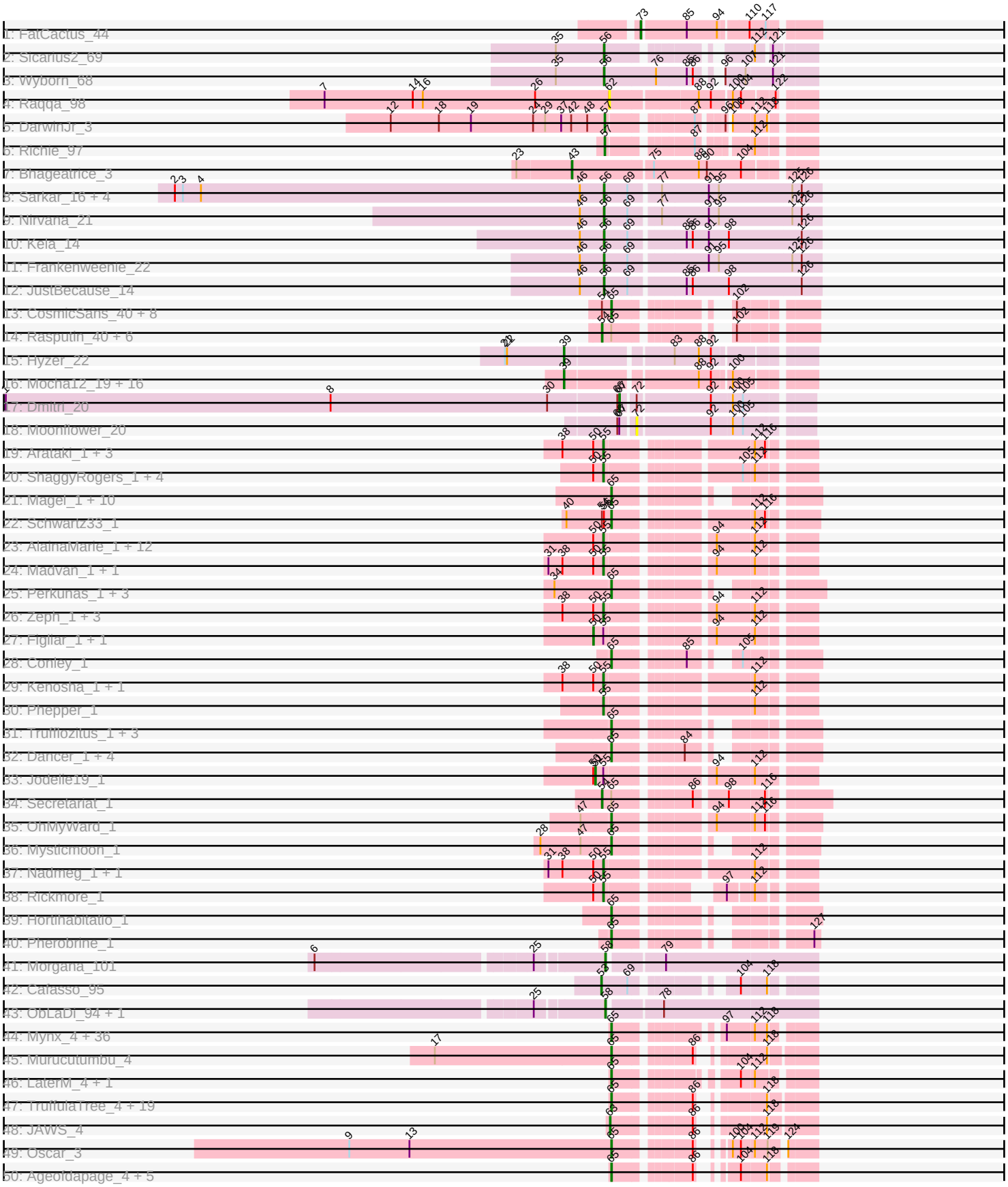
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1: FatCactus_44
2: Sicarius2_69
3: Wyborn_68
4: Raqqa_98
5: DarwinJr_3
6: Richie_97
7: Bhageatrice_3
8: Sarkar_16 + 4
9: Nirvana_21
10: Kela_14
11: Frankenweenie_22
12: JustBecause_14
13: CosmicSans_40 + 8
14: Rasputin_40 + 6
15: Hyzer_22
16: Mocha12_19 + 16
17: Dmitri_20
18: Moonflower_20
19: Arataki_1 + 3
20: ShaggyRogers_1 + 4
21: Magel_1 + 10
22: Schwartz33_1
23: AlainaMarie_1 + 12
24: Madvan_1 + 1
25: Perkunas_1 + 3
26: Zeph_1 + 3
27: Figliar_1 + 1
28: Conley_1
29: Kenosha_1 + 1
30: Phepper_1
31: Trumlozitus_1 + 3
32: Dancer_1 + 4
33: Jodelle19_1
34: Secretariat_1
35: OhMyWard_1
36: Mysticmoon_1
37: Nadmeg_1 + 1
38: Rickmore_1
39: Hortihabitatio_1
40: Pherobrine_1
41: Morgana_101
42: Calasso_95
43: ObLaDi_94 + 1
44: Mynx_4 + 36
45: Mururutumbu_4
46: LaterM_4 + 1
47: TrumulaTree_4 + 19
48: JAWS_4
49: Oscar_3
50: Ageoldapage_4 + 5

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51: Megsy_4 + 4
52: Devera_4 + 2
53: Adonis_4 + 1
54: Chavito_4
55: Curiosium_5
56: Dartin_4 + 5
57: Anaya_4
58: Urkel_4 + 4
59: Scarlett_3 + 1
60: Chris_3
61: MarkPhew_3
62: Emerson_4 + 2
63: Validus_3
64: Guanica15_4 + 1
65: KISI_3
66: Nibb_3
67: Elra2_4
68: CrimD_4
69: LastHope_4
70: TingHuaYa_4
71: Pharb_2
72: TribleTrouble_2
73: MachCheese_2
74: Keshu_2
75: Pixie_2 + 1
76: Hurricane_2
77: Edugator_3 + 3
78: LilDirt_2 + 3
79: Agent47_3 + 1
80: Waterfoul_3 + 2
81: DoubleChamp_3
82: Collard_3 + 1
83: Rando14_3
84: Gengar_3
85: Gullsminger_3 + 5
86: Leston_3
87: Omnicron_3
88: Bryler_3 + 3
89: Yuna_4
90: DarthP_2 + 1
91: November_2
92: Applecrisp_3 + 6
93: Unicorn_3 + 1
94: Ekdilam_2
95: Hammy_2
96: VanLee_69
97: Colossa_69
98: Crossroads_109 + 1
99: Baoshan_107
100: DyoEdafos_114

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101: Douzhi_111 + 5
102: FarmResident_113
103: Kropertea_106
104: Sheng711_114
105: BrainDrainer_113
106: ChutneyChips_112
107: Reindeer_91
108: KleverKIS_90 + 1
109: RoseMarie_97
110: Estes_101
111: Rey_102
112: GardenSalsa_101 + 1
113: Nanosmite_96
114: Kromp_23
115: Kromp_24

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 347163 Report

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

Pham number 347163 has 312 members, 29 are drafts.

Phages represented in each track:
• Track 1 : FatCactus_44
• Track 2 : Sicarius2_69
• Track 3 : Wyborn_68
• Track 4 : Raqqa_98
• Track 5 : DarwinJr_3
• Track 6 : Richie_97
• Track 7 : Bhageatrice_3
• Track 8 : Sarkar_16, Quantum_15, EhyElimayoE_16, Satis_16, Kradal_16
• Track 9 : Nirvana_21
• Track 10 : Kela_14
• Track 11 : Frankenweenie_22
• Track 12 : JustBecause_14
• Track 13 : CosmicSans_40, Rhodalysa_40, BobbyDazzler_40, Krishelle_40, Lillie_40, Bonanza_40, RER2_33, Hiro_40, TWAMP_40
• Track 14 : Rasputin_40, Bradshaw_40, Gollum_40, Phrankenstein_40, PhailMary_39, Swann_40, Alpacados_39
• Track 15 : Hyzer_22
• Track 16 : Mocha12_19, Gizermo_19, Attis_19, Whiteclaw_19, SoilAssassin_19, Clap_19, GemG_19, TuertoX_19, Sproutie_19, Haley23_19, Savage_19, Bjanes7_19, Cynthia_19, Ebert_19, Yinzer_19, Yeet412_19, LordFarquaad_19
• Track 17 : Dmitri_20
• Track 18 : Moonflower_20
• Track 19 : Arataki_1, CWormy_1, Dialga_1, Demure_1
• Track 20 : ShaggyRogers_1, BetterYeti_1, PestoPenguin_1, Gusicorn_1, Aloe25_1
• Track 21 : Magel_1, Capybara_1, ChickyNuggy_1, NoPickles_1, Gravy_1, Odesza_1, Gill_1, Roney_1, Tanis_1, Kerry_1, Football_1
• Track 22 : Schwartz33_1
• Track 23 : AlainaMarie_1, Citrus_1, MajinBuu_1, Aflac_1, BluerMoon_1, EndAve_1, Chikenjars_1, Glintora_1, Duffington_1, Luthien_1, Tonaltzin_1, OlgasClover_1, TenaciousP_1
• Track 24 : Madvan_1, Runhaar_1
• Track 25 : Perkunas_1, Talon44_1, Petito_1, SweetCrkHerbs_1
• Track 26 : Zeph_1, Eddiemania_1, Hydrus_1, Vardy_1
• Track 27 : Figliar_1, Nithya_1
• Track 28 : Conley_1
• Track 29 : Kenosha_1, ArtetaBall_1
• Track 30 : Phepper_1

• Track 31 : Trufflozitus_1, Captrips_1, Tairn4Wing_1, Avazak_1
• Track 32 : Dancer_1, Bugg_1, Artorias_1, JulesRay_1, FortCran_1
• Track 33 : Jodelie19_1
• Track 34 : Secretariat_1
• Track 35 : OhMyWard_1
• Track 36 : Mysticmoon_1
• Track 37 : Nadmeg_1, Burley_1
• Track 38 : Rickmore_1
• Track 39 : Hortihabitatio_1
• Track 40 : Pherobrine_1
• Track 41 : Morgana_101
• Track 42 : Cafasso_95
• Track 43 : ObLaDi_94, Aleemily_93
• Track 44 : Mynx_4, Atiba_4, Durfee_4, Boiiii_4, Blizzard_4, Homura_4, Clipper_4, Padfoot_4, BGlluviae_4, CheetoDust_4, Twitch_4, Ganymede_4, Piatt_4, Veliki_4, Lunahalos_4, Dalmuri_4, Belladonna_4, ShiaSurprise_4, QuincyRose_4, Jarvi_4, Llorens_4, Topper_4, Asayake_4, BEEST_4, Hyperbowlee_4, Zavala_4, Jeckyll_4, Capricorn_4, Rosmarinus_4, Spock_4, Peel_4, Tachez_4, MacKat_4, CREW_4, Lokum_4, CaseJules_4, Inky_4
• Track 45 : Murucutumbu_4
• Track 46 : LaterM_4, Stinson_4
• Track 47 : TruffulaTree_4, BarrelRoll_4, Bella96_4, DartGoblin_4, Adephagia_4, Joy99_4, Slimphazie_4, CallaLilly_4, ActinUp_4, Apocalypse_4, Zabiza_4, BaghaKamala_4, Kheparia_4, Bern_4, YoureAdopted_4, HedwigODU_4, MeaningOfLife_4, Ramen_4, Jayhawk_4, Rapunzel97_4
• Track 48 : JAWS_4
• Track 49 : Oscar_3
• Track 50 : Ageofdapage_4, Beezoo_4, Angelica_4, Pokerus_4, Deby_4, Sulley_4
• Track 51 : Megsy_4, Prithvi_4, LindNT_4, TaiwanKao_4, TreyKay_4
• Track 52 : Devera_4, Dole_4, Illumine_4
• Track 53 : Adonis_4, Tiri_4
• Track 54 : Chavito_4
• Track 55 : Curiosium_5
• Track 56 : Dartin_4, Shaobing_4, Niklas_4, Peanam_4, Richo_4, McMater_4
• Track 57 : Anaya_4
• Track 58 : Urkel_4, DrHayes_4, Anma_4, TiniBug_4, SamuelLPlaqson_4
• Track 59 : Scarlett_3, LeMond_3
• Track 60 : Chris_3
• Track 61 : MarkPhew_3
• Track 62 : Emerson_4, Padpat_4, AlishaPH_4
• Track 63 : Validus_3
• Track 64 : Guanica15_4, Yunkel11_4
• Track 65 : KiSi_3
• Track 66 : Nibb_3
• Track 67 : Efra2_4
• Track 68 : CrimD_4
• Track 69 : LastHope_4
• Track 70 : TingHuaYa_4
• Track 71 : Pharb_2
• Track 72 : TribleTrouble_2
• Track 73 : MacnCheese_2
• Track 74 : Keshu_2
• Track 75 : Pixie_2, TBond007_2

• Track 76 : Hurricane_2
• Track 77 : Edugator_3, Dadosky_3, AlleyCat_3, Psycho_3
• Track 78 : LilDirt_2, ViviJ_2, Neighly_3, Kratio_2
• Track 79 : Agent47_3, InvictusManeo_3
• Track 80 : Waterfoul_3, SoSeph_3, Heftyboy_3
• Track 81 : DoubleChamp_3
• Track 82 : Collard_3, BananenDer11_3
• Track 83 : Rando14_3
• Track 84 : Gengar_3
• Track 85 : Guillsminger_3, Thyatira_3, Feyre_3, Miryou_3, OkiRoe_3, Paola_3
• Track 86 : Leston_3
• Track 87 : Omnicron_3
• Track 88 : Bryler_3, Phrank_3, Tierra_3, Cain_3
• Track 89 : Yuna_4
• Track 90 : DarthP_2, Amohnition_2
• Track 91 : November_2
• Track 92 : Applecrisp_3, Ellie_2, ShedlockHolmes_2, Fefferhead_2, Lea83_2, Lavahound_2, Amgine_2
• Track 93 : Unicorn_3, PhelpsODU_3
• Track 94 : Ekdilam_2
• Track 95 : Hammy_2
• Track 96 : VanLee_69
• Track 97 : Colossa_69
• Track 98 : Crossroads_109, MkaliMitinis3_109
• Track 99 : Baoshan_107
• Track 100 : DyoEdafos_114
• Track 101 : Douzhi_111, PYPDinur_112, Chaser_110, Bromden_112, Quby_111, Douge_111
• Track 102 : FarmResident_113
• Track 103 : Kropertea_106
• Track 104 : Sheng711_114
• Track 105 : BrainDrainer_113
• Track 106 : ChutneyChips_112
• Track 107 : Reindeer_91
• Track 108 : KleverKiS_90, SlimJimmy_90
• Track 109 : RoseMarie_97
• Track 110 : Estes_101
• Track 111 : Rey_102
• Track 112 : GardenSalsa_101, MrMagoo_102
• Track 113 : Nanosmite_96
• Track 114 : Kromp_23
• Track 115 : Kromp_24

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

The start number called the most often in the published annotations is 65, it was called in 184 of the 283 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

• ActinUp_4, Adephagia_4, Adonis_4, Agent47_3, Ageofdapage_4, AlishaPH_4, AlleyCat_3, Amgine_2, Amohnition_2, Anaya_4, Angelica_4, Anma_4, Apocalypse_4, Applecrisp_3, Artorias_1, Asayake_4, Atiba_4, Avazak_1, BEEST_4, BGlluviae_4, BaghaKamala_4, BananenDer11_3, BarrelRoll_4, Beezoo_4, Bella96_4, Belladonna_4, Bern_4, Blizzard_4, BobbyDazzler_40, Boiiii_4, Bonanza_40, Bryler_3, Bugg_1, CREW_4, Cain_3, CallaLilly_4, Capricorn_4, Captrips_1, Capybara_1, CaseJules_4, Chavito_4, CheetoDust_4, ChickyNuggy_1, Chris_3, Clipper_4, Collard_3, Conley_1, CosmicSans_40, CrimD_4, Curiosium_5, Dadosky_3, Dalmuri_4, Dancer_1, DartGoblin_4, DarthP_2, Dartin_4, Deby_4, Devera_4, Dole_4, DrHayes_4, Durfee_4, Edugator_3, Efra2_4, Ekdilam_2, Ellie_2, Emerson_4, Fefferhead_2, Feyre_3, Football_1, FortCran_1, Ganymede_4, Gengar_3, Gill_1, Gravy_1, Guanica15_4, Guillsminger_3, Hammy_2, HedwigODU_4, Heftyboy_3, Hiro_40, Homura_4, Hortihabitatio_1, Hurricane_2, Hyperbowlee_4, Illumine_4, Inky_4, InvictusManeo_3, Jarvi_4, Jayhawk_4, Jeckyll_4, Joy99_4, JulesRay_1, Kerry_1, Keshu_2, Kheparia_4, KiSi_3, KleverKiS_90, Krishelle_40, LastHope_4, LaterM_4, Lavahound_2, LeMond_3, Lea83_2, Leston_3, Lillie_40, LindNT_4, Llorens_4, Lokum_4, Lunahalos_4, MacKat_4, MacnCheese_2, Magel_1, MarkPhew_3, McMater_4, MeaningOfLife_4, Megsy_4, Miryou_3, Murucutumbu_4, Mynx_4, Mysticmoon_1, Nanosmite_96, Nibb_3, Niklas_4, NoPickles_1, November_2, Odesza_1, OhMyWard_1, OkiRoe_3, Omnicron_3, Oscar_3, Padfoot_4, Padpat_4, Paola_3, Peanam_4, Peel_4, Perkunas_1, Petito_1, Pharb_2, PhelpsODU_3, Pherobrine_1, Phrank_3, Piatt_4, Pixie_2, Pokerus_4, Prithvi_4, Psycho_3, QuincyRose_4, RER2_33, Ramen_4, Rando14_3, Rapunzel97_4, Reindeer_91, Rhodalysa_40, Richo_4, Roney_1, RoseMarie_97, Rosmarinus_4, SamuelLPlaqson_4, Scarlett_3, Schwartz33_1, Shaobing_4, ShedlockHolmes_2, ShiaSurprise_4, SlimJimmy_90, Slimphazie_4, SoSeph_3, Spock_4, Stinson_4, Sulley_4, SweetCrkHerbs_1, TBond007_2, TWAMP_40, Tachez_4, Tairn4Wing_1, TaiwanKao_4, Talon44_1, Tanis_1, Thyatira_3, Tierra_3, TingHuaYa_4, TiniBug_4, Tiri_4, Topper_4, TreyKay_4, TribleTrouble_2, Trufflozitus_1, TruffulaTree_4, Twitch_4, Unicorn_3, Urkel_4, Validus_3, Veliki_4, Waterfoul_3, YoureAdopted_4, Yunkel11_4, Zabiza_4, Zavala_4,

Genes that have the "Most Annotated" start but do not call it:
• Alpacados_39, Bradshaw_40, DoubleChamp_3, Gollum_40, PhailMary_39, Phrankenstein_40, Rasputin_40, Secretariat_1, Swann_40,

Genes that do not have the "Most Annotated" start:
• Aflac_1, AlainaMarie_1, Aleemily_93, Aloe25_1, Arataki_1, ArtetaBall_1, Attis_19, Baoshan_107, BetterYeti_1, Bhageatrice_3, Bjanes7_19, BluerMoon_1, BrainDrainer_113, Bromden_112, Burley_1, CWormy_1, Cafasso_95, Chaser_110, Chikenjars_1, ChutneyChips_112, Citrus_1, Clap_19, Colossa_69, Crossroads_109, Cynthia_19, DarwinJr_3, Demure_1, Dialga_1, Dmitri_20, Douge_111, Douzhi_111, Duffington_1, DyoEdafos_114, Ebert_19, Eddiemania_1, EhyElimayoE_16, EndAve_1, Estes_101, FarmResident_113, FatCactus_44, Figliar_1, Frankenweenie_22, GardenSalsa_101, GemG_19, Gizermo_19, Glintora_1, Gusicorn_1, Haley23_19, Hydrus_1, Hyzer_22, JAWS_4, Jodelie19_1, JustBecause_14, Kela_14, Kenosha_1, Kradal_16, Kratio_2, Kromp_23, Kromp_24, Kropertea_106, LilDirt_2, LordFarquaad_19, Luthien_1, Madvan_1, MajinBuu_1, MkaliMitinis3_109, Mocha12_19, Moonflower_20, Morgana_101, MrMagoo_102, Nadmeg_1, Neighly_3, Nirvana_21, Nithya_1, ObLaDi_94, OlgasClover_1, PYPDinur_112, PestoPenguin_1, Phepper_1, Quantum_15, Quby_111, Raqqa_98, Rey_102, Richie_97, Rickmore_1, Runhaar_1, Sarkar_16, Satis_16, Savage_19, ShaggyRogers_1, Sheng711_114, Sicarius2_69, SoilAssassin_19, Sproutie_19,

TenaciousP_1, Tonaltzin_1, TuertoX_19, VanLee_69, Vardy_1, ViviJ_2, Whiteclaw_19, Wyborn_68, Yeet412_19, Yinzer_19, Yuna_4, Zeph_1,

Summary by start number:

Start 39:
• Found in 27 of 312 (8.7%) of genes in pham
• Manual Annotations of this start: 17 of 283
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Attis_19 (CZ2), Bjanes7_19 (CZ2), Clap_19 (CZ2), Cynthia_19 (CZ2), Ebert_19 (CZ2), GemG_19 (CZ2), Gizermo_19 (CZ2), Haley23_19 (CZ2), Hyzer_22 (CZ1), LordFarquaad_19 (CZ2), Mocha12_19 (CZ2), Savage_19 (CZ2), SoilAssassin_19 (CZ2), Sproutie_19 (CZ2), TuertoX_19 (CZ2), Whiteclaw_19 (CZ2), Yeet412_19 (CZ2), Yinzer_19 (CZ2),

Start 43:
• Found in 1 of 312 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 283
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bhageatrice_3 (AY),

Start 50:
• Found in 36 of 312 (11.5%) of genes in pham
• Manual Annotations of this start: 2 of 283
• Called 5.6% of time when present
• Phage (with cluster) where this start called: Figliar_1 (DJ), Nithya_1 (DJ),

Start 51:
• Found in 1 of 312 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 283
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Jodelie19_1 (DJ),

Start 53:
• Found in 1 of 312 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 283
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Cafasso_95 (DZ),

Start 54:
• Found in 32 of 312 (10.3%) of genes in pham
• Manual Annotations of this start: 13 of 283
• Called 56.2% of time when present
• Phage (with cluster) where this start called: Alpacados_39 (CA), Bradshaw_40 (CA), Bromden_112 (L4), Chaser_110 (L4), ChutneyChips_112 (L4), Douge_111 (L4), Douzhi_111 (L4), FarmResident_113 (L4), Gollum_40 (CA), Kropertea_106 (L4), PYPDinur_112 (L4), PhailMary_39 (CA), Phrankenstein_40 (CA), Quby_111 (L4), Rasputin_40 (CA), Secretariat_1 (DJ), Sheng711_114 (L4), Swann_40 (CA),

Start 55:
• Found in 38 of 312 (12.2%) of genes in pham
• Manual Annotations of this start: 30 of 283
• Called 92.1% of time when present

• Phage (with cluster) where this start called: Aflac_1 (DJ), AlainaMarie_1 (DJ), Aloe25_1 (DJ), Arataki_1 (DJ), ArtetaBall_1 (DJ), BetterYeti_1 (DJ), BluerMoon_1 (DJ), Burley_1 (DJ), CWormy_1 (DJ), Chikenjars_1 (DJ), Citrus_1 (DJ), Demure_1 (DJ), Dialga_1 (DJ), Duffington_1 (DJ), Eddiemania_1 (DJ), EndAve_1 (DJ), Glintora_1 (DJ), Gusicorn_1 (DJ), Hydrus_1 (DJ), Kenosha_1 (DJ), Kromp_23 (singleton), Luthien_1 (DJ), Madvan_1 (DJ), MajinBuu_1 (DJ), Nadmeg_1 (DJ), OlgasClover_1 (DJ), PestoPenguin_1 (DJ), Phepper_1 (DJ), Rickmore_1 (DJ), Runhaar_1 (DJ), ShaggyRogers_1 (DJ), TenaciousP_1 (DJ), Tonaltzin_1 (DJ), Vardy_1 (DJ), Zeph_1 (DJ),

Start 56:
• Found in 12 of 312 (3.8%) of genes in pham
• Manual Annotations of this start: 11 of 283
• Called 91.7% of time when present
• Phage (with cluster) where this start called: EhyElimayoE_16 (BM), Frankenweenie_22 (BM), JustBecause_14 (BM), Kela_14 (BM), Kradal_16 (BM), Nirvana_21 (BM), Quantum_15 (BM), Sarkar_16 (BM), Satis_16 (BM), Sicarius2_69 (AO2), Wyborn_68 (AO2),

Start 57:
• Found in 3 of 312 (1.0%) of genes in pham
• Manual Annotations of this start: 3 of 283
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Baoshan_107 (L2), DarwinJr_3 (AY), Richie_97 (AY),

Start 58:
• Found in 3 of 312 (1.0%) of genes in pham
• Manual Annotations of this start: 3 of 283
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Aleemily_93 (DZ), Morgana_101 (DZ), ObLaDi_94 (DZ),

Start 59:
• Found in 1 of 312 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 283
• Called 100.0% of time when present
• Phage (with cluster) where this start called: VanLee_69 (KA),

Start 60:
• Found in 1 of 312 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 283
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Colossa_69 (KA),

Start 61:
• Found in 1 of 312 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 283
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Yuna_4 (K6),

Start 62:
• Found in 5 of 312 (1.6%) of genes in pham

• Manual Annotations of this start: 3 of 283
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Kratio_2 (K5), LilDirt_2 (K5), Neighly_3 (K3), Raqqa_98 (AY), ViviJ_2 (K5),

Start 63:
• Found in 1 of 312 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 283
• Called 100.0% of time when present
• Phage (with cluster) where this start called: JAWS_4 (K1),

Start 64:
• Found in 4 of 312 (1.3%) of genes in pham
• Manual Annotations of this start: 4 of 283
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Estes_101 (M2), GardenSalsa_101 (M2), MrMagoo_102 (M2), Rey_102 (M2),

Start 65:
• Found in 206 of 312 (66.0%) of genes in pham
• Manual Annotations of this start: 184 of 283
• Called 95.6% of time when present
• Phage (with cluster) where this start called: ActinUp_4 (K1), Adephagia_4 (K1), Adonis_4 (K1), Agent47_3 (K5), Ageofdapage_4 (K1), AlishaPH_4 (K1), AlleyCat_3 (K5), Amgine_2 (K6), Amohnition_2 (K6), Anaya_4 (K1), Angelica_4 (K1), Anma_4 (K1), Apocalypse_4 (K1), Applecrisp_3 (K6), Artorias_1 (DJ), Asayake_4 (K1), Atiba_4 (K1), Avazak_1 (DJ), BEEST_4 (K1), BGlluviae_4 (K1), BaghaKamala_4 (K1), BananenDer11_3 (K5), BarrelRoll_4 (K1), Beezoo_4 (K1), Bella96_4 (K1), Belladonna_4 (K1), Bern_4 (K1), Blizzard_4 (K1), BobbyDazzler_40 (CA), Boiiii_4 (K1), Bonanza_40 (CA), Bryler_3 (K6), Bugg_1 (DJ), CREW_4 (K1), Cain_3 (K6), CallaLilly_4 (K1), Capricorn_4 (K1), Captrips_1 (DJ), Capybara_1 (DJ), CaseJules_4 (K1), Chavito_4 (K1), CheetoDust_4 (K1), ChickyNuggy_1 (DJ), Chris_3 (K1), Clipper_4 (K1), Collard_3 (K5), Conley_1 (DJ), CosmicSans_40 (CA), CrimD_4 (K1), Curiosium_5 (K1), Dadosky_3 (K5), Dalmuri_4 (K1), Dancer_1 (DJ), DartGoblin_4 (K1), DarthP_2 (K6), Dartin_4 (K1), Deby_4 (K1), Devera_4 (K1), Dole_4 (K1), DrHayes_4 (K1), Durfee_4 (K1), Edugator_3 (K5), Efra2_4 (K1), Ekdilam_2 (K6), Ellie_2 (K6), Emerson_4 (K1), Fefferhead_2 (K6), Feyre_3 (K5), Football_1 (DJ), FortCran_1 (DJ), Ganymede_4 (K1), Gengar_3 (K5), Gill_1 (DJ), Gravy_1 (DJ), Guanica15_4 (K1), Guillsminger_3 (K5), Hammy_2 (K6), HedwigODU_4 (K1), Heftyboy_3 (K5), Hiro_40 (CA), Homura_4 (K1), Hortihabitatio_1 (DJ), Hurricane_2 (K3), Hyperbowlee_4 (K1), Illumine_4 (K1), Inky_4 (K1), InvictusManeo_3 (K5), Jarvi_4 (K1), Jayhawk_4 (K1), Jeckyll_4 (K1), Joy99_4 (K1), JulesRay_1 (DJ), Kerry_1 (DJ), Keshu_2 (K3), Kheparia_4 (K1), KiSi_3 (K1), KleverKiS_90 (M1), Krishelle_40 (CA), LastHope_4 (K1), LaterM_4 (K1), Lavahound_2 (K6), LeMond_3 (K1), Lea83_2 (K3), Leston_3 (K5), Lillie_40 (CA), LindNT_4 (K1), Llorens_4 (K1), Lokum_4 (K1), Lunahalos_4 (K1), MacKat_4 (K1), MacnCheese_2 (K3), Magel_1 (DJ), MarkPhew_3 (K1), McMater_4 (K1), MeaningOfLife_4 (K1), Megsy_4 (K1), Miryou_3 (K5), Murucutumbu_4 (K1), Mynx_4 (K1), Mysticmoon_1 (DJ), Nanosmite_96 (M3), Nibb_3 (K1), Niklas_4 (K1), NoPickles_1 (DJ), November_2 (K6), Odesza_1 (DJ), OhMyWard_1 (DJ), OkiRoe_3 (K5), Omnicron_3 (K5), Oscar_3 (K1), Padfoot_4 (K1), Padpat_4 (K1), Paola_3 (K5), Peanam_4 (K1), Peel_4 (K1), Perkunas_1 (DJ), Petito_1 (DJ), Pharb_2 (K3), PhelpsODU_3 (K6), Pherobrine_1 (DJ), Phrank_3 (K6), Piatt_4 (K1), Pixie_2 (K3), Pokerus_4 (K1), Prithvi_4 (K1),

Psycho_3 (K5), QuincyRose_4 (K1), RER2_33 (CA), Ramen_4 (K1), Rando14_3 (K5), Rapunzel97_4 (K1), Reindeer_91 (M1), Rhodalysa_40 (CA), Richo_4 (K1), Roney_1 (DJ), RoseMarie_97 (M1), Rosmarinus_4 (K1), SamuelLPlaqson_4 (K1), Scarlett_3 (K1), Schwartz33_1 (DJ), Shaobing_4 (K1), ShedlockHolmes_2 (K3), ShiaSurprise_4 (K1), SlimJimmy_90 (M1), Slimphazie_4 (K1), SoSeph_3 (K5), Spock_4 (K1), Stinson_4 (K1), Sulley_4 (K1), SweetCrkHerbs_1 (DJ), TBond007_2 (K3), TWAMP_40 (CA), Tachez_4 (K1), Tairn4Wing_1 (DJ), TaiwanKao_4 (K1), Talon44_1 (DJ), Tanis_1 (DJ), Thyatira_3 (K5), Tierra_3 (K6), TingHuaYa_4 (K1), TiniBug_4 (K1), Tiri_4 (K1), Topper_4 (K1), TreyKay_4 (K1), TribleTrouble_2 (K3), Trufflozitus_1 (DJ), TruffulaTree_4 (K1), Twitch_4 (K1), Unicorn_3 (K6), Urkel_4 (K1), Validus_3 (K1), Veliki_4 (K1), Waterfoul_3 (K5), YoureAdopted_4 (K1), Yunkel11_4 (K1), Zabiza_4 (K1), Zavala_4 (K1),

Start 67:
• Found in 2 of 312 (0.6%) of genes in pham
• Manual Annotations of this start: 1 of 283
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Dmitri_20 (DB),

Start 68:
• Found in 18 of 312 (5.8%) of genes in pham
• No Manual Annotations of this start.
• Called 5.6% of time when present
• Phage (with cluster) where this start called: DoubleChamp_3 (K5),

Start 69:
• Found in 53 of 312 (17.0%) of genes in pham
• Manual Annotations of this start: 3 of 283
• Called 7.5% of time when present
• Phage (with cluster) where this start called: BrainDrainer_113 (L4), Crossroads_109 (L2), DyoEdafos_114 (L4), MkaliMitinis3_109 (L2),

Start 72:
• Found in 3 of 312 (1.0%) of genes in pham
• No Manual Annotations of this start.
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Moonflower_20 (DB),

Start 73:
• Found in 1 of 312 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 283
• Called 100.0% of time when present
• Phage (with cluster) where this start called: FatCactus_44 (A20),

Start 128:
• Found in 1 of 312 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 283
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Kromp_24 (singleton),

Summary by clusters:

There are 21 clusters represented in this pham: A20, singleton, DJ, M3, CZ2, BM, CA, CZ1, DB, L4, K3, K1, L2, K6, K5, M2, AY, M1, DZ, KA, AO2,

Info for manual annotations of cluster A20:
•Start number 73 was manually annotated 1 time for cluster A20.

Info for manual annotations of cluster AO2:
•Start number 56 was manually annotated 2 times for cluster AO2.

Info for manual annotations of cluster AY:
•Start number 43 was manually annotated 1 time for cluster AY.
•Start number 57 was manually annotated 2 times for cluster AY.

Info for manual annotations of cluster BM:
•Start number 56 was manually annotated 9 times for cluster BM.

Info for manual annotations of cluster CA:
•Start number 54 was manually annotated 7 times for cluster CA.
•Start number 65 was manually annotated 8 times for cluster CA.

Info for manual annotations of cluster CZ1:
•Start number 39 was manually annotated 1 time for cluster CZ1.

Info for manual annotations of cluster CZ2:
•Start number 39 was manually annotated 16 times for cluster CZ2.

Info for manual annotations of cluster DB:
•Start number 67 was manually annotated 1 time for cluster DB.

Info for manual annotations of cluster DJ:
•Start number 50 was manually annotated 2 times for cluster DJ.
•Start number 51 was manually annotated 1 time for cluster DJ.
•Start number 54 was manually annotated 1 time for cluster DJ.
•Start number 55 was manually annotated 29 times for cluster DJ.
•Start number 65 was manually annotated 25 times for cluster DJ.

Info for manual annotations of cluster DZ:
•Start number 53 was manually annotated 1 time for cluster DZ.
•Start number 58 was manually annotated 3 times for cluster DZ.

Info for manual annotations of cluster K1:
•Start number 63 was manually annotated 1 time for cluster K1.
•Start number 65 was manually annotated 102 times for cluster K1.

Info for manual annotations of cluster K3:
•Start number 65 was manually annotated 9 times for cluster K3.

Info for manual annotations of cluster K5:
•Start number 62 was manually annotated 3 times for cluster K5.
•Start number 65 was manually annotated 21 times for cluster K5.

Info for manual annotations of cluster K6:
•Start number 61 was manually annotated 1 time for cluster K6.

•Start number 65 was manually annotated 16 times for cluster K6.

Info for manual annotations of cluster KA:
•Start number 59 was manually annotated 1 time for cluster KA.
•Start number 60 was manually annotated 1 time for cluster KA.

Info for manual annotations of cluster L2:
•Start number 57 was manually annotated 1 time for cluster L2.
•Start number 69 was manually annotated 2 times for cluster L2.

Info for manual annotations of cluster L4:
•Start number 54 was manually annotated 5 times for cluster L4.
•Start number 69 was manually annotated 1 time for cluster L4.

Info for manual annotations of cluster M1:
•Start number 65 was manually annotated 2 times for cluster M1.

Info for manual annotations of cluster M2:
•Start number 64 was manually annotated 4 times for cluster M2.

Info for manual annotations of cluster M3:
•Start number 65 was manually annotated 1 time for cluster M3.

Gene Information:

Gene: ActinUp_4 Start: 727, Stop: 954, Start Num: 65
Candidate Starts for ActinUp_4:
(Start: 65 @727 has 184 MA's), (86, 823), (118, 892),

Gene: Adephagia_4 Start: 727, Stop: 954, Start Num: 65
Candidate Starts for Adephagia_4:
(Start: 65 @727 has 184 MA's), (86, 823), (118, 892),

Gene: Adonis_4 Start: 703, Stop: 930, Start Num: 65
Candidate Starts for Adonis_4:
(Start: 65 @703 has 184 MA's), (97, 814), (112, 853),

Gene: Aflac_1 Start: 211, Stop: 468, Start Num: 55
Candidate Starts for Aflac_1:
(Start: 50 @196 has 2 MA's), (Start: 55 @211 has 30 MA's), (94, 340), (112, 394),

Gene: Agent47_3 Start: 542, Stop: 754, Start Num: 65
Candidate Starts for Agent47_3:
(Start: 65 @542 has 184 MA's), (86, 626), (104, 659), (113, 683), (115, 692), (116, 695), (120, 701),

Gene: Ageofdapage_4 Start: 686, Stop: 904, Start Num: 65
Candidate Starts for Ageofdapage_4:
(Start: 65 @686 has 184 MA's), (86, 782), (104, 812), (118, 848),

Gene: AlainaMarie_1 Start: 211, Stop: 468, Start Num: 55
Candidate Starts for AlainaMarie_1:

(Start: 50 @196 has 2 MA's), (Start: 55 @211 has 30 MA's), (94, 340), (112, 394),

Gene: Aleemily_93 Start: 55208, Stop: 55504, Start Num: 58
Candidate Starts for Aleemily_93:
(25, 55112), (Start: 58 @55208 has 3 MA's), (78, 55280),

Gene: AlishaPH_4 Start: 726, Stop: 959, Start Num: 65
Candidate Starts for AlishaPH_4:
(Start: 65 @726 has 184 MA's), (85, 813), (104, 867), (112, 885), (118, 903),

Gene: AlleyCat_3 Start: 542, Stop: 772, Start Num: 65
Candidate Starts for AlleyCat_3:
(Start: 39 @491 has 17 MA's), (Start: 65 @542 has 184 MA's), (68, 563), (Start: 69 @566 has 3 MA's), (86, 626), (97, 653), (100, 662), (109, 686), (120, 716), (127, 767),

Gene: Aloe25_1 Start: 211, Stop: 468, Start Num: 55
Candidate Starts for Aloe25_1:
(Start: 50 @196 has 2 MA's), (Start: 55 @211 has 30 MA's), (105, 379), (112, 394),

Gene: Alpacados_39 Start: 30016, Stop: 29783, Start Num: 54
Candidate Starts for Alpacados_39:
(Start: 54 @30016 has 13 MA's), (Start: 65 @30004 has 184 MA's), (102, 29884),

Gene: Amgine_2 Start: 192, Stop: 413, Start Num: 65
Candidate Starts for Amgine_2:
(Start: 65 @192 has 184 MA's), (86, 282), (100, 300), (104, 312),

Gene: Amohnition_2 Start: 207, Stop: 419, Start Num: 65
Candidate Starts for Amohnition_2:
(Start: 65 @207 has 184 MA's), (84, 279), (112, 342),

Gene: Anaya_4 Start: 727, Stop: 945, Start Num: 65
Candidate Starts for Anaya_4:
(Start: 65 @727 has 184 MA's), (86, 823), (100, 841), (104, 853), (118, 889),

Gene: Angelica_4 Start: 727, Stop: 945, Start Num: 65
Candidate Starts for Angelica_4:
(Start: 65 @727 has 184 MA's), (86, 823), (104, 853), (118, 889),

Gene: Anma_4 Start: 691, Stop: 903, Start Num: 65
Candidate Starts for Anma_4:
(Start: 65 @691 has 184 MA's), (Start: 69 @715 has 3 MA's), (115, 838),

Gene: Apocalypse_4 Start: 727, Stop: 954, Start Num: 65
Candidate Starts for Apocalypse_4:
(Start: 65 @727 has 184 MA's), (86, 823), (118, 892),

Gene: Applecrisp_3 Start: 522, Stop: 743, Start Num: 65
Candidate Starts for Applecrisp_3:
(Start: 65 @522 has 184 MA's), (86, 612), (100, 630), (104, 642),

Gene: Arataki_1 Start: 212, Stop: 469, Start Num: 55
Candidate Starts for Arataki_1:

(38, 152), (Start: 50 @197 has 2 MA's), (Start: 55 @212 has 30 MA's), (112, 395), (116, 410),

Gene: ArtetaBall_1 Start: 212, Stop: 469, Start Num: 55
Candidate Starts for ArtetaBall_1:
(38, 152), (Start: 50 @197 has 2 MA's), (Start: 55 @212 has 30 MA's), (112, 395),

Gene: Artorias_1 Start: 221, Stop: 445, Start Num: 65
Candidate Starts for Artorias_1:
(Start: 65 @221 has 184 MA's), (84, 305),

Gene: Asayake_4 Start: 727, Stop: 963, Start Num: 65
Candidate Starts for Asayake_4:
(Start: 65 @727 has 184 MA's), (97, 850), (112, 889), (118, 907),

Gene: Atiba_4 Start: 703, Stop: 939, Start Num: 65
Candidate Starts for Atiba_4:
(Start: 65 @703 has 184 MA's), (97, 826), (112, 865), (118, 883),

Gene: Attis_19 Start: 17679, Stop: 18002, Start Num: 39
Candidate Starts for Attis_19:
(Start: 39 @17679 has 17 MA's), (88, 17859), (92, 17877), (100, 17901),

Gene: Avazak_1 Start: 221, Stop: 445, Start Num: 65
Candidate Starts for Avazak_1:
(Start: 65 @221 has 184 MA's),

Gene: BEEST_4 Start: 727, Stop: 963, Start Num: 65
Candidate Starts for BEEST_4:
(Start: 65 @727 has 184 MA's), (97, 850), (112, 889), (118, 907),

Gene: BGlluviae_4 Start: 727, Stop: 963, Start Num: 65
Candidate Starts for BGlluviae_4:
(Start: 65 @727 has 184 MA's), (97, 850), (112, 889), (118, 907),

Gene: BaghaKamala_4 Start: 703, Stop: 930, Start Num: 65
Candidate Starts for BaghaKamala_4:
(Start: 65 @703 has 184 MA's), (86, 799), (118, 868),

Gene: BananenDer11_3 Start: 516, Stop: 746, Start Num: 65
Candidate Starts for BananenDer11_3:
(Start: 65 @516 has 184 MA's), (68, 537), (Start: 69 @540 has 3 MA's), (97, 627), (100, 636), (104, 648), (127, 741),

Gene: Baoshan_107 Start: 63214, Stop: 63477, Start Num: 57
Candidate Starts for Baoshan_107:
(Start: 57 @63214 has 3 MA's), (72, 63247), (80, 63283), (86, 63322), (92, 63349), (98, 63367), (100, 63373), (102, 63379), (112, 63403),

Gene: BarrelRoll_4 Start: 727, Stop: 954, Start Num: 65
Candidate Starts for BarrelRoll_4:
(Start: 65 @727 has 184 MA's), (86, 823), (118, 892),

Gene: Beezoo_4 Start: 724, Stop: 942, Start Num: 65

Candidate Starts for Beezoo_4:
(Start: 65 @724 has 184 MA's), (86, 820), (104, 850), (118, 886),

Gene: Bella96_4 Start: 691, Stop: 915, Start Num: 65
Candidate Starts for Bella96_4:
(Start: 65 @691 has 184 MA's), (86, 787), (118, 853),

Gene: Belladonna_4 Start: 727, Stop: 963, Start Num: 65
Candidate Starts for Belladonna_4:
(Start: 65 @727 has 184 MA's), (97, 850), (112, 889), (118, 907),

Gene: Bern_4 Start: 687, Stop: 911, Start Num: 65
Candidate Starts for Bern_4:
(Start: 65 @687 has 184 MA's), (86, 783), (118, 849),

Gene: BetterYeti_1 Start: 211, Stop: 468, Start Num: 55
Candidate Starts for BetterYeti_1:
(Start: 50 @196 has 2 MA's), (Start: 55 @211 has 30 MA's), (105, 379), (112, 394),

Gene: Bhageatrice_3 Start: 1708, Stop: 2037, Start Num: 43
Candidate Starts for Bhageatrice_3:
(23, 1633), (Start: 43 @1708 has 1 MA's), (75, 1819), (88, 1885), (90, 1897), (104, 1948),

Gene: Bjanes7_19 Start: 17679, Stop: 18002, Start Num: 39
Candidate Starts for Bjanes7_19:
(Start: 39 @17679 has 17 MA's), (88, 17859), (92, 17877), (100, 17901),

Gene: Blizzard_4 Start: 727, Stop: 963, Start Num: 65
Candidate Starts for Blizzard_4:
(Start: 65 @727 has 184 MA's), (97, 850), (112, 889), (118, 907),

Gene: BluerMoon_1 Start: 211, Stop: 468, Start Num: 55
Candidate Starts for BluerMoon_1:
(Start: 50 @196 has 2 MA's), (Start: 55 @211 has 30 MA's), (94, 340), (112, 394),

Gene: BobbyDazzler_40 Start: 30078, Stop: 29857, Start Num: 65
Candidate Starts for BobbyDazzler_40:
(Start: 54 @30090 has 13 MA's), (Start: 65 @30078 has 184 MA's), (102, 29958),

Gene: Boiiii_4 Start: 727, Stop: 963, Start Num: 65
Candidate Starts for Boiiii_4:
(Start: 65 @727 has 184 MA's), (97, 850), (112, 889), (118, 907),

Gene: Bonanza_40 Start: 30006, Stop: 29785, Start Num: 65
Candidate Starts for Bonanza_40:
(Start: 54 @30018 has 13 MA's), (Start: 65 @30006 has 184 MA's), (102, 29886),

Gene: Bradshaw_40 Start: 30044, Stop: 29811, Start Num: 54
Candidate Starts for Bradshaw_40:
(Start: 54 @30044 has 13 MA's), (Start: 65 @30032 has 184 MA's), (102, 29912),

Gene: BrainDrainer_113 Start: 63738, Stop: 63971, Start Num: 69
Candidate Starts for BrainDrainer_113:

(Start: 54 @63705 has 13 MA's), (Start: 69 @63738 has 3 MA's), (84, 63798), (89, 63822), (97, 63858), (100, 63867), (102, 63873), (112, 63897), (118, 63915),

Gene: Bromden_112 Start: 64818, Stop: 65084, Start Num: 54
Candidate Starts for Bromden_112:
(Start: 54 @64818 has 13 MA's), (Start: 69 @64851 has 3 MA's), (84, 64911), (89, 64935), (97, 64971), (100, 64980), (102, 64986), (112, 65010), (118, 65028),

Gene: Bryler_3 Start: 658, Stop: 882, Start Num: 65
Candidate Starts for Bryler_3:
(Start: 65 @658 has 184 MA's), (86, 754), (100, 772), (104, 784), (118, 820),

Gene: Bugg_1 Start: 221, Stop: 445, Start Num: 65
Candidate Starts for Bugg_1:
(Start: 65 @221 has 184 MA's), (84, 305),

Gene: Burley_1 Start: 211, Stop: 468, Start Num: 55
Candidate Starts for Burley_1:
(31, 130), (38, 151), (Start: 50 @196 has 2 MA's), (Start: 55 @211 has 30 MA's), (112, 394),

Gene: CREW_4 Start: 727, Stop: 963, Start Num: 65
Candidate Starts for CREW_4:
(Start: 65 @727 has 184 MA's), (97, 850), (112, 889), (118, 907),

Gene: CWormy_1 Start: 212, Stop: 469, Start Num: 55
Candidate Starts for CWormy_1:
(38, 152), (Start: 50 @197 has 2 MA's), (Start: 55 @212 has 30 MA's), (112, 395), (116, 410),

Gene: Cafasso_95 Start: 55818, Stop: 56057, Start Num: 53
Candidate Starts for Cafasso_95:
(Start: 53 @55818 has 1 MA's), (Start: 69 @55854 has 3 MA's), (104, 55965), (118, 56001),

Gene: Cain_3 Start: 658, Stop: 882, Start Num: 65
Candidate Starts for Cain_3:
(Start: 65 @658 has 184 MA's), (86, 754), (100, 772), (104, 784), (118, 820),

Gene: CallaLilly_4 Start: 703, Stop: 930, Start Num: 65
Candidate Starts for CallaLilly_4:
(Start: 65 @703 has 184 MA's), (86, 799), (118, 868),

Gene: Capricorn_4 Start: 727, Stop: 963, Start Num: 65
Candidate Starts for Capricorn_4:
(Start: 65 @727 has 184 MA's), (97, 850), (112, 889), (118, 907),

Gene: Captrips_1 Start: 221, Stop: 445, Start Num: 65
Candidate Starts for Captrips_1:
(Start: 65 @221 has 184 MA's),

Gene: Capybara_1 Start: 221, Stop: 445, Start Num: 65
Candidate Starts for Capybara_1:
(Start: 65 @221 has 184 MA's),

Gene: CaseJules_4 Start: 727, Stop: 963, Start Num: 65

Candidate Starts for CaseJules_4:
(Start: 65 @727 has 184 MA's), (97, 850), (112, 889), (118, 907),

Gene: Chaser_110 Start: 63185, Stop: 63451, Start Num: 54
Candidate Starts for Chaser_110:
(Start: 54 @63185 has 13 MA's), (Start: 69 @63218 has 3 MA's), (84, 63278), (89, 63302), (97, 63338), (100, 63347), (102, 63353), (112, 63377), (118, 63395),

Gene: Chavito_4 Start: 744, Stop: 956, Start Num: 65
Candidate Starts for Chavito_4:
(Start: 65 @744 has 184 MA's), (115, 891),

Gene: CheetoDust_4 Start: 703, Stop: 939, Start Num: 65
Candidate Starts for CheetoDust_4:
(Start: 65 @703 has 184 MA's), (97, 826), (112, 865), (118, 883),

Gene: ChickyNuggy_1 Start: 221, Stop: 445, Start Num: 65
Candidate Starts for ChickyNuggy_1:
(Start: 65 @221 has 184 MA's),

Gene: Chikenjars_1 Start: 211, Stop: 468, Start Num: 55
Candidate Starts for Chikenjars_1:
(Start: 50 @196 has 2 MA's), (Start: 55 @211 has 30 MA's), (94, 340), (112, 394),

Gene: Chris_3 Start: 662, Stop: 886, Start Num: 65
Candidate Starts for Chris_3:
(Start: 65 @662 has 184 MA's), (Start: 69 @686 has 3 MA's), (100, 782), (104, 794), (106, 800), (113, 818),

Gene: ChutneyChips_112 Start: 63708, Stop: 63974, Start Num: 54
Candidate Starts for ChutneyChips_112:
(Start: 54 @63708 has 13 MA's), (Start: 69 @63741 has 3 MA's), (84, 63801), (89, 63825), (97, 63861), (102, 63876), (112, 63900), (118, 63918),

Gene: Citrus_1 Start: 211, Stop: 468, Start Num: 55
Candidate Starts for Citrus_1:
(Start: 50 @196 has 2 MA's), (Start: 55 @211 has 30 MA's), (94, 340), (112, 394),

Gene: Clap_19 Start: 17686, Stop: 18009, Start Num: 39
Candidate Starts for Clap_19:
(Start: 39 @17686 has 17 MA's), (88, 17866), (92, 17884), (100, 17908),

Gene: Clipper_4 Start: 703, Stop: 939, Start Num: 65
Candidate Starts for Clipper_4:
(Start: 65 @703 has 184 MA's), (97, 826), (112, 865), (118, 883),

Gene: Collard_3 Start: 516, Stop: 746, Start Num: 65
Candidate Starts for Collard_3:
(Start: 65 @516 has 184 MA's), (68, 537), (Start: 69 @540 has 3 MA's), (97, 627), (100, 636), (104, 648), (127, 741),

Gene: Colossa_69 Start: 42676, Stop: 42978, Start Num: 60
Candidate Starts for Colossa_69:

(15, 42394), (Start: 60 @42676 has 1 MA's), (78, 42754), (114, 42892), (123, 42928),

Gene: Conley_1 Start: 221, Stop: 445, Start Num: 65
Candidate Starts for Conley_1:
(Start: 65 @221 has 184 MA's), (85, 308), (105, 350),

Gene: CosmicSans_40 Start: 30032, Stop: 29811, Start Num: 65
Candidate Starts for CosmicSans_40:
(Start: 54 @30044 has 13 MA's), (Start: 65 @30032 has 184 MA's), (102, 29912),

Gene: CrimD_4 Start: 703, Stop: 930, Start Num: 65
Candidate Starts for CrimD_4:
(Start: 65 @703 has 184 MA's), (86, 799), (104, 832), (118, 868),

Gene: Crossroads_109 Start: 63279, Stop: 63491, Start Num: 69
Candidate Starts for Crossroads_109:
(Start: 54 @63246 has 13 MA's), (Start: 69 @63279 has 3 MA's), (81, 63321), (82, 63324), (93, 63357), (99, 63384), (100, 63387), (102, 63393), (104, 63399), (105, 63402), (118, 63435),

Gene: Curiosium_5 Start: 989, Stop: 1216, Start Num: 65
Candidate Starts for Curiosium_5:
(45, 938), (52, 974), (Start: 65 @989 has 184 MA's), (86, 1085), (118, 1154),

Gene: Cynthia_19 Start: 17686, Stop: 18009, Start Num: 39
Candidate Starts for Cynthia_19:
(Start: 39 @17686 has 17 MA's), (88, 17866), (92, 17884), (100, 17908),

Gene: Dadosky_3 Start: 542, Stop: 772, Start Num: 65
Candidate Starts for Dadosky_3:
(Start: 39 @491 has 17 MA's), (Start: 65 @542 has 184 MA's), (68, 563), (Start: 69 @566 has 3 MA's), (86, 626), (97, 653), (100, 662), (109, 686), (120, 716), (127, 767),

Gene: Dalmuri_4 Start: 727, Stop: 963, Start Num: 65
Candidate Starts for Dalmuri_4:
(Start: 65 @727 has 184 MA's), (97, 850), (112, 889), (118, 907),

Gene: Dancer_1 Start: 221, Stop: 445, Start Num: 65
Candidate Starts for Dancer_1:
(Start: 65 @221 has 184 MA's), (84, 305),

Gene: DartGoblin_4 Start: 691, Stop: 915, Start Num: 65
Candidate Starts for DartGoblin_4:
(Start: 65 @691 has 184 MA's), (86, 787), (118, 853),

Gene: DarthP_2 Start: 207, Stop: 419, Start Num: 65
Candidate Starts for DarthP_2:
(Start: 65 @207 has 184 MA's), (84, 279), (112, 342),

Gene: Dartin_4 Start: 742, Stop: 954, Start Num: 65
Candidate Starts for Dartin_4:
(Start: 65 @742 has 184 MA's), (112, 877), (114, 883),

Gene: DarwinJr_3 Start: 1710, Stop: 1952, Start Num: 57

Candidate Starts for DarwinJr_3:
(12, 1392), (18, 1464), (19, 1512), (24, 1605), (29, 1623), (37, 1647), (42, 1662), (48, 1686), (Start: 57 @1710 has 3 MA's), (87, 1815), (96, 1845), (100, 1848), (112, 1878), (118, 1896),

Gene: Deby_4 Start: 727, Stop: 945, Start Num: 65
Candidate Starts for Deby_4:
(Start: 65 @727 has 184 MA's), (86, 823), (104, 853), (118, 889),

Gene: Demure_1 Start: 212, Stop: 469, Start Num: 55
Candidate Starts for Demure_1:
(38, 152), (Start: 50 @197 has 2 MA's), (Start: 55 @212 has 30 MA's), (112, 395), (116, 410),

Gene: Devera_4 Start: 703, Stop: 930, Start Num: 65
Candidate Starts for Devera_4:
(Start: 65 @703 has 184 MA's), (86, 799),

Gene: Dialga_1 Start: 212, Stop: 469, Start Num: 55
Candidate Starts for Dialga_1:
(38, 152), (Start: 50 @197 has 2 MA's), (Start: 55 @212 has 30 MA's), (112, 395), (116, 410),

Gene: Dmitri_20 Start: 19193, Stop: 19450, Start Num: 67
Candidate Starts for Dmitri_20:
(1, 18281), (8, 18767), (30, 19091), (66, 19190), (Start: 67 @19193 has 1 MA's), (72, 19211), (92, 19316), (100, 19346), (105, 19361),

Gene: Dole_4 Start: 703, Stop: 930, Start Num: 65
Candidate Starts for Dole_4:
(Start: 65 @703 has 184 MA's), (86, 799),

Gene: DoubleChamp_3 Start: 537, Stop: 746, Start Num: 68
Candidate Starts for DoubleChamp_3:
(Start: 65 @516 has 184 MA's), (68, 537), (Start: 69 @540 has 3 MA's), (97, 627), (100, 636), (104, 648), (127, 741),

Gene: Douge_111 Start: 62989, Stop: 63255, Start Num: 54
Candidate Starts for Douge_111:
(Start: 54 @62989 has 13 MA's), (Start: 69 @63022 has 3 MA's), (84, 63082), (89, 63106), (97, 63142), (100, 63151), (102, 63157), (112, 63181), (118, 63199),

Gene: Douzhi_111 Start: 63394, Stop: 63660, Start Num: 54
Candidate Starts for Douzhi_111:
(Start: 54 @63394 has 13 MA's), (Start: 69 @63427 has 3 MA's), (84, 63487), (89, 63511), (97, 63547), (100, 63556), (102, 63562), (112, 63586), (118, 63604),

Gene: DrHayes_4 Start: 691, Stop: 903, Start Num: 65
Candidate Starts for DrHayes_4:
(Start: 65 @691 has 184 MA's), (Start: 69 @715 has 3 MA's), (115, 838),

Gene: Duffington_1 Start: 211, Stop: 468, Start Num: 55
Candidate Starts for Duffington_1:
(Start: 50 @196 has 2 MA's), (Start: 55 @211 has 30 MA's), (94, 340), (112, 394),

Gene: Durfee_4 Start: 727, Stop: 963, Start Num: 65

Candidate Starts for Durfee_4:
(Start: 65 @727 has 184 MA's), (97, 850), (112, 889), (118, 907),

Gene: DyoEdafos_114 Start: 63914, Stop: 64108, Start Num: 69
Candidate Starts for DyoEdafos_114:
(Start: 54 @63878 has 13 MA's), (Start: 69 @63914 has 3 MA's), (85, 63977), (86, 63986), (97, 64004), (102, 64010), (112, 64034), (118, 64052),

Gene: Ebert_19 Start: 17686, Stop: 18009, Start Num: 39
Candidate Starts for Ebert_19:
(Start: 39 @17686 has 17 MA's), (88, 17866), (92, 17884), (100, 17908),

Gene: Eddiemania_1 Start: 211, Stop: 468, Start Num: 55
Candidate Starts for Eddiemania_1:
(38, 151), (Start: 50 @196 has 2 MA's), (Start: 55 @211 has 30 MA's), (94, 340), (112, 394),

Gene: Edugator_3 Start: 542, Stop: 772, Start Num: 65
Candidate Starts for Edugator_3:
(Start: 39 @491 has 17 MA's), (Start: 65 @542 has 184 MA's), (68, 563), (Start: 69 @566 has 3 MA's), (86, 626), (97, 653), (100, 662), (109, 686), (120, 716), (127, 767),

Gene: Efra2_4 Start: 696, Stop: 908, Start Num: 65
Candidate Starts for Efra2_4:
(Start: 65 @696 has 184 MA's), (74, 741), (115, 843),

Gene: EhyElimayoE_16 Start: 8275, Stop: 8580, Start Num: 56
Candidate Starts for EhyElimayoE_16:
(2, 7633), (3, 7645), (4, 7672), (46, 8239), (Start: 56 @8275 has 11 MA's), (Start: 69 @8308 has 3 MA's), (77, 8347), (91, 8416), (95, 8431), (125, 8539), (126, 8551),

Gene: Ekdilam_2 Start: 206, Stop: 415, Start Num: 65
Candidate Starts for Ekdilam_2:
(Start: 65 @206 has 184 MA's),

Gene: Ellie_2 Start: 192, Stop: 413, Start Num: 65
Candidate Starts for Ellie_2:
(Start: 65 @192 has 184 MA's), (86, 282), (100, 300), (104, 312),

Gene: Emerson_4 Start: 727, Stop: 960, Start Num: 65
Candidate Starts for Emerson_4:
(Start: 65 @727 has 184 MA's), (85, 814), (104, 868), (112, 886), (118, 904),

Gene: EndAve_1 Start: 211, Stop: 468, Start Num: 55
Candidate Starts for EndAve_1:
(Start: 50 @196 has 2 MA's), (Start: 55 @211 has 30 MA's), (94, 340), (112, 394),

Gene: Estes_101 Start: 56269, Stop: 56514, Start Num: 64
Candidate Starts for Estes_101:
(38, 56203), (Start: 64 @56269 has 4 MA's), (100, 56410), (104, 56422), (105, 56425), (112, 56440), (118, 56458),

Gene: FarmResident_113 Start: 63407, Stop: 63673, Start Num: 54
Candidate Starts for FarmResident_113:

(Start: 54 @63407 has 13 MA's), (Start: 69 @63440 has 3 MA's), (89, 63524), (97, 63560), (100, 63569), (102, 63575), (112, 63599), (118, 63617),

Gene: FatCactus_44 Start: 33283, Stop: 33047, Start Num: 73
Candidate Starts for FatCactus_44:
(Start: 73 @33283 has 1 MA's), (85, 33220), (94, 33175), (110, 33136), (117, 33112),

Gene: Fefferhead_2 Start: 192, Stop: 413, Start Num: 65
Candidate Starts for Fefferhead_2:
(Start: 65 @192 has 184 MA's), (86, 282), (100, 300), (104, 312),

Gene: Feyre_3 Start: 517, Stop: 747, Start Num: 65
Candidate Starts for Feyre_3:
(Start: 65 @517 has 184 MA's), (68, 538), (Start: 69 @541 has 3 MA's), (97, 628), (100, 637), (104, 649), (115, 682), (127, 742),

Gene: Figliar_1 Start: 196, Stop: 468, Start Num: 50
Candidate Starts for Figliar_1:
(Start: 50 @196 has 2 MA's), (Start: 55 @211 has 30 MA's), (94, 340), (112, 394),

Gene: Football_1 Start: 221, Stop: 445, Start Num: 65
Candidate Starts for Football_1:
(Start: 65 @221 has 184 MA's),

Gene: FortCran_1 Start: 221, Stop: 445, Start Num: 65
Candidate Starts for FortCran_1:
(Start: 65 @221 has 184 MA's), (84, 305),

Gene: Frankenweenie_22 Start: 10117, Stop: 10422, Start Num: 56
Candidate Starts for Frankenweenie_22:
(46, 10081), (Start: 56 @10117 has 11 MA's), (Start: 69 @10150 has 3 MA's), (91, 10258), (95, 10273), (125, 10381), (126, 10393),

Gene: Ganymede_4 Start: 703, Stop: 939, Start Num: 65
Candidate Starts for Ganymede_4:
(Start: 65 @703 has 184 MA's), (97, 826), (112, 865), (118, 883),

Gene: GardenSalsa_101 Start: 56348, Stop: 56605, Start Num: 64
Candidate Starts for GardenSalsa_101:
(38, 56282), (Start: 64 @56348 has 4 MA's), (100, 56501), (104, 56513), (112, 56531), (118, 56549),

Gene: GemG_19 Start: 17686, Stop: 18009, Start Num: 39
Candidate Starts for GemG_19:
(Start: 39 @17686 has 17 MA's), (88, 17866), (92, 17884), (100, 17908),

Gene: Gengar_3 Start: 542, Stop: 772, Start Num: 65
Candidate Starts for Gengar_3:
(Start: 39 @491 has 17 MA's), (Start: 65 @542 has 184 MA's), (68, 563), (Start: 69 @566 has 3 MA's), (97, 653), (100, 662), (104, 674), (127, 767),

Gene: Gill_1 Start: 221, Stop: 445, Start Num: 65
Candidate Starts for Gill_1:
(Start: 65 @221 has 184 MA's),

Gene: Gizermo_19 Start: 17686, Stop: 18009, Start Num: 39
Candidate Starts for Gizermo_19:
(Start: 39 @17686 has 17 MA's), (88, 17866), (92, 17884), (100, 17908),

Gene: Glintora_1 Start: 211, Stop: 468, Start Num: 55
Candidate Starts for Glintora_1:
(Start: 50 @196 has 2 MA's), (Start: 55 @211 has 30 MA's), (94, 340), (112, 394),

Gene: Gollum_40 Start: 30042, Stop: 29809, Start Num: 54
Candidate Starts for Gollum_40:
(Start: 54 @30042 has 13 MA's), (Start: 65 @30030 has 184 MA's), (102, 29910),

Gene: Gravy_1 Start: 221, Stop: 445, Start Num: 65
Candidate Starts for Gravy_1:
(Start: 65 @221 has 184 MA's),

Gene: Guanica15_4 Start: 699, Stop: 923, Start Num: 65
Candidate Starts for Guanica15_4:
(Start: 65 @699 has 184 MA's), (Start: 69 @723 has 3 MA's), (87, 786), (115, 858), (116, 861),

Gene: Guillsminger_3 Start: 517, Stop: 747, Start Num: 65
Candidate Starts for Guillsminger_3:
(Start: 65 @517 has 184 MA's), (68, 538), (Start: 69 @541 has 3 MA's), (97, 628), (100, 637), (104, 649), (115, 682), (127, 742),

Gene: Gusicorn_1 Start: 211, Stop: 468, Start Num: 55
Candidate Starts for Gusicorn_1:
(Start: 50 @196 has 2 MA's), (Start: 55 @211 has 30 MA's), (105, 379), (112, 394),

Gene: Haley23_19 Start: 17686, Stop: 18009, Start Num: 39
Candidate Starts for Haley23_19:
(Start: 39 @17686 has 17 MA's), (88, 17866), (92, 17884), (100, 17908),

Gene: Hammy_2 Start: 207, Stop: 416, Start Num: 65
Candidate Starts for Hammy_2:
(Start: 65 @207 has 184 MA's), (74, 249),

Gene: HedwigODU_4 Start: 727, Stop: 954, Start Num: 65
Candidate Starts for HedwigODU_4:
(Start: 65 @727 has 184 MA's), (86, 823), (118, 892),

Gene: Heftyboy_3 Start: 538, Stop: 768, Start Num: 65
Candidate Starts for Heftyboy_3:
(Start: 39 @487 has 17 MA's), (Start: 65 @538 has 184 MA's), (68, 559), (Start: 69 @562 has 3 MA's), (97, 649), (100, 658), (104, 670), (115, 703), (127, 763),

Gene: Hiro_40 Start: 30292, Stop: 30071, Start Num: 65
Candidate Starts for Hiro_40:
(Start: 54 @30304 has 13 MA's), (Start: 65 @30292 has 184 MA's), (102, 30172),

Gene: Homura_4 Start: 727, Stop: 963, Start Num: 65
Candidate Starts for Homura_4:

(Start: 65 @727 has 184 MA's), (97, 850), (112, 889), (118, 907),

Gene: Hortihabitatio_1 Start: 220, Stop: 444, Start Num: 65
Candidate Starts for Hortihabitatio_1:
(Start: 65 @220 has 184 MA's),

Gene: Hurricane_2 Start: 191, Stop: 418, Start Num: 65
Candidate Starts for Hurricane_2:
(Start: 65 @191 has 184 MA's), (86, 287), (104, 320),

Gene: Hydrus_1 Start: 211, Stop: 468, Start Num: 55
Candidate Starts for Hydrus_1:
(38, 151), (Start: 50 @196 has 2 MA's), (Start: 55 @211 has 30 MA's), (94, 340), (112, 394),

Gene: Hyperbowlee_4 Start: 727, Stop: 963, Start Num: 65
Candidate Starts for Hyperbowlee_4:
(Start: 65 @727 has 184 MA's), (97, 850), (112, 889), (118, 907),

Gene: Hyzer_22 Start: 21136, Stop: 21459, Start Num: 39
Candidate Starts for Hyzer_22:
(21, 21049), (22, 21052), (Start: 39 @21136 has 17 MA's), (83, 21280), (88, 21316), (92, 21334),

Gene: Illumine_4 Start: 703, Stop: 930, Start Num: 65
Candidate Starts for Illumine_4:
(Start: 65 @703 has 184 MA's), (86, 799),

Gene: Inky_4 Start: 727, Stop: 963, Start Num: 65
Candidate Starts for Inky_4:
(Start: 65 @727 has 184 MA's), (97, 850), (112, 889), (118, 907),

Gene: InvictusManeo_3 Start: 542, Stop: 754, Start Num: 65
Candidate Starts for InvictusManeo_3:
(Start: 65 @542 has 184 MA's), (86, 626), (104, 659), (113, 683), (115, 692), (116, 695), (120, 701),

Gene: JAWS_4 Start: 727, Stop: 954, Start Num: 63
Candidate Starts for JAWS_4:
(Start: 63 @727 has 1 MA's), (86, 823), (118, 892),

Gene: Jarvi_4 Start: 727, Stop: 963, Start Num: 65
Candidate Starts for Jarvi_4:
(Start: 65 @727 has 184 MA's), (97, 850), (112, 889), (118, 907),

Gene: Jayhawk_4 Start: 727, Stop: 954, Start Num: 65
Candidate Starts for Jayhawk_4:
(Start: 65 @727 has 184 MA's), (86, 823), (118, 892),

Gene: Jeckyll_4 Start: 727, Stop: 963, Start Num: 65
Candidate Starts for Jeckyll_4:
(Start: 65 @727 has 184 MA's), (97, 850), (112, 889), (118, 907),

Gene: Jodelie19_1 Start: 199, Stop: 468, Start Num: 51
Candidate Starts for Jodelie19_1:

(Start: 50 @196 has 2 MA's), (Start: 51 @199 has 1 MA's), (Start: 55 @211 has 30 MA's), (94, 340), (112, 394),

Gene: Joy99_4 Start: 703, Stop: 930, Start Num: 65
Candidate Starts for Joy99_4:
(Start: 65 @703 has 184 MA's), (86, 799), (118, 868),

Gene: JulesRay_1 Start: 221, Stop: 445, Start Num: 65
Candidate Starts for JulesRay_1:
(Start: 65 @221 has 184 MA's), (84, 305),

Gene: JustBecause_14 Start: 7426, Stop: 7731, Start Num: 56
Candidate Starts for JustBecause_14:
(46, 7390), (Start: 56 @7426 has 11 MA's), (Start: 69 @7459 has 3 MA's), (85, 7534), (86, 7543), (98, 7597), (126, 7702),

Gene: Kela_14 Start: 7417, Stop: 7722, Start Num: 56
Candidate Starts for Kela_14:
(46, 7381), (Start: 56 @7417 has 11 MA's), (Start: 69 @7450 has 3 MA's), (85, 7525), (86, 7534), (91, 7558), (98, 7588), (126, 7693),

Gene: Kenosha_1 Start: 212, Stop: 469, Start Num: 55
Candidate Starts for Kenosha_1:
(38, 152), (Start: 50 @197 has 2 MA's), (Start: 55 @212 has 30 MA's), (112, 395),

Gene: Kerry_1 Start: 221, Stop: 445, Start Num: 65
Candidate Starts for Kerry_1:
(Start: 65 @221 has 184 MA's),

Gene: Keshu_2 Start: 191, Stop: 412, Start Num: 65
Candidate Starts for Keshu_2:
(Start: 65 @191 has 184 MA's), (100, 299),

Gene: Kheparia_4 Start: 687, Stop: 911, Start Num: 65
Candidate Starts for Kheparia_4:
(Start: 65 @687 has 184 MA's), (86, 783), (118, 849),

Gene: KiSi_3 Start: 624, Stop: 842, Start Num: 65
Candidate Starts for KiSi_3:
(Start: 65 @624 has 184 MA's), (86, 720), (100, 738), (104, 750), (112, 768), (119, 786), (124, 801),

Gene: KleverKiS_90 Start: 54555, Stop: 54785, Start Num: 65
Candidate Starts for KleverKiS_90:
(Start: 65 @54555 has 184 MA's), (86, 54651), (112, 54711),

Gene: Kradal_16 Start: 8275, Stop: 8580, Start Num: 56
Candidate Starts for Kradal_16:
(2, 7633), (3, 7645), (4, 7672), (46, 8239), (Start: 56 @8275 has 11 MA's), (Start: 69 @8308 has 3 MA's), (77, 8347), (91, 8416), (95, 8431), (125, 8539), (126, 8551),

Gene: Kratio_2 Start: 299, Stop: 511, Start Num: 62
Candidate Starts for Kratio_2:
(Start: 62 @299 has 3 MA's), (86, 383), (104, 416), (113, 440), (115, 449), (116, 452), (120, 458),

Gene: Krishelle_40 Start: 30392, Stop: 30171, Start Num: 65
Candidate Starts for Krishelle_40:
(Start: 54 @30404 has 13 MA's), (Start: 65 @30392 has 184 MA's), (102, 30272),

Gene: Kromp_23 Start: 21653, Stop: 21910, Start Num: 55
Candidate Starts for Kromp_23:
(10, 21275), (44, 21611), (Start: 55 @21653 has 30 MA's), (70, 21701),

Gene: Kromp_24 Start: 21907, Stop: 22215, Start Num: 128
Candidate Starts for Kromp_24:
(41, 21604), (49, 21637), (111, 21817), (Start: 128 @21907 has 1 MA's), (129, 21934), (130, 21961), (131, 22093), (132, 22159),

Gene: Kropertea_106 Start: 63116, Stop: 63346, Start Num: 54
Candidate Starts for Kropertea_106:
(Start: 54 @63116 has 13 MA's), (Start: 69 @63152 has 3 MA's), (85, 63215), (86, 63224), (97, 63242), (102, 63248), (112, 63272), (118, 63290),

Gene: LastHope_4 Start: 698, Stop: 925, Start Num: 65
Candidate Starts for LastHope_4:
(Start: 65 @698 has 184 MA's), (Start: 69 @722 has 3 MA's), (86, 794), (118, 863),

Gene: LaterM_4 Start: 703, Stop: 936, Start Num: 65
Candidate Starts for LaterM_4:
(Start: 65 @703 has 184 MA's), (104, 844), (112, 862),

Gene: Lavahound_2 Start: 192, Stop: 413, Start Num: 65
Candidate Starts for Lavahound_2:
(Start: 65 @192 has 184 MA's), (86, 282), (100, 300), (104, 312),

Gene: LeMond_3 Start: 624, Stop: 842, Start Num: 65
Candidate Starts for LeMond_3:
(13, 324), (Start: 65 @624 has 184 MA's), (86, 720), (100, 738), (104, 750), (112, 768), (119, 786), (124, 801),

Gene: Lea83_2 Start: 191, Stop: 418, Start Num: 65
Candidate Starts for Lea83_2:
(Start: 65 @191 has 184 MA's), (86, 287), (100, 308), (104, 320),

Gene: Leston_3 Start: 542, Stop: 772, Start Num: 65
Candidate Starts for Leston_3:
(Start: 65 @542 has 184 MA's), (68, 563), (Start: 69 @566 has 3 MA's), (97, 653), (100, 662), (104, 674),

Gene: LilDirt_2 Start: 300, Stop: 512, Start Num: 62
Candidate Starts for LilDirt_2:
(Start: 62 @300 has 3 MA's), (86, 384), (104, 417), (113, 441), (115, 450), (116, 453), (120, 459),

Gene: Lillie_40 Start: 30032, Stop: 29811, Start Num: 65
Candidate Starts for Lillie_40:
(Start: 54 @30044 has 13 MA's), (Start: 65 @30032 has 184 MA's), (102, 29912),

Gene: LindNT_4 Start: 703, Stop: 930, Start Num: 65
Candidate Starts for LindNT_4:
(Start: 65 @703 has 184 MA's), (86, 799), (104, 832), (118, 868),

Gene: Llorens_4 Start: 727, Stop: 963, Start Num: 65
Candidate Starts for Llorens_4:
(Start: 65 @727 has 184 MA's), (97, 850), (112, 889), (118, 907),

Gene: Lokum_4 Start: 727, Stop: 963, Start Num: 65
Candidate Starts for Lokum_4:
(Start: 65 @727 has 184 MA's), (97, 850), (112, 889), (118, 907),

Gene: LordFarquaad_19 Start: 17679, Stop: 18002, Start Num: 39
Candidate Starts for LordFarquaad_19:
(Start: 39 @17679 has 17 MA's), (88, 17859), (92, 17877), (100, 17901),

Gene: Lunahalos_4 Start: 727, Stop: 963, Start Num: 65
Candidate Starts for Lunahalos_4:
(Start: 65 @727 has 184 MA's), (97, 850), (112, 889), (118, 907),

Gene: Luthien_1 Start: 211, Stop: 468, Start Num: 55
Candidate Starts for Luthien_1:
(Start: 50 @196 has 2 MA's), (Start: 55 @211 has 30 MA's), (94, 340), (112, 394),

Gene: MacKat_4 Start: 703, Stop: 939, Start Num: 65
Candidate Starts for MacKat_4:
(Start: 65 @703 has 184 MA's), (97, 826), (112, 865), (118, 883),

Gene: MacnCheese_2 Start: 194, Stop: 415, Start Num: 65
Candidate Starts for MacnCheese_2:
(Start: 65 @194 has 184 MA's), (86, 284), (100, 302), (104, 314), (120, 356),

Gene: Madvan_1 Start: 211, Stop: 468, Start Num: 55
Candidate Starts for Madvan_1:
(31, 130), (38, 151), (Start: 50 @196 has 2 MA's), (Start: 55 @211 has 30 MA's), (94, 340), (112, 394),

Gene: Magel_1 Start: 221, Stop: 445, Start Num: 65
Candidate Starts for Magel_1:
(Start: 65 @221 has 184 MA's),

Gene: MajinBuu_1 Start: 211, Stop: 468, Start Num: 55
Candidate Starts for MajinBuu_1:
(Start: 50 @196 has 2 MA's), (Start: 55 @211 has 30 MA's), (94, 340), (112, 394),

Gene: MarkPhew_3 Start: 565, Stop: 789, Start Num: 65
Candidate Starts for MarkPhew_3:
(27, 475), (Start: 65 @565 has 184 MA's), (Start: 69 @589 has 3 MA's), (74, 610), (86, 649), (89, 661), (100, 685), (104, 697),

Gene: McMater_4 Start: 742, Stop: 954, Start Num: 65
Candidate Starts for McMater_4:
(Start: 65 @742 has 184 MA's), (112, 877), (114, 883),

Gene: MeaningOfLife_4 Start: 703, Stop: 930, Start Num: 65
Candidate Starts for MeaningOfLife_4:
(Start: 65 @703 has 184 MA's), (86, 799), (118, 868),

Gene: Megsy_4 Start: 703, Stop: 930, Start Num: 65
Candidate Starts for Megsy_4:
(Start: 65 @703 has 184 MA's), (86, 799), (104, 832), (118, 868),

Gene: Miryou_3 Start: 517, Stop: 747, Start Num: 65
Candidate Starts for Miryou_3:
(Start: 65 @517 has 184 MA's), (68, 538), (Start: 69 @541 has 3 MA's), (97, 628), (100, 637), (104, 649), (115, 682), (127, 742),

Gene: MkaliMitinis3_109 Start: 63259, Stop: 63471, Start Num: 69
Candidate Starts for MkaliMitinis3_109:
(Start: 54 @63226 has 13 MA's), (Start: 69 @63259 has 3 MA's), (81, 63301), (82, 63304), (93, 63337), (99, 63364), (100, 63367), (102, 63373), (104, 63379), (105, 63382), (118, 63415),

Gene: Mocha12_19 Start: 17686, Stop: 18009, Start Num: 39
Candidate Starts for Mocha12_19:
(Start: 39 @17686 has 17 MA's), (88, 17866), (92, 17884), (100, 17908),

Gene: Moonflower_20 Start: 18958, Stop: 19197, Start Num: 72
Candidate Starts for Moonflower_20:
(66, 18937), (Start: 67 @18940 has 1 MA's), (72, 18958), (92, 19063), (100, 19093), (105, 19108),

Gene: Morgana_101 Start: 57610, Stop: 57906, Start Num: 58
Candidate Starts for Morgana_101:
(6, 57211), (25, 57514), (Start: 58 @57610 has 3 MA's), (79, 57685),

Gene: MrMagoo_102 Start: 56348, Stop: 56605, Start Num: 64
Candidate Starts for MrMagoo_102:
(38, 56282), (Start: 64 @56348 has 4 MA's), (100, 56501), (104, 56513), (112, 56531), (118, 56549),

Gene: Murucutumbu_4 Start: 703, Stop: 930, Start Num: 65
Candidate Starts for Murucutumbu_4:
(17, 442), (Start: 65 @703 has 184 MA's), (86, 799), (118, 868),

Gene: Mynx_4 Start: 703, Stop: 939, Start Num: 65
Candidate Starts for Mynx_4:
(Start: 65 @703 has 184 MA's), (97, 826), (112, 865), (118, 883),

Gene: Mysticmoon_1 Start: 220, Stop: 441, Start Num: 65
Candidate Starts for Mysticmoon_1:
(28, 118), (47, 178), (Start: 65 @220 has 184 MA's),

Gene: Nadmeg_1 Start: 212, Stop: 469, Start Num: 55
Candidate Starts for Nadmeg_1:
(31, 131), (38, 152), (Start: 50 @197 has 2 MA's), (Start: 55 @212 has 30 MA's), (112, 395),

Gene: Nanosmite_96 Start: 55870, Stop: 56115, Start Num: 65
Candidate Starts for Nanosmite_96:
(32, 55789), (Start: 65 @55870 has 184 MA's), (100, 56011), (112, 56041), (118, 56059),

Gene: Neighly_3 Start: 300, Stop: 512, Start Num: 62
Candidate Starts for Neighly_3:
(Start: 62 @300 has 3 MA's), (86, 384), (104, 417), (113, 441), (115, 450), (116, 453), (120, 459),

Gene: Nibb_3 Start: 602, Stop: 826, Start Num: 65
Candidate Starts for Nibb_3:
(27, 491), (Start: 65 @602 has 184 MA's), (74, 647), (86, 686), (89, 698), (100, 722), (104, 734), (108, 743),

Gene: Niklas_4 Start: 742, Stop: 954, Start Num: 65
Candidate Starts for Niklas_4:
(Start: 65 @742 has 184 MA's), (112, 877), (114, 883),

Gene: Nirvana_21 Start: 10337, Stop: 10642, Start Num: 56
Candidate Starts for Nirvana_21:
(46, 10301), (Start: 56 @10337 has 11 MA's), (Start: 69 @10370 has 3 MA's), (77, 10409), (91, 10478), (95, 10493), (125, 10601), (126, 10613),

Gene: Nithya_1 Start: 196, Stop: 468, Start Num: 50
Candidate Starts for Nithya_1:
(Start: 50 @196 has 2 MA's), (Start: 55 @211 has 30 MA's), (94, 340), (112, 394),

Gene: NoPickles_1 Start: 221, Stop: 445, Start Num: 65
Candidate Starts for NoPickles_1:
(Start: 65 @221 has 184 MA's),

Gene: November_2 Start: 206, Stop: 427, Start Num: 65
Candidate Starts for November_2:
(Start: 65 @206 has 184 MA's), (86, 296), (104, 326),

Gene: ObLaDi_94 Start: 55454, Stop: 55750, Start Num: 58
Candidate Starts for ObLaDi_94:
(25, 55358), (Start: 58 @55454 has 3 MA's), (78, 55526),

Gene: Odesza_1 Start: 221, Stop: 445, Start Num: 65
Candidate Starts for Odesza_1:
(Start: 65 @221 has 184 MA's),

Gene: OhMyWard_1 Start: 219, Stop: 473, Start Num: 65
Candidate Starts for OhMyWard_1:
(47, 177), (Start: 65 @219 has 184 MA's), (94, 339), (112, 393), (116, 408),

Gene: OkiRoe_3 Start: 517, Stop: 747, Start Num: 65
Candidate Starts for OkiRoe_3:
(Start: 65 @517 has 184 MA's), (68, 538), (Start: 69 @541 has 3 MA's), (97, 628), (100, 637), (104, 649), (115, 682), (127, 742),

Gene: OlgasClover_1 Start: 211, Stop: 468, Start Num: 55
Candidate Starts for OlgasClover_1:
(Start: 50 @196 has 2 MA's), (Start: 55 @211 has 30 MA's), (94, 340), (112, 394),

Gene: Omnicron_3 Start: 483, Stop: 713, Start Num: 65

Candidate Starts for Omnicron_3:
(Start: 39 @432 has 17 MA's), (Start: 65 @483 has 184 MA's), (97, 594), (100, 603), (101, 606), (104, 615), (115, 648), (120, 657), (124, 672),

Gene: Oscar_3 Start: 624, Stop: 842, Start Num: 65
Candidate Starts for Oscar_3:
(9, 234), (13, 324), (Start: 65 @624 has 184 MA's), (86, 720), (100, 738), (104, 750), (112, 768), (119, 786), (124, 801),

Gene: PYPDinur_112 Start: 63957, Stop: 64223, Start Num: 54
Candidate Starts for PYPDinur_112:
(Start: 54 @63957 has 13 MA's), (Start: 69 @63990 has 3 MA's), (84, 64050), (89, 64074), (97, 64110), (100, 64119), (102, 64125), (112, 64149), (118, 64167),

Gene: Padfoot_4 Start: 727, Stop: 963, Start Num: 65
Candidate Starts for Padfoot_4:
(Start: 65 @727 has 184 MA's), (97, 850), (112, 889), (118, 907),

Gene: Padpat_4 Start: 727, Stop: 960, Start Num: 65
Candidate Starts for Padpat_4:
(Start: 65 @727 has 184 MA's), (85, 814), (104, 868), (112, 886), (118, 904),

Gene: Paola_3 Start: 517, Stop: 747, Start Num: 65
Candidate Starts for Paola_3:
(Start: 65 @517 has 184 MA's), (68, 538), (Start: 69 @541 has 3 MA's), (97, 628), (100, 637), (104, 649), (115, 682), (127, 742),

Gene: Peanam_4 Start: 742, Stop: 954, Start Num: 65
Candidate Starts for Peanam_4:
(Start: 65 @742 has 184 MA's), (112, 877), (114, 883),

Gene: Peel_4 Start: 727, Stop: 963, Start Num: 65
Candidate Starts for Peel_4:
(Start: 65 @727 has 184 MA's), (97, 850), (112, 889), (118, 907),

Gene: Perkunas_1 Start: 221, Stop: 451, Start Num: 65
Candidate Starts for Perkunas_1:
(34, 140), (Start: 65 @221 has 184 MA's),

Gene: PestoPenguin_1 Start: 211, Stop: 468, Start Num: 55
Candidate Starts for PestoPenguin_1:
(Start: 50 @196 has 2 MA's), (Start: 55 @211 has 30 MA's), (105, 379), (112, 394),

Gene: Petito_1 Start: 221, Stop: 445, Start Num: 65
Candidate Starts for Petito_1:
(34, 140), (Start: 65 @221 has 184 MA's),

Gene: PhailMary_39 Start: 30366, Stop: 30133, Start Num: 54
Candidate Starts for PhailMary_39:
(Start: 54 @30366 has 13 MA's), (Start: 65 @30354 has 184 MA's), (102, 30234),

Gene: Pharb_2 Start: 188, Stop: 406, Start Num: 65
Candidate Starts for Pharb_2:

(33, 107), (Start: 65 @188 has 184 MA's), (71, 224), (86, 278), (100, 296), (104, 308),

Gene: PhelpsODU_3 Start: 659, Stop: 880, Start Num: 65
Candidate Starts for PhelpsODU_3:
(Start: 65 @659 has 184 MA's), (100, 776), (102, 782), (104, 788), (112, 806),

Gene: Phepper_1 Start: 211, Stop: 468, Start Num: 55
Candidate Starts for Phepper_1:
(Start: 55 @211 has 30 MA's), (112, 394),

Gene: Pherobrine_1 Start: 220, Stop: 441, Start Num: 65
Candidate Starts for Pherobrine_1:
(Start: 65 @220 has 184 MA's), (127, 433),

Gene: Phrank_3 Start: 664, Stop: 888, Start Num: 65
Candidate Starts for Phrank_3:
(Start: 65 @664 has 184 MA's), (86, 760), (100, 778), (104, 790), (118, 826),

Gene: Phrankenstein_40 Start: 29990, Stop: 29757, Start Num: 54
Candidate Starts for Phrankenstein_40:
(Start: 54 @29990 has 13 MA's), (Start: 65 @29978 has 184 MA's), (102, 29858),

Gene: Piatt_4 Start: 727, Stop: 963, Start Num: 65
Candidate Starts for Piatt_4:
(Start: 65 @727 has 184 MA's), (97, 850), (112, 889), (118, 907),

Gene: Pixie_2 Start: 191, Stop: 415, Start Num: 65
Candidate Starts for Pixie_2:
(Start: 65 @191 has 184 MA's), (86, 287), (104, 320), (118, 356),

Gene: Pokerus_4 Start: 703, Stop: 930, Start Num: 65
Candidate Starts for Pokerus_4:
(Start: 65 @703 has 184 MA's), (86, 799), (104, 832), (118, 868),

Gene: Prithvi_4 Start: 703, Stop: 930, Start Num: 65
Candidate Starts for Prithvi_4:
(Start: 65 @703 has 184 MA's), (86, 799), (104, 832), (118, 868),

Gene: Psycho_3 Start: 542, Stop: 772, Start Num: 65
Candidate Starts for Psycho_3:
(Start: 39 @491 has 17 MA's), (Start: 65 @542 has 184 MA's), (68, 563), (Start: 69 @566 has 3 MA's), (86, 626), (97, 653), (100, 662), (109, 686), (120, 716), (127, 767),

Gene: Quantum_15 Start: 8275, Stop: 8580, Start Num: 56
Candidate Starts for Quantum_15:
(2, 7633), (3, 7645), (4, 7672), (46, 8239), (Start: 56 @8275 has 11 MA's), (Start: 69 @8308 has 3 MA's), (77, 8347), (91, 8416), (95, 8431), (125, 8539), (126, 8551),

Gene: Quby_111 Start: 63147, Stop: 63413, Start Num: 54
Candidate Starts for Quby_111:
(Start: 54 @63147 has 13 MA's), (Start: 69 @63180 has 3 MA's), (84, 63240), (89, 63264), (97, 63300), (100, 63309), (102, 63315), (112, 63339), (118, 63357),

Gene: QuincyRose_4 Start: 703, Stop: 939, Start Num: 65
Candidate Starts for QuincyRose_4:
(Start: 65 @703 has 184 MA's), (97, 826), (112, 865), (118, 883),

Gene: RER2_33 Start: 26904, Stop: 26683, Start Num: 65
Candidate Starts for RER2_33:
(Start: 54 @26916 has 13 MA's), (Start: 65 @26904 has 184 MA's), (102, 26784),

Gene: Ramen_4 Start: 727, Stop: 954, Start Num: 65
Candidate Starts for Ramen_4:
(Start: 65 @727 has 184 MA's), (86, 823), (118, 892),

Gene: Rando14_3 Start: 618, Stop: 842, Start Num: 65
Candidate Starts for Rando14_3:
(Start: 65 @618 has 184 MA's), (86, 714), (104, 744), (112, 762),

Gene: Rapunzel97_4 Start: 727, Stop: 954, Start Num: 65
Candidate Starts for Rapunzel97_4:
(Start: 65 @727 has 184 MA's), (86, 823), (118, 892),

Gene: Raqqa_98 Start: 52973, Stop: 53242, Start Num: 62
Candidate Starts for Raqqa_98:
(7, 52550), (14, 52682), (16, 52697), (26, 52865), (Start: 62 @52973 has 3 MA's), (88, 53096), (92, 53114), (100, 53141), (104, 53153), (122, 53195),

Gene: Rasputin_40 Start: 30014, Stop: 29781, Start Num: 54
Candidate Starts for Rasputin_40:
(Start: 54 @30014 has 13 MA's), (Start: 65 @30002 has 184 MA's), (102, 29882),

Gene: Reindeer_91 Start: 55528, Stop: 55773, Start Num: 65
Candidate Starts for Reindeer_91:
(36, 55456), (Start: 65 @55528 has 184 MA's), (100, 55669), (116, 55714),

Gene: Rey_102 Start: 56267, Stop: 56512, Start Num: 64
Candidate Starts for Rey_102:
(Start: 64 @56267 has 4 MA's), (100, 56408), (112, 56438),

Gene: Rhodalysa_40 Start: 30032, Stop: 29811, Start Num: 65
Candidate Starts for Rhodalysa_40:
(Start: 54 @30044 has 13 MA's), (Start: 65 @30032 has 184 MA's), (102, 29912),

Gene: Richie_97 Start: 52968, Stop: 53210, Start Num: 57
Candidate Starts for Richie_97:
(Start: 57 @52968 has 3 MA's), (87, 53073), (112, 53136),

Gene: Richo_4 Start: 742, Stop: 954, Start Num: 65
Candidate Starts for Richo_4:
(Start: 65 @742 has 184 MA's), (112, 877), (114, 883),

Gene: Rickmore_1 Start: 211, Stop: 435, Start Num: 55
Candidate Starts for Rickmore_1:
(Start: 50 @196 has 2 MA's), (Start: 55 @211 has 30 MA's), (97, 331), (112, 364),

Gene: Roney_1 Start: 221, Stop: 445, Start Num: 65
Candidate Starts for Roney_1:
(Start: 65 @221 has 184 MA's),

Gene: RoseMarie_97 Start: 58078, Stop: 58308, Start Num: 65
Candidate Starts for RoseMarie_97:
(Start: 65 @58078 has 184 MA's), (104, 58216), (112, 58234),

Gene: Rosmarinus_4 Start: 727, Stop: 963, Start Num: 65
Candidate Starts for Rosmarinus_4:
(Start: 65 @727 has 184 MA's), (97, 850), (112, 889), (118, 907),

Gene: Runhaar_1 Start: 211, Stop: 468, Start Num: 55
Candidate Starts for Runhaar_1:
(31, 130), (38, 151), (Start: 50 @196 has 2 MA's), (Start: 55 @211 has 30 MA's), (94, 340), (112, 394),

Gene: SamuelLPlaqson_4 Start: 691, Stop: 903, Start Num: 65
Candidate Starts for SamuelLPlaqson_4:
(Start: 65 @691 has 184 MA's), (Start: 69 @715 has 3 MA's), (115, 838),

Gene: Sarkar_16 Start: 8275, Stop: 8580, Start Num: 56
Candidate Starts for Sarkar_16:
(2, 7633), (3, 7645), (4, 7672), (46, 8239), (Start: 56 @8275 has 11 MA's), (Start: 69 @8308 has 3 MA's), (77, 8347), (91, 8416), (95, 8431), (125, 8539), (126, 8551),

Gene: Satis_16 Start: 8271, Stop: 8576, Start Num: 56
Candidate Starts for Satis_16:
(2, 7629), (3, 7641), (4, 7668), (46, 8235), (Start: 56 @8271 has 11 MA's), (Start: 69 @8304 has 3 MA's), (77, 8343), (91, 8412), (95, 8427), (125, 8535), (126, 8547),

Gene: Savage_19 Start: 17686, Stop: 18009, Start Num: 39
Candidate Starts for Savage_19:
(Start: 39 @17686 has 17 MA's), (88, 17866), (92, 17884), (100, 17908),

Gene: Scarlett_3 Start: 624, Stop: 842, Start Num: 65
Candidate Starts for Scarlett_3:
(13, 324), (Start: 65 @624 has 184 MA's), (86, 720), (100, 738), (104, 750), (112, 768), (119, 786), (124, 801),

Gene: Schwartz33_1 Start: 220, Stop: 471, Start Num: 65
Candidate Starts for Schwartz33_1:
(40, 157), (Start: 54 @208 has 13 MA's), (Start: 56 @211 has 11 MA's), (Start: 65 @220 has 184 MA's), (112, 394), (116, 409),

Gene: Secretariat_1 Start: 244, Stop: 525, Start Num: 54
Candidate Starts for Secretariat_1:
(Start: 54 @244 has 13 MA's), (Start: 65 @256 has 184 MA's), (86, 352), (98, 394), (116, 445),

Gene: ShaggyRogers_1 Start: 211, Stop: 468, Start Num: 55
Candidate Starts for ShaggyRogers_1:
(Start: 50 @196 has 2 MA's), (Start: 55 @211 has 30 MA's), (105, 379), (112, 394),

Gene: Shaobing_4 Start: 742, Stop: 954, Start Num: 65

Candidate Starts for Shaobing_4:
(Start: 65 @742 has 184 MA's), (112, 877), (114, 883),

Gene: ShedlockHolmes_2 Start: 191, Stop: 418, Start Num: 65
Candidate Starts for ShedlockHolmes_2:
(Start: 65 @191 has 184 MA's), (86, 287), (100, 308), (104, 320),

Gene: Sheng711_114 Start: 63567, Stop: 63833, Start Num: 54
Candidate Starts for Sheng711_114:
(Start: 54 @63567 has 13 MA's), (Start: 69 @63600 has 3 MA's), (89, 63684), (95, 63711), (97, 63720), (102, 63735), (112, 63759), (118, 63777),

Gene: ShiaSurprise_4 Start: 727, Stop: 963, Start Num: 65
Candidate Starts for ShiaSurprise_4:
(Start: 65 @727 has 184 MA's), (97, 850), (112, 889), (118, 907),

Gene: Sicarius2_69 Start: 42234, Stop: 42470, Start Num: 56
Candidate Starts for Sicarius2_69:
(35, 42162), (Start: 56 @42234 has 11 MA's), (112, 42396), (121, 42414),

Gene: SlimJimmy_90 Start: 55164, Stop: 55394, Start Num: 65
Candidate Starts for SlimJimmy_90:
(Start: 65 @55164 has 184 MA's), (86, 55260), (112, 55320),

Gene: Slimphazie_4 Start: 727, Stop: 954, Start Num: 65
Candidate Starts for Slimphazie_4:
(Start: 65 @727 has 184 MA's), (86, 823), (118, 892),

Gene: SoSeph_3 Start: 538, Stop: 768, Start Num: 65
Candidate Starts for SoSeph_3:
(Start: 39 @487 has 17 MA's), (Start: 65 @538 has 184 MA's), (68, 559), (Start: 69 @562 has 3 MA's), (97, 649), (100, 658), (104, 670), (115, 703), (127, 763),

Gene: SoilAssassin_19 Start: 17679, Stop: 18002, Start Num: 39
Candidate Starts for SoilAssassin_19:
(Start: 39 @17679 has 17 MA's), (88, 17859), (92, 17877), (100, 17901),

Gene: Spock_4 Start: 727, Stop: 963, Start Num: 65
Candidate Starts for Spock_4:
(Start: 65 @727 has 184 MA's), (97, 850), (112, 889), (118, 907),

Gene: Sproutie_19 Start: 17686, Stop: 18009, Start Num: 39
Candidate Starts for Sproutie_19:
(Start: 39 @17686 has 17 MA's), (88, 17866), (92, 17884), (100, 17908),

Gene: Stinson_4 Start: 703, Stop: 936, Start Num: 65
Candidate Starts for Stinson_4:
(Start: 65 @703 has 184 MA's), (104, 844), (112, 862),

Gene: Sulley_4 Start: 727, Stop: 945, Start Num: 65
Candidate Starts for Sulley_4:
(Start: 65 @727 has 184 MA's), (86, 823), (104, 853), (118, 889),

Gene: Swann_40 Start: 30042, Stop: 29809, Start Num: 54
Candidate Starts for Swann_40:
(Start: 54 @30042 has 13 MA's), (Start: 65 @30030 has 184 MA's), (102, 29910),

Gene: SweetCrkHerbs_1 Start: 221, Stop: 445, Start Num: 65
Candidate Starts for SweetCrkHerbs_1:
(34, 140), (Start: 65 @221 has 184 MA's),

Gene: TBond007_2 Start: 191, Stop: 415, Start Num: 65
Candidate Starts for TBond007_2:
(Start: 65 @191 has 184 MA's), (86, 287), (104, 320), (118, 356),

Gene: TWAMP_40 Start: 30032, Stop: 29811, Start Num: 65
Candidate Starts for TWAMP_40:
(Start: 54 @30044 has 13 MA's), (Start: 65 @30032 has 184 MA's), (102, 29912),

Gene: Tachez_4 Start: 703, Stop: 939, Start Num: 65
Candidate Starts for Tachez_4:
(Start: 65 @703 has 184 MA's), (97, 826), (112, 865), (118, 883),

Gene: Tairn4Wing_1 Start: 221, Stop: 445, Start Num: 65
Candidate Starts for Tairn4Wing_1:
(Start: 65 @221 has 184 MA's),

Gene: TaiwanKao_4 Start: 703, Stop: 930, Start Num: 65
Candidate Starts for TaiwanKao_4:
(Start: 65 @703 has 184 MA's), (86, 799), (104, 832), (118, 868),

Gene: Talon44_1 Start: 221, Stop: 445, Start Num: 65
Candidate Starts for Talon44_1:
(34, 140), (Start: 65 @221 has 184 MA's),

Gene: Tanis_1 Start: 221, Stop: 445, Start Num: 65
Candidate Starts for Tanis_1:
(Start: 65 @221 has 184 MA's),

Gene: TenaciousP_1 Start: 211, Stop: 468, Start Num: 55
Candidate Starts for TenaciousP_1:
(Start: 50 @196 has 2 MA's), (Start: 55 @211 has 30 MA's), (94, 340), (112, 394),

Gene: Thyatira_3 Start: 517, Stop: 747, Start Num: 65
Candidate Starts for Thyatira_3:
(Start: 65 @517 has 184 MA's), (68, 538), (Start: 69 @541 has 3 MA's), (97, 628), (100, 637), (104, 649), (115, 682), (127, 742),

Gene: Tierra_3 Start: 665, Stop: 889, Start Num: 65
Candidate Starts for Tierra_3:
(Start: 65 @665 has 184 MA's), (86, 761), (100, 779), (104, 791), (118, 827),

Gene: TingHuaYa_4 Start: 698, Stop: 925, Start Num: 65
Candidate Starts for TingHuaYa_4:
(Start: 65 @698 has 184 MA's), (Start: 69 @722 has 3 MA's), (86, 794),

Gene: TiniBug_4 Start: 691, Stop: 903, Start Num: 65
Candidate Starts for TiniBug_4:
(Start: 65 @691 has 184 MA's), (Start: 69 @715 has 3 MA's), (115, 838),

Gene: Tiri_4 Start: 703, Stop: 930, Start Num: 65
Candidate Starts for Tiri_4:
(Start: 65 @703 has 184 MA's), (97, 814), (112, 853),

Gene: Tonaltzin_1 Start: 211, Stop: 468, Start Num: 55
Candidate Starts for Tonaltzin_1:
(Start: 50 @196 has 2 MA's), (Start: 55 @211 has 30 MA's), (94, 340), (112, 394),

Gene: Topper_4 Start: 727, Stop: 963, Start Num: 65
Candidate Starts for Topper_4:
(Start: 65 @727 has 184 MA's), (97, 850), (112, 889), (118, 907),

Gene: TreyKay_4 Start: 703, Stop: 930, Start Num: 65
Candidate Starts for TreyKay_4:
(Start: 65 @703 has 184 MA's), (86, 799), (104, 832), (118, 868),

Gene: TribleTrouble_2 Start: 194, Stop: 412, Start Num: 65
Candidate Starts for TribleTrouble_2:
(Start: 65 @194 has 184 MA's), (86, 290), (100, 308), (104, 320), (118, 356),

Gene: Trufflozitus_1 Start: 221, Stop: 445, Start Num: 65
Candidate Starts for Trufflozitus_1:
(Start: 65 @221 has 184 MA's),

Gene: TruffulaTree_4 Start: 727, Stop: 954, Start Num: 65
Candidate Starts for TruffulaTree_4:
(Start: 65 @727 has 184 MA's), (86, 823), (118, 892),

Gene: TuertoX_19 Start: 17686, Stop: 18009, Start Num: 39
Candidate Starts for TuertoX_19:
(Start: 39 @17686 has 17 MA's), (88, 17866), (92, 17884), (100, 17908),

Gene: Twitch_4 Start: 727, Stop: 963, Start Num: 65
Candidate Starts for Twitch_4:
(Start: 65 @727 has 184 MA's), (97, 850), (112, 889), (118, 907),

Gene: Unicorn_3 Start: 659, Stop: 880, Start Num: 65
Candidate Starts for Unicorn_3:
(Start: 65 @659 has 184 MA's), (100, 776), (102, 782), (104, 788), (112, 806),

Gene: Urkel_4 Start: 691, Stop: 903, Start Num: 65
Candidate Starts for Urkel_4:
(Start: 65 @691 has 184 MA's), (Start: 69 @715 has 3 MA's), (115, 838),

Gene: Validus_3 Start: 477, Stop: 689, Start Num: 65
Candidate Starts for Validus_3:
(20, 333), (Start: 65 @477 has 184 MA's), (103, 588),

Gene: VanLee_69 Start: 43001, Stop: 43234, Start Num: 59

Candidate Starts for VanLee_69:
(5, 42515), (11, 42659), (Start: 59 @43001 has 1 MA's), (104, 43142), (118, 43178),

Gene: Vardy_1 Start: 211, Stop: 468, Start Num: 55
Candidate Starts for Vardy_1:
(38, 151), (Start: 50 @196 has 2 MA's), (Start: 55 @211 has 30 MA's), (94, 340), (112, 394),

Gene: Veliki_4 Start: 727, Stop: 963, Start Num: 65
Candidate Starts for Veliki_4:
(Start: 65 @727 has 184 MA's), (97, 850), (112, 889), (118, 907),

Gene: ViviJ_2 Start: 300, Stop: 512, Start Num: 62
Candidate Starts for ViviJ_2:
(Start: 62 @300 has 3 MA's), (86, 384), (104, 417), (113, 441), (115, 450), (116, 453), (120, 459),

Gene: Waterfoul_3 Start: 538, Stop: 768, Start Num: 65
Candidate Starts for Waterfoul_3:
(Start: 39 @487 has 17 MA's), (Start: 65 @538 has 184 MA's), (68, 559), (Start: 69 @562 has 3 MA's), (97, 649), (100, 658), (104, 670), (115, 703), (127, 763),

Gene: Whiteclaw_19 Start: 17686, Stop: 18009, Start Num: 39
Candidate Starts for Whiteclaw_19:
(Start: 39 @17686 has 17 MA's), (88, 17866), (92, 17884), (100, 17908),

Gene: Wyborn_68 Start: 42933, Stop: 43205, Start Num: 56
Candidate Starts for Wyborn_68:
(35, 42861), (Start: 56 @42933 has 11 MA's), (76, 43008), (85, 43053), (86, 43062), (96, 43080), (107, 43110), (121, 43146),

Gene: Yeet412_19 Start: 17679, Stop: 18002, Start Num: 39
Candidate Starts for Yeet412_19:
(Start: 39 @17679 has 17 MA's), (88, 17859), (92, 17877), (100, 17901),

Gene: Yinzer_19 Start: 17686, Stop: 18009, Start Num: 39
Candidate Starts for Yinzer_19:
(Start: 39 @17686 has 17 MA's), (88, 17866), (92, 17884), (100, 17908),

Gene: YoureAdopted_4 Start: 703, Stop: 930, Start Num: 65
Candidate Starts for YoureAdopted_4:
(Start: 65 @703 has 184 MA's), (86, 799), (118, 868),

Gene: Yuna_4 Start: 807, Stop: 1034, Start Num: 61
Candidate Starts for Yuna_4:
(Start: 61 @807 has 1 MA's), (86, 906), (100, 930), (104, 942),

Gene: Yunkel11_4 Start: 699, Stop: 923, Start Num: 65
Candidate Starts for Yunkel11_4:
(Start: 65 @699 has 184 MA's), (Start: 69 @723 has 3 MA's), (87, 786), (115, 858), (116, 861),

Gene: Zabiza_4 Start: 727, Stop: 954, Start Num: 65
Candidate Starts for Zabiza_4:
(Start: 65 @727 has 184 MA's), (86, 823), (118, 892),

Gene: Zavala_4 Start: 703, Stop: 939, Start Num: 65
Candidate Starts for Zavala_4:
(Start: 65 @703 has 184 MA's), (97, 826), (112, 865), (118, 883),

Gene: Zeph_1 Start: 211, Stop: 468, Start Num: 55
Candidate Starts for Zeph_1:
(38, 151), (Start: 50 @196 has 2 MA's), (Start: 55 @211 has 30 MA's), (94, 340), (112, 394),