, Stop: 387, Start Num: 26
Candidate Starts for Frosty24_1:
(Start: 26 @43 has 49 MA's), (Start: 27 @46 has 23 MA's), (68, 148), (81, 217), (89, 268),

Gene: Ganymede_7 Start: 1402, Stop: 1629, Start Num: 62
Candidate Starts for Ganymede_7:
(44, 1348), (Start: 56 @1393 has 24 MA's), (Start: 59 @1399 has 2 MA's), (Start: 62 @1402 has 118 MA's), (74, 1435), (76, 1444), (81, 1468), (90, 1522),

Gene: Gengar_5 Start: 1131, Stop: 1358, Start Num: 69
Candidate Starts for Gengar_5:
(Start: 69 @1131 has 18 MA's), (73, 1161), (76, 1173), (81, 1197), (90, 1251),

Gene: Geraldini_7 Start: 1405, Stop: 1632, Start Num: 62
Candidate Starts for Geraldini_7:
(44, 1351), (Start: 56 @1396 has 24 MA's), (Start: 59 @1402 has 2 MA's), (Start: 62 @1405 has 118 MA's), (74, 1438), (76, 1447), (81, 1471), (90, 1525),

Gene: Gideon_1 Start: 43, Stop: 387, Start Num: 26
Candidate Starts for Gideon_1:
(Start: 26 @43 has 49 MA's), (Start: 27 @46 has 23 MA's), (68, 148), (81, 217), (89, 268),

Gene: GodSpeed_1 Start: 52, Stop: 387, Start Num: 32
Candidate Starts for GodSpeed_1:

(Start: 32 @52 has 9 MA's), (42, 79), (81, 214), (85, 244),

Gene: GoldenAsh_1 Start: 46, Stop: 387, Start Num: 27
Candidate Starts for GoldenAsh_1:
(Start: 26 @43 has 49 MA's), (Start: 27 @46 has 23 MA's), (68, 148), (81, 217), (89, 268),

Gene: Gomashi_1 Start: 44, Stop: 388, Start Num: 26
Candidate Starts for Gomashi_1:
(Start: 26 @44 has 49 MA's), (Start: 27 @47 has 23 MA's), (68, 149), (81, 218), (89, 269),

Gene: Grizzly_1 Start: 46, Stop: 387, Start Num: 27
Candidate Starts for Grizzly_1:
(Start: 26 @43 has 49 MA's), (Start: 27 @46 has 23 MA's), (68, 148), (81, 217), (89, 268),

Gene: Guanica15_7 Start: 1376, Stop: 1603, Start Num: 62
Candidate Starts for Guanica15_7:
(41, 1313), (Start: 56 @1367 has 24 MA's), (Start: 62 @1376 has 118 MA's), (81, 1442), (90, 1496),

Gene: Guillsminger_5 Start: 1106, Stop: 1333, Start Num: 69
Candidate Starts for Guillsminger_5:
(Start: 69 @1106 has 18 MA's), (73, 1136), (76, 1148), (81, 1172), (90, 1226),

Gene: Halo_1 Start: 43, Stop: 387, Start Num: 26
Candidate Starts for Halo_1:
(Start: 26 @43 has 49 MA's), (Start: 27 @46 has 23 MA's), (68, 148), (81, 217), (89, 268),

Gene: Hammy_6 Start: 1173, Stop: 1400, Start Num: 62
Candidate Starts for Hammy_6:
(Start: 56 @1164 has 24 MA's), (Start: 62 @1173 has 118 MA's), (76, 1215), (81, 1239), (90, 1293), (101, 1338),

Gene: HedwigODU_7 Start: 1376, Stop: 1603, Start Num: 62
Candidate Starts for HedwigODU_7:
(Start: 56 @1367 has 24 MA's), (Start: 59 @1373 has 2 MA's), (Start: 62 @1376 has 118 MA's), (74, 1409), (76, 1418), (81, 1442), (90, 1496),

Gene: Heftyboy_5 Start: 1127, Stop: 1354, Start Num: 69
Candidate Starts for Heftyboy_5:
(Start: 69 @1127 has 18 MA's), (73, 1157), (76, 1169), (81, 1193), (90, 1247),

Gene: Homura_7 Start: 1426, Stop: 1653, Start Num: 62
Candidate Starts for Homura_7:
(44, 1372), (Start: 56 @1417 has 24 MA's), (Start: 59 @1423 has 2 MA's), (Start: 62 @1426 has 118 MA's), (74, 1459), (76, 1468), (81, 1492), (90, 1546),

Gene: Hope_1 Start: 43, Stop: 387, Start Num: 26
Candidate Starts for Hope_1:
(Start: 26 @43 has 49 MA's), (Start: 27 @46 has 23 MA's), (68, 148), (81, 217), (89, 268),

Gene: Hotshotbaby7_1 Start: 46, Stop: 387, Start Num: 27
Candidate Starts for Hotshotbaby7_1:
(Start: 26 @43 has 49 MA's), (Start: 27 @46 has 23 MA's), (68, 148), (81, 217), (89, 268),

Gene: Hurricane_6 Start: 1250, Stop: 1510, Start Num: 52
Candidate Starts for Hurricane_6:
(Start: 52 @1250 has 7 MA's), (Start: 62 @1280 has 118 MA's), (75, 1319), (76, 1325), (81, 1349), (90, 1403), (96, 1427),

Gene: Hyperbowlee_7 Start: 1426, Stop: 1653, Start Num: 62
Candidate Starts for Hyperbowlee_7:
(44, 1372), (Start: 56 @1417 has 24 MA's), (Start: 59 @1423 has 2 MA's), (Start: 62 @1426 has 118 MA's), (74, 1459), (76, 1468), (81, 1492), (90, 1546),

Gene: Idergollasper_29 Start: 12818, Stop: 13117, Start Num: 50
Candidate Starts for Idergollasper_29:
(Start: 50 @12818 has 27 MA's), (Start: 52 @12827 has 7 MA's), (84, 12968), (92, 13010),

Gene: Illumine_7 Start: 1393, Stop: 1620, Start Num: 62
Candidate Starts for Illumine_7:
(44, 1339), (Start: 56 @1384 has 24 MA's), (Start: 59 @1390 has 2 MA's), (Start: 62 @1393 has 118 MA's), (74, 1426), (76, 1435), (81, 1459), (90, 1513),

Gene: Imara_30 Start: 13067, Stop: 13366, Start Num: 50
Candidate Starts for Imara_30:
(16, 12944), (Start: 50 @13067 has 27 MA's), (Start: 52 @13076 has 7 MA's), (84, 13217), (92, 13259),

Gene: InLimbo_1 Start: 44, Stop: 346, Start Num: 38
Candidate Starts for InLimbo_1:
(Start: 38 @44 has 7 MA's), (Start: 62 @110 has 118 MA's), (74, 155), (76, 164), (78, 176), (90, 242), (104, 299),

Gene: Inky_7 Start: 1426, Stop: 1653, Start Num: 62
Candidate Starts for Inky_7:
(44, 1372), (Start: 56 @1417 has 24 MA's), (Start: 59 @1423 has 2 MA's), (Start: 62 @1426 has 118 MA's), (74, 1459), (76, 1468), (81, 1492), (90, 1546),

Gene: JAWS_7 Start: 1376, Stop: 1603, Start Num: 62
Candidate Starts for JAWS_7:
(44, 1322), (Start: 56 @1367 has 24 MA's), (Start: 59 @1373 has 2 MA's), (Start: 62 @1376 has 118 MA's), (74, 1409), (76, 1418), (81, 1442), (90, 1496),

Gene: JF1_8 Start: 2221, Stop: 2493, Start Num: 54
Candidate Starts for JF1_8:
(Start: 26 @2134 has 49 MA's), (35, 2158), (Start: 54 @2221 has 23 MA's), (73, 2290), (74, 2293), (78, 2314), (85, 2356), (104, 2440),

Gene: Jane_1 Start: 43, Stop: 387, Start Num: 26
Candidate Starts for Jane_1:
(Start: 26 @43 has 49 MA's), (Start: 27 @46 has 23 MA's), (68, 148), (81, 217), (89, 268),

Gene: JangDynasty_29 Start: 12913, Stop: 13212, Start Num: 50
Candidate Starts for JangDynasty_29:
(Start: 50 @12913 has 27 MA's), (Start: 52 @12922 has 7 MA's), (84, 13063), (92, 13105),

Gene: Jarvi_7 Start: 1417, Stop: 1653, Start Num: 56
Candidate Starts for Jarvi_7:

(44, 1372), (Start: 56 @1417 has 24 MA's), (Start: 59 @1423 has 2 MA's), (Start: 62 @1426 has 118 MA's), (74, 1459), (76, 1468), (81, 1492), (90, 1546),

Gene: Jayhawk_7 Start: 1376, Stop: 1603, Start Num: 62
Candidate Starts for Jayhawk_7:
(Start: 56 @1367 has 24 MA's), (Start: 59 @1373 has 2 MA's), (Start: 62 @1376 has 118 MA's), (74, 1409), (76, 1418), (81, 1442), (90, 1496),

Gene: Jeckyll_7 Start: 1426, Stop: 1653, Start Num: 62
Candidate Starts for Jeckyll_7:
(44, 1372), (Start: 56 @1417 has 24 MA's), (Start: 59 @1423 has 2 MA's), (Start: 62 @1426 has 118 MA's), (74, 1459), (76, 1468), (81, 1492), (90, 1546),

Gene: Jeilious_1 Start: 42, Stop: 386, Start Num: 26
Candidate Starts for Jeilious_1:
(Start: 26 @42 has 49 MA's), (Start: 27 @45 has 23 MA's), (68, 147), (81, 216), (89, 267),

Gene: Jolene_1 Start: 43, Stop: 387, Start Num: 26
Candidate Starts for Jolene_1:
(Start: 26 @43 has 49 MA's), (Start: 27 @46 has 23 MA's), (68, 148), (81, 217), (89, 268),

Gene: Jolie2_1 Start: 45, Stop: 404, Start Num: 27
Candidate Starts for Jolie2_1:
(Start: 27 @45 has 23 MA's), (87, 264), (91, 285), (110, 363),

Gene: Jonghyun_1 Start: 43, Stop: 387, Start Num: 26
Candidate Starts for Jonghyun_1:
(Start: 26 @43 has 49 MA's), (Start: 27 @46 has 23 MA's), (68, 148), (81, 217), (89, 268),

Gene: JorRay_1 Start: 43, Stop: 387, Start Num: 26
Candidate Starts for JorRay_1:
(Start: 26 @43 has 49 MA's), (Start: 27 @46 has 23 MA's), (68, 148), (81, 217), (89, 268),

Gene: Joy99_7 Start: 1352, Stop: 1579, Start Num: 62
Candidate Starts for Joy99_7:
(Start: 56 @1343 has 24 MA's), (Start: 59 @1349 has 2 MA's), (Start: 62 @1352 has 118 MA's), (74, 1385), (81, 1418), (90, 1472),

Gene: Juliette_8 Start: 2229, Stop: 2498, Start Num: 54
Candidate Starts for Juliette_8:
(Start: 54 @2229 has 23 MA's), (73, 2295), (74, 2298), (104, 2445),

Gene: Kareem_1 Start: 43, Stop: 387, Start Num: 26
Candidate Starts for Kareem_1:
(Start: 26 @43 has 49 MA's), (Start: 27 @46 has 23 MA's), (68, 148), (81, 217), (89, 268),

Gene: Kasen3_1 Start: 46, Stop: 387, Start Num: 27
Candidate Starts for Kasen3_1:
(Start: 26 @43 has 49 MA's), (Start: 27 @46 has 23 MA's), (68, 148), (81, 217), (89, 268),

Gene: Keshu_6 Start: 1259, Stop: 1489, Start Num: 62
Candidate Starts for Keshu_6:

(Start: 52 @1229 has 7 MA's), (Start: 62 @1259 has 118 MA's), (73, 1292), (75, 1298), (76, 1304), (81, 1328), (90, 1382), (96, 1406),

Gene: Kheparia_8 Start: 1372, Stop: 1599, Start Num: 62
Candidate Starts for Kheparia_8:
(Start: 56 @1363 has 24 MA's), (Start: 62 @1372 has 118 MA's), (72, 1396), (76, 1414), (81, 1438), (90, 1492),

Gene: KiSi_6 Start: 1261, Stop: 1497, Start Num: 56
Candidate Starts for KiSi_6:
(Start: 56 @1261 has 24 MA's), (Start: 62 @1270 has 118 MA's), (81, 1336), (90, 1390),

Gene: KingPhillip3_29 Start: 12818, Stop: 13117, Start Num: 50
Candidate Starts for KingPhillip3_29:
(Start: 50 @12818 has 27 MA's), (Start: 52 @12827 has 7 MA's), (84, 12968), (92, 13010),

Gene: Kraw_8 Start: 2221, Stop: 2493, Start Num: 54
Candidate Starts for Kraw_8:
(Start: 26 @2134 has 49 MA's), (35, 2158), (Start: 54 @2221 has 23 MA's), (73, 2290), (74, 2293), (78, 2314), (85, 2356), (104, 2440),

Gene: Krili_29 Start: 12988, Stop: 13287, Start Num: 50
Candidate Starts for Krili_29:
(21, 12910), (Start: 50 @12988 has 27 MA's), (Start: 52 @12997 has 7 MA's), (84, 13138), (92, 13180),

Gene: Krueger_6 Start: 1287, Stop: 1535, Start Num: 62
Candidate Starts for Krueger_6:
(Start: 52 @1257 has 7 MA's), (Start: 62 @1287 has 118 MA's), (76, 1350), (78, 1362), (90, 1428),

Gene: Kumotta_2 Start: 743, Stop: 1042, Start Num: 38
Candidate Starts for Kumotta_2:
(36, 734), (Start: 38 @743 has 7 MA's), (45, 758), (49, 767), (68, 821), (76, 866), (85, 917), (109, 1010),

Gene: LastHope_7 Start: 1385, Stop: 1633, Start Num: 61
Candidate Starts for LastHope_7:
(58, 1379), (Start: 61 @1385 has 1 MA's), (Start: 63 @1388 has 1 MA's), (76, 1448), (78, 1460), (90, 1526),

Gene: LaterM_7 Start: 1357, Stop: 1584, Start Num: 62
Candidate Starts for LaterM_7:
(44, 1303), (Start: 56 @1348 has 24 MA's), (Start: 59 @1354 has 2 MA's), (Start: 62 @1357 has 118 MA's), (74, 1390), (76, 1399), (81, 1423), (90, 1477),

Gene: Lavahound_5 Start: 970, Stop: 1197, Start Num: 62
Candidate Starts for Lavahound_5:
(Start: 56 @961 has 24 MA's), (Start: 62 @970 has 118 MA's), (76, 1012), (81, 1036), (90, 1090),

Gene: LeMond_6 Start: 1261, Stop: 1497, Start Num: 56
Candidate Starts for LeMond_6:
(Start: 56 @1261 has 24 MA's), (Start: 62 @1270 has 118 MA's), (81, 1336), (90, 1390),

Gene: Lea83_6 Start: 1277, Stop: 1504, Start Num: 62

Candidate Starts for Lea83_6:
(Start: 52 @1247 has 7 MA's), (Start: 62 @1277 has 118 MA's), (74, 1310), (75, 1313), (76, 1319), (87, 1382), (90, 1397), (96, 1421),

Gene: Lebo14_8 Start: 2234, Stop: 2506, Start Num: 54
Candidate Starts for Lebo14_8:
(Start: 26 @2147 has 49 MA's), (35, 2171), (Start: 54 @2234 has 23 MA's), (73, 2303), (74, 2306), (78, 2327), (85, 2369), (104, 2453),

Gene: Lemuria_1 Start: 45, Stop: 404, Start Num: 27
Candidate Starts for Lemuria_1:
(Start: 27 @45 has 23 MA's), (81, 225), (91, 285), (109, 360),

Gene: Leston_5 Start: 1131, Stop: 1358, Start Num: 69
Candidate Starts for Leston_5:
(Start: 69 @1131 has 18 MA's), (73, 1161), (76, 1173), (81, 1197), (90, 1251),

Gene: Liefie_1 Start: 42, Stop: 386, Start Num: 26
Candidate Starts for Liefie_1:
(Start: 26 @42 has 49 MA's), (Start: 27 @45 has 23 MA's), (68, 147), (81, 216), (89, 267), (97, 297),

Gene: LilDirt_4 Start: 869, Stop: 1096, Start Num: 69
Candidate Starts for LilDirt_4:
(24, 737), (34, 767), (46, 794), (Start: 66 @860 has 2 MA's), (67, 863), (Start: 69 @869 has 18 MA's), (72, 893), (76, 911), (81, 935), (90, 989), (107, 1058), (112, 1073),

Gene: LilPharaoh_3 Start: 636, Stop: 863, Start Num: 62
Candidate Starts for LilPharaoh_3:
(Start: 56 @627 has 24 MA's), (Start: 62 @636 has 118 MA's), (76, 678), (77, 684), (81, 702), (90, 756), (97, 783),

Gene: LindNT_7 Start: 1351, Stop: 1578, Start Num: 62
Candidate Starts for LindNT_7:
(Start: 56 @1342 has 24 MA's), (Start: 62 @1351 has 118 MA's), (76, 1393), (81, 1417), (90, 1471),

Gene: Llorens_7 Start: 1426, Stop: 1653, Start Num: 62
Candidate Starts for Llorens_7:
(44, 1372), (Start: 56 @1417 has 24 MA's), (Start: 59 @1423 has 2 MA's), (Start: 62 @1426 has 118 MA's), (74, 1459), (76, 1468), (81, 1492), (90, 1546),

Gene: Lokum_7 Start: 1417, Stop: 1653, Start Num: 56
Candidate Starts for Lokum_7:
(44, 1372), (Start: 56 @1417 has 24 MA's), (Start: 59 @1423 has 2 MA's), (Start: 62 @1426 has 118 MA's), (74, 1459), (76, 1468), (81, 1492), (90, 1546),

Gene: LouisV14_1 Start: 43, Stop: 387, Start Num: 26
Candidate Starts for LouisV14_1:
(Start: 26 @43 has 49 MA's), (Start: 27 @46 has 23 MA's), (68, 148), (81, 217), (89, 268),

Gene: Lton_1 Start: 107, Stop: 469, Start Num: 43
Candidate Starts for Lton_1:
(Start: 43 @107 has 4 MA's), (48, 119), (74, 218), (76, 227), (78, 239), (81, 251), (85, 281), (87, 290), (89, 302), (108, 377), (114, 416),

Gene: Lucky10_1 Start: 45, Stop: 347, Start Num: 38
Candidate Starts for Lucky10_1:
(Start: 38 @45 has 7 MA's), (Start: 62 @111 has 118 MA's), (64, 117), (68, 120), (74, 156), (76, 165), (78, 177), (90, 243), (104, 300),

Gene: Lunahalos_7 Start: 1426, Stop: 1653, Start Num: 62
Candidate Starts for Lunahalos_7:
(44, 1372), (Start: 56 @1417 has 24 MA's), (Start: 59 @1423 has 2 MA's), (Start: 62 @1426 has 118 MA's), (74, 1459), (76, 1468), (81, 1492), (90, 1546),

Gene: MOOREtheMARYer_1 Start: 53, Stop: 379, Start Num: 32
Candidate Starts for MOOREtheMARYer_1:
(28, 50), (Start: 32 @53 has 9 MA's), (42, 80), (68, 143), (73, 176), (76, 188), (88, 254), (91, 272),

Gene: MZKinsey_1 Start: 43, Stop: 387, Start Num: 26
Candidate Starts for MZKinsey_1:
(Start: 26 @43 has 49 MA's), (Start: 27 @46 has 23 MA's), (68, 148), (81, 217), (89, 268),

Gene: MacKat_7 Start: 1402, Stop: 1629, Start Num: 62
Candidate Starts for MacKat_7:
(44, 1348), (Start: 56 @1393 has 24 MA's), (Start: 59 @1399 has 2 MA's), (Start: 62 @1402 has 118 MA's), (74, 1435), (76, 1444), (81, 1468), (90, 1522),

Gene: MacnCheese_7 Start: 1483, Stop: 1710, Start Num: 62
Candidate Starts for MacnCheese_7:
(Start: 52 @1459 has 7 MA's), (Start: 62 @1483 has 118 MA's), (75, 1519), (76, 1525), (90, 1603), (96, 1627),

Gene: MadKillah_31 Start: 13207, Stop: 13506, Start Num: 50
Candidate Starts for MadKillah_31:
(16, 13084), (Start: 50 @13207 has 27 MA's), (Start: 52 @13216 has 7 MA's), (84, 13357), (92, 13399),

Gene: Maliketh_1 Start: 46, Stop: 387, Start Num: 27
Candidate Starts for Maliketh_1:
(Start: 26 @43 has 49 MA's), (Start: 27 @46 has 23 MA's), (68, 148), (81, 217), (89, 268),

Gene: Malthus_8 Start: 2221, Stop: 2493, Start Num: 54
Candidate Starts for Malthus_8:
(Start: 26 @2134 has 49 MA's), (35, 2158), (Start: 54 @2221 has 23 MA's), (73, 2290), (74, 2293), (78, 2314), (85, 2356), (104, 2440),

Gene: Marcoliusprime_3 Start: 426, Stop: 674, Start Num: 60
Candidate Starts for Marcoliusprime_3:
(Start: 54 @408 has 23 MA's), (Start: 60 @426 has 11 MA's), (76, 489), (78, 501), (90, 567),

Gene: MarkPhew_6 Start: 1221, Stop: 1448, Start Num: 62
Candidate Starts for MarkPhew_6:
(Start: 56 @1212 has 24 MA's), (Start: 62 @1221 has 118 MA's), (81, 1287), (90, 1341),

Gene: Marmie_1 Start: 43, Stop: 387, Start Num: 26
Candidate Starts for Marmie_1:
(Start: 26 @43 has 49 MA's), (Start: 27 @46 has 23 MA's), (68, 148), (81, 217), (89, 268),

Gene: Marshawn_8 Start: 1819, Stop: 2043, Start Num: 62
Candidate Starts for Marshawn_8:
(Start: 56 @1810 has 24 MA's), (Start: 62 @1819 has 118 MA's), (76, 1858), (81, 1882), (90, 1936),

Gene: McMater_7 Start: 1449, Stop: 1676, Start Num: 62
Candidate Starts for McMater_7:
(Start: 56 @1440 has 24 MA's), (Start: 62 @1449 has 118 MA's), (76, 1491), (81, 1515), (90, 1569),

Gene: Mdavu_3 Start: 636, Stop: 863, Start Num: 62
Candidate Starts for Mdavu_3:
(Start: 56 @627 has 24 MA's), (Start: 62 @636 has 118 MA's), (76, 678), (77, 684), (81, 702), (90, 756), (97, 783),

Gene: MeaningOfLife_7 Start: 1352, Stop: 1579, Start Num: 62
Candidate Starts for MeaningOfLife_7:
(44, 1298), (Start: 56 @1343 has 24 MA's), (Start: 59 @1349 has 2 MA's), (Start: 62 @1352 has 118 MA's), (74, 1385), (81, 1418), (90, 1472),

Gene: Megsy_7 Start: 1342, Stop: 1578, Start Num: 56
Candidate Starts for Megsy_7:
(44, 1297), (Start: 56 @1342 has 24 MA's), (Start: 62 @1351 has 118 MA's), (76, 1393), (81, 1417), (90, 1471),

Gene: Mercurio_2 Start: 700, Stop: 1044, Start Num: 33
Candidate Starts for Mercurio_2:
(1, 271), (2, 343), (3, 349), (4, 355), (5, 415), (7, 514), (8, 523), (30, 691), (Start: 32 @697 has 9 MA's), (Start: 33 @700 has 1 MA's), (76, 844), (81, 868), (85, 898), (86, 901), (109, 1000),

Gene: Milly_3 Start: 426, Stop: 674, Start Num: 60
Candidate Starts for Milly_3:
(Start: 54 @408 has 23 MA's), (Start: 60 @426 has 11 MA's), (76, 489), (78, 501), (90, 567),

Gene: Miryou_5 Start: 1105, Stop: 1332, Start Num: 69
Candidate Starts for Miryou_5:
(15, 922), (17, 934), (24, 973), (34, 1003), (Start: 66 @1096 has 2 MA's), (67, 1099), (Start: 69 @1105 has 18 MA's), (81, 1171), (87, 1210), (90, 1225),

Gene: MissDaisy_8 Start: 2177, Stop: 2449, Start Num: 54
Candidate Starts for MissDaisy_8:
(9, 1949), (11, 1970), (13, 1997), (35, 2114), (Start: 54 @2177 has 23 MA's), (73, 2246), (74, 2249), (75, 2252), (78, 2270), (85, 2312), (104, 2396),

Gene: Mitti_8 Start: 2234, Stop: 2506, Start Num: 54
Candidate Starts for Mitti_8:
(Start: 26 @2147 has 49 MA's), (35, 2171), (Start: 54 @2234 has 23 MA's), (73, 2303), (74, 2306), (78, 2327), (85, 2369), (104, 2453),

Gene: Moosehead_1 Start: 103, Stop: 465, Start Num: 43
Candidate Starts for Moosehead_1:
(39, 97), (Start: 43 @103 has 4 MA's), (48, 115), (74, 214), (76, 223), (78, 235), (81, 247), (85, 277), (102, 352), (106, 364), (108, 373), (111, 385), (113, 394), (115, 430),

Gene: Mori_29 Start: 12859, Stop: 13158, Start Num: 50
Candidate Starts for Mori_29:
(21, 12781), (Start: 50 @12859 has 27 MA's), (Start: 52 @12868 has 7 MA's), (84, 13009), (92, 13051),

Gene: Morkie_1 Start: 44, Stop: 346, Start Num: 38
Candidate Starts for Morkie_1:
(Start: 38 @44 has 7 MA's), (Start: 62 @110 has 118 MA's), (74, 155), (76, 164), (78, 176), (90, 242), (104, 299),

Gene: Mowgli_1 Start: 46, Stop: 387, Start Num: 27
Candidate Starts for Mowgli_1:
(Start: 26 @43 has 49 MA's), (Start: 27 @46 has 23 MA's), (68, 148), (81, 217), (89, 268),

Gene: Mufasa_3 Start: 426, Stop: 674, Start Num: 60
Candidate Starts for Mufasa_3:
(Start: 54 @408 has 23 MA's), (Start: 60 @426 has 11 MA's), (76, 489), (78, 501), (81, 513), (90, 567),

Gene: Murai_30 Start: 13049, Stop: 13348, Start Num: 50
Candidate Starts for Murai_30:
(Start: 50 @13049 has 27 MA's), (Start: 52 @13058 has 7 MA's), (84, 13199), (92, 13241),

Gene: Murucutumbu_7 Start: 1351, Stop: 1578, Start Num: 62
Candidate Starts for Murucutumbu_7:
(44, 1297), (Start: 56 @1342 has 24 MA's), (Start: 59 @1348 has 2 MA's), (Start: 62 @1351 has 118 MA's), (74, 1384), (76, 1393), (81, 1417), (90, 1471),

Gene: Mynx_7 Start: 1402, Stop: 1629, Start Num: 62
Candidate Starts for Mynx_7:
(44, 1348), (Start: 56 @1393 has 24 MA's), (Start: 59 @1399 has 2 MA's), (Start: 62 @1402 has 118 MA's), (74, 1435), (76, 1444), (81, 1468), (90, 1522),

Gene: Neighly_5 Start: 869, Stop: 1096, Start Num: 69
Candidate Starts for Neighly_5:
(24, 737), (34, 767), (46, 794), (Start: 66 @860 has 2 MA's), (67, 863), (Start: 69 @869 has 18 MA's), (72, 893), (76, 911), (81, 935), (90, 989), (107, 1058), (112, 1073),

Gene: Neoh_1 Start: 47, Stop: 388, Start Num: 27
Candidate Starts for Neoh_1:
(Start: 26 @44 has 49 MA's), (Start: 27 @47 has 23 MA's), (68, 149), (81, 218), (89, 269),

Gene: Neroxid_1 Start: 70, Stop: 369, Start Num: 38
Candidate Starts for Neroxid_1:
(Start: 38 @70 has 7 MA's), (51, 97), (Start: 56 @112 has 24 MA's), (64, 130), (76, 178), (83, 220), (85, 232), (87, 241), (88, 244), (105, 316), (108, 322),

Gene: Nibb_6 Start: 1364, Stop: 1591, Start Num: 62
Candidate Starts for Nibb_6:
(Start: 56 @1355 has 24 MA's), (Start: 62 @1364 has 118 MA's), (81, 1430), (90, 1484),

Gene: NiebruSaylor_29 Start: 12860, Stop: 13159, Start Num: 50
Candidate Starts for NiebruSaylor_29:
(21, 12782), (Start: 50 @12860 has 27 MA's), (Start: 52 @12869 has 7 MA's), (84, 13010), (92, 13052),

Gene: Nikao_3 Start: 636, Stop: 863, Start Num: 62
Candidate Starts for Nikao_3:
(Start: 56 @627 has 24 MA's), (Start: 62 @636 has 118 MA's), (76, 678), (77, 684), (81, 702), (90, 756), (97, 783),

Gene: Niklas_7 Start: 1449, Stop: 1676, Start Num: 62
Candidate Starts for Niklas_7:
(Start: 56 @1440 has 24 MA's), (Start: 62 @1449 has 118 MA's), (76, 1491), (81, 1515), (90, 1569),

Gene: Nolwazi_8 Start: 2235, Stop: 2507, Start Num: 54
Candidate Starts for Nolwazi_8:
(Start: 26 @2148 has 49 MA's), (35, 2172), (Start: 54 @2235 has 23 MA's), (73, 2304), (74, 2307), (78, 2328), (85, 2370), (104, 2454),

Gene: November_5 Start: 1039, Stop: 1257, Start Num: 62
Candidate Starts for November_5:
(14, 847), (Start: 56 @1030 has 24 MA's), (Start: 62 @1039 has 118 MA's), (72, 1054), (73, 1060), (76, 1072), (81, 1096), (90, 1150),

Gene: Nutello_3 Start: 636, Stop: 863, Start Num: 62
Candidate Starts for Nutello_3:
(Start: 56 @627 has 24 MA's), (Start: 62 @636 has 118 MA's), (76, 678), (77, 684), (81, 702), (90, 756), (97, 783),

Gene: OctaviousRex_1 Start: 43, Stop: 387, Start Num: 26
Candidate Starts for OctaviousRex_1:
(Start: 26 @43 has 49 MA's), (Start: 27 @46 has 23 MA's), (68, 148), (81, 217), (89, 268),

Gene: OkiRoe_5 Start: 1107, Stop: 1334, Start Num: 69
Candidate Starts for OkiRoe_5:
(Start: 69 @1107 has 18 MA's), (73, 1137), (76, 1149), (81, 1173), (90, 1227),

Gene: Olga_1 Start: 46, Stop: 387, Start Num: 27
Candidate Starts for Olga_1:
(Start: 26 @43 has 49 MA's), (Start: 27 @46 has 23 MA's), (68, 148), (81, 217), (89, 268),

Gene: OmniCritical_8 Start: 2221, Stop: 2493, Start Num: 54
Candidate Starts for OmniCritical_8:
(Start: 26 @2134 has 49 MA's), (35, 2158), (Start: 54 @2221 has 23 MA's), (73, 2290), (74, 2293), (78, 2314), (85, 2356), (104, 2440),

Gene: Omnicron_5 Start: 1158, Stop: 1394, Start Num: 66
Candidate Starts for Omnicron_5:
(Start: 66 @1158 has 2 MA's), (67, 1161), (Start: 69 @1167 has 18 MA's), (81, 1233), (87, 1272), (90, 1287), (100, 1329),

Gene: OneDirection_1 Start: 104, Stop: 466, Start Num: 43
Candidate Starts for OneDirection_1:
(39, 98), (Start: 43 @104 has 4 MA's), (74, 215), (75, 218), (76, 224), (78, 236), (81, 248), (85, 278), (106, 365), (114, 413), (115, 431),

Gene: Oscar_6 Start: 1262, Stop: 1498, Start Num: 56
Candidate Starts for Oscar_6:

(Start: 56 @1262 has 24 MA's), (Start: 62 @1271 has 118 MA's), (81, 1337), (90, 1391),

Gene: P3MA_2 Start: 587, Stop: 982, Start Num: 23
Candidate Starts for P3MA_2:
(Start: 23 @587 has 1 MA's), (40, 638), (72, 752), (82, 797), (95, 875), (96, 878), (109, 938),

Gene: Pace1224_1 Start: 52, Stop: 387, Start Num: 32
Candidate Starts for Pace1224_1:
(Start: 32 @52 has 9 MA's), (42, 79), (81, 214), (85, 244),

Gene: Padfoot_7 Start: 1417, Stop: 1653, Start Num: 56
Candidate Starts for Padfoot_7:
(44, 1372), (Start: 56 @1417 has 24 MA's), (Start: 59 @1423 has 2 MA's), (Start: 62 @1426 has 118 MA's), (74, 1459), (76, 1468), (81, 1492), (90, 1546),

Gene: Padpat_7 Start: 1382, Stop: 1609, Start Num: 62
Candidate Starts for Padpat_7:
(44, 1328), (Start: 56 @1373 has 24 MA's), (Start: 59 @1379 has 2 MA's), (Start: 62 @1382 has 118 MA's), (74, 1415), (76, 1424), (81, 1448), (90, 1502),

Gene: Paito_1 Start: 47, Stop: 382, Start Num: 31
Candidate Starts for Paito_1:
(Start: 31 @47 has 2 MA's), (37, 62), (73, 173), (81, 209), (86, 242),

Gene: Paola_5 Start: 1106, Stop: 1333, Start Num: 69
Candidate Starts for Paola_5:
(Start: 69 @1106 has 18 MA's), (73, 1136), (76, 1148), (81, 1172), (90, 1226),

Gene: Patt_8 Start: 2153, Stop: 2425, Start Num: 54
Candidate Starts for Patt_8:
(Start: 26 @2066 has 49 MA's), (35, 2090), (Start: 54 @2153 has 23 MA's), (73, 2222), (74, 2225), (75, 2228), (78, 2246), (85, 2288), (104, 2372),

Gene: Peanam_7 Start: 1440, Stop: 1676, Start Num: 56
Candidate Starts for Peanam_7:
(Start: 56 @1440 has 24 MA's), (Start: 62 @1449 has 118 MA's), (76, 1491), (81, 1515), (90, 1569),

Gene: Peeb_1 Start: 46, Stop: 387, Start Num: 27
Candidate Starts for Peeb_1:
(Start: 26 @43 has 49 MA's), (Start: 27 @46 has 23 MA's), (68, 148), (81, 217), (89, 268),

Gene: Peel_7 Start: 1417, Stop: 1653, Start Num: 56
Candidate Starts for Peel_7:
(44, 1372), (Start: 56 @1417 has 24 MA's), (Start: 59 @1423 has 2 MA's), (Start: 62 @1426 has 118 MA's), (74, 1459), (76, 1468), (81, 1492), (90, 1546),

Gene: Periodt_1 Start: 43, Stop: 387, Start Num: 26
Candidate Starts for Periodt_1:
(Start: 26 @43 has 49 MA's), (Start: 27 @46 has 23 MA's), (68, 148), (81, 217), (89, 268),

Gene: Pharb_6 Start: 1077, Stop: 1304, Start Num: 62
Candidate Starts for Pharb_6:

(Start: 52 @1047 has 7 MA's), (Start: 62 @1077 has 118 MA's), (75, 1113), (76, 1119), (81, 1143), (90, 1197), (96, 1221),

Gene: PhelpsODU_6 Start: 1317, Stop: 1565, Start Num: 62
Candidate Starts for PhelpsODU_6:
(Start: 52 @1287 has 7 MA's), (Start: 62 @1317 has 118 MA's), (76, 1380), (78, 1392), (90, 1458),

Gene: Phish_1 Start: 46, Stop: 387, Start Num: 27
Candidate Starts for Phish_1:
(Start: 26 @43 has 49 MA's), (Start: 27 @46 has 23 MA's), (68, 148), (81, 217), (89, 268),

Gene: Phloodle_1 Start: 43, Stop: 387, Start Num: 26
Candidate Starts for Phloodle_1:
(Start: 26 @43 has 49 MA's), (Start: 27 @46 has 23 MA's), (68, 148), (81, 217), (89, 268),

Gene: PhorbesPhlower_1 Start: 44, Stop: 346, Start Num: 38
Candidate Starts for PhorbesPhlower_1:
(Start: 38 @44 has 7 MA's), (Start: 62 @110 has 118 MA's), (74, 155), (76, 164), (78, 176), (90, 242), (104, 299),

Gene: Phrank_6 Start: 1283, Stop: 1531, Start Num: 62
Candidate Starts for Phrank_6:
(Start: 52 @1253 has 7 MA's), (Start: 62 @1283 has 118 MA's), (76, 1346), (78, 1358), (90, 1424),

Gene: Phreak_1 Start: 43, Stop: 387, Start Num: 26
Candidate Starts for Phreak_1:
(Start: 26 @43 has 49 MA's), (Start: 27 @46 has 23 MA's), (68, 148), (81, 217), (89, 268),

Gene: Piatt_7 Start: 1426, Stop: 1653, Start Num: 62
Candidate Starts for Piatt_7:
(44, 1372), (Start: 56 @1417 has 24 MA's), (Start: 59 @1423 has 2 MA's), (Start: 62 @1426 has 118 MA's), (74, 1459), (76, 1468), (81, 1492), (90, 1546),

Gene: PinkYoshi_1 Start: 46, Stop: 387, Start Num: 27
Candidate Starts for PinkYoshi_1:
(Start: 26 @43 has 49 MA's), (Start: 27 @46 has 23 MA's), (68, 148), (81, 217), (89, 268),

Gene: Pinnie_2 Start: 520, Stop: 846, Start Num: 32
Candidate Starts for Pinnie_2:
(6, 322), (Start: 32 @520 has 9 MA's), (42, 547), (68, 613), (73, 646), (76, 658), (88, 724), (91, 742), (93, 748),

Gene: Pisa1_6 Start: 1151, Stop: 1378, Start Num: 62
Candidate Starts for Pisa1_6:
(Start: 56 @1142 has 24 MA's), (Start: 62 @1151 has 118 MA's), (76, 1193), (81, 1217), (90, 1271),

Gene: Pisa4_6 Start: 1151, Stop: 1378, Start Num: 62
Candidate Starts for Pisa4_6:
(Start: 56 @1142 has 24 MA's), (Start: 62 @1151 has 118 MA's), (76, 1193), (81, 1217), (90, 1271),

Gene: Pixie_6 Start: 1028, Stop: 1255, Start Num: 62
Candidate Starts for Pixie_6:

(Start: 52 @998 has 7 MA's), (Start: 62 @1028 has 118 MA's), (74, 1061), (75, 1064), (76, 1070), (87, 1133), (90, 1148), (96, 1172),

Gene: Plagueis_1 Start: 46, Stop: 387, Start Num: 27
Candidate Starts for Plagueis_1:
(Start: 26 @43 has 49 MA's), (Start: 27 @46 has 23 MA's), (68, 148), (81, 217), (89, 268),

Gene: Pokerus_6 Start: 1336, Stop: 1563, Start Num: 62
Candidate Starts for Pokerus_6:
(44, 1282), (Start: 56 @1327 has 24 MA's), (Start: 59 @1333 has 2 MA's), (Start: 62 @1336 has 118 MA's), (74, 1369), (76, 1378), (81, 1402), (90, 1456),

Gene: Primanti_1 Start: 46, Stop: 387, Start Num: 27
Candidate Starts for Primanti_1:
(Start: 26 @43 has 49 MA's), (Start: 27 @46 has 23 MA's), (68, 148), (81, 217), (89, 268),

Gene: Prithvi_7 Start: 1351, Stop: 1578, Start Num: 62
Candidate Starts for Prithvi_7:
(Start: 56 @1342 has 24 MA's), (Start: 62 @1351 has 118 MA's), (76, 1393), (81, 1417), (90, 1471),

Gene: Qhanda_8 Start: 2234, Stop: 2506, Start Num: 54
Candidate Starts for Qhanda_8:
(Start: 26 @2147 has 49 MA's), (35, 2171), (Start: 54 @2234 has 23 MA's), (73, 2303), (74, 2306), (78, 2327), (85, 2369), (104, 2453),

Gene: QuincyRose_6 Start: 1393, Stop: 1629, Start Num: 56
Candidate Starts for QuincyRose_6:
(44, 1348), (Start: 56 @1393 has 24 MA's), (Start: 59 @1399 has 2 MA's), (Start: 62 @1402 has 118 MA's), (74, 1435), (76, 1444), (81, 1468), (90, 1522),

Gene: REQ2_01 Start: 71, Stop: 421, Start Num: 47
Candidate Starts for REQ2_01:
(22, 5), (47, 71), (Start: 60 @116 has 11 MA's), (65, 128), (67, 134), (76, 182), (81, 206), (87, 245),

Gene: Rabbs_1 Start: 44, Stop: 388, Start Num: 26
Candidate Starts for Rabbs_1:
(Start: 26 @44 has 49 MA's), (Start: 27 @47 has 23 MA's), (68, 149), (81, 218), (89, 269),

Gene: Ramen_7 Start: 1376, Stop: 1603, Start Num: 62
Candidate Starts for Ramen_7:
(Start: 56 @1367 has 24 MA's), (Start: 59 @1373 has 2 MA's), (Start: 62 @1376 has 118 MA's), (74, 1409), (76, 1418), (81, 1442), (90, 1496),

Gene: Rando14_5 Start: 1196, Stop: 1423, Start Num: 69
Candidate Starts for Rando14_5:
(Start: 66 @1187 has 2 MA's), (67, 1190), (Start: 69 @1196 has 18 MA's), (81, 1262), (87, 1301), (90, 1316), (100, 1358),

Gene: Rapunzel97_7 Start: 1376, Stop: 1603, Start Num: 62
Candidate Starts for Rapunzel97_7:
(Start: 56 @1367 has 24 MA's), (Start: 59 @1373 has 2 MA's), (Start: 62 @1376 has 118 MA's), (74, 1409), (76, 1418), (81, 1442), (90, 1496),

Gene: Rattrick_1 Start: 43, Stop: 387, Start Num: 26
Candidate Starts for Rattrick_1:
(Start: 26 @43 has 49 MA's), (Start: 27 @46 has 23 MA's), (68, 148), (81, 217), (89, 268),

Gene: Raya_1 Start: 70, Stop: 369, Start Num: 38
Candidate Starts for Raya_1:
(Start: 38 @70 has 7 MA's), (51, 97), (Start: 56 @112 has 24 MA's), (64, 130), (76, 178), (83, 220), (85, 232), (87, 241), (88, 244), (105, 316), (108, 322),

Gene: Remy19_1 Start: 43, Stop: 387, Start Num: 26
Candidate Starts for Remy19_1:
(Start: 26 @43 has 49 MA's), (Start: 27 @46 has 23 MA's), (68, 148), (81, 217), (89, 268),

Gene: Renaissance_1 Start: 43, Stop: 387, Start Num: 26
Candidate Starts for Renaissance_1:
(Start: 26 @43 has 49 MA's), (Start: 27 @46 has 23 MA's), (68, 148), (81, 217), (89, 268),

Gene: Reptar3000_8 Start: 2152, Stop: 2424, Start Num: 54
Candidate Starts for Reptar3000_8:
(Start: 26 @2065 has 49 MA's), (35, 2089), (Start: 54 @2152 has 23 MA's), (73, 2221), (74, 2224), (75, 2227), (78, 2245), (85, 2287), (104, 2371),

Gene: Richarlison_1 Start: 43, Stop: 387, Start Num: 26
Candidate Starts for Richarlison_1:
(Start: 26 @43 has 49 MA's), (Start: 27 @46 has 23 MA's), (68, 148), (81, 217), (89, 268),

Gene: Richo_7 Start: 1449, Stop: 1676, Start Num: 62
Candidate Starts for Richo_7:
(Start: 56 @1440 has 24 MA's), (Start: 62 @1449 has 118 MA's), (76, 1491), (81, 1515), (90, 1569),

Gene: Rooter_1 Start: 59, Stop: 364, Start Num: 38
Candidate Starts for Rooter_1:
(Start: 38 @59 has 7 MA's), (53, 101), (109, 332),

Gene: Rosmarinus_7 Start: 1426, Stop: 1653, Start Num: 62
Candidate Starts for Rosmarinus_7:
(44, 1372), (Start: 56 @1417 has 24 MA's), (Start: 59 @1423 has 2 MA's), (Start: 62 @1426 has 118 MA's), (74, 1459), (76, 1468), (81, 1492), (90, 1546),

Gene: Ruriko_1 Start: 43, Stop: 387, Start Num: 26
Candidate Starts for Ruriko_1:
(Start: 26 @43 has 49 MA's), (Start: 27 @46 has 23 MA's), (68, 148), (81, 217), (89, 268),

Gene: Ruthiejr_7 Start: 1960, Stop: 2229, Start Num: 54
Candidate Starts for Ruthiejr_7:
(Start: 54 @1960 has 23 MA's), (73, 2026), (74, 2029), (78, 2050), (85, 2092), (104, 2176),

Gene: Ryadel_32 Start: 13643, Stop: 13933, Start Num: 52
Candidate Starts for Ryadel_32:
(16, 13511), (Start: 50 @13634 has 27 MA's), (Start: 52 @13643 has 7 MA's), (84, 13784), (92, 13826),

Gene: SamScheppers_6 Start: 1831, Stop: 2103, Start Num: 54
Candidate Starts for SamScheppers_6:

(Start: 26 @1744 has 49 MA's), (35, 1768), (Start: 54 @1831 has 23 MA's), (73, 1900), (74, 1903), (78, 1924), (85, 1966), (104, 2050),

Gene: SamuelLPlaqson_7 Start: 1355, Stop: 1582, Start Num: 62
Candidate Starts for SamuelLPlaqson_7:
(44, 1304), (Start: 56 @1346 has 24 MA's), (Start: 62 @1355 has 118 MA's), (76, 1397), (81, 1421), (90, 1475),

Gene: Scarlett_6 Start: 1261, Stop: 1497, Start Num: 56
Candidate Starts for Scarlett_6:
(Start: 56 @1261 has 24 MA's), (Start: 62 @1270 has 118 MA's), (81, 1336), (90, 1390),

Gene: Schiebel_1 Start: 46, Stop: 387, Start Num: 27
Candidate Starts for Schiebel_1:
(Start: 26 @43 has 49 MA's), (Start: 27 @46 has 23 MA's), (68, 148), (81, 217), (89, 268),

Gene: SchoolBus_29 Start: 12830, Stop: 13120, Start Num: 52
Candidate Starts for SchoolBus_29:
(16, 12698), (Start: 50 @12821 has 27 MA's), (Start: 52 @12830 has 7 MA's), (84, 12971), (92, 13013),

Gene: Schuy_31 Start: 13207, Stop: 13506, Start Num: 50
Candidate Starts for Schuy_31:
(16, 13084), (Start: 50 @13207 has 27 MA's), (Start: 52 @13216 has 7 MA's), (84, 13357), (92, 13399),

Gene: SgtBeansprout_3 Start: 636, Stop: 863, Start Num: 62
Candidate Starts for SgtBeansprout_3:
(Start: 56 @627 has 24 MA's), (Start: 62 @636 has 118 MA's), (76, 678), (77, 684), (81, 702), (90, 756), (97, 783),

Gene: ShaboiShabazz_1 Start: 46, Stop: 387, Start Num: 27
Candidate Starts for ShaboiShabazz_1:
(Start: 26 @43 has 49 MA's), (Start: 27 @46 has 23 MA's), (68, 148), (81, 217), (89, 268),

Gene: Shadow1_5 Start: 1191, Stop: 1439, Start Num: 62
Candidate Starts for Shadow1_5:
(Start: 52 @1161 has 7 MA's), (Start: 62 @1191 has 118 MA's), (73, 1242), (76, 1254), (78, 1266), (90, 1332),

Gene: Shaobing_7 Start: 1449, Stop: 1676, Start Num: 62
Candidate Starts for Shaobing_7:
(Start: 56 @1440 has 24 MA's), (Start: 62 @1449 has 118 MA's), (76, 1491), (81, 1515), (90, 1569),

Gene: ShedlockHolmes_6 Start: 1277, Stop: 1504, Start Num: 62
Candidate Starts for ShedlockHolmes_6:
(Start: 52 @1247 has 7 MA's), (Start: 62 @1277 has 118 MA's), (74, 1310), (75, 1313), (76, 1319), (87, 1382), (90, 1397), (96, 1421),

Gene: ShiaSurprise_7 Start: 1426, Stop: 1653, Start Num: 62
Candidate Starts for ShiaSurprise_7:
(44, 1372), (Start: 56 @1417 has 24 MA's), (Start: 59 @1423 has 2 MA's), (Start: 62 @1426 has 118 MA's), (74, 1459), (76, 1468), (81, 1492), (90, 1546),

Gene: Shida_30 Start: 13114, Stop: 13413, Start Num: 50

Candidate Starts for Shida_30:
(21, 13036), (Start: 50 @13114 has 27 MA's), (Start: 52 @13123 has 7 MA's), (84, 13264), (92, 13306),

Gene: Shoya_1 Start: 59, Stop: 364, Start Num: 38
Candidate Starts for Shoya_1:
(Start: 38 @59 has 7 MA's), (53, 101), (109, 332),

Gene: SirPhilip_6 Start: 1153, Stop: 1398, Start Num: 62
Candidate Starts for SirPhilip_6:
(Start: 56 @1144 has 24 MA's), (Start: 62 @1153 has 118 MA's), (76, 1213), (90, 1291), (98, 1324),

Gene: Sizemore_1 Start: 46, Stop: 387, Start Num: 27
Candidate Starts for Sizemore_1:
(Start: 26 @43 has 49 MA's), (Start: 27 @46 has 23 MA's), (68, 148), (81, 217), (89, 268),

Gene: Skyerus_1 Start: 70, Stop: 369, Start Num: 38
Candidate Starts for Skyerus_1:
(Start: 38 @70 has 7 MA's), (51, 97), (Start: 56 @112 has 24 MA's), (64, 130), (76, 178), (83, 220), (85, 232), (87, 241), (88, 244), (105, 316), (108, 322),

Gene: Slarp_8 Start: 2234, Stop: 2506, Start Num: 54
Candidate Starts for Slarp_8:
(Start: 26 @2147 has 49 MA's), (35, 2171), (Start: 54 @2234 has 23 MA's), (73, 2303), (74, 2306), (78, 2327), (85, 2369), (104, 2453),

Gene: Slimphazie_7 Start: 1376, Stop: 1603, Start Num: 62
Candidate Starts for Slimphazie_7:
(Start: 56 @1367 has 24 MA's), (Start: 59 @1373 has 2 MA's), (Start: 62 @1376 has 118 MA's), (74, 1409), (76, 1418), (81, 1442), (90, 1496),

Gene: Smooch_32 Start: 14365, Stop: 14664, Start Num: 50
Candidate Starts for Smooch_32:
(16, 14242), (Start: 50 @14365 has 27 MA's), (Start: 52 @14374 has 7 MA's), (84, 14515), (92, 14557),

Gene: Sneeze_1 Start: 43, Stop: 387, Start Num: 26
Candidate Starts for Sneeze_1:
(Start: 26 @43 has 49 MA's), (Start: 27 @46 has 23 MA's), (68, 148), (81, 217), (89, 268),

Gene: SoSeph_5 Start: 1127, Stop: 1354, Start Num: 69
Candidate Starts for SoSeph_5:
(Start: 69 @1127 has 18 MA's), (73, 1157), (76, 1169), (81, 1193), (90, 1247),

Gene: Spartoi_1 Start: 95, Stop: 397, Start Num: 38
Candidate Starts for Spartoi_1:
(25, 50), (29, 68), (35, 80), (Start: 38 @95 has 7 MA's), (64, 158), (70, 173), (76, 206), (85, 260), (88, 272), (99, 320), (104, 341),

Gene: Spock_7 Start: 1426, Stop: 1653, Start Num: 62
Candidate Starts for Spock_7:
(44, 1372), (Start: 56 @1417 has 24 MA's), (Start: 59 @1423 has 2 MA's), (Start: 62 @1426 has 118 MA's), (74, 1459), (76, 1468), (81, 1492), (90, 1546),

Gene: Stargaze_1 Start: 52, Stop: 372, Start Num: 32

Candidate Starts for Stargaze_1:
(Start: 32 @52 has 9 MA's), (68, 136), (76, 181), (81, 205), (89, 256), (103, 310),

Gene: Stinson_7 Start: 1348, Stop: 1584, Start Num: 56
Candidate Starts for Stinson_7:
(44, 1303), (Start: 56 @1348 has 24 MA's), (Start: 59 @1354 has 2 MA's), (Start: 62 @1357 has 118 MA's), (74, 1390), (76, 1399), (81, 1423), (90, 1477),

Gene: Strobilo_3 Start: 426, Stop: 674, Start Num: 60
Candidate Starts for Strobilo_3:
(Start: 60 @426 has 11 MA's), (76, 489), (78, 501), (90, 567),

Gene: Sulley_7 Start: 1364, Stop: 1591, Start Num: 62
Candidate Starts for Sulley_7:
(41, 1304), (Start: 56 @1355 has 24 MA's), (Start: 62 @1364 has 118 MA's), (76, 1406), (81, 1430), (90, 1484),

Gene: Sunflower1121_5 Start: 1190, Stop: 1438, Start Num: 62
Candidate Starts for Sunflower1121_5:
(Start: 52 @1160 has 7 MA's), (Start: 62 @1190 has 118 MA's), (73, 1241), (76, 1253), (78, 1265), (90, 1331),

Gene: Sweets_1 Start: 46, Stop: 387, Start Num: 27
Candidate Starts for Sweets_1:
(Start: 26 @43 has 49 MA's), (Start: 27 @46 has 23 MA's), (68, 148), (81, 217), (89, 268),

Gene: Syra333_6 Start: 1295, Stop: 1543, Start Num: 62
Candidate Starts for Syra333_6:
(Start: 52 @1265 has 7 MA's), (Start: 62 @1295 has 118 MA's), (73, 1346), (76, 1358), (78, 1370), (90, 1436),

Gene: TBond007_6 Start: 997, Stop: 1254, Start Num: 52
Candidate Starts for TBond007_6:
(Start: 52 @997 has 7 MA's), (Start: 62 @1027 has 118 MA's), (74, 1060), (75, 1063), (76, 1069), (87, 1132), (90, 1147), (96, 1171),

Gene: TClif_6 Start: 1251, Stop: 1478, Start Num: 62
Candidate Starts for TClif_6:
(Start: 52 @1221 has 7 MA's), (Start: 62 @1251 has 118 MA's), (76, 1293), (81, 1317), (90, 1371),

Gene: TM4_3 Start: 438, Stop: 689, Start Num: 60
Candidate Starts for TM4_3:
(12, 231), (Start: 60 @438 has 11 MA's), (76, 501), (78, 513), (90, 579),

Gene: Tachez_7 Start: 1345, Stop: 1572, Start Num: 62
Candidate Starts for Tachez_7:
(44, 1291), (Start: 56 @1336 has 24 MA's), (Start: 59 @1342 has 2 MA's), (Start: 62 @1345 has 118 MA's), (74, 1378), (76, 1387), (81, 1411), (90, 1465),

Gene: Taheera_1 Start: 47, Stop: 391, Start Num: 27
Candidate Starts for Taheera_1:
(Start: 27 @47 has 23 MA's), (68, 149), (81, 218),

Gene: TaiwanKao_7 Start: 1351, Stop: 1578, Start Num: 62
Candidate Starts for TaiwanKao_7:
(44, 1297), (Start: 56 @1342 has 24 MA's), (Start: 62 @1351 has 118 MA's), (76, 1393), (81, 1417), (90, 1471),

Gene: Taquito_6 Start: 1832, Stop: 2104, Start Num: 54
Candidate Starts for Taquito_6:
(Start: 26 @1745 has 49 MA's), (35, 1769), (Start: 54 @1832 has 23 MA's), (73, 1901), (74, 1904), (78, 1925), (85, 1967), (104, 2051),

Gene: Teejan_3 Start: 636, Stop: 863, Start Num: 62
Candidate Starts for Teejan_3:
(Start: 56 @627 has 24 MA's), (Start: 62 @636 has 118 MA's), (76, 678), (77, 684), (81, 702), (90, 756), (97, 783),

Gene: TelAviv_27 Start: 12815, Stop: 13114, Start Num: 50
Candidate Starts for TelAviv_27:
(Start: 50 @12815 has 27 MA's), (Start: 52 @12824 has 7 MA's), (84, 12965), (92, 13007),

Gene: Terralys_1 Start: 46, Stop: 387, Start Num: 27
Candidate Starts for Terralys_1:
(Start: 26 @43 has 49 MA's), (Start: 27 @46 has 23 MA's), (68, 148), (81, 217), (89, 268),

Gene: Terror_1 Start: 47, Stop: 391, Start Num: 27
Candidate Starts for Terror_1:
(Start: 27 @47 has 23 MA's), (68, 149), (81, 218),

Gene: Thyatira_5 Start: 1105, Stop: 1332, Start Num: 69
Candidate Starts for Thyatira_5:
(15, 922), (17, 934), (24, 973), (34, 1003), (Start: 66 @1096 has 2 MA's), (67, 1099), (Start: 69 @1105 has 18 MA's), (81, 1171), (87, 1210), (90, 1225),

Gene: Tierra_6 Start: 1285, Stop: 1533, Start Num: 62
Candidate Starts for Tierra_6:
(Start: 52 @1255 has 7 MA's), (Start: 62 @1285 has 118 MA's), (76, 1348), (78, 1360), (90, 1426),

Gene: Tigress9_6 Start: 1287, Stop: 1535, Start Num: 62
Candidate Starts for Tigress9_6:
(Start: 52 @1257 has 7 MA's), (Start: 62 @1287 has 118 MA's), (76, 1350), (78, 1362), (90, 1428),

Gene: TinaBug_1 Start: 46, Stop: 387, Start Num: 27
Candidate Starts for TinaBug_1:
(Start: 26 @43 has 49 MA's), (Start: 27 @46 has 23 MA's), (68, 148), (81, 217), (89, 268),

Gene: TingHuaYa_7 Start: 1386, Stop: 1634, Start Num: 61
Candidate Starts for TingHuaYa_7:
(58, 1380), (Start: 61 @1386 has 1 MA's), (Start: 63 @1389 has 1 MA's), (76, 1449), (78, 1461), (90, 1527),

Gene: TiniBug_7 Start: 1355, Stop: 1582, Start Num: 62
Candidate Starts for TiniBug_7:
(44, 1304), (Start: 56 @1346 has 24 MA's), (Start: 62 @1355 has 118 MA's), (76, 1397), (81, 1421), (90, 1475),

Gene: Tiri_7 Start: 1393, Stop: 1620, Start Num: 62
Candidate Starts for Tiri_7:
(44, 1339), (Start: 56 @1384 has 24 MA's), (Start: 59 @1390 has 2 MA's), (Start: 62 @1393 has 118 MA's), (74, 1426), (76, 1435), (81, 1459), (90, 1513),

Gene: TomBrady_1 Start: 44, Stop: 388, Start Num: 26
Candidate Starts for TomBrady_1:
(Start: 26 @44 has 49 MA's), (Start: 27 @47 has 23 MA's), (68, 149), (81, 218), (89, 269),

Gene: Topper_7 Start: 1426, Stop: 1653, Start Num: 62
Candidate Starts for Topper_7:
(44, 1372), (Start: 56 @1417 has 24 MA's), (Start: 59 @1423 has 2 MA's), (Start: 62 @1426 has 118 MA's), (74, 1459), (76, 1468), (81, 1492), (90, 1546),

Gene: Torres_3 Start: 636, Stop: 863, Start Num: 62
Candidate Starts for Torres_3:
(Start: 56 @627 has 24 MA's), (Start: 62 @636 has 118 MA's), (76, 678), (77, 684), (81, 702), (90, 756), (97, 783),

Gene: TreyKay_7 Start: 1351, Stop: 1578, Start Num: 62
Candidate Starts for TreyKay_7:
(Start: 56 @1342 has 24 MA's), (Start: 62 @1351 has 118 MA's), (76, 1393), (81, 1417), (90, 1471),

Gene: TribleTrouble_5 Start: 1095, Stop: 1322, Start Num: 62
Candidate Starts for TribleTrouble_5:
(Start: 52 @1065 has 7 MA's), (Start: 62 @1095 has 118 MA's), (75, 1131), (76, 1137), (90, 1215), (96, 1239),

Gene: Trice_3 Start: 636, Stop: 863, Start Num: 62
Candidate Starts for Trice_3:
(Start: 56 @627 has 24 MA's), (Start: 62 @636 has 118 MA's), (76, 678), (77, 684), (81, 702), (90, 756), (97, 783),

Gene: TruffulaTree_7 Start: 1376, Stop: 1603, Start Num: 62
Candidate Starts for TruffulaTree_7:
(44, 1322), (Start: 56 @1367 has 24 MA's), (Start: 59 @1373 has 2 MA's), (Start: 62 @1376 has 118 MA's), (74, 1409), (76, 1418), (81, 1442), (90, 1496),

Gene: Twitch_7 Start: 1417, Stop: 1653, Start Num: 56
Candidate Starts for Twitch_7:
(44, 1372), (Start: 56 @1417 has 24 MA's), (Start: 59 @1423 has 2 MA's), (Start: 62 @1426 has 118 MA's), (74, 1459), (76, 1468), (81, 1492), (90, 1546),

Gene: Unicorn_6 Start: 1317, Stop: 1565, Start Num: 62
Candidate Starts for Unicorn_6:
(Start: 52 @1287 has 7 MA's), (Start: 62 @1317 has 118 MA's), (76, 1380), (78, 1392), (90, 1458),

Gene: Urkel_7 Start: 1355, Stop: 1582, Start Num: 62
Candidate Starts for Urkel_7:
(44, 1304), (Start: 56 @1346 has 24 MA's), (Start: 62 @1355 has 118 MA's), (76, 1397), (81, 1421), (90, 1475),

Gene: Vagabond_30 Start: 13088, Stop: 13387, Start Num: 50
Candidate Starts for Vagabond_30:
(16, 12965), (Start: 50 @13088 has 27 MA's), (Start: 52 @13097 has 7 MA's), (84, 13238), (92, 13280),

Gene: Validus_7 Start: 1356, Stop: 1592, Start Num: 56
Candidate Starts for Validus_7:
(Start: 56 @1356 has 24 MA's), (Start: 62 @1365 has 118 MA's), (76, 1407), (81, 1431), (90, 1485),

Gene: Veliki_7 Start: 1426, Stop: 1653, Start Num: 62
Candidate Starts for Veliki_7:
(44, 1372), (Start: 56 @1417 has 24 MA's), (Start: 59 @1423 has 2 MA's), (Start: 62 @1426 has 118 MA's), (74, 1459), (76, 1468), (81, 1492), (90, 1546),

Gene: ViviJ_4 Start: 869, Stop: 1096, Start Num: 69
Candidate Starts for ViviJ_4:
(24, 737), (34, 767), (46, 794), (Start: 66 @860 has 2 MA's), (67, 863), (Start: 69 @869 has 18 MA's), (72, 893), (76, 911), (81, 935), (90, 989), (107, 1058), (112, 1073),

Gene: Vorrps_29 Start: 12860, Stop: 13159, Start Num: 50
Candidate Starts for Vorrps_29:
(21, 12782), (Start: 50 @12860 has 27 MA's), (Start: 52 @12869 has 7 MA's), (84, 13010), (92, 13052),

Gene: Waterfoul_5 Start: 1127, Stop: 1354, Start Num: 69
Candidate Starts for Waterfoul_5:
(Start: 69 @1127 has 18 MA's), (73, 1157), (76, 1169), (81, 1193), (90, 1247),

Gene: Wendigo_1 Start: 43, Stop: 387, Start Num: 26
Candidate Starts for Wendigo_1:
(Start: 26 @43 has 49 MA's), (Start: 27 @46 has 23 MA's), (68, 148), (81, 217), (89, 268),

Gene: Wildflower_30 Start: 12855, Stop: 13154, Start Num: 50
Candidate Starts for Wildflower_30:
(21, 12777), (Start: 50 @12855 has 27 MA's), (Start: 52 @12864 has 7 MA's), (84, 13005), (92, 13047),

Gene: Winget_30 Start: 13096, Stop: 13386, Start Num: 52
Candidate Starts for Winget_30:
(16, 12964), (Start: 50 @13087 has 27 MA's), (Start: 52 @13096 has 7 MA's), (84, 13237), (92, 13279),

Gene: Wintermute_8 Start: 2220, Stop: 2492, Start Num: 54
Candidate Starts for Wintermute_8:
(Start: 26 @2133 has 49 MA's), (35, 2157), (Start: 54 @2220 has 23 MA's), (73, 2289), (74, 2292), (78, 2313), (104, 2439),

Gene: Wogge42_29 Start: 13177, Stop: 13476, Start Num: 50
Candidate Starts for Wogge42_29:
(16, 13054), (Start: 50 @13177 has 27 MA's), (Start: 52 @13186 has 7 MA's), (84, 13327), (92, 13369),

Gene: Ximenita_7 Start: 1459, Stop: 1707, Start Num: 62
Candidate Starts for Ximenita_7:
(Start: 52 @1429 has 7 MA's), (Start: 62 @1459 has 118 MA's), (76, 1522), (78, 1534), (90, 1600),

Gene: Y10_08 Start: 2221, Stop: 2493, Start Num: 54
Candidate Starts for Y10_08:

(Start: 26 @2134 has 49 MA's), (35, 2158), (Start: 54 @2221 has 23 MA's), (73, 2290), (74, 2293), (78, 2314), (85, 2356), (104, 2440),

Gene: Y2_08 Start: 2221, Stop: 2493, Start Num: 54
Candidate Starts for Y2_08:
(Start: 26 @2134 has 49 MA's), (35, 2158), (Start: 54 @2221 has 23 MA's), (73, 2290), (74, 2293), (78, 2314), (85, 2356), (104, 2440),

Gene: YangYin_1 Start: 52, Stop: 372, Start Num: 32
Candidate Starts for YangYin_1:
(Start: 32 @52 has 9 MA's), (68, 136), (76, 181), (81, 205), (89, 256), (103, 310),

Gene: YasnayaPolyana_8 Start: 2221, Stop: 2493, Start Num: 54
Candidate Starts for YasnayaPolyana_8:
(Start: 26 @2134 has 49 MA's), (35, 2158), (Start: 54 @2221 has 23 MA's), (73, 2290), (74, 2293), (78, 2314), (85, 2356), (104, 2440),

Gene: YoureAdopted_6 Start: 1352, Stop: 1579, Start Num: 62
Candidate Starts for YoureAdopted_6:
(44, 1298), (Start: 56 @1343 has 24 MA's), (Start: 59 @1349 has 2 MA's), (Start: 62 @1352 has 118 MA's), (74, 1385), (76, 1394), (81, 1418), (90, 1472),

Gene: YoyoKar_28 Start: 12831, Stop: 13121, Start Num: 52
Candidate Starts for YoyoKar_28:
(16, 12699), (Start: 50 @12822 has 27 MA's), (Start: 52 @12831 has 7 MA's), (84, 12972), (92, 13014),

Gene: Yuna_7 Start: 1452, Stop: 1679, Start Num: 62
Candidate Starts for Yuna_7:
(Start: 62 @1452 has 118 MA's), (76, 1494), (81, 1518), (90, 1572),

Gene: YungJamal_32 Start: 13159, Stop: 13449, Start Num: 52
Candidate Starts for YungJamal_32:
(21, 13072), (Start: 50 @13150 has 27 MA's), (Start: 52 @13159 has 7 MA's), (84, 13300), (92, 13342),

Gene: Yunkel11_7 Start: 1376, Stop: 1603, Start Num: 62
Candidate Starts for Yunkel11_7:
(41, 1313), (Start: 56 @1367 has 24 MA's), (Start: 62 @1376 has 118 MA's), (81, 1442), (90, 1496),

Gene: Zabiza_7 Start: 1367, Stop: 1603, Start Num: 56
Candidate Starts for Zabiza_7:
(Start: 56 @1367 has 24 MA's), (Start: 59 @1373 has 2 MA's), (Start: 62 @1376 has 118 MA's), (74, 1409), (76, 1418), (81, 1442), (90, 1496),

Gene: Zakhe101_30 Start: 13000, Stop: 13299, Start Num: 50
Candidate Starts for Zakhe101_30:
(21, 12922), (Start: 50 @13000 has 27 MA's), (Start: 52 @13009 has 7 MA's), (84, 13150), (92, 13192),

Gene: Zavala_7 Start: 1352, Stop: 1588, Start Num: 56
Candidate Starts for Zavala_7:
(44, 1307), (Start: 56 @1352 has 24 MA's), (Start: 59 @1358 has 2 MA's), (Start: 62 @1361 has 118 MA's), (74, 1394), (76, 1403), (81, 1427), (90, 1481),

Gene: Zebo_29 Start: 12821, Stop: 13120, Start Num: 50

Candidate Starts for Zebo_29:
(16, 12698), (Start: 50 @12821 has 27 MA's), (Start: 52 @12830 has 7 MA's), (84, 12971), (92, 13013),

Gene: ZoMa_1 Start: 43, Stop: 387, Start Num: 26
Candidate Starts for ZoMa_1:
(Start: 26 @43 has 49 MA's), (Start: 27 @46 has 23 MA's), (68, 148), (81, 217), (89, 268),

Gene: ZoeJ_3 Start: 426, Stop: 674, Start Num: 60
Candidate Starts for ZoeJ_3:
(Start: 60 @426 has 11 MA's), (76, 489), (78, 501), (81, 513), (90, 567),

Gene: Zombie_1 Start: 43, Stop: 387, Start Num: 26
Candidate Starts for Zombie_1:
(Start: 26 @43 has 49 MA's), (Start: 27 @46 has 23 MA's), (68, 148), (81, 217), (89, 268),