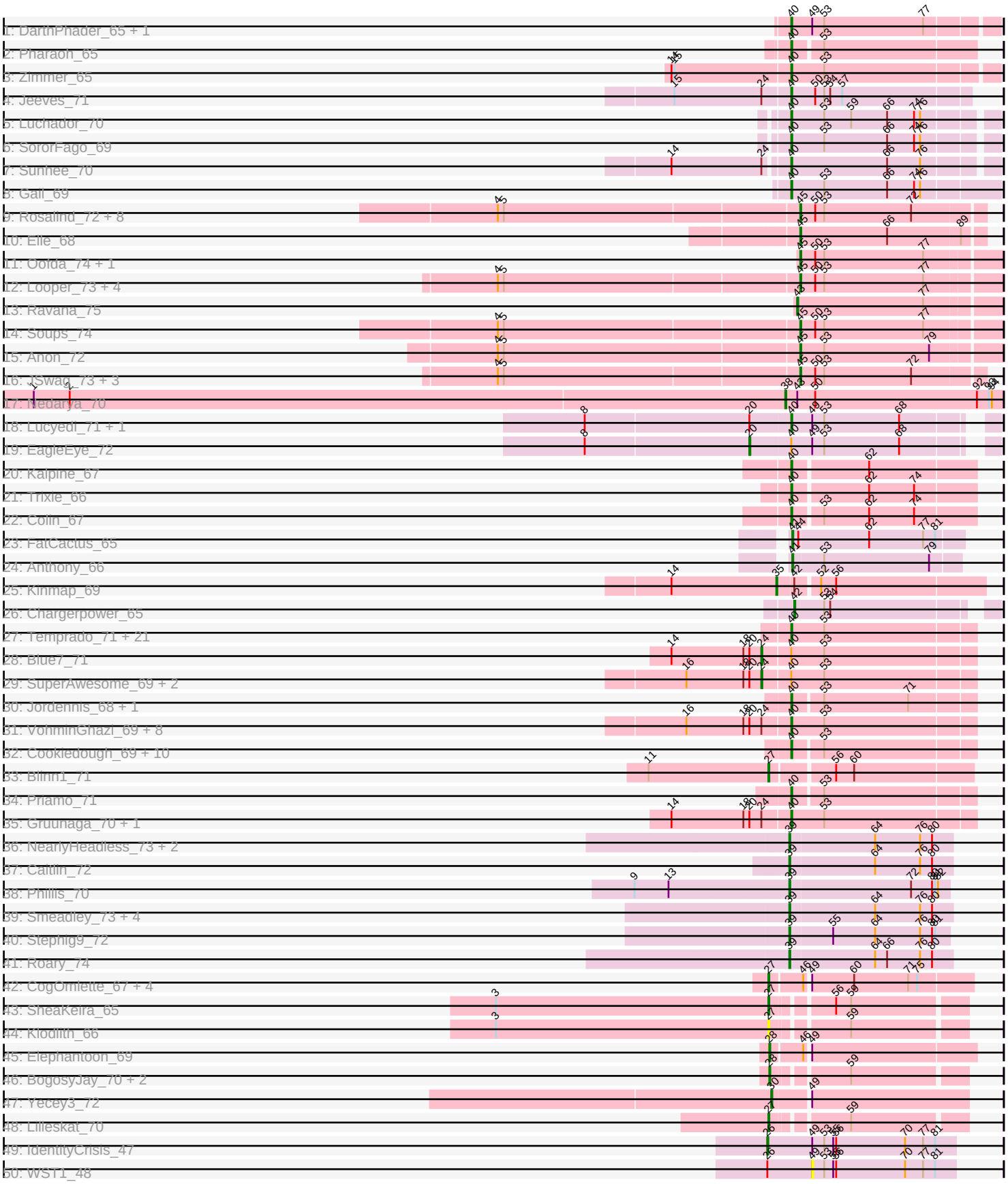
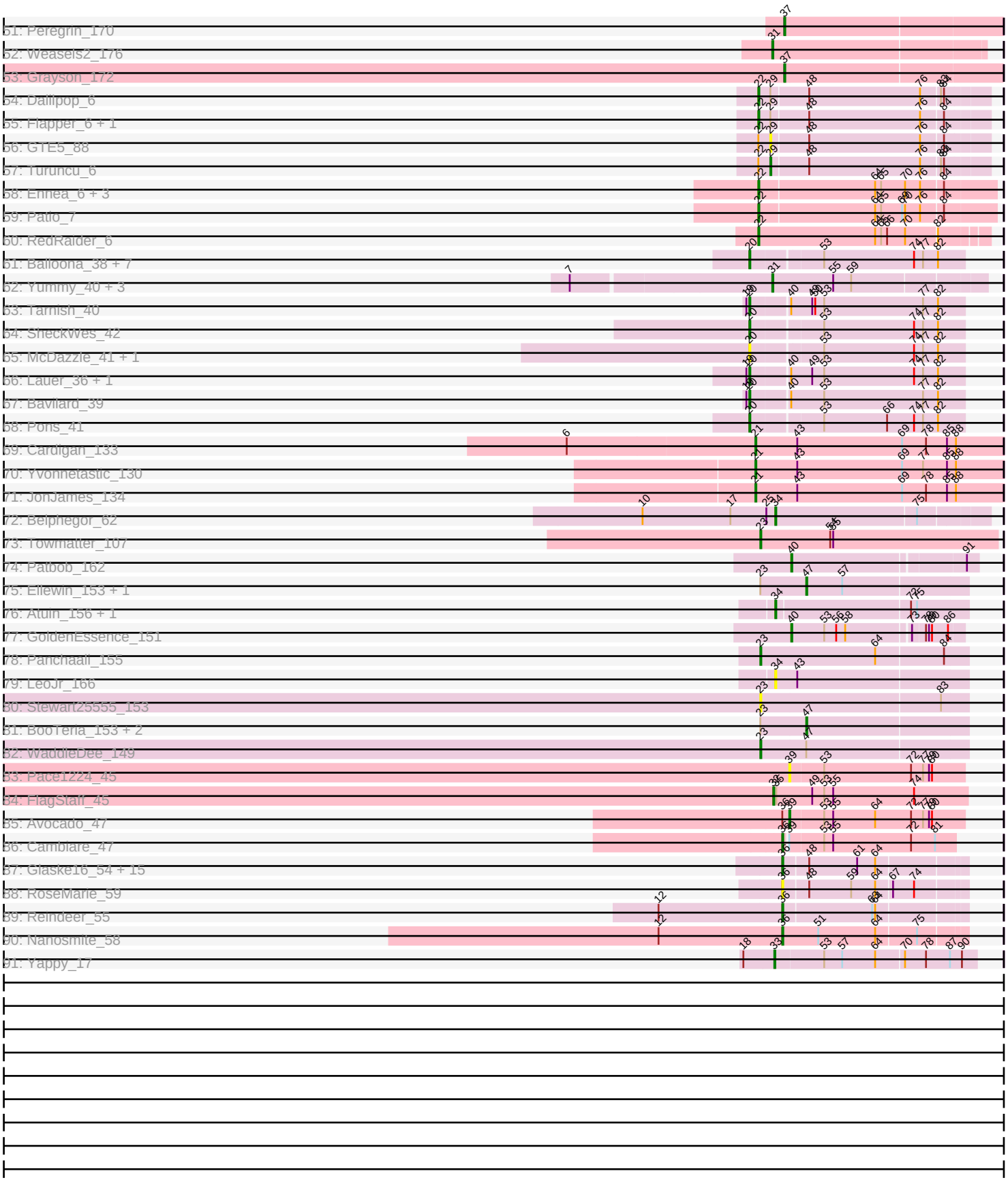
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1: DarthPhader_65 + 1
2: Pharaoh_65
3: Zimmer_65
4: Jeeves_71
5: Luchador_70
6: SororFago_69
7: Sunnee_70
8: Gail_69
9: Rosalind_72 + 8
10: Elle_68
11: Oofda_74 + 1
12: Looper_73 + 4
13: Ravana_75
14: Soups_74
15: Anon_72
16: JSwag_73 + 3
17: Nedarya_70
18: Lucyedi_71 + 1
19: EagleEye_72
20: Kalpine_67
21: Trixie_66
22: Colin_67
23: FatCactus_65
24: Anthony_66
25: Kinmap_69
26: Chargerpower_65
27: Temprado_71 + 21
28: Blue7_71
29: SuperAwesome_69 + 2
30: Jordennis_68 + 1
31: VohminGhazi_69 + 8
32: Cookiedough_69 + 10
33: Blinn1_71
34: Priamo_71
35: Gruunaga_70 + 1
36: NearlyHeadless_73 + 2
37: Caitlin_72
38: Phillis_70
39: Smeadley_73 + 4
40: Stephig9_72
41: Roary_74
42: CogOmlette_67 + 4
43: SneaKeira_65
44: Klodilth_66
45: Elephantoon_69
46: BogosyJay_70 + 2
47: Yecey3_72
48: Lilleskat_70
49: IdentityCrisis_47
50: WST1_48

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51: Peregrin_170
52: Weasels2_176
53: Grayson_172
54: Dallpop_6
55: Flapper_6 + 1
56: GTE5_88
57: Turuncu_6
58: Ennea_6 + 3
59: Patio_7
60: RedRaider_6
61: Balloona_38 + 7
62: Yummy_40 + 3
63: Tarnish_40
64: SheckWes_42
65: McDazzle_41 + 1
66: Lauer_36 + 1
67: Bavilard_39
68: Pons_41
69: Cardigan_133
70: Yvonnetastic_130
71: JonJames_134
72: Belphegor_62
73: Towmatter_107
74: Patbob_162
75: Ellewin_153 + 1
76: Atulin_156 + 1
77: GoldenEssence_151
78: Panchaali_155
79: LeoJr_166
80: Stewart25555_153
81: BooTeria_153 + 2
82: WaddleDee_149
83: Pace1224_45
84: FlagStaff_45
85: Avocado_47
86: Camblare_47
87: Glaske16_54 + 15
88: RoseMarie_59
89: Reindeer_55
90: Nanosmite_58
91: Yappy_17

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 347278 Report

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

Pham number 347278 has 199 members, 22 are drafts.

Phages represented in each track:
• Track 1 : DarthPhader_65, Refuge_65
• Track 2 : Pharaoh_65
• Track 3 : Zimmer_65
• Track 4 : Jeeves_71
• Track 5 : Luchador_70
• Track 6 : SororFago_69
• Track 7 : Sunhee_70
• Track 8 : Gail_69
• Track 9 : Rosalind_72, KatherineG_74, Epsocamisio_70, DekHockey33_75, Nebulosus_71, Battleship_76, ShayRa_74, Switzerland_73, MinecraftSteve_74
• Track 10 : Elle_68
• Track 11 : Oofda_74, Warrior24_75
• Track 12 : Looper_73, Anaysia_74, ReMo_72, LastResort_72, Boohoo_74
• Track 13 : Ravana_75
• Track 14 : Soups_74
• Track 15 : Anon_72
• Track 16 : JSwag_73, Strosahl_74, Waits_74, Remus_74
• Track 17 : Nedarya_70
• Track 18 : Lucyedi_71, PainterBoy_70
• Track 19 : EagleEye_72
• Track 20 : Kalpine_67
• Track 21 : Trixie_66
• Track 22 : Colin_67
• Track 23 : FatCactus_65
• Track 24 : Anthony_66
• Track 25 : Kinmap_69
• Track 26 : Chargerpower_65
• Track 27 : Temprado_71, Rifter_70, Gladiator_67, Tucker_70, Hexamo_70, Jeffabunny_70, Hammer_70, Lilbunny_69, ToneTone_67, BennyP_70, Koko_72, Yokurt_69, BlessJoy_70, Helmet_72, WunderPhul_70, Artemis2UCLA_70, Zulu_71, Wiks_69, Zaka_70, Garak_71, CloudWang3_71, Indra_73
• Track 28 : Blue7_71
• Track 29 : SuperAwesome_69, Kazan_70, SmellyB_69
• Track 30 : Jordennis_68, BABullseye_62
• Track 31 : VohminGhazi_69, Polyphemus_71, Hoot_64, Imbriano_71, Candra_70, GreedyLawyer_66, Newrala_69, Kipper29_69, EricB_68

• Track 32 : Cookiedough_69, DelvinSonDorr_66, McFly_69, Isiphiwo_67, Neeharika16_68, SuperCallie99_66, Dorothea_69, Pmask_68, Chartreuse_68, DaVinci_67, JewelBug_69
• Track 33 : Blinn1_71
• Track 34 : Priamo_71
• Track 35 : Gruunaga_70, Roksolana_71
• Track 36 : NearlyHeadless_73, Saintus_68, Dixon_72
• Track 37 : Caitlin_72
• Track 38 : Phillis_70
• Track 39 : Smeadley_73, Danforth_73, Expelliarmus_70, Astro_73, Groundhog_72
• Track 40 : Stephig9_72
• Track 41 : Roary_74
• Track 42 : CogOmlette_67, WorldCup_67, Bellris_69, Minispark_67, Rahalelujah_69
• Track 43 : SheaKeira_65
• Track 44 : Klodlith_66
• Track 45 : Elephantoon_69
• Track 46 : BogosyJay_70, Maminiaina_70, LoneWolf_70
• Track 47 : Yecey3_72
• Track 48 : Lilleskat_70
• Track 49 : IdentityCrisis_47
• Track 50 : WST1_48
• Track 51 : Peregrin_170
• Track 52 : Weasels2_176
• Track 53 : Grayson_172
• Track 54 : Dalilpop_6
• Track 55 : Flapper_6, GRU1_89
• Track 56 : GTE5_88
• Track 57 : Turuncu_6
• Track 58 : Ennea_6, Lollipop1437_6, Float294_6, Skysand_6
• Track 59 : Patio_7
• Track 60 : RedRaider_6
• Track 61 : Balloona_38, PotPie_40, Yucky_42, CocoaPuff_40, Vine_42, SummitAcademy_39, BigChungus_39, Feastonyeet_39
• Track 62 : Yummy_40, Buttrmlkdreams_40, Horseradish_40, MScarn_41
• Track 63 : Tarnish_40
• Track 64 : SheckWes_42
• Track 65 : McDazzle_41, ElJefes_40
• Track 66 : Lauer_36, Mayweather_43
• Track 67 : Bavilard_39
• Track 68 : Pons_41
• Track 69 : Cardigan_133
• Track 70 : Yvonnetastic_130
• Track 71 : JonJames_134
• Track 72 : Belphegor_62
• Track 73 : Towmatter_107
• Track 74 : Patbob_162
• Track 75 : Ellewin_153, KSunshine22_158
• Track 76 : Atuin_156, ReginaGlobina_169
• Track 77 : GoldenEssence_151
• Track 78 : Panchaali_155
• Track 79 : LeoJr_166
• Track 80 : Stewart25555_153
• Track 81 : BooTeria_153, DunneganBoMo_153, Emmetator_156

• Track 82 : WaddleDee_149
• Track 83 : Pace1224_45
• Track 84 : FlagStaff_45
• Track 85 : Avocado_47
• Track 86 : Cambiare_47
• Track 87 : Glaske16_54, IPhane7_53, LilhomieP_52, Diminimus_54, KleverKiS_54, PegLeg_53, Bongo_53, Skinny_54, SlimJimmy_52, TyDawg_53, FreakyGoo_54, Bricole_53, Dulcita_54, Auspice_53, TpudiCK_55, Izel_54
• Track 88 : RoseMarie_59
• Track 89 : Reindeer_55
• Track 90 : Nanosmite_58
• Track 91 : Yappy_17

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

The start number called the most often in the published annotations is 40, it was called in 61 of the 177 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Artemis2UCLA_70, BABullseye_62, BennyP_70, BlessJoy_70, Candra_70, Chartreuse_68, CloudWang3_71, Colin_67, Cookiedough_69, DaVinci_67, DarthPhader_65, DelvinSonDorr_66, Dorothea_69, EricB_68, Gail_69, Garak_71, Gladiator_67, GoldenEssence_151, GreedyLawyer_66, Gruunaga_70, Hammer_70, Helmet_72, Hexamo_70, Hoot_64, Imbriano_71, Indra_73, Isiphiwo_67, Jeeves_71, Jeffabunny_70, JewelBug_69, Jordennis_68, Kalpine_67, Kipper29_69, Koko_72, Lilbunny_69, Luchador_70, Lucyedi_71, McFly_69, Neeharika16_68, Newrala_69, PainterBoy_70, Patbob_162, Pharaoh_65, Pmask_68, Polyphemus_71, Priamo_71, Refuge_65, Rifter_70, Roksolana_71, SororFago_69, Sunhee_70, SuperCallie99_66, Temprado_71, ToneTone_67, Trixie_66, Tucker_70, VohminGhazi_69, Wiks_69, WunderPhul_70, Yokurt_69, Zaka_70, Zimmer_65, Zulu_71,

Genes that have the "Most Annotated" start but do not call it:
• Bavilard_39, Blue7_71, EagleEye_72, Kazan_70, Lauer_36, Mayweather_43, SmellyB_69, SuperAwesome_69, Tarnish_40,

Genes that do not have the "Most Annotated" start:
• Anaysia_74, Anon_72, Anthony_66, Astro_73, Atuin_156, Auspice_53, Avocado_47, Balloona_38, Battleship_76, Bellris_69, Belphegor_62, BigChungus_39, Blinn1_71, BogosyJay_70, Bongo_53, BooTeria_153, Boohoo_74, Bricole_53, Buttrmlkdreams_40, Caitlin_72, Cambiare_47, Cardigan_133, Chargerpower_65, CocoaPuff_40, CogOmlette_67, Dalilpop_6, Danforth_73, DekHockey33_75, Diminimus_54, Dixon_72, Dulcita_54, DunneganBoMo_153, ElJefes_40, Elephantoon_69, Elle_68, Ellewin_153, Emmetator_156, Ennea_6, Epsocamisio_70, Expelliarmus_70, FatCactus_65, Feastonyeet_39, FlagStaff_45, Flapper_6, Float294_6, FreakyGoo_54, GRU1_89, GTE5_88, Glaske16_54, Grayson_172, Groundhog_72, Horseradish_40, IPhane7_53, IdentityCrisis_47, Izel_54, JSwag_73, JonJames_134, KSunshine22_158, KatherineG_74, Kinmap_69, KleverKiS_54, Klodlith_66, LastResort_72, LeoJr_166, LilhomieP_52, Lilleskat_70, Lollipop1437_6, LoneWolf_70, Looper_73, MScarn_41, Maminiaina_70, McDazzle_41, MinecraftSteve_74, Minispark_67, Nanosmite_58, NearlyHeadless_73,

Nebulosus_71, Nedarya_70, Oofda_74, Pace1224_45, Panchaali_155, Patio_7, PegLeg_53, Peregrin_170, Phillis_70, Pons_41, PotPie_40, Rahalelujah_69, Ravana_75, ReMo_72, RedRaider_6, ReginaGlobina_169, Reindeer_55, Remus_74, Roary_74, Rosalind_72, RoseMarie_59, Saintus_68, ShayRa_74, SheaKeira_65, SheckWes_42, Skinny_54, Skysand_6, SlimJimmy_52, Smeadley_73, Soups_74, Stephig9_72, Stewart25555_153, Strosahl_74, SummitAcademy_39, Switzerland_73, Towmatter_107, TpudiCK_55, Turuncu_6, TyDawg_53, Vine_42, WST1_48, WaddleDee_149, Waits_74, Warrior24_75, Weasels2_176, WorldCup_67, Yappy_17, Yecey3_72, Yucky_42, Yummy_40, Yvonnetastic_130,

Summary by start number:

Start 20:
• Found in 34 of 199 (17.1%) of genes in pham
• Manual Annotations of this start: 13 of 177
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Balloona_38 (CT), Bavilard_39 (CT), BigChungus_39 (CT), CocoaPuff_40 (CT), EagleEye_72 (A16), ElJefes_40 (CT), Feastonyeet_39 (CT), Lauer_36 (CT), Mayweather_43 (CT), McDazzle_41 (CT), Pons_41 (CT), PotPie_40 (CT), SheckWes_42 (CT), SummitAcademy_39 (CT), Tarnish_40 (CT), Vine_42 (CT), Yucky_42 (CT),

Start 21:
• Found in 3 of 199 (1.5%) of genes in pham
• Manual Annotations of this start: 3 of 177
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Cardigan_133 (DD), JonJames_134 (DD), Yvonnetastic_130 (DD),

Start 22:
• Found in 11 of 199 (5.5%) of genes in pham
• Manual Annotations of this start: 8 of 177
• Called 81.8% of time when present
• Phage (with cluster) where this start called: Dalilpop_6 (CR1), Ennea_6 (CR3), Flapper_6 (CR1), Float294_6 (CR3), GRU1_89 (CR1), Lollipop1437_6 (CR3), Patio_7 (CR3), RedRaider_6 (CR3), Skysand_6 (CR3),

Start 23:
• Found in 9 of 199 (4.5%) of genes in pham
• Manual Annotations of this start: 3 of 177
• Called 44.4% of time when present
• Phage (with cluster) where this start called: Panchaali_155 (FC), Stewart25555_153 (FC), Towmatter_107 (DL), WaddleDee_149 (FC),

Start 24:
• Found in 17 of 199 (8.5%) of genes in pham
• Manual Annotations of this start: 4 of 177
• Called 23.5% of time when present
• Phage (with cluster) where this start called: Blue7_71 (A6), Kazan_70 (A6), SmellyB_69 (A6), SuperAwesome_69 (A6),

Start 26:
• Found in 2 of 199 (1.0%) of genes in pham

• Manual Annotations of this start: 1 of 177
• Called 50.0% of time when present
• Phage (with cluster) where this start called: IdentityCrisis_47 (AJ),

Start 27:
• Found in 9 of 199 (4.5%) of genes in pham
• Manual Annotations of this start: 5 of 177
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bellris_69 (A9), Blinn1_71 (A6), CogOmlette_67 (A9), Klodlith_66 (A9), Lilleskat_70 (A9), Minispark_67 (A9), Rahalelujah_69 (A9), SheaKeira_65 (A9), WorldCup_67 (A9),

Start 28:
• Found in 4 of 199 (2.0%) of genes in pham
• Manual Annotations of this start: 4 of 177
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BogosyJay_70 (A9), Elephantoon_69 (A9), LoneWolf_70 (A9), Maminiaina_70 (A9),

Start 29:
• Found in 5 of 199 (2.5%) of genes in pham
• Manual Annotations of this start: 1 of 177
• Called 40.0% of time when present
• Phage (with cluster) where this start called: GTE5_88 (CR1), Turuncu_6 (CR1),

Start 30:
• Found in 1 of 199 (0.5%) of genes in pham
• Manual Annotations of this start: 1 of 177
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Yecey3_72 (A9),

Start 31:
• Found in 5 of 199 (2.5%) of genes in pham
• Manual Annotations of this start: 5 of 177
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Buttrmlkdreams_40 (CT), Horseradish_40 (CT), MScarn_41 (CT), Weasels2_176 (CB), Yummy_40 (CT),

Start 32:
• Found in 1 of 199 (0.5%) of genes in pham
• Manual Annotations of this start: 1 of 177
• Called 100.0% of time when present
• Phage (with cluster) where this start called: FlagStaff_45 (G2),

Start 33:
• Found in 1 of 199 (0.5%) of genes in pham
• Manual Annotations of this start: 1 of 177
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Yappy_17 (singleton),

Start 34:
• Found in 4 of 199 (2.0%) of genes in pham
• Manual Annotations of this start: 2 of 177

• Called 100.0% of time when present
• Phage (with cluster) where this start called: Atuin_156 (FC), Belphegor_62 (DE2), LeoJr_166 (FC), ReginaGlobina_169 (FC),

Start 35:
• Found in 2 of 199 (1.0%) of genes in pham
• Manual Annotations of this start: 1 of 177
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Kinmap_69 (A21),

Start 36:
• Found in 21 of 199 (10.6%) of genes in pham
• Manual Annotations of this start: 17 of 177
• Called 95.2% of time when present
• Phage (with cluster) where this start called: Auspice_53 (M1), Bongo_53 (M1), Bricole_53 (M1), Cambiare_47 (G2), Diminimus_54 (M1), Dulcita_54 (M1), FreakyGoo_54 (M1), Glaske16_54 (M1), IPhane7_53 (M1), Izel_54 (M1), KleverKiS_54 (M1), LilhomieP_52 (M1), Nanosmite_58 (M3), PegLeg_53 (M1), Reindeer_55 (M1), RoseMarie_59 (M1), Skinny_54 (M1), SlimJimmy_52 (M1), TpudiCK_55 (M1), TyDawg_53 (M1),

Start 37:
• Found in 2 of 199 (1.0%) of genes in pham
• Manual Annotations of this start: 2 of 177
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Grayson_172 (CB), Peregrin_170 (CB),

Start 38:
• Found in 1 of 199 (0.5%) of genes in pham
• Manual Annotations of this start: 1 of 177
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Nedarya_70 (A15),

Start 39:
• Found in 15 of 199 (7.5%) of genes in pham
• Manual Annotations of this start: 13 of 177
• Called 93.3% of time when present
• Phage (with cluster) where this start called: Astro_73 (A8), Avocado_47 (G2), Caitlin_72 (A8), Danforth_73 (A8), Dixon_72 (A8), Expelliarmus_70 (A8), Groundhog_72 (A8), NearlyHeadless_73 (A8), Pace1224_45 (G2), Phillis_70 (A8), Roary_74 (A8), Saintus_68 (A8), Smeadley_73 (A8), Stephig9_72 (A8),

Start 40:
• Found in 72 of 199 (36.2%) of genes in pham
• Manual Annotations of this start: 61 of 177
• Called 87.5% of time when present
• Phage (with cluster) where this start called: Artemis2UCLA_70 (A6), BABullseye_62 (A6), BennyP_70 (A6), BlessJoy_70 (A6), Candra_70 (A6), Chartreuse_68 (A6), CloudWang3_71 (A6), Colin_67 (A2), Cookiedough_69 (A6), DaVinci_67 (A6), DarthPhader_65 (A12), DelvinSonDorr_66 (A6), Dorothea_69 (A6), EricB_68 (A6), Gail_69 (A14), Garak_71 (A6), Gladiator_67 (A6), GoldenEssence_151 (FC), GreedyLawyer_66 (A6), Gruunaga_70 (A6), Hammer_70 (A6), Helmet_72 (A6), Hexamo_70 (A6), Hoot_64 (A6), Imbriano_71 (A6), Indra_73 (A6), Isiphiwo_67 (A6),

Jeeves_71 (A14), Jeffabunny_70 (A6), JewelBug_69 (A6), Jordennis_68 (A6), Kalpine_67 (A2), Kipper29_69 (A6), Koko_72 (A6), Lilbunny_69 (A6), Luchador_70 (A14), Lucyedi_71 (A16), McFly_69 (A6), Neeharika16_68 (A6), Newrala_69 (A6), PainterBoy_70 (A16), Patbob_162 (FC), Pharaoh_65 (A12), Pmask_68 (A6), Polyphemus_71 (A6), Priamo_71 (A6), Refuge_65 (A12), Rifter_70 (A6), Roksolana_71 (A6), SororFago_69 (A14), Sunhee_70 (A14), SuperCallie99_66 (A6), Temprado_71 (A6), ToneTone_67 (A6), Trixie_66 (A2), Tucker_70 (A6), VohminGhazi_69 (A6), Wiks_69 (A6), WunderPhul_70 (A6), Yokurt_69 (A6), Zaka_70 (A6), Zimmer_65 (A12), Zulu_71 (A6),

Start 41:
• Found in 2 of 199 (1.0%) of genes in pham
• Manual Annotations of this start: 2 of 177
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Anthony_66 (A20), FatCactus_65 (A20),

Start 42:
• Found in 2 of 199 (1.0%) of genes in pham
• Manual Annotations of this start: 1 of 177
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Chargerpower_65 (A22),

Start 43:
• Found in 6 of 199 (3.0%) of genes in pham
• Manual Annotations of this start: 1 of 177
• Called 16.7% of time when present
• Phage (with cluster) where this start called: Ravana_75 (A15),

Start 45:
• Found in 23 of 199 (11.6%) of genes in pham
• Manual Annotations of this start: 23 of 177
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Anaysia_74 (A15), Anon_72 (A15), Battleship_76 (A15), Boohoo_74 (A15), DekHockey33_75 (A15), Elle_68 (A15), Epsocamisio_70 (A15), JSwag_73 (A15), KatherineG_74 (A15), LastResort_72 (A15), Looper_73 (A15), MinecraftSteve_74 (A15), Nebulosus_71 (A15), Oofda_74 (A15), ReMo_72 (A15), Remus_74 (A15), Rosalind_72 (A15), ShayRa_74 (A15), Soups_74 (A15), Strosahl_74 (A15), Switzerland_73 (A15), Waits_74 (A15), Warrior24_75 (A15),

Start 47:
• Found in 6 of 199 (3.0%) of genes in pham
• Manual Annotations of this start: 3 of 177
• Called 83.3% of time when present
• Phage (with cluster) where this start called: BooTeria_153 (FC), DunneganBoMo_153 (FC), Ellewin_153 (FC), Emmetator_156 (FC), KSunshine22_158 (FC),

Start 49:
• Found in 18 of 199 (9.0%) of genes in pham
• No Manual Annotations of this start.
• Called 5.6% of time when present
• Phage (with cluster) where this start called: WST1_48 (AJ),

Summary by clusters:

There are 24 clusters represented in this pham: DL, DD, singleton, FC, M1, M3, A15, A14, A16, G2, A12, A2, A6, A9, A8, A21, CB, AJ, CT, A20, CR3, A22, CR1, DE2,

Info for manual annotations of cluster A12:
•Start number 40 was manually annotated 4 times for cluster A12.

Info for manual annotations of cluster A14:
•Start number 40 was manually annotated 5 times for cluster A14.

Info for manual annotations of cluster A15:
•Start number 38 was manually annotated 1 time for cluster A15.
•Start number 43 was manually annotated 1 time for cluster A15.
•Start number 45 was manually annotated 23 times for cluster A15.

Info for manual annotations of cluster A16:
•Start number 20 was manually annotated 1 time for cluster A16.
•Start number 40 was manually annotated 2 times for cluster A16.

Info for manual annotations of cluster A2:
•Start number 40 was manually annotated 3 times for cluster A2.

Info for manual annotations of cluster A20:
•Start number 41 was manually annotated 2 times for cluster A20.

Info for manual annotations of cluster A21:
•Start number 35 was manually annotated 1 time for cluster A21.

Info for manual annotations of cluster A22:
•Start number 42 was manually annotated 1 time for cluster A22.

Info for manual annotations of cluster A6:
•Start number 24 was manually annotated 4 times for cluster A6.
•Start number 27 was manually annotated 1 time for cluster A6.
•Start number 40 was manually annotated 45 times for cluster A6.

Info for manual annotations of cluster A8:
•Start number 39 was manually annotated 12 times for cluster A8.

Info for manual annotations of cluster A9:
•Start number 27 was manually annotated 4 times for cluster A9.
•Start number 28 was manually annotated 4 times for cluster A9.
•Start number 30 was manually annotated 1 time for cluster A9.

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

Info for manual annotations of cluster CB:
•Start number 31 was manually annotated 1 time for cluster CB.
•Start number 37 was manually annotated 2 times for cluster CB.

Info for manual annotations of cluster CR1:
•Start number 22 was manually annotated 2 times for cluster CR1.
•Start number 29 was manually annotated 1 time for cluster CR1.

Info for manual annotations of cluster CR3:
•Start number 22 was manually annotated 6 times for cluster CR3.

Info for manual annotations of cluster CT:
•Start number 20 was manually annotated 12 times for cluster CT.
•Start number 31 was manually annotated 4 times for cluster CT.

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

Info for manual annotations of cluster DE2:
•Start number 34 was manually annotated 1 time for cluster DE2.

Info for manual annotations of cluster DL:
•Start number 23 was manually annotated 1 time for cluster DL.

Info for manual annotations of cluster FC:
•Start number 23 was manually annotated 2 times for cluster FC.
•Start number 34 was manually annotated 1 time for cluster FC.
•Start number 40 was manually annotated 2 times for cluster FC.
•Start number 47 was manually annotated 3 times for cluster FC.

Info for manual annotations of cluster G2:
•Start number 32 was manually annotated 1 time for cluster G2.
•Start number 36 was manually annotated 1 time for cluster G2.
•Start number 39 was manually annotated 1 time for cluster G2.

Info for manual annotations of cluster M1:
•Start number 36 was manually annotated 15 times for cluster M1.

Info for manual annotations of cluster M3:
•Start number 36 was manually annotated 1 time for cluster M3.

Gene Information:

Gene: Anaysia_74 Start: 40835, Stop: 40641, Start Num: 45
Candidate Starts for Anaysia_74:
(4, 41129), (5, 41123), (Start: 45 @40835 has 23 MA's), (50, 40820), (53, 40811), (77, 40712),

Gene: Anon_72 Start: 40724, Stop: 40530, Start Num: 45
Candidate Starts for Anon_72:
(4, 41021), (5, 41015), (Start: 45 @40724 has 23 MA's), (53, 40700), (79, 40595),

Gene: Anthony_66 Start: 40829, Stop: 40665, Start Num: 41
Candidate Starts for Anthony_66:
(Start: 41 @40829 has 2 MA's), (53, 40799), (79, 40694),

Gene: Artemis2UCLA_70 Start: 40238, Stop: 40059, Start Num: 40
Candidate Starts for Artemis2UCLA_70:
(Start: 40 @40238 has 61 MA's), (53, 40205),

Gene: Astro_73 Start: 40939, Stop: 40778, Start Num: 39
Candidate Starts for Astro_73:
(Start: 39 @40939 has 13 MA's), (64, 40855), (76, 40810), (80, 40798),

Gene: Atuin_156 Start: 110180, Stop: 110365, Start Num: 34
Candidate Starts for Atuin_156:
(Start: 34 @110180 has 2 MA's), (72, 110309), (75, 110315),

Gene: Auspice_53 Start: 38208, Stop: 38381, Start Num: 36
Candidate Starts for Auspice_53:
(Start: 36 @38208 has 17 MA's), (48, 38232), (61, 38280), (64, 38298),

Gene: Avocado_47 Start: 37189, Stop: 37362, Start Num: 39
Candidate Starts for Avocado_47:
(Start: 36 @37186 has 17 MA's), (Start: 39 @37189 has 13 MA's), (53, 37222), (55, 37231), (64, 37273), (72, 37309), (77, 37321), (79, 37327), (80, 37330),

Gene: BABullseye_62 Start: 37899, Stop: 37726, Start Num: 40
Candidate Starts for BABullseye_62:
(Start: 40 @37899 has 61 MA's), (53, 37872), (71, 37788),

Gene: Balloona_38 Start: 28381, Stop: 28175, Start Num: 20
Candidate Starts for Balloona_38:
(Start: 20 @28381 has 13 MA's), (53, 28315), (74, 28225), (77, 28216), (82, 28201),

Gene: Battleship_76 Start: 41041, Stop: 40862, Start Num: 45
Candidate Starts for Battleship_76:
(4, 41335), (5, 41329), (Start: 45 @41041 has 23 MA's), (50, 41026), (53, 41017), (72, 40930),

Gene: Bavilard_39 Start: 28599, Stop: 28390, Start Num: 20
Candidate Starts for Bavilard_39:
(19, 28602), (Start: 20 @28599 has 13 MA's), (Start: 40 @28563 has 61 MA's), (53, 28530), (77, 28431), (82, 28416),

Gene: Bellris_69 Start: 41041, Stop: 40850, Start Num: 27
Candidate Starts for Bellris_69:
(Start: 27 @41041 has 5 MA's), (46, 41011), (49, 41008), (60, 40966), (71, 40912), (75, 40903),

Gene: Belphegor_62 Start: 49602, Stop: 49805, Start Num: 34
Candidate Starts for Belphegor_62:
(10, 49470), (17, 49557), (25, 49593), (Start: 34 @49602 has 2 MA's), (75, 49740),

Gene: BennyP_70 Start: 40308, Stop: 40129, Start Num: 40
Candidate Starts for BennyP_70:
(Start: 40 @40308 has 61 MA's), (53, 40275),

Gene: BigChungus_39 Start: 28782, Stop: 28576, Start Num: 20
Candidate Starts for BigChungus_39:
(Start: 20 @28782 has 13 MA's), (53, 28716), (74, 28626), (77, 28617), (82, 28602),

Gene: BlessJoy_70 Start: 40664, Stop: 40485, Start Num: 40
Candidate Starts for BlessJoy_70:
(Start: 40 @40664 has 61 MA's), (53, 40631),

Gene: Blinn1_71 Start: 39967, Stop: 39776, Start Num: 27
Candidate Starts for Blinn1_71:
(11, 40087), (Start: 27 @39967 has 5 MA's), (56, 39910), (60, 39892),

Gene: Blue7_71 Start: 40393, Stop: 40187, Start Num: 24
Candidate Starts for Blue7_71:
(14, 40483), (18, 40411), (Start: 20 @40405 has 13 MA's), (Start: 24 @40393 has 4 MA's), (Start: 40 @40366 has 61 MA's), (53, 40333),

Gene: BogosyJay_70 Start: 41590, Stop: 41414, Start Num: 28
Candidate Starts for BogosyJay_70:
(Start: 28 @41590 has 4 MA's), (59, 41524),

Gene: Bongo_53 Start: 38212, Stop: 38385, Start Num: 36
Candidate Starts for Bongo_53:
(Start: 36 @38212 has 17 MA's), (48, 38236), (61, 38284), (64, 38302),

Gene: BooTeria_153 Start: 107851, Stop: 108009, Start Num: 47
Candidate Starts for BooTeria_153:
(Start: 23 @107806 has 3 MA's), (Start: 47 @107851 has 3 MA's),

Gene: Boohoo_74 Start: 40835, Stop: 40641, Start Num: 45
Candidate Starts for Boohoo_74:
(4, 41129), (5, 41123), (Start: 45 @40835 has 23 MA's), (50, 40820), (53, 40811), (77, 40712),

Gene: Bricole_53 Start: 38194, Stop: 38367, Start Num: 36
Candidate Starts for Bricole_53:
(Start: 36 @38194 has 17 MA's), (48, 38218), (61, 38266), (64, 38284),

Gene: Buttrmlkdreams_40 Start: 27645, Stop: 27442, Start Num: 31
Candidate Starts for Buttrmlkdreams_40:
(7, 27837), (Start: 31 @27645 has 5 MA's), (55, 27585), (59, 27567),

Gene: Caitlin_72 Start: 40640, Stop: 40479, Start Num: 39
Candidate Starts for Caitlin_72:
(Start: 39 @40640 has 13 MA's), (64, 40556), (76, 40511), (80, 40499),

Gene: Cambiare_47 Start: 37281, Stop: 37448, Start Num: 36
Candidate Starts for Cambiare_47:
(Start: 36 @37281 has 17 MA's), (Start: 39 @37284 has 13 MA's), (53, 37317), (55, 37326), (72, 37404), (81, 37428),

Gene: Candra_70 Start: 40269, Stop: 40090, Start Num: 40
Candidate Starts for Candra_70:
(16, 40371), (18, 40314), (Start: 20 @40308 has 13 MA's), (Start: 24 @40296 has 4 MA's), (Start: 40 @40269 has 61 MA's), (53, 40236),

Gene: Cardigan_133 Start: 76837, Stop: 77085, Start Num: 21

Candidate Starts for Cardigan_133:
(6, 76651), (Start: 21 @76837 has 3 MA's), (Start: 43 @76879 has 1 MA's), (69, 76984), (78, 77008), (85, 77029), (88, 77038),

Gene: Chargerpower_65 Start: 39591, Stop: 39409, Start Num: 42
Candidate Starts for Chargerpower_65:
(Start: 42 @39591 has 1 MA's), (53, 39561), (54, 39555),

Gene: Chartreuse_68 Start: 39579, Stop: 39406, Start Num: 40
Candidate Starts for Chartreuse_68:
(Start: 40 @39579 has 61 MA's), (53, 39552),

Gene: CloudWang3_71 Start: 40750, Stop: 40571, Start Num: 40
Candidate Starts for CloudWang3_71:
(Start: 40 @40750 has 61 MA's), (53, 40717),

Gene: CocoaPuff_40 Start: 28796, Stop: 28590, Start Num: 20
Candidate Starts for CocoaPuff_40:
(Start: 20 @28796 has 13 MA's), (53, 28730), (74, 28640), (77, 28631), (82, 28616),

Gene: CogOmlette_67 Start: 41038, Stop: 40847, Start Num: 27
Candidate Starts for CogOmlette_67:
(Start: 27 @41038 has 5 MA's), (46, 41008), (49, 41005), (60, 40963), (71, 40909), (75, 40900),

Gene: Colin_67 Start: 42014, Stop: 41838, Start Num: 40
Candidate Starts for Colin_67:
(Start: 40 @42014 has 61 MA's), (53, 41987), (62, 41942), (74, 41897),

Gene: Cookiedough_69 Start: 40207, Stop: 40034, Start Num: 40
Candidate Starts for Cookiedough_69:
(Start: 40 @40207 has 61 MA's), (53, 40180),

Gene: DaVinci_67 Start: 39633, Stop: 39460, Start Num: 40
Candidate Starts for DaVinci_67:
(Start: 40 @39633 has 61 MA's), (53, 39606),

Gene: Dalilpop_6 Start: 4569, Stop: 4790, Start Num: 22
Candidate Starts for Dalilpop_6:
(Start: 22 @4569 has 8 MA's), (Start: 29 @4581 has 1 MA's), (48, 4617), (76, 4728), (83, 4746), (84, 4749),

Gene: Danforth_73 Start: 40987, Stop: 40826, Start Num: 39
Candidate Starts for Danforth_73:
(Start: 39 @40987 has 13 MA's), (64, 40903), (76, 40858), (80, 40846),

Gene: DarthPhader_65 Start: 42262, Stop: 42065, Start Num: 40
Candidate Starts for DarthPhader_65:
(Start: 40 @42262 has 61 MA's), (49, 42241), (53, 42229), (77, 42130),

Gene: DekHockey33_75 Start: 41126, Stop: 40947, Start Num: 45
Candidate Starts for DekHockey33_75:
(4, 41420), (5, 41414), (Start: 45 @41126 has 23 MA's), (50, 41111), (53, 41102), (72, 41015),

Gene: DelvinSonDorr_66 Start: 40438, Stop: 40265, Start Num: 40
Candidate Starts for DelvinSonDorr_66:
(Start: 40 @40438 has 61 MA's), (53, 40411),

Gene: Diminimus_54 Start: 38207, Stop: 38380, Start Num: 36
Candidate Starts for Diminimus_54:
(Start: 36 @38207 has 17 MA's), (48, 38231), (61, 38279), (64, 38297),

Gene: Dixon_72 Start: 40507, Stop: 40346, Start Num: 39
Candidate Starts for Dixon_72:
(Start: 39 @40507 has 13 MA's), (64, 40423), (76, 40378), (80, 40366),

Gene: Dorothea_69 Start: 40205, Stop: 40032, Start Num: 40
Candidate Starts for Dorothea_69:
(Start: 40 @40205 has 61 MA's), (53, 40178),

Gene: Dulcita_54 Start: 38208, Stop: 38381, Start Num: 36
Candidate Starts for Dulcita_54:
(Start: 36 @38208 has 17 MA's), (48, 38232), (61, 38280), (64, 38298),

Gene: DunneganBoMo_153 Start: 107120, Stop: 107278, Start Num: 47
Candidate Starts for DunneganBoMo_153:
(Start: 23 @107075 has 3 MA's), (Start: 47 @107120 has 3 MA's),

Gene: EagleEye_72 Start: 41949, Stop: 41728, Start Num: 20
Candidate Starts for EagleEye_72:
(8, 42111), (Start: 20 @41949 has 13 MA's), (Start: 40 @41910 has 61 MA's), (49, 41889), (53, 41877), (68, 41802),

Gene: ElJefes_40 Start: 29121, Stop: 28915, Start Num: 20
Candidate Starts for ElJefes_40:
(Start: 20 @29121 has 13 MA's), (53, 29055), (74, 28965), (77, 28956), (82, 28941),

Gene: Elephantoon_69 Start: 40932, Stop: 40738, Start Num: 28
Candidate Starts for Elephantoon_69:
(Start: 28 @40932 has 4 MA's), (46, 40902), (49, 40899),

Gene: Elle_68 Start: 39328, Stop: 39149, Start Num: 45
Candidate Starts for Elle_68:
(Start: 45 @39328 has 23 MA's), (66, 39241), (89, 39169),

Gene: Ellewin_153 Start: 107224, Stop: 107382, Start Num: 47
Candidate Starts for Ellewin_153:
(Start: 23 @107179 has 3 MA's), (Start: 47 @107224 has 3 MA's), (57, 107260),

Gene: Emmetator_156 Start: 107433, Stop: 107591, Start Num: 47
Candidate Starts for Emmetator_156:
(Start: 23 @107388 has 3 MA's), (Start: 47 @107433 has 3 MA's),

Gene: Ennea_6 Start: 4376, Stop: 4606, Start Num: 22
Candidate Starts for Ennea_6:
(Start: 22 @4376 has 8 MA's), (64, 4490), (65, 4496), (70, 4520), (76, 4535), (84, 4556),

Gene: Epsocamisio_70 Start: 40273, Stop: 40094, Start Num: 45
Candidate Starts for Epsocamisio_70:
(4, 40567), (5, 40561), (Start: 45 @40273 has 23 MA's), (50, 40258), (53, 40249), (72, 40162),

Gene: EricB_68 Start: 40226, Stop: 40047, Start Num: 40
Candidate Starts for EricB_68:
(16, 40328), (18, 40271), (Start: 20 @40265 has 13 MA's), (Start: 24 @40253 has 4 MA's), (Start: 40 @40226 has 61 MA's), (53, 40193),

Gene: Expelliarmus_70 Start: 40711, Stop: 40550, Start Num: 39
Candidate Starts for Expelliarmus_70:
(Start: 39 @40711 has 13 MA's), (64, 40627), (76, 40582), (80, 40570),

Gene: FatCactus_65 Start: 40465, Stop: 40298, Start Num: 41
Candidate Starts for FatCactus_65:
(Start: 41 @40465 has 2 MA's), (44, 40459), (62, 40390), (77, 40336), (81, 40324),

Gene: Feastonyeet_39 Start: 28782, Stop: 28576, Start Num: 20
Candidate Starts for Feastonyeet_39:
(Start: 20 @28782 has 13 MA's), (53, 28716), (74, 28626), (77, 28617), (82, 28602),

Gene: FlagStaff_45 Start: 36055, Stop: 36249, Start Num: 32
Candidate Starts for FlagStaff_45:
(Start: 32 @36055 has 1 MA's), (Start: 35 @36058 has 1 MA's), (49, 36094), (53, 36106), (55, 36115), (74, 36196),

Gene: Flapper_6 Start: 3864, Stop: 4085, Start Num: 22
Candidate Starts for Flapper_6:
(Start: 22 @3864 has 8 MA's), (Start: 29 @3876 has 1 MA's), (48, 3912), (76, 4023), (84, 4044),

Gene: Float294_6 Start: 4362, Stop: 4592, Start Num: 22
Candidate Starts for Float294_6:
(Start: 22 @4362 has 8 MA's), (64, 4476), (65, 4482), (70, 4506), (76, 4521), (84, 4542),

Gene: FreakyGoo_54 Start: 38208, Stop: 38381, Start Num: 36
Candidate Starts for FreakyGoo_54:
(Start: 36 @38208 has 17 MA's), (48, 38232), (61, 38280), (64, 38298),

Gene: GRU1_89 Start: 62882, Stop: 63103, Start Num: 22
Candidate Starts for GRU1_89:
(Start: 22 @62882 has 8 MA's), (Start: 29 @62894 has 1 MA's), (48, 62930), (76, 63041), (84, 63062),

Gene: GTE5_88 Start: 63789, Stop: 63998, Start Num: 29
Candidate Starts for GTE5_88:
(Start: 22 @63777 has 8 MA's), (Start: 29 @63789 has 1 MA's), (48, 63825), (76, 63936), (84, 63957),

Gene: Gail_69 Start: 42059, Stop: 41856, Start Num: 40
Candidate Starts for Gail_69:
(Start: 40 @42059 has 61 MA's), (53, 42026), (66, 41963), (74, 41936), (76, 41930),

Gene: Garak_71 Start: 40605, Stop: 40426, Start Num: 40
Candidate Starts for Garak_71:
(Start: 40 @40605 has 61 MA's), (53, 40572),

Gene: Gladiator_67 Start: 39830, Stop: 39651, Start Num: 40
Candidate Starts for Gladiator_67:
(Start: 40 @39830 has 61 MA's), (53, 39797),

Gene: Glaske16_54 Start: 38207, Stop: 38380, Start Num: 36
Candidate Starts for Glaske16_54:
(Start: 36 @38207 has 17 MA's), (48, 38231), (61, 38279), (64, 38297),

Gene: GoldenEssence_151 Start: 104838, Stop: 104999, Start Num: 40
Candidate Starts for GoldenEssence_151:
(Start: 40 @104838 has 61 MA's), (53, 104871), (56, 104883), (58, 104892), (73, 104952), (78, 104964), (79, 104967), (80, 104970), (86, 104985),

Gene: Grayson_172 Start: 92452, Stop: 92664, Start Num: 37
Candidate Starts for Grayson_172:
(Start: 37 @92452 has 2 MA's),

Gene: GreedyLawyer_66 Start: 40199, Stop: 40020, Start Num: 40
Candidate Starts for GreedyLawyer_66:
(16, 40301), (18, 40244), (Start: 20 @40238 has 13 MA's), (Start: 24 @40226 has 4 MA's), (Start: 40 @40199 has 61 MA's), (53, 40166),

Gene: Groundhog_72 Start: 40917, Stop: 40756, Start Num: 39
Candidate Starts for Groundhog_72:
(Start: 39 @40917 has 13 MA's), (64, 40833), (76, 40788), (80, 40776),

Gene: Gruunaga_70 Start: 40563, Stop: 40384, Start Num: 40
Candidate Starts for Gruunaga_70:
(14, 40680), (18, 40608), (Start: 20 @40602 has 13 MA's), (Start: 24 @40590 has 4 MA's), (Start: 40 @40563 has 61 MA's), (53, 40530),

Gene: Hammer_70 Start: 40170, Stop: 39991, Start Num: 40
Candidate Starts for Hammer_70:
(Start: 40 @40170 has 61 MA's), (53, 40137),

Gene: Helmet_72 Start: 40605, Stop: 40426, Start Num: 40
Candidate Starts for Helmet_72:
(Start: 40 @40605 has 61 MA's), (53, 40572),

Gene: Hexamo_70 Start: 40235, Stop: 40056, Start Num: 40
Candidate Starts for Hexamo_70:
(Start: 40 @40235 has 61 MA's), (53, 40202),

Gene: Hoot_64 Start: 38084, Stop: 37905, Start Num: 40
Candidate Starts for Hoot_64:
(16, 38186), (18, 38129), (Start: 20 @38123 has 13 MA's), (Start: 24 @38111 has 4 MA's), (Start: 40 @38084 has 61 MA's), (53, 38051),

Gene: Horseradish_40 Start: 27173, Stop: 26970, Start Num: 31
Candidate Starts for Horseradish_40:
(7, 27365), (Start: 31 @27173 has 5 MA's), (55, 27113), (59, 27095),

Gene: IPhane7_53 Start: 38212, Stop: 38385, Start Num: 36
Candidate Starts for IPhane7_53:
(Start: 36 @38212 has 17 MA's), (48, 38236), (61, 38284), (64, 38302),

Gene: IdentityCrisis_47 Start: 31026, Stop: 31214, Start Num: 26
Candidate Starts for IdentityCrisis_47:
(Start: 26 @31026 has 1 MA's), (49, 31071), (53, 31083), (55, 31092), (56, 31095), (70, 31164), (77, 31182), (81, 31194),

Gene: Imbriano_71 Start: 40598, Stop: 40419, Start Num: 40
Candidate Starts for Imbriano_71:
(16, 40700), (18, 40643), (Start: 20 @40637 has 13 MA's), (Start: 24 @40625 has 4 MA's), (Start: 40 @40598 has 61 MA's), (53, 40565),

Gene: Indra_73 Start: 40606, Stop: 40427, Start Num: 40
Candidate Starts for Indra_73:
(Start: 40 @40606 has 61 MA's), (53, 40573),

Gene: Isiphiwo_67 Start: 39765, Stop: 39586, Start Num: 40
Candidate Starts for Isiphiwo_67:
(Start: 40 @39765 has 61 MA's), (53, 39732),

Gene: Izel_54 Start: 38207, Stop: 38380, Start Num: 36
Candidate Starts for Izel_54:
(Start: 36 @38207 has 17 MA's), (48, 38231), (61, 38279), (64, 38297),

Gene: JSwag_73 Start: 40558, Stop: 40379, Start Num: 45
Candidate Starts for JSwag_73:
(4, 40852), (5, 40846), (Start: 45 @40558 has 23 MA's), (50, 40543), (53, 40534), (72, 40447),

Gene: Jeeves_71 Start: 41042, Stop: 40869, Start Num: 40
Candidate Starts for Jeeves_71:
(15, 41156), (Start: 24 @41069 has 4 MA's), (Start: 40 @41042 has 61 MA's), (50, 41018), (53, 41009), (54, 41003), (57, 40991),

Gene: Jeffabunny_70 Start: 40232, Stop: 40053, Start Num: 40
Candidate Starts for Jeffabunny_70:
(Start: 40 @40232 has 61 MA's), (53, 40199),

Gene: JewelBug_69 Start: 40499, Stop: 40326, Start Num: 40
Candidate Starts for JewelBug_69:
(Start: 40 @40499 has 61 MA's), (53, 40472),

Gene: JonJames_134 Start: 77470, Stop: 77718, Start Num: 21
Candidate Starts for JonJames_134:
(Start: 21 @77470 has 3 MA's), (Start: 43 @77512 has 1 MA's), (69, 77617), (78, 77641), (85, 77662), (88, 77671),

Gene: Jordennis_68 Start: 39980, Stop: 39807, Start Num: 40
Candidate Starts for Jordennis_68:
(Start: 40 @39980 has 61 MA's), (53, 39953), (71, 39869),

Gene: KSunshine22_158 Start: 108183, Stop: 108341, Start Num: 47

Candidate Starts for KSunshine22_158:
(Start: 23 @108138 has 3 MA's), (Start: 47 @108183 has 3 MA's), (57, 108219),

Gene: Kalpine_67 Start: 42195, Stop: 42019, Start Num: 40
Candidate Starts for Kalpine_67:
(Start: 40 @42195 has 61 MA's), (62, 42123),

Gene: KatherineG_74 Start: 41031, Stop: 40852, Start Num: 45
Candidate Starts for KatherineG_74:
(4, 41325), (5, 41319), (Start: 45 @41031 has 23 MA's), (50, 41016), (53, 41007), (72, 40920),

Gene: Kazan_70 Start: 40266, Stop: 40060, Start Num: 24
Candidate Starts for Kazan_70:
(16, 40341), (18, 40284), (Start: 20 @40278 has 13 MA's), (Start: 24 @40266 has 4 MA's), (Start: 40 @40239 has 61 MA's), (53, 40206),

Gene: Kinmap_69 Start: 40504, Stop: 40307, Start Num: 35
Candidate Starts for Kinmap_69:
(14, 40609), (Start: 35 @40504 has 1 MA's), (Start: 42 @40489 has 1 MA's), (52, 40468), (56, 40453),

Gene: Kipper29_69 Start: 40252, Stop: 40073, Start Num: 40
Candidate Starts for Kipper29_69:
(16, 40354), (18, 40297), (Start: 20 @40291 has 13 MA's), (Start: 24 @40279 has 4 MA's), (Start: 40 @40252 has 61 MA's), (53, 40219),

Gene: KleverKiS_54 Start: 38188, Stop: 38361, Start Num: 36
Candidate Starts for KleverKiS_54:
(Start: 36 @38188 has 17 MA's), (48, 38212), (61, 38260), (64, 38278),

Gene: Klodlith_66 Start: 40644, Stop: 40468, Start Num: 27
Candidate Starts for Klodlith_66:
(3, 40917), (Start: 27 @40644 has 5 MA's), (59, 40578),

Gene: Koko_72 Start: 41090, Stop: 40911, Start Num: 40
Candidate Starts for Koko_72:
(Start: 40 @41090 has 61 MA's), (53, 41057),

Gene: LastResort_72 Start: 40611, Stop: 40417, Start Num: 45
Candidate Starts for LastResort_72:
(4, 40905), (5, 40899), (Start: 45 @40611 has 23 MA's), (50, 40596), (53, 40587), (77, 40488),

Gene: Lauer_36 Start: 29997, Stop: 29788, Start Num: 20
Candidate Starts for Lauer_36:
(19, 30000), (Start: 20 @29997 has 13 MA's), (Start: 40 @29961 has 61 MA's), (49, 29940), (53, 29928), (74, 29838), (77, 29829), (82, 29814),

Gene: LeoJr_166 Start: 110788, Stop: 110976, Start Num: 34
Candidate Starts for LeoJr_166:
(Start: 34 @110788 has 2 MA's), (Start: 43 @110809 has 1 MA's),

Gene: Lilbunny_69 Start: 40236, Stop: 40057, Start Num: 40
Candidate Starts for Lilbunny_69:
(Start: 40 @40236 has 61 MA's), (53, 40203),

Gene: LilhomieP_52 Start: 38212, Stop: 38385, Start Num: 36
Candidate Starts for LilhomieP_52:
(Start: 36 @38212 has 17 MA's), (48, 38236), (61, 38284), (64, 38302),

Gene: Lilleskat_70 Start: 41392, Stop: 41216, Start Num: 27
Candidate Starts for Lilleskat_70:
(Start: 27 @41392 has 5 MA's), (59, 41326),

Gene: Lollipop1437_6 Start: 4364, Stop: 4594, Start Num: 22
Candidate Starts for Lollipop1437_6:
(Start: 22 @4364 has 8 MA's), (64, 4478), (65, 4484), (70, 4508), (76, 4523), (84, 4544),

Gene: LoneWolf_70 Start: 41439, Stop: 41263, Start Num: 28
Candidate Starts for LoneWolf_70:
(Start: 28 @41439 has 4 MA's), (59, 41373),

Gene: Looper_73 Start: 40523, Stop: 40329, Start Num: 45
Candidate Starts for Looper_73:
(4, 40817), (5, 40811), (Start: 45 @40523 has 23 MA's), (50, 40508), (53, 40499), (77, 40400),

Gene: Luchador_70 Start: 42522, Stop: 42328, Start Num: 40
Candidate Starts for Luchador_70:
(Start: 40 @42522 has 61 MA's), (53, 42489), (59, 42462), (66, 42426), (74, 42399), (76, 42393),

Gene: Lucyedi_71 Start: 42106, Stop: 41924, Start Num: 40
Candidate Starts for Lucyedi_71:
(8, 42307), (Start: 20 @42145 has 13 MA's), (Start: 40 @42106 has 61 MA's), (49, 42085), (53, 42073), (68, 41998),

Gene: MScarn_41 Start: 27313, Stop: 27110, Start Num: 31
Candidate Starts for MScarn_41:
(7, 27505), (Start: 31 @27313 has 5 MA's), (55, 27253), (59, 27235),

Gene: Maminiaina_70 Start: 41572, Stop: 41396, Start Num: 28
Candidate Starts for Maminiaina_70:
(Start: 28 @41572 has 4 MA's), (59, 41506),

Gene: Mayweather_43 Start: 29791, Stop: 29582, Start Num: 20
Candidate Starts for Mayweather_43:
(19, 29794), (Start: 20 @29791 has 13 MA's), (Start: 40 @29755 has 61 MA's), (49, 29734), (53, 29722), (74, 29632), (77, 29623), (82, 29608),

Gene: McDazzle_41 Start: 29115, Stop: 28909, Start Num: 20
Candidate Starts for McDazzle_41:
(Start: 20 @29115 has 13 MA's), (53, 29049), (74, 28959), (77, 28950), (82, 28935),

Gene: McFly_69 Start: 40192, Stop: 40019, Start Num: 40
Candidate Starts for McFly_69:
(Start: 40 @40192 has 61 MA's), (53, 40165),

Gene: MinecraftSteve_74 Start: 40846, Stop: 40667, Start Num: 45
Candidate Starts for MinecraftSteve_74:

(4, 41140), (5, 41134), (Start: 45 @40846 has 23 MA's), (50, 40831), (53, 40822), (72, 40735),

Gene: Minispark_67 Start: 41035, Stop: 40844, Start Num: 27
Candidate Starts for Minispark_67:
(Start: 27 @41035 has 5 MA's), (46, 41005), (49, 41002), (60, 40960), (71, 40906), (75, 40897),

Gene: Nanosmite_58 Start: 39866, Stop: 40042, Start Num: 36
Candidate Starts for Nanosmite_58:
(12, 39743), (Start: 36 @39866 has 17 MA's), (51, 39902), (64, 39959), (75, 39998),

Gene: NearlyHeadless_73 Start: 40753, Stop: 40592, Start Num: 39
Candidate Starts for NearlyHeadless_73:
(Start: 39 @40753 has 13 MA's), (64, 40669), (76, 40624), (80, 40612),

Gene: Nebulosus_71 Start: 40510, Stop: 40331, Start Num: 45
Candidate Starts for Nebulosus_71:
(4, 40804), (5, 40798), (Start: 45 @40510 has 23 MA's), (50, 40495), (53, 40486), (72, 40399),

Gene: Nedarya_70 Start: 40759, Stop: 40541, Start Num: 38
Candidate Starts for Nedarya_70:
(1, 41509), (2, 41473), (Start: 38 @40759 has 1 MA's), (Start: 43 @40747 has 1 MA's), (50, 40729), (92, 40567), (93, 40555), (94, 40552),

Gene: Neeharika16_68 Start: 39659, Stop: 39486, Start Num: 40
Candidate Starts for Neeharika16_68:
(Start: 40 @39659 has 61 MA's), (53, 39632),

Gene: Newrala_69 Start: 40200, Stop: 40021, Start Num: 40
Candidate Starts for Newrala_69:
(16, 40302), (18, 40245), (Start: 20 @40239 has 13 MA's), (Start: 24 @40227 has 4 MA's), (Start: 40 @40200 has 61 MA's), (53, 40167),

Gene: Oofda_74 Start: 40724, Stop: 40530, Start Num: 45
Candidate Starts for Oofda_74:
(Start: 45 @40724 has 23 MA's), (50, 40709), (53, 40700), (77, 40601),

Gene: Pace1224_45 Start: 36103, Stop: 36276, Start Num: 39
Candidate Starts for Pace1224_45:
(Start: 39 @36103 has 13 MA's), (53, 36136), (72, 36223), (77, 36235), (79, 36241), (80, 36244),

Gene: PainterBoy_70 Start: 41815, Stop: 41633, Start Num: 40
Candidate Starts for PainterBoy_70:
(8, 42016), (Start: 20 @41854 has 13 MA's), (Start: 40 @41815 has 61 MA's), (49, 41794), (53, 41782), (68, 41707),

Gene: Panchaali_155 Start: 107904, Stop: 108107, Start Num: 23
Candidate Starts for Panchaali_155:
(Start: 23 @107904 has 3 MA's), (64, 108018), (84, 108084),

Gene: Patbob_162 Start: 111552, Stop: 111728, Start Num: 40
Candidate Starts for Patbob_162:
(Start: 40 @111552 has 61 MA's), (91, 111717),

Gene: Patio_7 Start: 5032, Stop: 5262, Start Num: 22
Candidate Starts for Patio_7:
(Start: 22 @5032 has 8 MA's), (64, 5146), (65, 5152), (69, 5173), (70, 5176), (76, 5191), (84, 5212),

Gene: PegLeg_53 Start: 38211, Stop: 38384, Start Num: 36
Candidate Starts for PegLeg_53:
(Start: 36 @38211 has 17 MA's), (48, 38235), (61, 38283), (64, 38301),

Gene: Peregrin_170 Start: 91883, Stop: 92095, Start Num: 37
Candidate Starts for Peregrin_170:
(Start: 37 @91883 has 2 MA's),

Gene: Pharaoh_65 Start: 41502, Stop: 41326, Start Num: 40
Candidate Starts for Pharaoh_65:
(Start: 40 @41502 has 61 MA's), (53, 41475),

Gene: Phillis_70 Start: 40207, Stop: 40049, Start Num: 39
Candidate Starts for Phillis_70:
(9, 40354), (13, 40321), (Start: 39 @40207 has 13 MA's), (72, 40087), (80, 40066), (81, 40063), (82, 40060),

Gene: Pmask_68 Start: 40195, Stop: 40022, Start Num: 40
Candidate Starts for Pmask_68:
(Start: 40 @40195 has 61 MA's), (53, 40168),

Gene: Polyphemus_71 Start: 40586, Stop: 40407, Start Num: 40
Candidate Starts for Polyphemus_71:
(16, 40688), (18, 40631), (Start: 20 @40625 has 13 MA's), (Start: 24 @40613 has 4 MA's), (Start: 40 @40586 has 61 MA's), (53, 40553),

Gene: Pons_41 Start: 29139, Stop: 28933, Start Num: 20
Candidate Starts for Pons_41:
(Start: 20 @29139 has 13 MA's), (53, 29073), (66, 29010), (74, 28983), (77, 28974), (82, 28959),

Gene: PotPie_40 Start: 30073, Stop: 29867, Start Num: 20
Candidate Starts for PotPie_40:
(Start: 20 @30073 has 13 MA's), (53, 30007), (74, 29917), (77, 29908), (82, 29893),

Gene: Priamo_71 Start: 40046, Stop: 39873, Start Num: 40
Candidate Starts for Priamo_71:
(Start: 40 @40046 has 61 MA's), (53, 40019),

Gene: Rahalelujah_69 Start: 41050, Stop: 40859, Start Num: 27
Candidate Starts for Rahalelujah_69:
(Start: 27 @41050 has 5 MA's), (46, 41020), (49, 41017), (60, 40975), (71, 40921), (75, 40912),

Gene: Ravana_75 Start: 41923, Stop: 41726, Start Num: 43
Candidate Starts for Ravana_75:
(Start: 43 @41923 has 1 MA's), (77, 41797),

Gene: ReMo_72 Start: 40608, Stop: 40414, Start Num: 45
Candidate Starts for ReMo_72:
(4, 40902), (5, 40896), (Start: 45 @40608 has 23 MA's), (50, 40593), (53, 40584), (77, 40485),

Gene: RedRaider_6 Start: 4303, Stop: 4524, Start Num: 22
Candidate Starts for RedRaider_6:
(Start: 22 @4303 has 8 MA's), (64, 4420), (65, 4426), (66, 4432), (70, 4450), (82, 4480),

Gene: Refuge_65 Start: 42312, Stop: 42115, Start Num: 40
Candidate Starts for Refuge_65:
(Start: 40 @42312 has 61 MA's), (49, 42291), (53, 42279), (77, 42180),

Gene: ReginaGlobina_169 Start: 112062, Stop: 112247, Start Num: 34
Candidate Starts for ReginaGlobina_169:
(Start: 34 @112062 has 2 MA's), (72, 112191), (75, 112197),

Gene: Reindeer_55 Start: 39414, Stop: 39587, Start Num: 36
Candidate Starts for Reindeer_55:
(12, 39291), (Start: 36 @39414 has 17 MA's), (63, 39501), (64, 39504),

Gene: Remus_74 Start: 40598, Stop: 40419, Start Num: 45
Candidate Starts for Remus_74:
(4, 40892), (5, 40886), (Start: 45 @40598 has 23 MA's), (50, 40583), (53, 40574), (72, 40487),

Gene: Rifter_70 Start: 39766, Stop: 39587, Start Num: 40
Candidate Starts for Rifter_70:
(Start: 40 @39766 has 61 MA's), (53, 39733),

Gene: Roary_74 Start: 40972, Stop: 40811, Start Num: 39
Candidate Starts for Roary_74:
(Start: 39 @40972 has 13 MA's), (64, 40888), (66, 40876), (76, 40843), (80, 40831),

Gene: Roksolana_71 Start: 40600, Stop: 40421, Start Num: 40
Candidate Starts for Roksolana_71:
(14, 40717), (18, 40645), (Start: 20 @40639 has 13 MA's), (Start: 24 @40627 has 4 MA's), (Start: 40 @40600 has 61 MA's), (53, 40567),

Gene: Rosalind_72 Start: 40765, Stop: 40586, Start Num: 45
Candidate Starts for Rosalind_72:
(4, 41059), (5, 41053), (Start: 45 @40765 has 23 MA's), (50, 40750), (53, 40741), (72, 40654),

Gene: RoseMarie_59 Start: 41858, Stop: 42031, Start Num: 36
Candidate Starts for RoseMarie_59:
(Start: 36 @41858 has 17 MA's), (48, 41882), (59, 41924), (64, 41948), (67, 41963), (74, 41984),

Gene: Saintus_68 Start: 37637, Stop: 37476, Start Num: 39
Candidate Starts for Saintus_68:
(Start: 39 @37637 has 13 MA's), (64, 37553), (76, 37508), (80, 37496),

Gene: ShayRa_74 Start: 40794, Stop: 40615, Start Num: 45
Candidate Starts for ShayRa_74:
(4, 41088), (5, 41082), (Start: 45 @40794 has 23 MA's), (50, 40779), (53, 40770), (72, 40683),

Gene: SheaKeira_65 Start: 40520, Stop: 40344, Start Num: 27
Candidate Starts for SheaKeira_65:
(3, 40793), (Start: 27 @40520 has 5 MA's), (56, 40469), (59, 40454),

Gene: SheckWes_42 Start: 28660, Stop: 28454, Start Num: 20
Candidate Starts for SheckWes_42:
(Start: 20 @28660 has 13 MA's), (53, 28594), (74, 28504), (77, 28495), (82, 28480),

Gene: Skinny_54 Start: 38641, Stop: 38814, Start Num: 36
Candidate Starts for Skinny_54:
(Start: 36 @38641 has 17 MA's), (48, 38665), (61, 38713), (64, 38731),

Gene: Skysand_6 Start: 4364, Stop: 4594, Start Num: 22
Candidate Starts for Skysand_6:
(Start: 22 @4364 has 8 MA's), (64, 4478), (65, 4484), (70, 4508), (76, 4523), (84, 4544),

Gene: SlimJimmy_52 Start: 38195, Stop: 38368, Start Num: 36
Candidate Starts for SlimJimmy_52:
(Start: 36 @38195 has 17 MA's), (48, 38219), (61, 38267), (64, 38285),

Gene: Smeadley_73 Start: 40833, Stop: 40672, Start Num: 39
Candidate Starts for Smeadley_73:
(Start: 39 @40833 has 13 MA's), (64, 40749), (76, 40704), (80, 40692),

Gene: SmellyB_69 Start: 40260, Stop: 40054, Start Num: 24
Candidate Starts for SmellyB_69:
(16, 40335), (18, 40278), (Start: 20 @40272 has 13 MA's), (Start: 24 @40260 has 4 MA's), (Start: 40 @40233 has 61 MA's), (53, 40200),

Gene: SororFago_69 Start: 42242, Stop: 42048, Start Num: 40
Candidate Starts for SororFago_69:
(Start: 40 @42242 has 61 MA's), (53, 42209), (66, 42146), (74, 42119), (76, 42113),

Gene: Soups_74 Start: 41058, Stop: 40864, Start Num: 45
Candidate Starts for Soups_74:
(4, 41352), (5, 41346), (Start: 45 @41058 has 23 MA's), (50, 41043), (53, 41034), (77, 40935),

Gene: Stephig9_72 Start: 40770, Stop: 40612, Start Num: 39
Candidate Starts for Stephig9_72:
(Start: 39 @40770 has 13 MA's), (55, 40728), (64, 40686), (76, 40641), (80, 40629), (81, 40626),

Gene: Stewart25555_153 Start: 108142, Stop: 108345, Start Num: 23
Candidate Starts for Stewart25555_153:
(Start: 23 @108142 has 3 MA's), (83, 108319),

Gene: Strosahl_74 Start: 40598, Stop: 40419, Start Num: 45
Candidate Starts for Strosahl_74:
(4, 40892), (5, 40886), (Start: 45 @40598 has 23 MA's), (50, 40583), (53, 40574), (72, 40487),

Gene: SummitAcademy_39 Start: 28702, Stop: 28496, Start Num: 20
Candidate Starts for SummitAcademy_39:
(Start: 20 @28702 has 13 MA's), (53, 28636), (74, 28546), (77, 28537), (82, 28522),

Gene: Sunhee_70 Start: 40582, Stop: 40388, Start Num: 40
Candidate Starts for Sunhee_70:
(14, 40693), (Start: 24 @40603 has 4 MA's), (Start: 40 @40582 has 61 MA's), (66, 40486), (76, 40453),

Gene: SuperAwesome_69 Start: 40265, Stop: 40059, Start Num: 24
Candidate Starts for SuperAwesome_69:
(16, 40340), (18, 40283), (Start: 20 @40277 has 13 MA's), (Start: 24 @40265 has 4 MA's), (Start: 40 @40238 has 61 MA's), (53, 40205),

Gene: SuperCallie99_66 Start: 40079, Stop: 39906, Start Num: 40
Candidate Starts for SuperCallie99_66:
(Start: 40 @40079 has 61 MA's), (53, 40052),

Gene: Switzerland_73 Start: 40933, Stop: 40754, Start Num: 45
Candidate Starts for Switzerland_73:
(4, 41227), (5, 41221), (Start: 45 @40933 has 23 MA's), (50, 40918), (53, 40909), (72, 40822),

Gene: Tarnish_40 Start: 29209, Stop: 29000, Start Num: 20
Candidate Starts for Tarnish_40:
(19, 29212), (Start: 20 @29209 has 13 MA's), (Start: 40 @29173 has 61 MA's), (49, 29152), (50, 29149), (53, 29140), (77, 29041), (82, 29026),

Gene: Temprado_71 Start: 40605, Stop: 40426, Start Num: 40
Candidate Starts for Temprado_71:
(Start: 40 @40605 has 61 MA's), (53, 40572),

Gene: ToneTone_67 Start: 40165, Stop: 39986, Start Num: 40
Candidate Starts for ToneTone_67:
(Start: 40 @40165 has 61 MA's), (53, 40132),

Gene: Towmatter_107 Start: 68561, Stop: 68797, Start Num: 23
Candidate Starts for Towmatter_107:
(Start: 23 @68561 has 3 MA's), (54, 68630), (55, 68633),

Gene: TpudiCK_55 Start: 38211, Stop: 38384, Start Num: 36
Candidate Starts for TpudiCK_55:
(Start: 36 @38211 has 17 MA's), (48, 38235), (61, 38283), (64, 38301),

Gene: Trixie_66 Start: 41830, Stop: 41654, Start Num: 40
Candidate Starts for Trixie_66:
(Start: 40 @41830 has 61 MA's), (62, 41758), (74, 41713),

Gene: Tucker_70 Start: 40368, Stop: 40189, Start Num: 40
Candidate Starts for Tucker_70:
(Start: 40 @40368 has 61 MA's), (53, 40335),

Gene: Turuncu_6 Start: 3772, Stop: 3981, Start Num: 29
Candidate Starts for Turuncu_6:
(Start: 22 @3760 has 8 MA's), (Start: 29 @3772 has 1 MA's), (48, 3808), (76, 3919), (83, 3937), (84, 3940),

Gene: TyDawg_53 Start: 38212, Stop: 38385, Start Num: 36
Candidate Starts for TyDawg_53:
(Start: 36 @38212 has 17 MA's), (48, 38236), (61, 38284), (64, 38302),

Gene: Vine_42 Start: 29438, Stop: 29232, Start Num: 20

Candidate Starts for Vine_42:
(Start: 20 @29438 has 13 MA's), (53, 29372), (74, 29282), (77, 29273), (82, 29258),

Gene: VohminGhazi_69 Start: 40234, Stop: 40055, Start Num: 40
Candidate Starts for VohminGhazi_69:
(16, 40336), (18, 40279), (Start: 20 @40273 has 13 MA's), (Start: 24 @40261 has 4 MA's), (Start: 40 @40234 has 61 MA's), (53, 40201),

Gene: WST1_48 Start: 30928, Stop: 31071, Start Num: 49
Candidate Starts for WST1_48:
(Start: 26 @30883 has 1 MA's), (49, 30928), (53, 30940), (55, 30949), (56, 30952), (70, 31021), (77, 31039), (81, 31051),

Gene: WaddleDee_149 Start: 106261, Stop: 106464, Start Num: 23
Candidate Starts for WaddleDee_149:
(Start: 23 @106261 has 3 MA's), (Start: 47 @106306 has 3 MA's),

Gene: Waits_74 Start: 40830, Stop: 40651, Start Num: 45
Candidate Starts for Waits_74:
(4, 41124), (5, 41118), (Start: 45 @40830 has 23 MA's), (50, 40815), (53, 40806), (72, 40719),

Gene: Warrior24_75 Start: 41179, Stop: 40985, Start Num: 45
Candidate Starts for Warrior24_75:
(Start: 45 @41179 has 23 MA's), (50, 41164), (53, 41155), (77, 41056),

Gene: Weasels2_176 Start: 96304, Stop: 96510, Start Num: 31
Candidate Starts for Weasels2_176:
(Start: 31 @96304 has 5 MA's),

Gene: Wiks_69 Start: 40236, Stop: 40057, Start Num: 40
Candidate Starts for Wiks_69:
(Start: 40 @40236 has 61 MA's), (53, 40203),

Gene: WorldCup_67 Start: 41044, Stop: 40853, Start Num: 27
Candidate Starts for WorldCup_67:
(Start: 27 @41044 has 5 MA's), (46, 41014), (49, 41011), (60, 40969), (71, 40915), (75, 40906),

Gene: WunderPhul_70 Start: 40234, Stop: 40055, Start Num: 40
Candidate Starts for WunderPhul_70:
(Start: 40 @40234 has 61 MA's), (53, 40201),

Gene: Yappy_17 Start: 5650, Stop: 5847, Start Num: 33
Candidate Starts for Yappy_17:
(18, 5620), (Start: 33 @5650 has 1 MA's), (53, 5698), (57, 5716), (64, 5749), (70, 5776), (78, 5797), (87, 5821), (90, 5833),

Gene: Yecey3_72 Start: 41315, Stop: 41127, Start Num: 30
Candidate Starts for Yecey3_72:
(Start: 30 @41315 has 1 MA's), (49, 41282),

Gene: Yokurt_69 Start: 40236, Stop: 40057, Start Num: 40
Candidate Starts for Yokurt_69:
(Start: 40 @40236 has 61 MA's), (53, 40203),

Gene: Yucky_42 Start: 29378, Stop: 29172, Start Num: 20
Candidate Starts for Yucky_42:
(Start: 20 @29378 has 13 MA's), (53, 29312), (74, 29222), (77, 29213), (82, 29198),

Gene: Yummy_40 Start: 27287, Stop: 27084, Start Num: 31
Candidate Starts for Yummy_40:
(7, 27479), (Start: 31 @27287 has 5 MA's), (55, 27227), (59, 27209),

Gene: Yvonnetastic_130 Start: 73750, Stop: 73998, Start Num: 21
Candidate Starts for Yvonnetastic_130:
(Start: 21 @73750 has 3 MA's), (Start: 43 @73792 has 1 MA's), (69, 73897), (77, 73918), (85, 73942), (88, 73951),

Gene: Zaka_70 Start: 40236, Stop: 40057, Start Num: 40
Candidate Starts for Zaka_70:
(Start: 40 @40236 has 61 MA's), (53, 40203),

Gene: Zimmer_65 Start: 42012, Stop: 41815, Start Num: 40
Candidate Starts for Zimmer_65:
(14, 42129), (15, 42126), (Start: 40 @42012 has 61 MA's), (53, 41979),

Gene: Zulu_71 Start: 40614, Stop: 40435, Start Num: 40
Candidate Starts for Zulu_71:
(Start: 40 @40614 has 61 MA's), (53, 40581),