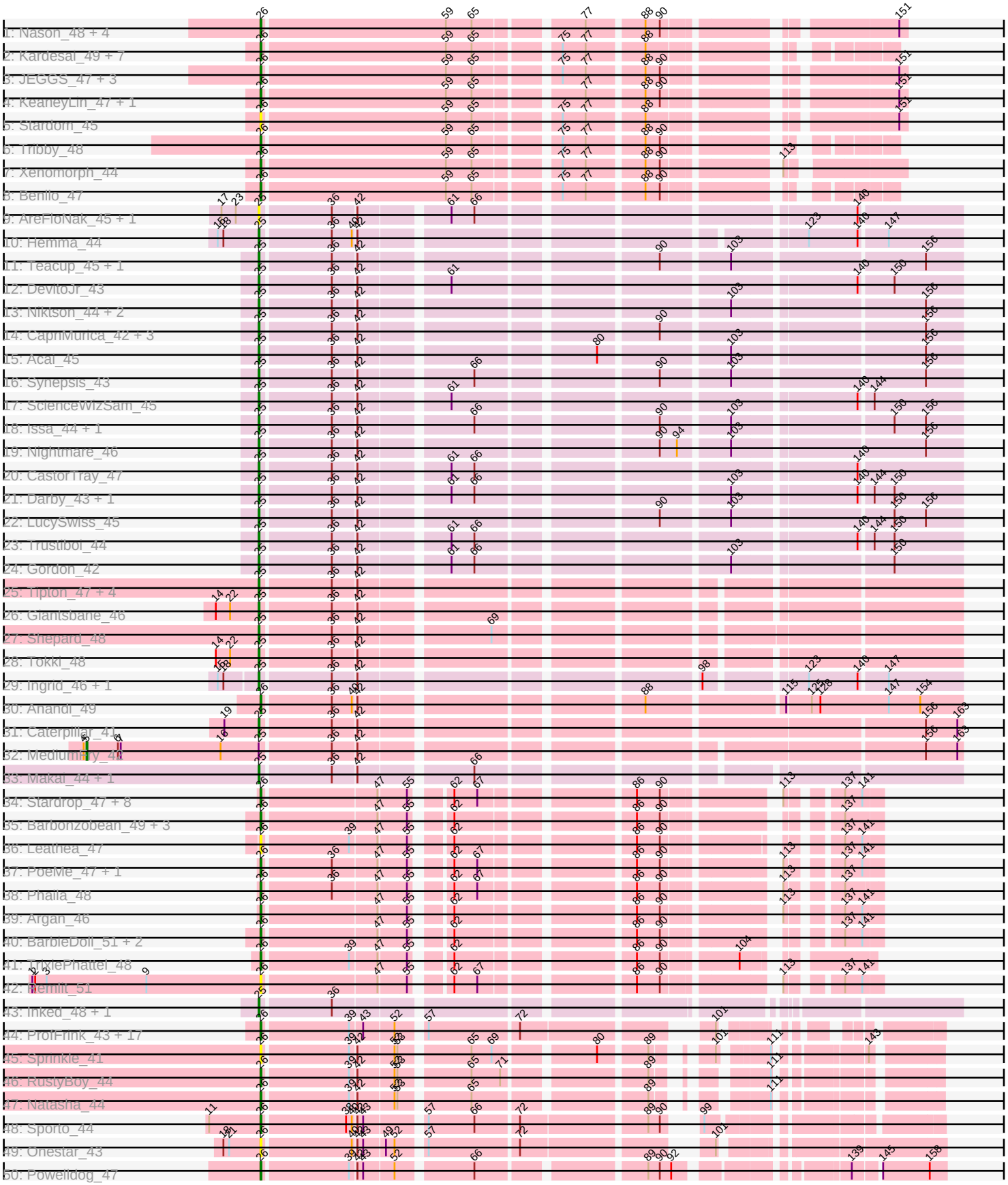
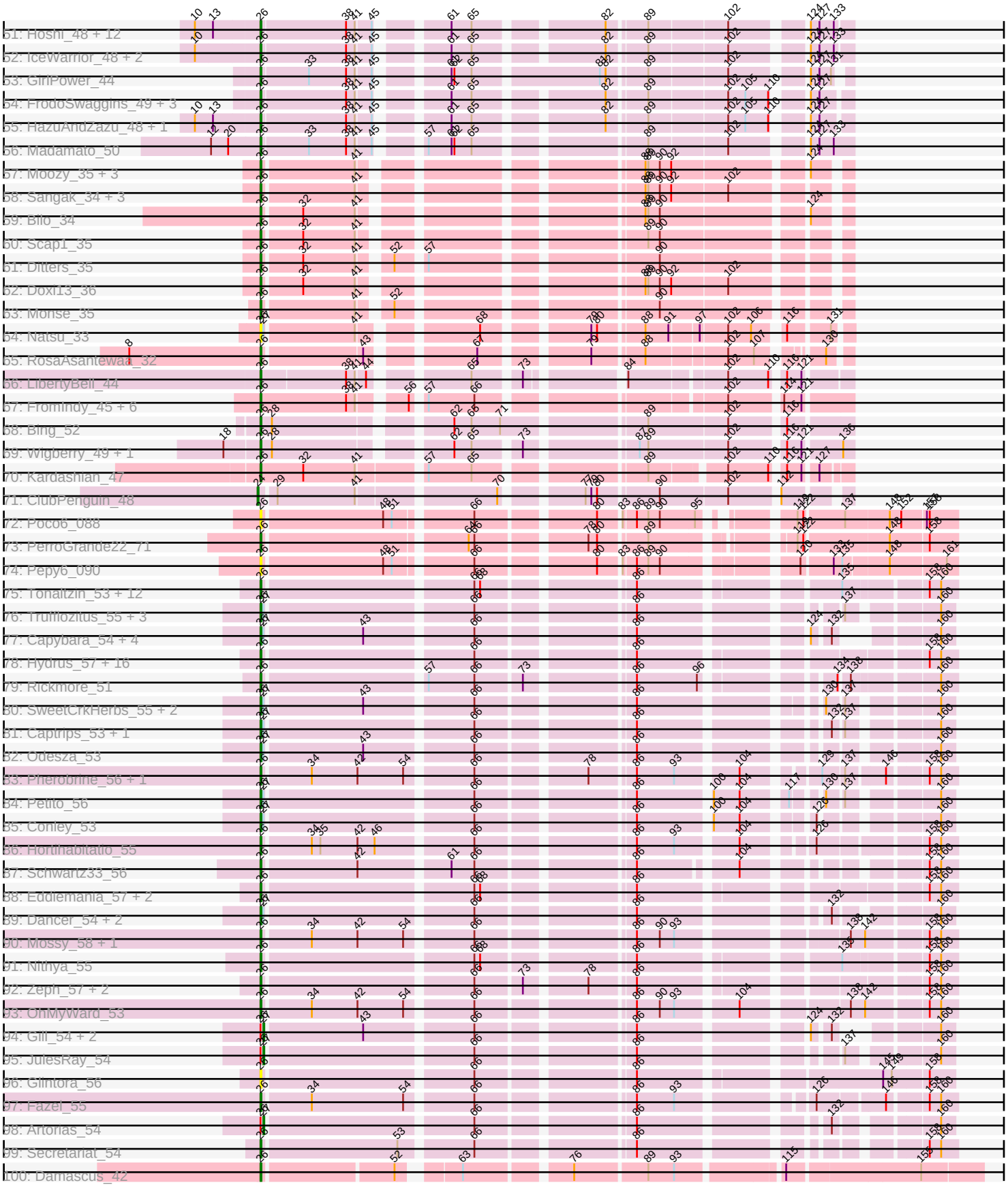
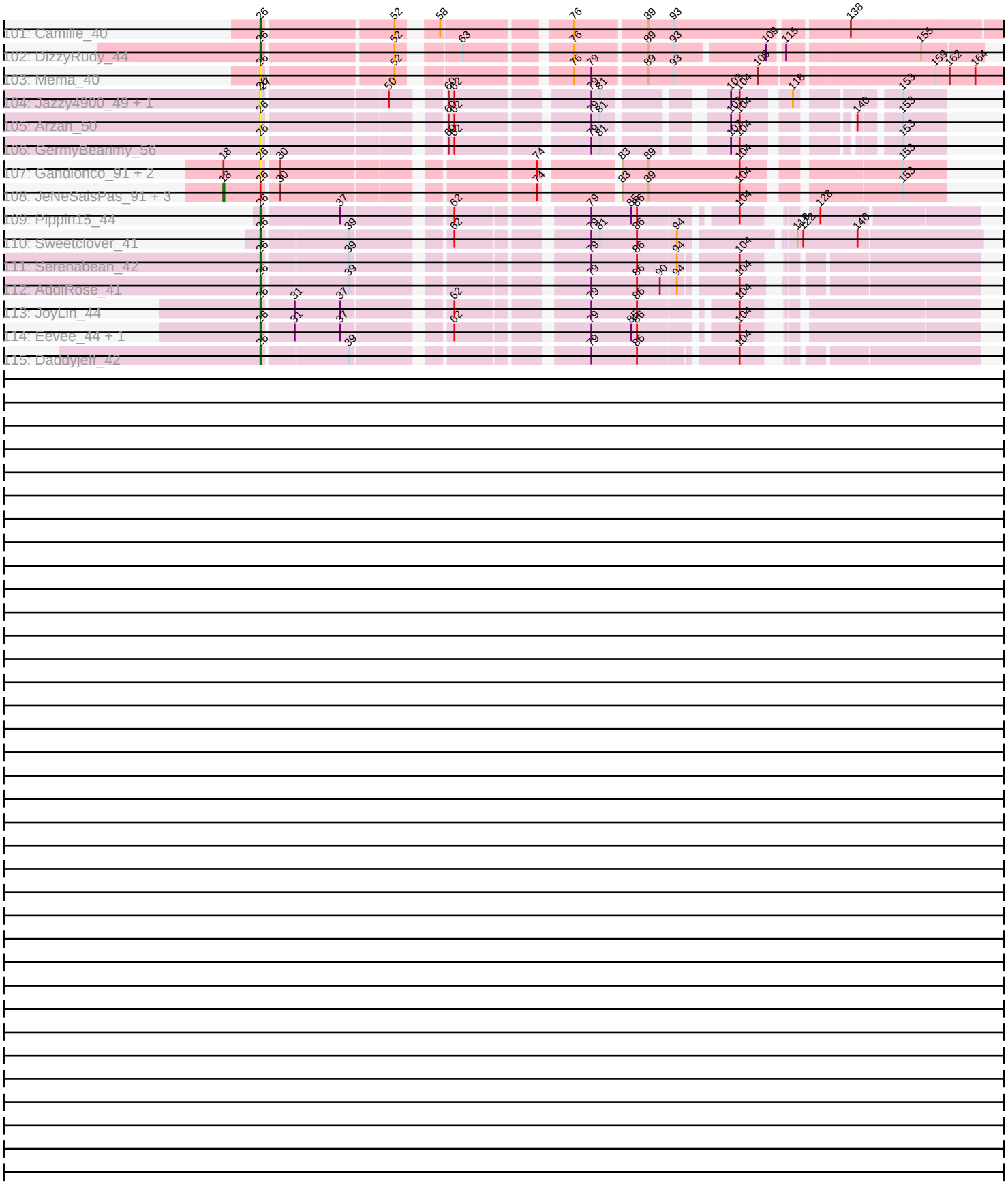
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1: Nason_48 + 4
2: Kardesai_49 + 7
3: JEGGS_47 + 3
4: KeaneyLin_47 + 1
5: Stardom_45
6: Tribby_48
7: Xenomorph_44
8: Benlio_47
9: AreFloNak_45 + 1
10: Hemma_44
11: Teacup_45 + 1
12: DevitoJr_43
13: Niktson_44 + 2
14: CapnMurica_42 + 3
15: Acai_45
16: Synepsis_43
17: ScienceWizSam_45
18: Issa_44 + 1
19: Nightmare_46
20: CastorTray_47
21: Darby_43 + 1
22: LucySwiss_45
23: Trustibot_44
24: Gordon_42
25: Tipton_47 + 4
26: Giantsbane_46
27: Shepard_48
28: Tokki_48
29: Ingrid_46 + 1
30: Anandi_49
31: Caterpillar_41
32: Mediumfry_44
33: Makai_44 + 1
34: Stardrop_47 + 8
35: Barbonzobean_49 + 3
36: Leathea_47
37: PoeMe_47 + 1
38: Phalla_48
39: Argan_46
40: BarbieDoll_51 + 2
41: TrixiePhattel_48
42: Hemlit_51
43: Inked_48 + 1
44: ProfFrink_43 + 17
45: Sprinkle_41
46: RustyBoy_44
47: Natasha_44
48: Sporto_44
49: Onestar_43
50: Powelldog_47

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51: Hoshi_48 + 12
52: IceWarrior_48 + 2
53: GimPower_44
54: FrodoSwaggins_49 + 3
55: HazuAndZazu_48 + 1
56: Madamato_50
57: Moozy_35 + 3
58: Sangak_34 + 3
59: Bilo_34
60: Scap1_35
61: Ditters_35
62: Doxi13_36
63: Monse_35
64: Natsu_33
65: RosaAsantewaa_32
66: LibertyBell_44
67: Fromindy_45 + 6
68: Bing_52
69: Wigberry_49 + 1
70: Kardashian_47
71: ClubPenguin_48
72: Poco6_088
73: PerroGrande22_71
74: Pepy6_090
75: Tonaltzin_53 + 12
76: Trumfozitus_55 + 3
77: Capybara_54 + 4
78: Hydrus_57 + 16
79: Rickmore_51
80: SweetCrkHerbs_55 + 2
81: Captrips_53 + 1
82: Odesza_53
83: Pherobrine_56 + 1
84: Petito_56
85: Conley_53
86: Hortihabitatio_55
87: Schwartz33_56
88: Eddiemania_57 + 2
89: Dancer_54 + 2
90: Mossy_58 + 1
91: Nithya_55
92: Zeph_57 + 2
93: OhMyWard_53
94: Gill_54 + 2
95: JulesRay_54
96: Glintora_56
97: Fazel_55
98: Artorias_54
99: Secretariat_54
100: Damascus_42

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101: Camille_40
102: DizzyRudy_44
103: Mema_40
104: Jazzy4900_49 + 1
105: Arzan_50
106: GermyBeanmy_56
107: Gandionco_91 + 2
108: JeNeSaisPas_91 + 3
109: Pippin15_44
110: Sweetclover_41
111: Serenabean_42
112: AddiRose_41
113: JoyLin_44
114: Eevee_44 + 1
115: Daddyjeff_42

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 347206 Report

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

Pham number 347206 has 263 members, 42 are drafts.

Phages represented in each track:
• Track 1 : Nason_48, Arcadia_48, Elsa_48, Circum_50, YoshiYama_48
• Track 2 : Kardesai_49, NapoleonB_48, BenitoAntonio_48, Cheesy_48, Hankly_47, Bowling_48, Mooshroom_50, Dynamite_48
• Track 3 : JEGGS_47, Correa_46, Mudcat_45, Heisenberger_47
• Track 4 : KeaneyLin_47, GoCrazy_47
• Track 5 : Stardom_45
• Track 6 : Tribby_48
• Track 7 : Xenomorph_44
• Track 8 : Benllo_47
• Track 9 : AreFloNak_45, Nivinsha_45
• Track 10 : Hemma_44
• Track 11 : Teacup_45, Brunswick_45
• Track 12 : DevitoJr_43
• Track 13 : Niktson_44, ElephantMan_44, Tatanka_43
• Track 14 : CapnMurica_42, Dinallo_44, Tenno_45, MiniBagel_44
• Track 15 : Acai_45
• Track 16 : Synepsis_43
• Track 17 : ScienceWizSam_45
• Track 18 : Issa_44, Westerlin_44
• Track 19 : Nightmare_46
• Track 20 : CastorTray_47
• Track 21 : Darby_43, Breylor17_45
• Track 22 : LucySwiss_45
• Track 23 : Trustiboi_44
• Track 24 : Gordon_42
• Track 25 : Tipton_47, Chlochlo_46, Bouchard_44, LilHuddy_46, Phaby_46
• Track 26 : Giantsbane_46
• Track 27 : Shepard_48
• Track 28 : Tokki_48
• Track 29 : Ingrid_46, Loretta_46
• Track 30 : Anandi_49
• Track 31 : Caterpillar_41
• Track 32 : MediumFry_42
• Track 33 : Makai_44, Truckee_42
• Track 34 : Stardrop_47, Mardi_47, Altjira_49, Uzumaki_45, GantcherGoblin_46, KevinMinion_47, Zeina_48, BlackHoleSun_49, Tenney120_48
• Track 35 : Barbonzobean_49, Renaldo_52, Muglass_48, Biscute_47

• Track 36 : Leathea_47
• Track 37 : PoeMe_47, Navi1117_49
• Track 38 : Phaila_48
• Track 39 : Argan_46
• Track 40 : BarbieDoll_51, Kinny_50, Lewando_49
• Track 41 : TrixiePhattel_48
• Track 42 : Remlit_51
• Track 43 : Inked_48, Zippen_46
• Track 44 : ProfFrink_43, Sloopyjoe_43, Linda_43, Michelle_43, Stayer_43, Djungelskog_43, Egad_43, Boog_42, BronxBay_43, Salk_43, StarLord_43, Jeremy4pt0_42, HerbBucket_43, Raunak_43, Shiba_42, MrAaronian_43, DoctorPepper_42, Spain_46
• Track 45 : Sprinkle_41
• Track 46 : RustyBoy_44
• Track 47 : Natasha_44
• Track 48 : Sporto_44
• Track 49 : Onestar_43
• Track 50 : Powelldog_47
• Track 51 : Hoshi_48, Namo_50, TieDye_48, Indigenous_49, Esketit_49, Maya_49, Rima_50, FidgetOrca_49, OlympicHelado_49, Spectropatronm_49, TonyStarch_48, Jaylociraptor_49, Meibysrarus_47
• Track 52 : IceWarrior_48, CherryBlossom_49, TaidaOne_49
• Track 53 : GirlPower_44
• Track 54 : FrodoSwaggins_49, Espio_49, Popy_49, DrGrey_48
• Track 55 : HazuAndZazu_48, Soshi_48
• Track 56 : Madamato_50
• Track 57 : Moozy_35, HotFries_35, SheRa_36, Annihilus_36
• Track 58 : Sangak_34, PherryCruz_35, GoblinVoyage_36, RavenPuff_35
• Track 59 : Bilo_34
• Track 60 : Scap1_35
• Track 61 : Ditters_35
• Track 62 : Doxi13_36
• Track 63 : Monse_35
• Track 64 : Natsu_33
• Track 65 : RosaAsantewaa_32
• Track 66 : LibertyBell_44
• Track 67 : FromIndy_45, Miek_44, Regigigas_46, Rainydai_44, CricKo_45, Thiqqums_45, SendItCS_43
• Track 68 : Bing_52
• Track 69 : Wigberry_49, Hajile_50
• Track 70 : Kardashian_47
• Track 71 : ClubPenguin_48
• Track 72 : Poco6_088
• Track 73 : PerroGrande22_71
• Track 74 : Pepy6_090
• Track 75 : Tonaltzin_53, Duffington_53, Chikenjars_53, EndAve_56, Citrus_54, Luthien_56, AlainaMarie_54, OlgasClover_56, Aflac_54, Figliar_53, Jodelie19_54, TenaciousP_55, BluerMoon_53
• Track 76 : Trufflozitus_55, Tairn4Wing_56, ChickyNuggy_56, Avazak_55
• Track 77 : Capybara_54, Gravy_53, Roney_54, Tanis_54, Kerry_53
• Track 78 : Hydrus_57, ShaggyRogers_55, Aloe25_56, Gusicorn_56, Nadmeg_56, Madvan_55, Burley_55, CWormy_54, Phepper_56, Dialga_55, BetterYeti_55, Untouchable_56, ArtetaBall_55, Runhaar_55, PestoPenguin_57, Vardy_54,

Crocheter_55
• Track 79 : Rickmore_51
• Track 80 : SweetCrkHerbs_55, Perkunas_55, Talon44_55
• Track 81 : Captrips_53, Football_56
• Track 82 : Odesza_53
• Track 83 : Pherobrine_56, Mysticmoon_55
• Track 84 : Petito_56
• Track 85 : Conley_53
• Track 86 : Hortihabitatio_55
• Track 87 : Schwartz33_56
• Track 88 : Eddiemania_57, Kenosha_54, MajinBuu_54
• Track 89 : Dancer_54, FortCran_54, Bugg_56
• Track 90 : Mossy_58, Blanky_53
• Track 91 : Nithya_55
• Track 92 : Zeph_57, Arataki_53, Demure_53
• Track 93 : OhMyWard_53
• Track 94 : Gill_54, NoPickles_53, Magel_55
• Track 95 : JulesRay_54
• Track 96 : Glintora_56
• Track 97 : Fazel_55
• Track 98 : Artorias_54
• Track 99 : Secretariat_54
• Track 100 : Damascus_42
• Track 101 : Camille_40
• Track 102 : DizzyRudy_44
• Track 103 : Mema_40
• Track 104 : Jazzy4900_49, Sunny4976_48
• Track 105 : Arzan_50
• Track 106 : GermyBearimy_56
• Track 107 : Gandionco_91, Marianna39_92, Kureo_93
• Track 108 : JeNeSaisPas_91, Elver_94, Paella_95, Qui_95
• Track 109 : Pippin15_44
• Track 110 : Sweetclover_41
• Track 111 : Serenabean_42
• Track 112 : AddiRose_41
• Track 113 : JoyLin_44
• Track 114 : Eevee_44, Yotsuba_44
• Track 115 : Daddyjeff_42

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

The start number called the most often in the published annotations is 26, it was called in 174 of the 221 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• AddiRose_41, Aflac_54, AlainaMarie_54, Aloe25_56, Altjira_49, Anandi_49, Annihilus_36, Arataki_53, Arcadia_48, Argan_46, ArtetaBall_55, Arzan_50, Avazak_55, BarbieDoll_51, Barbonzobean_49, BenitoAntonio_48, Benllo_47, BetterYeti_55, Bilo_34, Bing_52, Biscute_47, BlackHoleSun_49, Blanky_53, BluerMoon_53, Boog_42, Bowling_48, BronxBay_43, Bugg_56, Burley_55,

CWormy_54, Camille_40, Captrips_53, Capybara_54, Cheesy_48, CherryBlossom_49, ChickyNuggy_56, Chikenjars_53, Circum_50, Citrus_54, Conley_53, Correa_46, CricKo_45, Crocheter_55, Daddyjeff_42, Damascus_42, Dancer_54, Demure_53, Dialga_55, Ditters_35, DizzyRudy_44, Djungelskog_43, DoctorPepper_42, Doxi13_36, DrGrey_48, Duffington_53, Dynamite_48, Eddiemania_57, Eevee_44, Egad_43, Elsa_48, EndAve_56, Esketit_49, Espio_49, Fazel_55, FidgetOrca_49, Figliar_53, Football_56, FortCran_54, FrodoSwaggins_49, FromIndy_45, Gandionco_91, GantcherGoblin_46, GermyBearimy_56, GirlPower_44, Glintora_56, GoCrazy_47, GoblinVoyage_36, Gravy_53, Gusicorn_56, Hajile_50, Hankly_47, HazuAndZazu_48, Heisenberger_47, HerbBucket_43, Hortihabitatio_55, Hoshi_48, HotFries_35, Hydrus_57, IceWarrior_48, Indigenous_49, JEGGS_47, Jaylociraptor_49, Jazzy4900_49, Jeremy4pt0_42, Jodelie19_54, JoyLin_44, Kardashian_47, Kardesai_49, KeaneyLin_47, Kenosha_54, Kerry_53, KevinMinion_47, Kinny_50, Kureo_93, Leathea_47, Lewando_49, LibertyBell_44, Linda_43, Luthien_56, Madamato_50, Madvan_55, MajinBuu_54, Mardi_47, Marianna39_92, Maya_49, Meibysrarus_47, Mema_40, Michelle_43, Miek_44, Monse_35, Mooshroom_50, Moozy_35, Mossy_58, MrAaronian_43, Mudcat_45, Muglass_48, Mysticmoon_55, Nadmeg_56, Namo_50, NapoleonB_48, Nason_48, Natasha_44, Natsu_33, Navi1117_49, Nithya_55, Odesza_53, OhMyWard_53, OlgasClover_56, OlympicHelado_49, Onestar_43, Pepy6_090, Perkunas_55, PerroGrande22_71, PestoPenguin_57, Petito_56, Phaila_48, Phepper_56, Pherobrine_56, PherryCruz_35, Pippin15_44, Poco6_088, PoeMe_47, Popy_49, Powelldog_47, ProfFrink_43, Rainydai_44, Raunak_43, RavenPuff_35, Regigigas_46, Remlit_51, Renaldo_52, Rickmore_51, Rima_50, Roney_54, RosaAsantewaa_32, Runhaar_55, RustyBoy_44, Salk_43, Sangak_34, Scap1_35, Schwartz33_56, Secretariat_54, SendItCS_43, Serenabean_42, ShaggyRogers_55, SheRa_36, Shiba_42, Sloopyjoe_43, Soshi_48, Spain_46, Spectropatronm_49, Sporto_44, Sprinkle_41, StarLord_43, Stardom_45, Stardrop_47, Stayer_43, Sunny4976_48, SweetCrkHerbs_55, Sweetclover_41, TaidaOne_49, Tairn4Wing_56, Talon44_55, Tanis_54, TenaciousP_55, Tenney120_48, Thiqqums_45, TieDye_48, Tonaltzin_53, TonyStarch_48, Tribby_48, TrixiePhattel_48, Trufflozitus_55, Untouchable_56, Uzumaki_45, Vardy_54, Wigberry_49, Xenomorph_44, YoshiYama_48, Yotsuba_44, Zeina_48, Zeph_57,

Genes that have the "Most Annotated" start but do not call it:
• Artorias_54, Elver_94, Gill_54, JeNeSaisPas_91, JulesRay_54, Magel_55, NoPickles_53, Paella_95, Qui_95,

Genes that do not have the "Most Annotated" start:
• Acai_45, AreFloNak_45, Bouchard_44, Breylor17_45, Brunswick_45, CapnMurica_42, CastorTray_47, Caterpillar_41, Chlochlo_46, ClubPenguin_48, Darby_43, DevitoJr_43, Dinallo_44, ElephantMan_44, Giantsbane_46, Gordon_42, Hemma_44, Ingrid_46, Inked_48, Issa_44, LilHuddy_46, Loretta_46, LucySwiss_45, Makai_44, MediumFry_42, MiniBagel_44, Nightmare_46, Niktson_44, Nivinsha_45, Phaby_46, ScienceWizSam_45, Shepard_48, Synepsis_43, Tatanka_43, Teacup_45, Tenno_45, Tipton_47, Tokki_48, Truckee_42, Trustiboi_44, Westerlin_44, Zippen_46,

Summary by start number:

Start 5:
• Found in 1 of 263 (0.4%) of genes in pham
• Manual Annotations of this start: 1 of 221
• Called 100.0% of time when present

• Phage (with cluster) where this start called: MediumFry_42 (AU4),

Start 18:
• Found in 13 of 263 (4.9%) of genes in pham
• Manual Annotations of this start: 4 of 221
• Called 30.8% of time when present
• Phage (with cluster) where this start called: Elver_94 (FK), JeNeSaisPas_91 (FK), Paella_95 (FK), Qui_95 (FK),

Start 24:
• Found in 1 of 263 (0.4%) of genes in pham
• Manual Annotations of this start: 1 of 221
• Called 100.0% of time when present
• Phage (with cluster) where this start called: ClubPenguin_48 (BI7),

Start 25:
• Found in 41 of 263 (15.6%) of genes in pham
• Manual Annotations of this start: 36 of 221
• Called 97.6% of time when present
• Phage (with cluster) where this start called: Acai_45 (AU1), AreFloNak_45 (AU1), Bouchard_44 (AU2), Breylor17_45 (AU1), Brunswick_45 (AU1), CapnMurica_42 (AU1), CastorTray_47 (AU1), Caterpillar_41 (AU4), Chlochlo_46 (AU2), Darby_43 (AU1), DevitoJr_43 (AU1), Dinallo_44 (AU1), ElephantMan_44 (AU1), Giantsbane_46 (AU2), Gordon_42 (AU1), Hemma_44 (AU1), Ingrid_46 (AU3), Inked_48 (AU7), Issa_44 (AU1), LilHuddy_46 (AU2), Loretta_46 (AU3), LucySwiss_45 (AU1), Makai_44 (AU5), MiniBagel_44 (AU1), Nightmare_46 (AU1), Niktson_44 (AU1), Nivinsha_45 (AU1), Phaby_46 (AU2), ScienceWizSam_45 (AU1), Shepard_48 (AU2), Synepsis_43 (AU1), Tatanka_43 (AU1), Teacup_45 (AU1), Tenno_45 (AU1), Tipton_47 (AU2), Tokki_48 (AU2), Truckee_42 (AU5), Trustiboi_44 (AU1), Westerlin_44 (AU1), Zippen_46 (AU7),

Start 26:
• Found in 221 of 263 (84.0%) of genes in pham
• Manual Annotations of this start: 174 of 221
• Called 95.9% of time when present
• Phage (with cluster) where this start called: AddiRose_41 (JA), Aflac_54 (DJ), AlainaMarie_54 (DJ), Aloe25_56 (DJ), Altjira_49 (AU6), Anandi_49 (AU4), Annihilus_36 (BI2), Arataki_53 (DJ), Arcadia_48 (AM), Argan_46 (AU6), ArtetaBall_55 (DJ), Arzan_50 (FI), Avazak_55 (DJ), BarbieDoll_51 (AU6), Barbonzobean_49 (AU6), BenitoAntonio_48 (AM), Benllo_47 (AM), BetterYeti_55 (DJ), Bilo_34 (BI2), Bing_52 (BI5), Biscute_47 (AU6), BlackHoleSun_49 (AU6), Blanky_53 (DJ), BluerMoon_53 (DJ), Boog_42 (AW), Bowling_48 (AM), BronxBay_43 (AW), Bugg_56 (DJ), Burley_55 (DJ), CWormy_54 (DJ), Camille_40 (EL), Captrips_53 (DJ), Capybara_54 (DJ), Cheesy_48 (AM), CherryBlossom_49 (BI1), ChickyNuggy_56 (DJ), Chikenjars_53 (DJ), Circum_50 (AM), Citrus_54 (DJ), Conley_53 (DJ), Correa_46 (AM), CricKo_45 (BI4), Crocheter_55 (DJ), Daddyjeff_42 (JA), Damascus_42 (EL), Dancer_54 (DJ), Demure_53 (DJ), Dialga_55 (DJ), Ditters_35 (BI2), DizzyRudy_44 (EL), Djungelskog_43 (AW), DoctorPepper_42 (AW), Doxi13_36 (BI2), DrGrey_48 (BI1), Duffington_53 (DJ), Dynamite_48 (AM), Eddiemania_57 (DJ), Eevee_44 (JA), Egad_43 (AW), Elsa_48 (AM), EndAve_56 (DJ), Esketit_49 (BI1), Espio_49 (BI1), Fazel_55 (DJ), FidgetOrca_49 (BI1), Figliar_53 (DJ), Football_56 (DJ), FortCran_54 (DJ), FrodoSwaggins_49 (BI1), FromIndy_45 (BI4), Gandionco_91 (FK), GantcherGoblin_46 (AU6), GermyBearimy_56 (FI), GirlPower_44 (BI1), Glintora_56

(DJ), GoCrazy_47 (AM), GoblinVoyage_36 (BI2), Gravy_53 (DJ), Gusicorn_56 (DJ), Hajile_50 (BI5), Hankly_47 (AM), HazuAndZazu_48 (BI1), Heisenberger_47 (AM), HerbBucket_43 (AW), Hortihabitatio_55 (DJ), Hoshi_48 (BI1), HotFries_35 (BI2), Hydrus_57 (DJ), IceWarrior_48 (BI1), Indigenous_49 (BI1), JEGGS_47 (AM), Jaylociraptor_49 (BI1), Jazzy4900_49 (FI), Jeremy4pt0_42 (AW), Jodelie19_54 (DJ), JoyLin_44 (JA), Kardashian_47 (BI6), Kardesai_49 (AM), KeaneyLin_47 (AM), Kenosha_54 (DJ), Kerry_53 (DJ), KevinMinion_47 (AU6), Kinny_50 (AU6), Kureo_93 (FK), Leathea_47 (AU6), Lewando_49 (AU6), LibertyBell_44 (BI3), Linda_43 (AW), Luthien_56 (DJ), Madamato_50 (BI1), Madvan_55 (DJ), MajinBuu_54 (DJ), Mardi_47 (AU6), Marianna39_92 (FK), Maya_49 (BI1), Meibysrarus_47 (BI1), Mema_40 (EL), Michelle_43 (AW), Miek_44 (BI4), Monse_35 (BI2), Mooshroom_50 (AM), Moozy_35 (BI2), Mossy_58 (DJ), MrAaronian_43 (AW), Mudcat_45 (AM), Muglass_48 (AU6), Mysticmoon_55 (DJ), Nadmeg_56 (DJ), Namo_50 (BI1), NapoleonB_48 (AM), Nason_48 (AM), Natasha_44 (AW), Natsu_33 (BI2), Navi1117_49 (AU6), Nithya_55 (DJ), Odesza_53 (DJ), OhMyWard_53 (DJ), OlgasClover_56 (DJ), OlympicHelado_49 (BI1), Onestar_43 (AW), Pepy6_090 (CC), Perkunas_55 (DJ), PerroGrande22_71 (CC), PestoPenguin_57 (DJ), Petito_56 (DJ), Phaila_48 (AU6), Phepper_56 (DJ), Pherobrine_56 (DJ), PherryCruz_35 (BI2), Pippin15_44 (JA), Poco6_088 (CC), PoeMe_47 (AU6), Popy_49 (BI1), Powelldog_47 (AW), ProfFrink_43 (AW), Rainydai_44 (BI4), Raunak_43 (AW), RavenPuff_35 (BI2), Regigigas_46 (BI4), Remlit_51 (AU6), Renaldo_52 (AU6), Rickmore_51 (DJ), Rima_50 (BI1), Roney_54 (DJ), RosaAsantewaa_32 (BI2), Runhaar_55 (DJ), RustyBoy_44 (AW), Salk_43 (AW), Sangak_34 (BI2), Scap1_35 (BI2), Schwartz33_56 (DJ), Secretariat_54 (DJ), SendItCS_43 (BI4), Serenabean_42 (JA), ShaggyRogers_55 (DJ), SheRa_36 (BI2), Shiba_42 (AW), Sloopyjoe_43 (AW), Soshi_48 (BI1), Spain_46 (AW), Spectropatronm_49 (BI1), Sporto_44 (AW), Sprinkle_41 (AW), StarLord_43 (AW), Stardom_45 (AM), Stardrop_47 (AU6), Stayer_43 (AW), Sunny4976_48 (FI), SweetCrkHerbs_55 (DJ), Sweetclover_41 (JA), TaidaOne_49 (BI1), Tairn4Wing_56 (DJ), Talon44_55 (DJ), Tanis_54 (DJ), TenaciousP_55 (DJ), Tenney120_48 (AU6), Thiqqums_45 (BI4), TieDye_48 (BI1), Tonaltzin_53 (DJ), TonyStarch_48 (BI1), Tribby_48 (AM), TrixiePhattel_48 (AU6), Trufflozitus_55 (DJ), Untouchable_56 (DJ), Uzumaki_45 (AU6), Vardy_54 (DJ), Wigberry_49 (BI5), Xenomorph_44 (AM), YoshiYama_48 (AM), Yotsuba_44 (JA), Zeina_48 (AU6), Zeph_57 (DJ),

Start 27:
• Found in 28 of 263 (10.6%) of genes in pham
• Manual Annotations of this start: 5 of 221
• Called 17.9% of time when present
• Phage (with cluster) where this start called: Artorias_54 (DJ), Gill_54 (DJ), JulesRay_54 (DJ), Magel_55 (DJ), NoPickles_53 (DJ),

Summary by clusters:

There are 22 clusters represented in this pham: DJ, FI, FK, JA, AU1, AU3, AU2, AU5, AU4, AU7, AU6, EL, CC, AM, AW, BI6, BI7, BI4, BI5, BI2, BI3, BI1,

Info for manual annotations of cluster AM:
•Start number 26 was manually annotated 21 times for cluster AM.

Info for manual annotations of cluster AU1:
•Start number 25 was manually annotated 21 times for cluster AU1.

Info for manual annotations of cluster AU2:

•Start number 25 was manually annotated 8 times for cluster AU2.

Info for manual annotations of cluster AU3:
•Start number 25 was manually annotated 2 times for cluster AU3.

Info for manual annotations of cluster AU4:
•Start number 5 was manually annotated 1 time for cluster AU4.
•Start number 25 was manually annotated 1 time for cluster AU4.
•Start number 26 was manually annotated 1 time for cluster AU4.

Info for manual annotations of cluster AU5:
•Start number 25 was manually annotated 2 times for cluster AU5.

Info for manual annotations of cluster AU6:
•Start number 26 was manually annotated 16 times for cluster AU6.

Info for manual annotations of cluster AU7:
•Start number 25 was manually annotated 2 times for cluster AU7.

Info for manual annotations of cluster AW:
•Start number 26 was manually annotated 20 times for cluster AW.

Info for manual annotations of cluster BI1:
•Start number 26 was manually annotated 24 times for cluster BI1.

Info for manual annotations of cluster BI2:
•Start number 26 was manually annotated 13 times for cluster BI2.

Info for manual annotations of cluster BI3:
•Start number 26 was manually annotated 1 time for cluster BI3.

Info for manual annotations of cluster BI4:
•Start number 26 was manually annotated 5 times for cluster BI4.

Info for manual annotations of cluster BI5:
•Start number 26 was manually annotated 2 times for cluster BI5.

Info for manual annotations of cluster BI6:
•Start number 26 was manually annotated 1 time for cluster BI6.

Info for manual annotations of cluster BI7:
•Start number 24 was manually annotated 1 time for cluster BI7.

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

Info for manual annotations of cluster DJ:
•Start number 26 was manually annotated 58 times for cluster DJ.
•Start number 27 was manually annotated 5 times for cluster DJ.

Info for manual annotations of cluster EL:
•Start number 26 was manually annotated 3 times for cluster EL.

Info for manual annotations of cluster FK:
•Start number 18 was manually annotated 4 times for cluster FK.

Info for manual annotations of cluster JA:
•Start number 26 was manually annotated 8 times for cluster JA.

Gene Information:

Gene: Acai_45 Start: 33525, Stop: 34184, Start Num: 25
Candidate Starts for Acai_45:
(Start: 25 @33525 has 36 MA's), (36, 33594), (42, 33618), (80, 33837), (103, 33960), (156, 34146),

Gene: AddiRose_41 Start: 30292, Stop: 30936, Start Num: 26
Candidate Starts for AddiRose_41:
(Start: 26 @30292 has 174 MA's), (39, 30376), (79, 30583), (86, 30631), (90, 30655), (94, 30670), (104, 30724),

Gene: Aflac_54 Start: 37624, Stop: 38262, Start Num: 26
Candidate Starts for Aflac_54:
(Start: 26 @37624 has 174 MA's), (66, 37831), (68, 37837), (86, 37975), (135, 38155), (158, 38233), (160, 38245),

Gene: AlainaMarie_54 Start: 37610, Stop: 38248, Start Num: 26
Candidate Starts for AlainaMarie_54:
(Start: 26 @37610 has 174 MA's), (66, 37817), (68, 37823), (86, 37961), (135, 38141), (158, 38219), (160, 38231),

Gene: Aloe25_56 Start: 37709, Stop: 38344, Start Num: 26
Candidate Starts for Aloe25_56:
(Start: 26 @37709 has 174 MA's), (66, 37916), (86, 38060), (158, 38315), (160, 38327),

Gene: Altjira_49 Start: 33420, Stop: 33953, Start Num: 26
Candidate Starts for Altjira_49:
(Start: 26 @33420 has 174 MA's), (47, 33534), (55, 33561), (62, 33591), (67, 33615), (86, 33753), (90, 33777), (113, 33873), (137, 33915), (141, 33933),

Gene: Anandi_49 Start: 33821, Stop: 34489, Start Num: 26
Candidate Starts for Anandi_49:
(Start: 26 @33821 has 174 MA's), (36, 33890), (40, 33911), (42, 33914), (88, 34175), (115, 34307), (125, 34331), (128, 34340), (147, 34412), (154, 34445),

Gene: Annihilus_36 Start: 26356, Stop: 26877, Start Num: 26
Candidate Starts for Annihilus_36:
(Start: 26 @26356 has 174 MA's), (41, 26449), (88, 26692), (89, 26695), (90, 26707), (92, 26719), (124, 26845),

Gene: Arataki_53 Start: 36745, Stop: 37380, Start Num: 26
Candidate Starts for Arataki_53:
(Start: 26 @36745 has 174 MA's), (66, 36952), (73, 36997), (78, 37054), (86, 37096), (158, 37351), (160, 37363),

Gene: Arcadia_48 Start: 31859, Stop: 32455, Start Num: 26
Candidate Starts for Arcadia_48:
(Start: 26 @31859 has 174 MA's), (59, 32048), (65, 32075), (77, 32174), (88, 32228), (90, 32243), (151, 32447),

Gene: AreFloNak_45 Start: 33292, Stop: 33951, Start Num: 25
Candidate Starts for AreFloNak_45:
(17, 33253), (23, 33268), (Start: 25 @33292 has 36 MA's), (36, 33361), (42, 33385), (61, 33469), (66, 33493), (140, 33847),

Gene: Argan_46 Start: 32018, Stop: 32551, Start Num: 26
Candidate Starts for Argan_46:
(Start: 26 @32018 has 174 MA's), (47, 32132), (55, 32159), (62, 32189), (86, 32351), (90, 32375), (113, 32471), (137, 32513), (141, 32531),

Gene: ArtetaBall_55 Start: 37934, Stop: 38569, Start Num: 26
Candidate Starts for ArtetaBall_55:
(Start: 26 @37934 has 174 MA's), (66, 38141), (86, 38285), (158, 38540), (160, 38552),

Gene: Artorias_54 Start: 36960, Stop: 37574, Start Num: 27
Candidate Starts for Artorias_54:
(Start: 26 @36957 has 174 MA's), (Start: 27 @36960 has 5 MA's), (66, 37164), (86, 37308), (132, 37473), (160, 37560),

Gene: Arzan_50 Start: 33168, Stop: 33752, Start Num: 26
Candidate Starts for Arzan_50:
(Start: 26 @33168 has 174 MA's), (60, 33333), (62, 33339), (79, 33465), (81, 33474), (103, 33576), (104, 33585), (140, 33672), (153, 33708),

Gene: Avazak_55 Start: 37284, Stop: 37901, Start Num: 26
Candidate Starts for Avazak_55:
(Start: 26 @37284 has 174 MA's), (Start: 27 @37287 has 5 MA's), (66, 37491), (86, 37635), (137, 37809), (160, 37887),

Gene: BarbieDoll_51 Start: 33705, Stop: 34238, Start Num: 26
Candidate Starts for BarbieDoll_51:
(Start: 26 @33705 has 174 MA's), (47, 33819), (55, 33846), (62, 33876), (86, 34038), (90, 34062), (137, 34200), (141, 34218),

Gene: Barbonzobean_49 Start: 33749, Stop: 34282, Start Num: 26
Candidate Starts for Barbonzobean_49:
(Start: 26 @33749 has 174 MA's), (47, 33863), (55, 33890), (62, 33920), (86, 34082), (90, 34106), (137, 34244),

Gene: BenitoAntonio_48 Start: 31423, Stop: 31992, Start Num: 26
Candidate Starts for BenitoAntonio_48:
(Start: 26 @31423 has 174 MA's), (59, 31612), (65, 31639), (75, 31714), (77, 31738), (88, 31792),

Gene: Benllo_47 Start: 32107, Stop: 32676, Start Num: 26
Candidate Starts for Benllo_47:
(Start: 26 @32107 has 174 MA's), (59, 32296), (65, 32323), (75, 32398), (77, 32422), (88, 32476), (90, 32491),

Gene: BetterYeti_55 Start: 37708, Stop: 38343, Start Num: 26
Candidate Starts for BetterYeti_55:
(Start: 26 @37708 has 174 MA's), (66, 37915), (86, 38059), (158, 38314), (160, 38326),

Gene: Bilo_34 Start: 26468, Stop: 26989, Start Num: 26
Candidate Starts for Bilo_34:
(Start: 26 @26468 has 174 MA's), (32, 26507), (41, 26561), (88, 26804), (89, 26807), (90, 26819), (124, 26957),

Gene: Bing_52 Start: 33497, Stop: 34048, Start Num: 26
Candidate Starts for Bing_52:
(Start: 26 @33497 has 174 MA's), (28, 33509), (62, 33671), (65, 33689), (71, 33719), (89, 33854), (102, 33935), (116, 33986),

Gene: Biscute_47 Start: 33357, Stop: 33890, Start Num: 26
Candidate Starts for Biscute_47:
(Start: 26 @33357 has 174 MA's), (47, 33471), (55, 33498), (62, 33528), (86, 33690), (90, 33714), (137, 33852),

Gene: BlackHoleSun_49 Start: 32149, Stop: 32682, Start Num: 26
Candidate Starts for BlackHoleSun_49:
(Start: 26 @32149 has 174 MA's), (47, 32263), (55, 32290), (62, 32320), (67, 32344), (86, 32482), (90, 32506), (113, 32602), (137, 32644), (141, 32662),

Gene: Blanky_53 Start: 39240, Stop: 39881, Start Num: 26
Candidate Starts for Blanky_53:
(Start: 26 @39240 has 174 MA's), (34, 39288), (42, 39336), (54, 39384), (66, 39447), (86, 39591), (90, 39615), (93, 39630), (138, 39780), (142, 39795), (158, 39852), (160, 39864),

Gene: BluerMoon_53 Start: 37653, Stop: 38291, Start Num: 26
Candidate Starts for BluerMoon_53:
(Start: 26 @37653 has 174 MA's), (66, 37860), (68, 37866), (86, 38004), (135, 38184), (158, 38262), (160, 38274),

Gene: Boog_42 Start: 30697, Stop: 31257, Start Num: 26
Candidate Starts for Boog_42:
(Start: 26 @30697 has 174 MA's), (39, 30784), (43, 30796), (52, 30826), (57, 30850), (72, 30940), (101, 31099),

Gene: Bouchard_44 Start: 33214, Stop: 33864, Start Num: 25
Candidate Starts for Bouchard_44:
(Start: 25 @33214 has 36 MA's), (36, 33283), (42, 33307),

Gene: Bowling_48 Start: 31632, Stop: 32201, Start Num: 26
Candidate Starts for Bowling_48:
(Start: 26 @31632 has 174 MA's), (59, 31821), (65, 31848), (75, 31923), (77, 31947), (88, 32001),

Gene: Breylor17_45 Start: 34090, Stop: 34749, Start Num: 25
Candidate Starts for Breylor17_45:
(Start: 25 @34090 has 36 MA's), (36, 34159), (42, 34183), (61, 34267), (66, 34291), (103, 34525), (140, 34645), (144, 34657), (150, 34678),

Gene: BronxBay_43 Start: 30995, Stop: 31555, Start Num: 26
Candidate Starts for BronxBay_43:
(Start: 26 @30995 has 174 MA's), (39, 31082), (43, 31094), (52, 31124), (57, 31148), (72, 31238), (101, 31397),

Gene: Brunswick_45 Start: 33172, Stop: 33831, Start Num: 25
Candidate Starts for Brunswick_45:
(Start: 25 @33172 has 36 MA's), (36, 33241), (42, 33265), (90, 33541), (103, 33607), (156, 33793),

Gene: Bugg_56 Start: 37002, Stop: 37619, Start Num: 26
Candidate Starts for Bugg_56:
(Start: 26 @37002 has 174 MA's), (Start: 27 @37005 has 5 MA's), (66, 37209), (86, 37353), (132, 37518), (160, 37605),

Gene: Burley_55 Start: 37396, Stop: 38031, Start Num: 26
Candidate Starts for Burley_55:
(Start: 26 @37396 has 174 MA's), (66, 37603), (86, 37747), (158, 38002), (160, 38014),

Gene: CWormy_54 Start: 37347, Stop: 37982, Start Num: 26
Candidate Starts for CWormy_54:
(Start: 26 @37347 has 174 MA's), (66, 37554), (86, 37698), (158, 37953), (160, 37965),

Gene: Camille_40 Start: 28210, Stop: 28920, Start Num: 26
Candidate Starts for Camille_40:
(Start: 26 @28210 has 174 MA's), (52, 28339), (58, 28366), (76, 28486), (89, 28558), (93, 28585), (138, 28756),

Gene: CapnMurica_42 Start: 34070, Stop: 34729, Start Num: 25
Candidate Starts for CapnMurica_42:
(Start: 25 @34070 has 36 MA's), (36, 34139), (42, 34163), (90, 34439), (156, 34691),

Gene: Captrips_53 Start: 36432, Stop: 37049, Start Num: 26
Candidate Starts for Captrips_53:
(Start: 26 @36432 has 174 MA's), (Start: 27 @36435 has 5 MA's), (66, 36639), (86, 36783), (132, 36948), (137, 36957), (160, 37035),

Gene: Capybara_54 Start: 36783, Stop: 37382, Start Num: 26
Candidate Starts for Capybara_54:
(Start: 26 @36783 has 174 MA's), (Start: 27 @36786 has 5 MA's), (43, 36885), (66, 36990), (86, 37134), (124, 37284), (132, 37299), (160, 37368),

Gene: CastorTray_47 Start: 33900, Stop: 34559, Start Num: 25
Candidate Starts for CastorTray_47:
(Start: 25 @33900 has 36 MA's), (36, 33969), (42, 33993), (61, 34077), (66, 34101), (140, 34455),

Gene: Caterpillar_41 Start: 32360, Stop: 33028, Start Num: 25
Candidate Starts for Caterpillar_41:
(19, 32324), (Start: 25 @32360 has 36 MA's), (36, 32429), (42, 32453), (156, 32990), (163, 33023),

Gene: Cheesy_48 Start: 31608, Stop: 32177, Start Num: 26
Candidate Starts for Cheesy_48:
(Start: 26 @31608 has 174 MA's), (59, 31797), (65, 31824), (75, 31899), (77, 31923), (88, 31977),

Gene: CherryBlossom_49 Start: 32728, Stop: 33255, Start Num: 26
Candidate Starts for CherryBlossom_49:
(10, 32665), (Start: 26 @32728 has 174 MA's), (38, 32815), (41, 32824), (45, 32839), (61, 32896), (65, 32917), (82, 33034), (89, 33070), (102, 33148), (124, 33214), (127, 33223), (133, 33238),

Gene: ChickyNuggy_56 Start: 37041, Stop: 37658, Start Num: 26
Candidate Starts for ChickyNuggy_56:
(Start: 26 @37041 has 174 MA's), (Start: 27 @37044 has 5 MA's), (66, 37248), (86, 37392), (137, 37566), (160, 37644),

Gene: Chikenjars_53 Start: 37622, Stop: 38260, Start Num: 26
Candidate Starts for Chikenjars_53:
(Start: 26 @37622 has 174 MA's), (66, 37829), (68, 37835), (86, 37973), (135, 38153), (158, 38231), (160, 38243),

Gene: Chlochlo_46 Start: 33279, Stop: 33929, Start Num: 25
Candidate Starts for Chlochlo_46:
(Start: 25 @33279 has 36 MA's), (36, 33348), (42, 33372),

Gene: Circum_50 Start: 32270, Stop: 32866, Start Num: 26
Candidate Starts for Circum_50:
(Start: 26 @32270 has 174 MA's), (59, 32459), (65, 32486), (77, 32585), (88, 32639), (90, 32654), (151, 32858),

Gene: Citrus_54 Start: 37900, Stop: 38538, Start Num: 26
Candidate Starts for Citrus_54:
(Start: 26 @37900 has 174 MA's), (66, 38107), (68, 38113), (86, 38251), (135, 38431), (158, 38509), (160, 38521),

Gene: ClubPenguin_48 Start: 32048, Stop: 32584, Start Num: 24
Candidate Starts for ClubPenguin_48:
(Start: 24 @32048 has 1 MA's), (29, 32063), (41, 32144), (70, 32276), (77, 32345), (79, 32351), (80, 32357), (90, 32414), (102, 32483), (112, 32528),

Gene: Conley_53 Start: 37570, Stop: 38184, Start Num: 26
Candidate Starts for Conley_53:
(Start: 26 @37570 has 174 MA's), (Start: 27 @37573 has 5 MA's), (66, 37777), (86, 37921), (100, 37990), (104, 38017), (126, 38074), (160, 38170),

Gene: Correa_46 Start: 30727, Stop: 31323, Start Num: 26
Candidate Starts for Correa_46:
(Start: 26 @30727 has 174 MA's), (59, 30916), (65, 30943), (75, 31018), (77, 31042), (88, 31096), (90, 31111), (151, 31315),

Gene: CricKo_45 Start: 30767, Stop: 31297, Start Num: 26
Candidate Starts for CricKo_45:
(Start: 26 @30767 has 174 MA's), (38, 30857), (41, 30866), (56, 30905), (57, 30914), (66, 30962), (102, 31184), (114, 31232), (121, 31250),

Gene: Crocheter_55 Start: 37792, Stop: 38427, Start Num: 26
Candidate Starts for Crocheter_55:
(Start: 26 @37792 has 174 MA's), (66, 37999), (86, 38143), (158, 38398), (160, 38410),

Gene: Daddyjeff_42 Start: 30571, Stop: 31212, Start Num: 26
Candidate Starts for Daddyjeff_42:
(Start: 26 @30571 has 174 MA's), (39, 30655), (79, 30862), (86, 30910), (104, 31003),

Gene: Damascus_42 Start: 29644, Stop: 30312, Start Num: 26
Candidate Starts for Damascus_42:
(Start: 26 @29644 has 174 MA's), (52, 29773), (63, 29821), (76, 29920), (89, 29992), (93, 30019), (115, 30118), (155, 30250),

Gene: Dancer_54 Start: 36692, Stop: 37309, Start Num: 26
Candidate Starts for Dancer_54:
(Start: 26 @36692 has 174 MA's), (Start: 27 @36695 has 5 MA's), (66, 36899), (86, 37043), (132, 37208), (160, 37295),

Gene: Darby_43 Start: 33072, Stop: 33731, Start Num: 25
Candidate Starts for Darby_43:
(Start: 25 @33072 has 36 MA's), (36, 33141), (42, 33165), (61, 33249), (66, 33273), (103, 33507), (140, 33627), (144, 33639), (150, 33660),

Gene: Demure_53 Start: 36745, Stop: 37380, Start Num: 26
Candidate Starts for Demure_53:
(Start: 26 @36745 has 174 MA's), (66, 36952), (73, 36997), (78, 37054), (86, 37096), (158, 37351), (160, 37363),

Gene: DevitoJr_43 Start: 33260, Stop: 33919, Start Num: 25
Candidate Starts for DevitoJr_43:
(Start: 25 @33260 has 36 MA's), (36, 33329), (42, 33353), (61, 33437), (140, 33815), (150, 33848),

Gene: Dialga_55 Start: 37961, Stop: 38596, Start Num: 26
Candidate Starts for Dialga_55:
(Start: 26 @37961 has 174 MA's), (66, 38168), (86, 38312), (158, 38567), (160, 38579),

Gene: Dinallo_44 Start: 34379, Stop: 35038, Start Num: 25
Candidate Starts for Dinallo_44:
(Start: 25 @34379 has 36 MA's), (36, 34448), (42, 34472), (90, 34748), (156, 35000),

Gene: Ditters_35 Start: 26795, Stop: 27316, Start Num: 26
Candidate Starts for Ditters_35:
(Start: 26 @26795 has 174 MA's), (32, 26834), (41, 26888), (52, 26912), (57, 26936), (90, 27146),

Gene: DizzyRudy_44 Start: 29531, Stop: 30199, Start Num: 26
Candidate Starts for DizzyRudy_44:
(Start: 26 @29531 has 174 MA's), (52, 29660), (63, 29708), (76, 29807), (89, 29879), (93, 29906), (109, 29993), (115, 30005), (155, 30137),

Gene: Djungelskog_43 Start: 30994, Stop: 31554, Start Num: 26
Candidate Starts for Djungelskog_43:
(Start: 26 @30994 has 174 MA's), (39, 31081), (43, 31093), (52, 31123), (57, 31147), (72, 31237), (101, 31396),

Gene: DoctorPepper_42 Start: 30699, Stop: 31259, Start Num: 26
Candidate Starts for DoctorPepper_42:

(Start: 26 @30699 has 174 MA's), (39, 30786), (43, 30798), (52, 30828), (57, 30852), (72, 30942), (101, 31101),

Gene: Doxi13_36 Start: 26330, Stop: 26851, Start Num: 26
Candidate Starts for Doxi13_36:
(Start: 26 @26330 has 174 MA's), (32, 26369), (41, 26423), (88, 26666), (89, 26669), (90, 26681), (92, 26693), (102, 26750),

Gene: DrGrey_48 Start: 33096, Stop: 33620, Start Num: 26
Candidate Starts for DrGrey_48:
(Start: 26 @33096 has 174 MA's), (38, 33183), (41, 33192), (45, 33207), (61, 33264), (65, 33285), (82, 33402), (89, 33438), (102, 33516), (105, 33534), (110, 33558), (124, 33582), (127, 33591),

Gene: Duffington_53 Start: 37317, Stop: 37955, Start Num: 26
Candidate Starts for Duffington_53:
(Start: 26 @37317 has 174 MA's), (66, 37524), (68, 37530), (86, 37668), (135, 37848), (158, 37926), (160, 37938),

Gene: Dynamite_48 Start: 31823, Stop: 32392, Start Num: 26
Candidate Starts for Dynamite_48:
(Start: 26 @31823 has 174 MA's), (59, 32012), (65, 32039), (75, 32114), (77, 32138), (88, 32192),

Gene: Eddiemania_57 Start: 38537, Stop: 39172, Start Num: 26
Candidate Starts for Eddiemania_57:
(Start: 26 @38537 has 174 MA's), (66, 38744), (68, 38750), (86, 38888), (158, 39143), (160, 39155),

Gene: Eevee_44 Start: 33674, Stop: 34315, Start Num: 26
Candidate Starts for Eevee_44:
(Start: 26 @33674 has 174 MA's), (31, 33704), (37, 33752), (62, 33848), (79, 33968), (85, 34010), (86, 34016), (104, 34103),

Gene: Egad_43 Start: 30996, Stop: 31556, Start Num: 26
Candidate Starts for Egad_43:
(Start: 26 @30996 has 174 MA's), (39, 31083), (43, 31095), (52, 31125), (57, 31149), (72, 31239), (101, 31398),

Gene: ElephantMan_44 Start: 33745, Stop: 34404, Start Num: 25
Candidate Starts for ElephantMan_44:
(Start: 25 @33745 has 36 MA's), (36, 33814), (42, 33838), (103, 34180), (156, 34366),

Gene: Elsa_48 Start: 31859, Stop: 32455, Start Num: 26
Candidate Starts for Elsa_48:
(Start: 26 @31859 has 174 MA's), (59, 32048), (65, 32075), (77, 32174), (88, 32228), (90, 32243), (151, 32447),

Gene: Elver_94 Start: 52859, Stop: 53530, Start Num: 18
Candidate Starts for Elver_94:
(Start: 18 @52859 has 4 MA's), (Start: 26 @52898 has 174 MA's), (30, 52913), (74, 53150), (83, 53219), (89, 53246), (104, 53342), (153, 53486),

Gene: EndAve_56 Start: 37790, Stop: 38428, Start Num: 26
Candidate Starts for EndAve_56:

(Start: 26 @37790 has 174 MA's), (66, 37997), (68, 38003), (86, 38141), (135, 38321), (158, 38399), (160, 38411),

Gene: Esketit_49 Start: 32839, Stop: 33366, Start Num: 26
Candidate Starts for Esketit_49:
(10, 32776), (13, 32794), (Start: 26 @32839 has 174 MA's), (38, 32926), (41, 32935), (45, 32950), (61, 33007), (65, 33028), (82, 33145), (89, 33181), (102, 33259), (124, 33325), (127, 33334), (133, 33349),

Gene: Espio_49 Start: 33491, Stop: 34015, Start Num: 26
Candidate Starts for Espio_49:
(Start: 26 @33491 has 174 MA's), (38, 33578), (41, 33587), (45, 33602), (61, 33659), (65, 33680), (82, 33797), (89, 33833), (102, 33911), (105, 33929), (110, 33953), (124, 33977), (127, 33986),

Gene: Fazel_55 Start: 37262, Stop: 37894, Start Num: 26
Candidate Starts for Fazel_55:
(Start: 26 @37262 has 174 MA's), (34, 37310), (54, 37406), (66, 37469), (86, 37613), (93, 37652), (126, 37766), (146, 37829), (158, 37865), (160, 37877),

Gene: FidgetOrca_49 Start: 32832, Stop: 33359, Start Num: 26
Candidate Starts for FidgetOrca_49:
(10, 32769), (13, 32787), (Start: 26 @32832 has 174 MA's), (38, 32919), (41, 32928), (45, 32943), (61, 33000), (65, 33021), (82, 33138), (89, 33174), (102, 33252), (124, 33318), (127, 33327), (133, 33342),

Gene: Figliar_53 Start: 37692, Stop: 38330, Start Num: 26
Candidate Starts for Figliar_53:
(Start: 26 @37692 has 174 MA's), (66, 37899), (68, 37905), (86, 38043), (135, 38223), (158, 38301), (160, 38313),

Gene: Football_56 Start: 36838, Stop: 37455, Start Num: 26
Candidate Starts for Football_56:
(Start: 26 @36838 has 174 MA's), (Start: 27 @36841 has 5 MA's), (66, 37045), (86, 37189), (132, 37354), (137, 37363), (160, 37441),

Gene: FortCran_54 Start: 36957, Stop: 37574, Start Num: 26
Candidate Starts for FortCran_54:
(Start: 26 @36957 has 174 MA's), (Start: 27 @36960 has 5 MA's), (66, 37164), (86, 37308), (132, 37473), (160, 37560),

Gene: FrodoSwaggins_49 Start: 33490, Stop: 34014, Start Num: 26
Candidate Starts for FrodoSwaggins_49:
(Start: 26 @33490 has 174 MA's), (38, 33577), (41, 33586), (45, 33601), (61, 33658), (65, 33679), (82, 33796), (89, 33832), (102, 33910), (105, 33928), (110, 33952), (124, 33976), (127, 33985),

Gene: FromIndy_45 Start: 30371, Stop: 30901, Start Num: 26
Candidate Starts for FromIndy_45:
(Start: 26 @30371 has 174 MA's), (38, 30461), (41, 30470), (56, 30509), (57, 30518), (66, 30566), (102, 30788), (114, 30836), (121, 30854),

Gene: Gandionco_91 Start: 51754, Stop: 52386, Start Num: 26
Candidate Starts for Gandionco_91:
(Start: 18 @51715 has 4 MA's), (Start: 26 @51754 has 174 MA's), (30, 51769), (74, 52006), (83, 52075), (89, 52102), (104, 52198), (153, 52342),

Gene: GantcherGoblin_46 Start: 32217, Stop: 32750, Start Num: 26
Candidate Starts for GantcherGoblin_46:
(Start: 26 @32217 has 174 MA's), (47, 32331), (55, 32358), (62, 32388), (67, 32412), (86, 32550), (90, 32574), (113, 32670), (137, 32712), (141, 32730),

Gene: GermyBearimy_56 Start: 34512, Stop: 35096, Start Num: 26
Candidate Starts for GermyBearimy_56:
(Start: 26 @34512 has 174 MA's), (60, 34677), (62, 34683), (79, 34809), (81, 34818), (103, 34920), (104, 34929), (153, 35052),

Gene: Giantsbane_46 Start: 32465, Stop: 33115, Start Num: 25
Candidate Starts for Giantsbane_46:
(14, 32420), (22, 32435), (Start: 25 @32465 has 36 MA's), (36, 32534), (42, 32558),

Gene: Gill_54 Start: 36803, Stop: 37399, Start Num: 27
Candidate Starts for Gill_54:
(Start: 26 @36800 has 174 MA's), (Start: 27 @36803 has 5 MA's), (43, 36902), (66, 37007), (86, 37151), (124, 37301), (132, 37316), (160, 37385),

Gene: GirlPower_44 Start: 33290, Stop: 33820, Start Num: 26
Candidate Starts for GirlPower_44:
(Start: 26 @33290 has 174 MA's), (33, 33338), (38, 33377), (41, 33386), (45, 33401), (61, 33458), (62, 33461), (65, 33479), (81, 33602), (82, 33608), (89, 33644), (102, 33722), (124, 33788), (127, 33797), (131, 33809),

Gene: Glintora_56 Start: 38232, Stop: 38879, Start Num: 26
Candidate Starts for Glintora_56:
(Start: 26 @38232 has 174 MA's), (66, 38439), (86, 38583), (145, 38808), (149, 38817), (158, 38853),

Gene: GoCrazy_47 Start: 31735, Stop: 32331, Start Num: 26
Candidate Starts for GoCrazy_47:
(Start: 26 @31735 has 174 MA's), (59, 31924), (65, 31951), (77, 32050), (88, 32104), (90, 32119), (151, 32323),

Gene: GoblinVoyage_36 Start: 26330, Stop: 26851, Start Num: 26
Candidate Starts for GoblinVoyage_36:
(Start: 26 @26330 has 174 MA's), (41, 26423), (88, 26666), (89, 26669), (90, 26681), (92, 26693), (102, 26750),

Gene: Gordon_42 Start: 33925, Stop: 34584, Start Num: 25
Candidate Starts for Gordon_42:
(Start: 25 @33925 has 36 MA's), (36, 33994), (42, 34018), (61, 34102), (66, 34126), (103, 34360), (150, 34513),

Gene: Gravy_53 Start: 36473, Stop: 37072, Start Num: 26
Candidate Starts for Gravy_53:
(Start: 26 @36473 has 174 MA's), (Start: 27 @36476 has 5 MA's), (43, 36575), (66, 36680), (86, 36824), (124, 36974), (132, 36989), (160, 37058),

Gene: Gusicorn_56 Start: 37709, Stop: 38344, Start Num: 26
Candidate Starts for Gusicorn_56:
(Start: 26 @37709 has 174 MA's), (66, 37916), (86, 38060), (158, 38315), (160, 38327),

Gene: Hajile_50 Start: 32187, Stop: 32726, Start Num: 26
Candidate Starts for Hajile_50:
(Start: 18 @32151 has 4 MA's), (Start: 26 @32187 has 174 MA's), (28, 32199), (62, 32361), (65, 32379), (73, 32421), (87, 32523), (89, 32532), (102, 32613), (116, 32664), (121, 32679), (136, 32715),

Gene: Hankly_47 Start: 31036, Stop: 31605, Start Num: 26
Candidate Starts for Hankly_47:
(Start: 26 @31036 has 174 MA's), (59, 31225), (65, 31252), (75, 31327), (77, 31351), (88, 31405),

Gene: HazuAndZazu_48 Start: 33090, Stop: 33614, Start Num: 26
Candidate Starts for HazuAndZazu_48:
(10, 33027), (13, 33045), (Start: 26 @33090 has 174 MA's), (38, 33177), (41, 33186), (45, 33201), (61, 33258), (65, 33279), (82, 33396), (89, 33432), (102, 33510), (105, 33528), (110, 33552), (124, 33576), (127, 33585),

Gene: Heisenberger_47 Start: 31299, Stop: 31895, Start Num: 26
Candidate Starts for Heisenberger_47:
(Start: 26 @31299 has 174 MA's), (59, 31488), (65, 31515), (75, 31590), (77, 31614), (88, 31668), (90, 31683), (151, 31887),

Gene: Hemma_44 Start: 30335, Stop: 30985, Start Num: 25
Candidate Starts for Hemma_44:
(15, 30293), (Start: 18 @30299 has 4 MA's), (Start: 25 @30335 has 36 MA's), (36, 30404), (40, 30425), (42, 30428), (123, 30830), (140, 30881), (147, 30908),

Gene: HerbBucket_43 Start: 30696, Stop: 31256, Start Num: 26
Candidate Starts for HerbBucket_43:
(Start: 26 @30696 has 174 MA's), (39, 30783), (43, 30795), (52, 30825), (57, 30849), (72, 30939), (101, 31098),

Gene: Hortihabitatio_55 Start: 37498, Stop: 38130, Start Num: 26
Candidate Starts for Hortihabitatio_55:
(Start: 26 @37498 has 174 MA's), (34, 37546), (35, 37555), (42, 37594), (46, 37612), (66, 37705), (86, 37849), (93, 37888), (104, 37945), (126, 38002), (158, 38101), (160, 38113),

Gene: Hoshi_48 Start: 32436, Stop: 32963, Start Num: 26
Candidate Starts for Hoshi_48:
(10, 32373), (13, 32391), (Start: 26 @32436 has 174 MA's), (38, 32523), (41, 32532), (45, 32547), (61, 32604), (65, 32625), (82, 32742), (89, 32778), (102, 32856), (124, 32922), (127, 32931), (133, 32946),

Gene: HotFries_35 Start: 26374, Stop: 26895, Start Num: 26
Candidate Starts for HotFries_35:
(Start: 26 @26374 has 174 MA's), (41, 26467), (88, 26710), (89, 26713), (90, 26725), (92, 26737), (124, 26863),

Gene: Hydrus_57 Start: 38564, Stop: 39199, Start Num: 26
Candidate Starts for Hydrus_57:
(Start: 26 @38564 has 174 MA's), (66, 38771), (86, 38915), (158, 39170), (160, 39182),

Gene: IceWarrior_48 Start: 32518, Stop: 33045, Start Num: 26
Candidate Starts for IceWarrior_48:
(10, 32455), (Start: 26 @32518 has 174 MA's), (38, 32605), (41, 32614), (45, 32629), (61, 32686), (65, 32707), (82, 32824), (89, 32860), (102, 32938), (124, 33004), (127, 33013), (133, 33028),

Gene: Indigenous_49 Start: 32833, Stop: 33360, Start Num: 26
Candidate Starts for Indigenous_49:
(10, 32770), (13, 32788), (Start: 26 @32833 has 174 MA's), (38, 32920), (41, 32929), (45, 32944), (61, 33001), (65, 33022), (82, 33139), (89, 33175), (102, 33253), (124, 33319), (127, 33328), (133, 33343),

Gene: Ingrid_46 Start: 33203, Stop: 33853, Start Num: 25
Candidate Starts for Ingrid_46:
(15, 33164), (Start: 18 @33170 has 4 MA's), (Start: 25 @33203 has 36 MA's), (36, 33272), (42, 33296), (98, 33608), (123, 33698), (140, 33749), (147, 33776),

Gene: Inked_48 Start: 34345, Stop: 34989, Start Num: 25
Candidate Starts for Inked_48:
(Start: 25 @34345 has 36 MA's), (36, 34414),

Gene: Issa_44 Start: 33364, Stop: 34023, Start Num: 25
Candidate Starts for Issa_44:
(Start: 25 @33364 has 36 MA's), (36, 33433), (42, 33457), (66, 33565), (90, 33733), (103, 33799), (150, 33952), (156, 33985),

Gene: JEGGS_47 Start: 31353, Stop: 31949, Start Num: 26
Candidate Starts for JEGGS_47:
(Start: 26 @31353 has 174 MA's), (59, 31542), (65, 31569), (75, 31644), (77, 31668), (88, 31722), (90, 31737), (151, 31941),

Gene: Jaylociraptor_49 Start: 32832, Stop: 33359, Start Num: 26
Candidate Starts for Jaylociraptor_49:
(10, 32769), (13, 32787), (Start: 26 @32832 has 174 MA's), (38, 32919), (41, 32928), (45, 32943), (61, 33000), (65, 33021), (82, 33138), (89, 33174), (102, 33252), (124, 33318), (127, 33327), (133, 33342),

Gene: Jazzy4900_49 Start: 33968, Stop: 34558, Start Num: 26
Candidate Starts for Jazzy4900_49:
(Start: 26 @33968 has 174 MA's), (Start: 27 @33971 has 5 MA's), (50, 34091), (60, 34133), (62, 34139), (79, 34265), (81, 34274), (103, 34376), (104, 34385), (118, 34427), (153, 34514),

Gene: JeNeSaisPas_91 Start: 52289, Stop: 52960, Start Num: 18
Candidate Starts for JeNeSaisPas_91:
(Start: 18 @52289 has 4 MA's), (Start: 26 @52328 has 174 MA's), (30, 52343), (74, 52580), (83, 52649), (89, 52676), (104, 52772), (153, 52916),

Gene: Jeremy4pt0_42 Start: 30694, Stop: 31254, Start Num: 26
Candidate Starts for Jeremy4pt0_42:
(Start: 26 @30694 has 174 MA's), (39, 30781), (43, 30793), (52, 30823), (57, 30847), (72, 30937), (101, 31096),

Gene: Jodelie19_54 Start: 39096, Stop: 39734, Start Num: 26
Candidate Starts for Jodelie19_54:
(Start: 26 @39096 has 174 MA's), (66, 39303), (68, 39309), (86, 39447), (135, 39627), (158, 39705), (160, 39717),

Gene: JoyLin_44 Start: 33794, Stop: 34435, Start Num: 26
Candidate Starts for JoyLin_44:

(Start: 26 @33794 has 174 MA's), (31, 33824), (37, 33872), (62, 33968), (79, 34088), (86, 34136), (104, 34223),

Gene: JulesRay_54 Start: 36969, Stop: 37583, Start Num: 27
Candidate Starts for JulesRay_54:
(Start: 26 @36966 has 174 MA's), (Start: 27 @36969 has 5 MA's), (66, 37173), (86, 37317), (137, 37491), (160, 37569),

Gene: Kardashian_47 Start: 32934, Stop: 33467, Start Num: 26
Candidate Starts for Kardashian_47:
(Start: 26 @32934 has 174 MA's), (32, 32979), (41, 33033), (57, 33093), (65, 33138), (89, 33291), (102, 33360), (110, 33402), (116, 33411), (121, 33426), (127, 33438),

Gene: Kardesai_49 Start: 32007, Stop: 32576, Start Num: 26
Candidate Starts for Kardesai_49:
(Start: 26 @32007 has 174 MA's), (59, 32196), (65, 32223), (75, 32298), (77, 32322), (88, 32376),

Gene: KeaneyLin_47 Start: 31735, Stop: 32331, Start Num: 26
Candidate Starts for KeaneyLin_47:
(Start: 26 @31735 has 174 MA's), (59, 31924), (65, 31951), (77, 32050), (88, 32104), (90, 32119), (151, 32323),

Gene: Kenosha_54 Start: 38023, Stop: 38658, Start Num: 26
Candidate Starts for Kenosha_54:
(Start: 26 @38023 has 174 MA's), (66, 38230), (68, 38236), (86, 38374), (158, 38629), (160, 38641),

Gene: Kerry_53 Start: 36473, Stop: 37072, Start Num: 26
Candidate Starts for Kerry_53:
(Start: 26 @36473 has 174 MA's), (Start: 27 @36476 has 5 MA's), (43, 36575), (66, 36680), (86, 36824), (124, 36974), (132, 36989), (160, 37058),

Gene: KevinMinion_47 Start: 32975, Stop: 33508, Start Num: 26
Candidate Starts for KevinMinion_47:
(Start: 26 @32975 has 174 MA's), (47, 33089), (55, 33116), (62, 33146), (67, 33170), (86, 33308), (90, 33332), (113, 33428), (137, 33470), (141, 33488),

Gene: Kinny_50 Start: 34199, Stop: 34732, Start Num: 26
Candidate Starts for Kinny_50:
(Start: 26 @34199 has 174 MA's), (47, 34313), (55, 34340), (62, 34370), (86, 34532), (90, 34556), (137, 34694), (141, 34712),

Gene: Kureo_93 Start: 51908, Stop: 52540, Start Num: 26
Candidate Starts for Kureo_93:
(Start: 18 @51869 has 4 MA's), (Start: 26 @51908 has 174 MA's), (30, 51923), (74, 52160), (83, 52229), (89, 52256), (104, 52352), (153, 52496),

Gene: Leathea_47 Start: 31879, Stop: 32409, Start Num: 26
Candidate Starts for Leathea_47:
(Start: 26 @31879 has 174 MA's), (39, 31966), (47, 31993), (55, 32020), (62, 32050), (86, 32212), (90, 32236), (137, 32371), (141, 32389),

Gene: Lewando_49 Start: 33491, Stop: 34024, Start Num: 26
Candidate Starts for Lewando_49:

(Start: 26 @33491 has 174 MA's), (47, 33605), (55, 33632), (62, 33662), (86, 33824), (90, 33848), (137, 33986), (141, 34004),

Gene: LibertyBell_44 Start: 30077, Stop: 30595, Start Num: 26
Candidate Starts for LibertyBell_44:
(Start: 26 @30077 has 174 MA's), (38, 30164), (41, 30173), (44, 30182), (65, 30266), (73, 30308), (84, 30392), (102, 30485), (110, 30527), (116, 30536), (121, 30551),

Gene: LilHuddy_46 Start: 33411, Stop: 34067, Start Num: 25
Candidate Starts for LilHuddy_46:
(Start: 25 @33411 has 36 MA's), (36, 33480), (42, 33504),

Gene: Linda_43 Start: 30992, Stop: 31552, Start Num: 26
Candidate Starts for Linda_43:
(Start: 26 @30992 has 174 MA's), (39, 31079), (43, 31091), (52, 31121), (57, 31145), (72, 31235), (101, 31394),

Gene: Loretta_46 Start: 33203, Stop: 33853, Start Num: 25
Candidate Starts for Loretta_46:
(15, 33164), (Start: 18 @33170 has 4 MA's), (Start: 25 @33203 has 36 MA's), (36, 33272), (42, 33296), (98, 33608), (123, 33698), (140, 33749), (147, 33776),

Gene: LucySwiss_45 Start: 33166, Stop: 33825, Start Num: 25
Candidate Starts for LucySwiss_45:
(Start: 25 @33166 has 36 MA's), (36, 33235), (42, 33259), (90, 33535), (103, 33601), (150, 33754), (156, 33787),

Gene: Luthien_56 Start: 37788, Stop: 38426, Start Num: 26
Candidate Starts for Luthien_56:
(Start: 26 @37788 has 174 MA's), (66, 37995), (68, 38001), (86, 38139), (135, 38319), (158, 38397), (160, 38409),

Gene: Madamato_50 Start: 32898, Stop: 33428, Start Num: 26
Candidate Starts for Madamato_50:
(12, 32847), (20, 32865), (Start: 26 @32898 has 174 MA's), (33, 32946), (38, 32985), (41, 32994), (45, 33009), (57, 33042), (61, 33066), (62, 33069), (65, 33087), (89, 33240), (102, 33318), (124, 33384), (127, 33393), (133, 33408),

Gene: Madvan_55 Start: 37433, Stop: 38068, Start Num: 26
Candidate Starts for Madvan_55:
(Start: 26 @37433 has 174 MA's), (66, 37640), (86, 37784), (158, 38039), (160, 38051),

Gene: Magel_55 Start: 36719, Stop: 37315, Start Num: 27
Candidate Starts for Magel_55:
(Start: 26 @36716 has 174 MA's), (Start: 27 @36719 has 5 MA's), (43, 36818), (66, 36923), (86, 37067), (124, 37217), (132, 37232), (160, 37301),

Gene: MajinBuu_54 Start: 37725, Stop: 38363, Start Num: 26
Candidate Starts for MajinBuu_54:
(Start: 26 @37725 has 174 MA's), (66, 37932), (68, 37938), (86, 38076), (158, 38334), (160, 38346),

Gene: Makai_44 Start: 33397, Stop: 34047, Start Num: 25
Candidate Starts for Makai_44:

(Start: 25 @33397 has 36 MA's), (36, 33466), (42, 33490), (66, 33598),

Gene: Mardi_47 Start: 32309, Stop: 32842, Start Num: 26
Candidate Starts for Mardi_47:
(Start: 26 @32309 has 174 MA's), (47, 32423), (55, 32450), (62, 32480), (67, 32504), (86, 32642), (90, 32666), (113, 32762), (137, 32804), (141, 32822),

Gene: Marianna39_92 Start: 52323, Stop: 52955, Start Num: 26
Candidate Starts for Marianna39_92:
(Start: 18 @52284 has 4 MA's), (Start: 26 @52323 has 174 MA's), (30, 52338), (74, 52575), (83, 52644), (89, 52671), (104, 52767), (153, 52911),

Gene: Maya_49 Start: 32846, Stop: 33373, Start Num: 26
Candidate Starts for Maya_49:
(10, 32783), (13, 32801), (Start: 26 @32846 has 174 MA's), (38, 32933), (41, 32942), (45, 32957), (61, 33014), (65, 33035), (82, 33152), (89, 33188), (102, 33266), (124, 33332), (127, 33341), (133, 33356),

Gene: MediumFry_42 Start: 32492, Stop: 33331, Start Num: 5
Candidate Starts for MediumFry_42:
(4, 32489), (Start: 5 @32492 has 1 MA's), (6, 32525), (7, 32528), (16, 32633), (Start: 25 @32672 has 36 MA's), (36, 32741), (42, 32765), (156, 33293), (163, 33326),

Gene: Meibysrarus_47 Start: 32209, Stop: 32736, Start Num: 26
Candidate Starts for Meibysrarus_47:
(10, 32146), (13, 32164), (Start: 26 @32209 has 174 MA's), (38, 32296), (41, 32305), (45, 32320), (61, 32377), (65, 32398), (82, 32515), (89, 32551), (102, 32629), (124, 32695), (127, 32704), (133, 32719),

Gene: Mema_40 Start: 30943, Stop: 31716, Start Num: 26
Candidate Starts for Mema_40:
(Start: 26 @30943 has 174 MA's), (52, 31072), (76, 31219), (79, 31237), (89, 31291), (93, 31318), (108, 31405), (159, 31576), (162, 31591), (164, 31618),

Gene: Michelle_43 Start: 30994, Stop: 31554, Start Num: 26
Candidate Starts for Michelle_43:
(Start: 26 @30994 has 174 MA's), (39, 31081), (43, 31093), (52, 31123), (57, 31147), (72, 31237), (101, 31396),

Gene: Miek_44 Start: 30383, Stop: 30913, Start Num: 26
Candidate Starts for Miek_44:
(Start: 26 @30383 has 174 MA's), (38, 30473), (41, 30482), (56, 30521), (57, 30530), (66, 30578), (102, 30800), (114, 30848), (121, 30866),

Gene: MiniBagel_44 Start: 34052, Stop: 34711, Start Num: 25
Candidate Starts for MiniBagel_44:
(Start: 25 @34052 has 36 MA's), (36, 34121), (42, 34145), (90, 34421), (156, 34673),

Gene: Monse_35 Start: 26238, Stop: 26759, Start Num: 26
Candidate Starts for Monse_35:
(Start: 26 @26238 has 174 MA's), (41, 26331), (52, 26355), (90, 26589),

Gene: Mooshroom_50 Start: 32007, Stop: 32576, Start Num: 26
Candidate Starts for Mooshroom_50:
(Start: 26 @32007 has 174 MA's), (59, 32196), (65, 32223), (75, 32298), (77, 32322), (88, 32376),

Gene: Moozy_35 Start: 26330, Stop: 26851, Start Num: 26
Candidate Starts for Moozy_35:
(Start: 26 @26330 has 174 MA's), (41, 26423), (88, 26666), (89, 26669), (90, 26681), (92, 26693), (124, 26819),

Gene: Mossy_58 Start: 39452, Stop: 40093, Start Num: 26
Candidate Starts for Mossy_58:
(Start: 26 @39452 has 174 MA's), (34, 39500), (42, 39548), (54, 39596), (66, 39659), (86, 39803), (90, 39827), (93, 39842), (138, 39992), (142, 40007), (158, 40064), (160, 40076),

Gene: MrAaronian_43 Start: 30994, Stop: 31554, Start Num: 26
Candidate Starts for MrAaronian_43:
(Start: 26 @30994 has 174 MA's), (39, 31081), (43, 31093), (52, 31123), (57, 31147), (72, 31237), (101, 31396),

Gene: Mudcat_45 Start: 32712, Stop: 33308, Start Num: 26
Candidate Starts for Mudcat_45:
(Start: 26 @32712 has 174 MA's), (59, 32901), (65, 32928), (75, 33003), (77, 33027), (88, 33081), (90, 33096), (151, 33300),

Gene: Muglass_48 Start: 33261, Stop: 33794, Start Num: 26
Candidate Starts for Muglass_48:
(Start: 26 @33261 has 174 MA's), (47, 33375), (55, 33402), (62, 33432), (86, 33594), (90, 33618), (137, 33756),

Gene: Mysticmoon_55 Start: 38307, Stop: 38939, Start Num: 26
Candidate Starts for Mysticmoon_55:
(Start: 26 @38307 has 174 MA's), (34, 38355), (42, 38403), (54, 38451), (66, 38514), (78, 38616), (86, 38658), (93, 38697), (104, 38754), (129, 38817), (137, 38838), (146, 38874), (158, 38910), (160, 38922),

Gene: Nadmeg_56 Start: 38679, Stop: 39314, Start Num: 26
Candidate Starts for Nadmeg_56:
(Start: 26 @38679 has 174 MA's), (66, 38886), (86, 39030), (158, 39285), (160, 39297),

Gene: Namo_50 Start: 33177, Stop: 33704, Start Num: 26
Candidate Starts for Namo_50:
(10, 33114), (13, 33132), (Start: 26 @33177 has 174 MA's), (38, 33264), (41, 33273), (45, 33288), (61, 33345), (65, 33366), (82, 33483), (89, 33519), (102, 33597), (124, 33663), (127, 33672), (133, 33687),

Gene: NapoleonB_48 Start: 31823, Stop: 32392, Start Num: 26
Candidate Starts for NapoleonB_48:
(Start: 26 @31823 has 174 MA's), (59, 32012), (65, 32039), (75, 32114), (77, 32138), (88, 32192),

Gene: Nason_48 Start: 31859, Stop: 32455, Start Num: 26
Candidate Starts for Nason_48:
(Start: 26 @31859 has 174 MA's), (59, 32048), (65, 32075), (77, 32174), (88, 32228), (90, 32243), (151, 32447),

Gene: Natasha_44 Start: 30712, Stop: 31287, Start Num: 26
Candidate Starts for Natasha_44:

(Start: 26 @30712 has 174 MA's), (39, 30799), (42, 30805), (52, 30841), (53, 30844), (65, 30910), (89, 31069), (111, 31147),

Gene: Natsu_33 Start: 25492, Stop: 26010, Start Num: 26
Candidate Starts for Natsu_33:
(Start: 26 @25492 has 174 MA's), (Start: 27 @25495 has 5 MA's), (41, 25585), (68, 25687), (79, 25780), (80, 25786), (88, 25828), (91, 25852), (97, 25879), (102, 25906), (106, 25930), (116, 25954), (131, 25993),

Gene: Navi1117_49 Start: 32920, Stop: 33453, Start Num: 26
Candidate Starts for Navi1117_49:
(Start: 26 @32920 has 174 MA's), (36, 32989), (47, 33034), (55, 33061), (62, 33091), (67, 33115), (86, 33253), (90, 33277), (113, 33373), (137, 33415), (141, 33433),

Gene: Nightmare_46 Start: 34312, Stop: 34971, Start Num: 25
Candidate Starts for Nightmare_46:
(Start: 25 @34312 has 36 MA's), (36, 34381), (42, 34405), (90, 34681), (94, 34699), (103, 34747), (156, 34933),

Gene: Niktson_44 Start: 33745, Stop: 34404, Start Num: 25
Candidate Starts for Niktson_44:
(Start: 25 @33745 has 36 MA's), (36, 33814), (42, 33838), (103, 34180), (156, 34366),

Gene: Nithya_55 Start: 37534, Stop: 38172, Start Num: 26
Candidate Starts for Nithya_55:
(Start: 26 @37534 has 174 MA's), (66, 37741), (68, 37747), (86, 37885), (135, 38065), (158, 38143), (160, 38155),

Gene: Nivinsha_45 Start: 33292, Stop: 33951, Start Num: 25
Candidate Starts for Nivinsha_45:
(17, 33253), (23, 33268), (Start: 25 @33292 has 36 MA's), (36, 33361), (42, 33385), (61, 33469), (66, 33493), (140, 33847),

Gene: NoPickles_53 Start: 36141, Stop: 36737, Start Num: 27
Candidate Starts for NoPickles_53:
(Start: 26 @36138 has 174 MA's), (Start: 27 @36141 has 5 MA's), (43, 36240), (66, 36345), (86, 36489), (124, 36639), (132, 36654), (160, 36723),

Gene: Odesza_53 Start: 36528, Stop: 37145, Start Num: 26
Candidate Starts for Odesza_53:
(Start: 26 @36528 has 174 MA's), (Start: 27 @36531 has 5 MA's), (43, 36630), (66, 36735), (86, 36879), (160, 37131),

Gene: OhMyWard_53 Start: 38645, Stop: 39286, Start Num: 26
Candidate Starts for OhMyWard_53:
(Start: 26 @38645 has 174 MA's), (34, 38693), (42, 38741), (54, 38789), (66, 38852), (86, 38996), (90, 39020), (93, 39035), (104, 39092), (138, 39185), (142, 39200), (158, 39257), (160, 39269),

Gene: OlgasClover_56 Start: 38677, Stop: 39315, Start Num: 26
Candidate Starts for OlgasClover_56:
(Start: 26 @38677 has 174 MA's), (66, 38884), (68, 38890), (86, 39028), (135, 39208), (158, 39286), (160, 39298),

Gene: OlympicHelado_49 Start: 32860, Stop: 33387, Start Num: 26
Candidate Starts for OlympicHelado_49:
(10, 32797), (13, 32815), (Start: 26 @32860 has 174 MA's), (38, 32947), (41, 32956), (45, 32971), (61, 33028), (65, 33049), (82, 33166), (89, 33202), (102, 33280), (124, 33346), (127, 33355), (133, 33370),

Gene: Onestar_43 Start: 30682, Stop: 31287, Start Num: 26
Candidate Starts for Onestar_43:
(Start: 18 @30643 has 4 MA's), (21, 30649), (Start: 26 @30682 has 174 MA's), (40, 30772), (42, 30775), (43, 30781), (49, 30802), (52, 30811), (57, 30835), (72, 30925), (101, 31084),

Gene: Paella_95 Start: 53449, Stop: 54120, Start Num: 18
Candidate Starts for Paella_95:
(Start: 18 @53449 has 4 MA's), (Start: 26 @53488 has 174 MA's), (30, 53503), (74, 53740), (83, 53809), (89, 53836), (104, 53932), (153, 54076),

Gene: Pepy6_090 Start: 47253, Stop: 47894, Start Num: 26
Candidate Starts for Pepy6_090:
(Start: 26 @47253 has 174 MA's), (48, 47376), (51, 47385), (66, 47457), (80, 47568), (83, 47589), (86, 47601), (89, 47613), (90, 47625), (120, 47742), (133, 47772), (135, 47781), (148, 47826), (161, 47883),

Gene: Perkunas_55 Start: 36810, Stop: 37424, Start Num: 26
Candidate Starts for Perkunas_55:
(Start: 26 @36810 has 174 MA's), (Start: 27 @36813 has 5 MA's), (43, 36912), (66, 37017), (86, 37161), (130, 37317), (137, 37332), (160, 37410),

Gene: PerroGrande22_71 Start: 49695, Stop: 50330, Start Num: 26
Candidate Starts for PerroGrande22_71:
(Start: 26 @49695 has 174 MA's), (64, 49893), (66, 49899), (78, 50001), (80, 50010), (89, 50055), (119, 50172), (122, 50178), (148, 50262), (158, 50301),

Gene: PestoPenguin_57 Start: 37709, Stop: 38344, Start Num: 26
Candidate Starts for PestoPenguin_57:
(Start: 26 @37709 has 174 MA's), (66, 37916), (86, 38060), (158, 38315), (160, 38327),

Gene: Petito_56 Start: 38630, Stop: 39244, Start Num: 26
Candidate Starts for Petito_56:
(Start: 26 @38630 has 174 MA's), (Start: 27 @38633 has 5 MA's), (66, 38837), (86, 38981), (100, 39050), (104, 39077), (117, 39116), (130, 39137), (137, 39152), (160, 39230),

Gene: Phaby_46 Start: 33645, Stop: 34295, Start Num: 25
Candidate Starts for Phaby_46:
(Start: 25 @33645 has 36 MA's), (36, 33714), (42, 33738),

Gene: Phaila_48 Start: 32107, Stop: 32637, Start Num: 26
Candidate Starts for Phaila_48:
(Start: 26 @32107 has 174 MA's), (36, 32176), (47, 32221), (55, 32248), (62, 32278), (67, 32302), (86, 32440), (90, 32464), (113, 32560), (137, 32602),

Gene: Phepper_56 Start: 37695, Stop: 38330, Start Num: 26
Candidate Starts for Phepper_56:
(Start: 26 @37695 has 174 MA's), (66, 37902), (86, 38046), (158, 38301), (160, 38313),

Gene: Pherobrine_56 Start: 38600, Stop: 39232, Start Num: 26
Candidate Starts for Pherobrine_56:
(Start: 26 @38600 has 174 MA's), (34, 38648), (42, 38696), (54, 38744), (66, 38807), (78, 38909), (86, 38951), (93, 38990), (104, 39047), (129, 39110), (137, 39131), (146, 39167), (158, 39203), (160, 39215),

Gene: PherryCruz_35 Start: 26326, Stop: 26847, Start Num: 26
Candidate Starts for PherryCruz_35:
(Start: 26 @26326 has 174 MA's), (41, 26419), (88, 26662), (89, 26665), (90, 26677), (92, 26689), (102, 26746),

Gene: Pippin15_44 Start: 30581, Stop: 31216, Start Num: 26
Candidate Starts for Pippin15_44:
(Start: 26 @30581 has 174 MA's), (37, 30659), (62, 30755), (79, 30875), (85, 30917), (86, 30923), (104, 31010), (128, 31058),

Gene: Poco6_088 Start: 49493, Stop: 50125, Start Num: 26
Candidate Starts for Poco6_088:
(Start: 26 @49493 has 174 MA's), (48, 49616), (51, 49625), (66, 49697), (80, 49808), (83, 49829), (86, 49841), (89, 49853), (90, 49865), (95, 49901), (119, 49967), (122, 49973), (137, 50012), (148, 50057), (152, 50069), (157, 50093), (158, 50096),

Gene: PoeMe_47 Start: 32476, Stop: 33009, Start Num: 26
Candidate Starts for PoeMe_47:
(Start: 26 @32476 has 174 MA's), (36, 32545), (47, 32590), (55, 32617), (62, 32647), (67, 32671), (86, 32809), (90, 32833), (113, 32929), (137, 32971), (141, 32989),

Gene: Popy_49 Start: 33490, Stop: 34014, Start Num: 26
Candidate Starts for Popy_49:
(Start: 26 @33490 has 174 MA's), (38, 33577), (41, 33586), (45, 33601), (61, 33658), (65, 33679), (82, 33796), (89, 33832), (102, 33910), (105, 33928), (110, 33952), (124, 33976), (127, 33985),

Gene: Powelldog_47 Start: 31692, Stop: 32306, Start Num: 26
Candidate Starts for Powelldog_47:
(Start: 26 @31692 has 174 MA's), (39, 31779), (42, 31785), (43, 31791), (52, 31821), (66, 31893), (89, 32049), (90, 32061), (92, 32073), (139, 32217), (145, 32241), (158, 32289),

Gene: ProfFrink_43 Start: 30995, Stop: 31555, Start Num: 26
Candidate Starts for ProfFrink_43:
(Start: 26 @30995 has 174 MA's), (39, 31082), (43, 31094), (52, 31124), (57, 31148), (72, 31238), (101, 31397),

Gene: Qui_95 Start: 53449, Stop: 54120, Start Num: 18
Candidate Starts for Qui_95:
(Start: 18 @53449 has 4 MA's), (Start: 26 @53488 has 174 MA's), (30, 53503), (74, 53740), (83, 53809), (89, 53836), (104, 53932), (153, 54076),

Gene: Rainydai_44 Start: 30767, Stop: 31297, Start Num: 26
Candidate Starts for Rainydai_44:
(Start: 26 @30767 has 174 MA's), (38, 30857), (41, 30866), (56, 30905), (57, 30914), (66, 30962), (102, 31184), (114, 31232), (121, 31250),

Gene: Raunak_43 Start: 30692, Stop: 31252, Start Num: 26

Candidate Starts for Raunak_43:
(Start: 26 @30692 has 174 MA's), (39, 30779), (43, 30791), (52, 30821), (57, 30845), (72, 30935), (101, 31094),

Gene: RavenPuff_35 Start: 26326, Stop: 26847, Start Num: 26
Candidate Starts for RavenPuff_35:
(Start: 26 @26326 has 174 MA's), (41, 26419), (88, 26662), (89, 26665), (90, 26677), (92, 26689), (102, 26746),

Gene: Regigigas_46 Start: 30768, Stop: 31298, Start Num: 26
Candidate Starts for Regigigas_46:
(Start: 26 @30768 has 174 MA's), (38, 30858), (41, 30867), (56, 30906), (57, 30915), (66, 30963), (102, 31185), (114, 31233), (121, 31251),

Gene: Remlit_51 Start: 32403, Stop: 32936, Start Num: 26
Candidate Starts for Remlit_51:
(1, 32163), (2, 32166), (3, 32178), (9, 32283), (Start: 26 @32403 has 174 MA's), (47, 32517), (55, 32544), (62, 32574), (67, 32598), (86, 32736), (90, 32760), (113, 32856), (137, 32898), (141, 32916),

Gene: Renaldo_52 Start: 33800, Stop: 34333, Start Num: 26
Candidate Starts for Renaldo_52:
(Start: 26 @33800 has 174 MA's), (47, 33914), (55, 33941), (62, 33971), (86, 34133), (90, 34157), (137, 34295),

Gene: Rickmore_51 Start: 35485, Stop: 36111, Start Num: 26
Candidate Starts for Rickmore_51:
(Start: 26 @35485 has 174 MA's), (57, 35644), (66, 35692), (73, 35737), (86, 35836), (96, 35899), (134, 36004), (138, 36013), (160, 36094),

Gene: Rima_50 Start: 33177, Stop: 33704, Start Num: 26
Candidate Starts for Rima_50:
(10, 33114), (13, 33132), (Start: 26 @33177 has 174 MA's), (38, 33264), (41, 33273), (45, 33288), (61, 33345), (65, 33366), (82, 33483), (89, 33519), (102, 33597), (124, 33663), (127, 33672), (133, 33687),

Gene: Roney_54 Start: 36826, Stop: 37425, Start Num: 26
Candidate Starts for Roney_54:
(Start: 26 @36826 has 174 MA's), (Start: 27 @36829 has 5 MA's), (43, 36928), (66, 37033), (86, 37177), (124, 37327), (132, 37342), (160, 37411),

Gene: RosaAsantewaa_32 Start: 25470, Stop: 25979, Start Num: 26
Candidate Starts for RosaAsantewaa_32:
(8, 25332), (Start: 26 @25470 has 174 MA's), (43, 25569), (67, 25662), (79, 25758), (88, 25806), (102, 25884), (107, 25911), (130, 25959),

Gene: Runhaar_55 Start: 37495, Stop: 38130, Start Num: 26
Candidate Starts for Runhaar_55:
(Start: 26 @37495 has 174 MA's), (66, 37702), (86, 37846), (158, 38101), (160, 38113),

Gene: RustyBoy_44 Start: 30693, Stop: 31268, Start Num: 26
Candidate Starts for RustyBoy_44:
(Start: 26 @30693 has 174 MA's), (39, 30780), (42, 30786), (52, 30822), (53, 30825), (65, 30891), (71, 30921), (89, 31050), (111, 31128),

Gene: Salk_43 Start: 30992, Stop: 31552, Start Num: 26
Candidate Starts for Salk_43:
(Start: 26 @30992 has 174 MA's), (39, 31079), (43, 31091), (52, 31121), (57, 31145), (72, 31235), (101, 31394),

Gene: Sangak_34 Start: 25884, Stop: 26405, Start Num: 26
Candidate Starts for Sangak_34:
(Start: 26 @25884 has 174 MA's), (41, 25977), (88, 26220), (89, 26223), (90, 26235), (92, 26247), (102, 26304),

Gene: Scap1_35 Start: 26203, Stop: 26724, Start Num: 26
Candidate Starts for Scap1_35:
(Start: 26 @26203 has 174 MA's), (32, 26242), (41, 26296), (89, 26542), (90, 26554),

Gene: Schwartz33_56 Start: 37627, Stop: 38241, Start Num: 26
Candidate Starts for Schwartz33_56:
(Start: 26 @37627 has 174 MA's), (42, 37723), (61, 37810), (66, 37834), (86, 37978), (104, 38068), (158, 38212), (160, 38224),

Gene: ScienceWizSam_45 Start: 33402, Stop: 34061, Start Num: 25
Candidate Starts for ScienceWizSam_45:
(Start: 25 @33402 has 36 MA's), (36, 33471), (42, 33495), (61, 33579), (140, 33957), (144, 33969),

Gene: Secretariat_54 Start: 36535, Stop: 37155, Start Num: 26
Candidate Starts for Secretariat_54:
(Start: 26 @36535 has 174 MA's), (53, 36673), (66, 36742), (86, 36886), (158, 37126), (160, 37138),

Gene: SendItCS_43 Start: 30371, Stop: 30901, Start Num: 26
Candidate Starts for SendItCS_43:
(Start: 26 @30371 has 174 MA's), (38, 30461), (41, 30470), (56, 30509), (57, 30518), (66, 30566), (102, 30788), (114, 30836), (121, 30854),

Gene: Serenabean_42 Start: 30574, Stop: 31215, Start Num: 26
Candidate Starts for Serenabean_42:
(Start: 26 @30574 has 174 MA's), (39, 30658), (79, 30865), (86, 30913), (94, 30952), (104, 31006),

Gene: ShaggyRogers_55 Start: 37445, Stop: 38080, Start Num: 26
Candidate Starts for ShaggyRogers_55:
(Start: 26 @37445 has 174 MA's), (66, 37652), (86, 37796), (158, 38051), (160, 38063),

Gene: SheRa_36 Start: 26372, Stop: 26893, Start Num: 26
Candidate Starts for SheRa_36:
(Start: 26 @26372 has 174 MA's), (41, 26465), (88, 26708), (89, 26711), (90, 26723), (92, 26735), (124, 26861),

Gene: Shepard_48 Start: 33483, Stop: 34139, Start Num: 25
Candidate Starts for Shepard_48:
(Start: 25 @33483 has 36 MA's), (36, 33552), (42, 33576), (69, 33702),

Gene: Shiba_42 Start: 30692, Stop: 31252, Start Num: 26
Candidate Starts for Shiba_42:
(Start: 26 @30692 has 174 MA's), (39, 30779), (43, 30791), (52, 30821), (57, 30845), (72, 30935), (101, 31094),

Gene: Sloopyjoe_43 Start: 30996, Stop: 31556, Start Num: 26
Candidate Starts for Sloopyjoe_43:
(Start: 26 @30996 has 174 MA's), (39, 31083), (43, 31095), (52, 31125), (57, 31149), (72, 31239), (101, 31398),

Gene: Soshi_48 Start: 33109, Stop: 33633, Start Num: 26
Candidate Starts for Soshi_48:
(10, 33046), (13, 33064), (Start: 26 @33109 has 174 MA's), (38, 33196), (41, 33205), (45, 33220), (61, 33277), (65, 33298), (82, 33415), (89, 33451), (102, 33529), (105, 33547), (110, 33571), (124, 33595), (127, 33604),

Gene: Spain_46 Start: 30994, Stop: 31554, Start Num: 26
Candidate Starts for Spain_46:
(Start: 26 @30994 has 174 MA's), (39, 31081), (43, 31093), (52, 31123), (57, 31147), (72, 31237), (101, 31396),

Gene: Spectropatronm_49 Start: 32839, Stop: 33366, Start Num: 26
Candidate Starts for Spectropatronm_49:
(10, 32776), (13, 32794), (Start: 26 @32839 has 174 MA's), (38, 32926), (41, 32935), (45, 32950), (61, 33007), (65, 33028), (82, 33145), (89, 33181), (102, 33259), (124, 33325), (127, 33334), (133, 33349),

Gene: Sporto_44 Start: 32458, Stop: 33057, Start Num: 26
Candidate Starts for Sporto_44:
(11, 32404), (Start: 26 @32458 has 174 MA's), (38, 32542), (40, 32548), (42, 32551), (43, 32557), (57, 32611), (66, 32659), (72, 32701), (89, 32824), (90, 32836), (99, 32848),

Gene: Sprinkle_41 Start: 30831, Stop: 31406, Start Num: 26
Candidate Starts for Sprinkle_41:
(Start: 26 @30831 has 174 MA's), (39, 30918), (42, 30924), (52, 30960), (53, 30963), (65, 31029), (69, 31050), (80, 31143), (89, 31188), (101, 31224), (111, 31266), (143, 31341),

Gene: StarLord_43 Start: 30995, Stop: 31555, Start Num: 26
Candidate Starts for StarLord_43:
(Start: 26 @30995 has 174 MA's), (39, 31082), (43, 31094), (52, 31124), (57, 31148), (72, 31238), (101, 31397),

Gene: Stardom_45 Start: 30471, Stop: 31067, Start Num: 26
Candidate Starts for Stardom_45:
(Start: 26 @30471 has 174 MA's), (59, 30660), (65, 30687), (75, 30762), (77, 30786), (88, 30840), (151, 31059),

Gene: Stardrop_47 Start: 32669, Stop: 33202, Start Num: 26
Candidate Starts for Stardrop_47:
(Start: 26 @32669 has 174 MA's), (47, 32783), (55, 32810), (62, 32840), (67, 32864), (86, 33002), (90, 33026), (113, 33122), (137, 33164), (141, 33182),

Gene: Stayer_43 Start: 30992, Stop: 31552, Start Num: 26
Candidate Starts for Stayer_43:
(Start: 26 @30992 has 174 MA's), (39, 31079), (43, 31091), (52, 31121), (57, 31145), (72, 31235), (101, 31394),

Gene: Sunny4976_48 Start: 33968, Stop: 34558, Start Num: 26

Candidate Starts for Sunny4976_48:
(Start: 26 @33968 has 174 MA's), (Start: 27 @33971 has 5 MA's), (50, 34091), (60, 34133), (62, 34139), (79, 34265), (81, 34274), (103, 34376), (104, 34385), (118, 34427), (153, 34514),

Gene: SweetCrkHerbs_55 Start: 36502, Stop: 37116, Start Num: 26
Candidate Starts for SweetCrkHerbs_55:
(Start: 26 @36502 has 174 MA's), (Start: 27 @36505 has 5 MA's), (43, 36604), (66, 36709), (86, 36853), (130, 37009), (137, 37024), (160, 37102),

Gene: Sweetclover_41 Start: 29341, Stop: 30015, Start Num: 26
Candidate Starts for Sweetclover_41:
(Start: 26 @29341 has 174 MA's), (39, 29425), (62, 29512), (79, 29632), (81, 29641), (86, 29680), (94, 29719), (119, 29824), (122, 29830), (140, 29887),

Gene: Synepsis_43 Start: 33411, Stop: 34073, Start Num: 25
Candidate Starts for Synepsis_43:
(Start: 25 @33411 has 36 MA's), (36, 33480), (42, 33504), (66, 33612), (90, 33780), (103, 33846), (156, 34035),

Gene: TaidaOne_49 Start: 33344, Stop: 33871, Start Num: 26
Candidate Starts for TaidaOne_49:
(10, 33281), (Start: 26 @33344 has 174 MA's), (38, 33431), (41, 33440), (45, 33455), (61, 33512), (65, 33533), (82, 33650), (89, 33686), (102, 33764), (124, 33830), (127, 33839), (133, 33854),

Gene: Tairn4Wing_56 Start: 36785, Stop: 37402, Start Num: 26
Candidate Starts for Tairn4Wing_56:
(Start: 26 @36785 has 174 MA's), (Start: 27 @36788 has 5 MA's), (66, 36992), (86, 37136), (137, 37310), (160, 37388),

Gene: Talon44_55 Start: 36844, Stop: 37458, Start Num: 26
Candidate Starts for Talon44_55:
(Start: 26 @36844 has 174 MA's), (Start: 27 @36847 has 5 MA's), (43, 36946), (66, 37051), (86, 37195), (130, 37351), (137, 37366), (160, 37444),

Gene: Tanis_54 Start: 36646, Stop: 37245, Start Num: 26
Candidate Starts for Tanis_54:
(Start: 26 @36646 has 174 MA's), (Start: 27 @36649 has 5 MA's), (43, 36748), (66, 36853), (86, 36997), (124, 37147), (132, 37162), (160, 37231),

Gene: Tatanka_43 Start: 33581, Stop: 34243, Start Num: 25
Candidate Starts for Tatanka_43:
(Start: 25 @33581 has 36 MA's), (36, 33650), (42, 33674), (103, 34016), (156, 34205),

Gene: Teacup_45 Start: 33771, Stop: 34433, Start Num: 25
Candidate Starts for Teacup_45:
(Start: 25 @33771 has 36 MA's), (36, 33840), (42, 33864), (90, 34140), (103, 34206), (156, 34395),

Gene: TenaciousP_55 Start: 39058, Stop: 39696, Start Num: 26
Candidate Starts for TenaciousP_55:
(Start: 26 @39058 has 174 MA's), (66, 39265), (68, 39271), (86, 39409), (135, 39589), (158, 39667), (160, 39679),

Gene: Tenney120_48 Start: 32517, Stop: 33050, Start Num: 26

Candidate Starts for Tenney120_48:
(Start: 26 @32517 has 174 MA's), (47, 32631), (55, 32658), (62, 32688), (67, 32712), (86, 32850), (90, 32874), (113, 32970), (137, 33012), (141, 33030),

Gene: Tenno_45 Start: 34060, Stop: 34719, Start Num: 25
Candidate Starts for Tenno_45:
(Start: 25 @34060 has 36 MA's), (36, 34129), (42, 34153), (90, 34429), (156, 34681),

Gene: Thiqqums_45 Start: 30767, Stop: 31297, Start Num: 26
Candidate Starts for Thiqqums_45:
(Start: 26 @30767 has 174 MA's), (38, 30857), (41, 30866), (56, 30905), (57, 30914), (66, 30962), (102, 31184), (114, 31232), (121, 31250),

Gene: TieDye_48 Start: 32432, Stop: 32959, Start Num: 26
Candidate Starts for TieDye_48:
(10, 32369), (13, 32387), (Start: 26 @32432 has 174 MA's), (38, 32519), (41, 32528), (45, 32543), (61, 32600), (65, 32621), (82, 32738), (89, 32774), (102, 32852), (124, 32918), (127, 32927), (133, 32942),

Gene: Tipton_47 Start: 33617, Stop: 34267, Start Num: 25
Candidate Starts for Tipton_47:
(Start: 25 @33617 has 36 MA's), (36, 33686), (42, 33710),

Gene: Tokki_48 Start: 33269, Stop: 33919, Start Num: 25
Candidate Starts for Tokki_48:
(14, 33224), (22, 33239), (Start: 25 @33269 has 36 MA's), (36, 33338), (42, 33362),

Gene: Tonaltzin_53 Start: 37628, Stop: 38266, Start Num: 26
Candidate Starts for Tonaltzin_53:
(Start: 26 @37628 has 174 MA's), (66, 37835), (68, 37841), (86, 37979), (135, 38159), (158, 38237), (160, 38249),

Gene: TonyStarch_48 Start: 32553, Stop: 33080, Start Num: 26
Candidate Starts for TonyStarch_48:
(10, 32490), (13, 32508), (Start: 26 @32553 has 174 MA's), (38, 32640), (41, 32649), (45, 32664), (61, 32721), (65, 32742), (82, 32859), (89, 32895), (102, 32973), (124, 33039), (127, 33048), (133, 33063),

Gene: Tribby_48 Start: 31560, Stop: 32129, Start Num: 26
Candidate Starts for Tribby_48:
(Start: 26 @31560 has 174 MA's), (59, 31749), (65, 31776), (75, 31851), (77, 31875), (88, 31929), (90, 31944),

Gene: TrixiePhattel_48 Start: 32174, Stop: 32704, Start Num: 26
Candidate Starts for TrixiePhattel_48:
(Start: 26 @32174 has 174 MA's), (39, 32261), (47, 32288), (55, 32315), (62, 32345), (86, 32507), (90, 32531), (104, 32600),

Gene: Truckee_42 Start: 33185, Stop: 33835, Start Num: 25
Candidate Starts for Truckee_42:
(Start: 25 @33185 has 36 MA's), (36, 33254), (42, 33278), (66, 33386),

Gene: Trufflozitus_55 Start: 37308, Stop: 37925, Start Num: 26
Candidate Starts for Trufflozitus_55:

(Start: 26 @37308 has 174 MA's), (Start: 27 @37311 has 5 MA's), (66, 37515), (86, 37659), (137, 37833), (160, 37911),

Gene: Trustiboi_44 Start: 33620, Stop: 34279, Start Num: 25
Candidate Starts for Trustiboi_44:
(Start: 25 @33620 has 36 MA's), (36, 33689), (42, 33713), (61, 33797), (66, 33821), (140, 34175), (144, 34187), (150, 34208),

Gene: Untouchable_56 Start: 38044, Stop: 38679, Start Num: 26
Candidate Starts for Untouchable_56:
(Start: 26 @38044 has 174 MA's), (66, 38251), (86, 38395), (158, 38650), (160, 38662),

Gene: Uzumaki_45 Start: 32211, Stop: 32744, Start Num: 26
Candidate Starts for Uzumaki_45:
(Start: 26 @32211 has 174 MA's), (47, 32325), (55, 32352), (62, 32382), (67, 32406), (86, 32544), (90, 32568), (113, 32664), (137, 32706), (141, 32724),

Gene: Vardy_54 Start: 37385, Stop: 38020, Start Num: 26
Candidate Starts for Vardy_54:
(Start: 26 @37385 has 174 MA's), (66, 37592), (86, 37736), (158, 37991), (160, 38003),

Gene: Westerlin_44 Start: 34882, Stop: 35541, Start Num: 25
Candidate Starts for Westerlin_44:
(Start: 25 @34882 has 36 MA's), (36, 34951), (42, 34975), (66, 35083), (90, 35251), (103, 35317), (150, 35470), (156, 35503),

Gene: Wigberry_49 Start: 32190, Stop: 32729, Start Num: 26
Candidate Starts for Wigberry_49:
(Start: 18 @32154 has 4 MA's), (Start: 26 @32190 has 174 MA's), (28, 32202), (62, 32364), (65, 32382), (73, 32424), (87, 32526), (89, 32535), (102, 32616), (116, 32667), (121, 32682), (136, 32718),

Gene: Xenomorph_44 Start: 31272, Stop: 31862, Start Num: 26
Candidate Starts for Xenomorph_44:
(Start: 26 @31272 has 174 MA's), (59, 31461), (65, 31488), (75, 31563), (77, 31587), (88, 31641), (90, 31656), (113, 31755),

Gene: YoshiYama_48 Start: 31854, Stop: 32450, Start Num: 26
Candidate Starts for YoshiYama_48:
(Start: 26 @31854 has 174 MA's), (59, 32043), (65, 32070), (77, 32169), (88, 32223), (90, 32238), (151, 32442),

Gene: Yotsuba_44 Start: 33812, Stop: 34453, Start Num: 26
Candidate Starts for Yotsuba_44:
(Start: 26 @33812 has 174 MA's), (31, 33842), (37, 33890), (62, 33986), (79, 34106), (85, 34148), (86, 34154), (104, 34241),

Gene: Zeina_48 Start: 32530, Stop: 33063, Start Num: 26
Candidate Starts for Zeina_48:
(Start: 26 @32530 has 174 MA's), (47, 32644), (55, 32671), (62, 32701), (67, 32725), (86, 32863), (90, 32887), (113, 32983), (137, 33025), (141, 33043),

Gene: Zeph_57 Start: 38532, Stop: 39167, Start Num: 26
Candidate Starts for Zeph_57:

(Start: 26 @38532 has 174 MA's), (66, 38739), (73, 38784), (78, 38841), (86, 38883), (158, 39138), (160, 39150),

Gene: Zippen_46 Start: 34044, Stop: 34688, Start Num: 25
Candidate Starts for Zippen_46:
(Start: 25 @34044 has 36 MA's), (36, 34113),