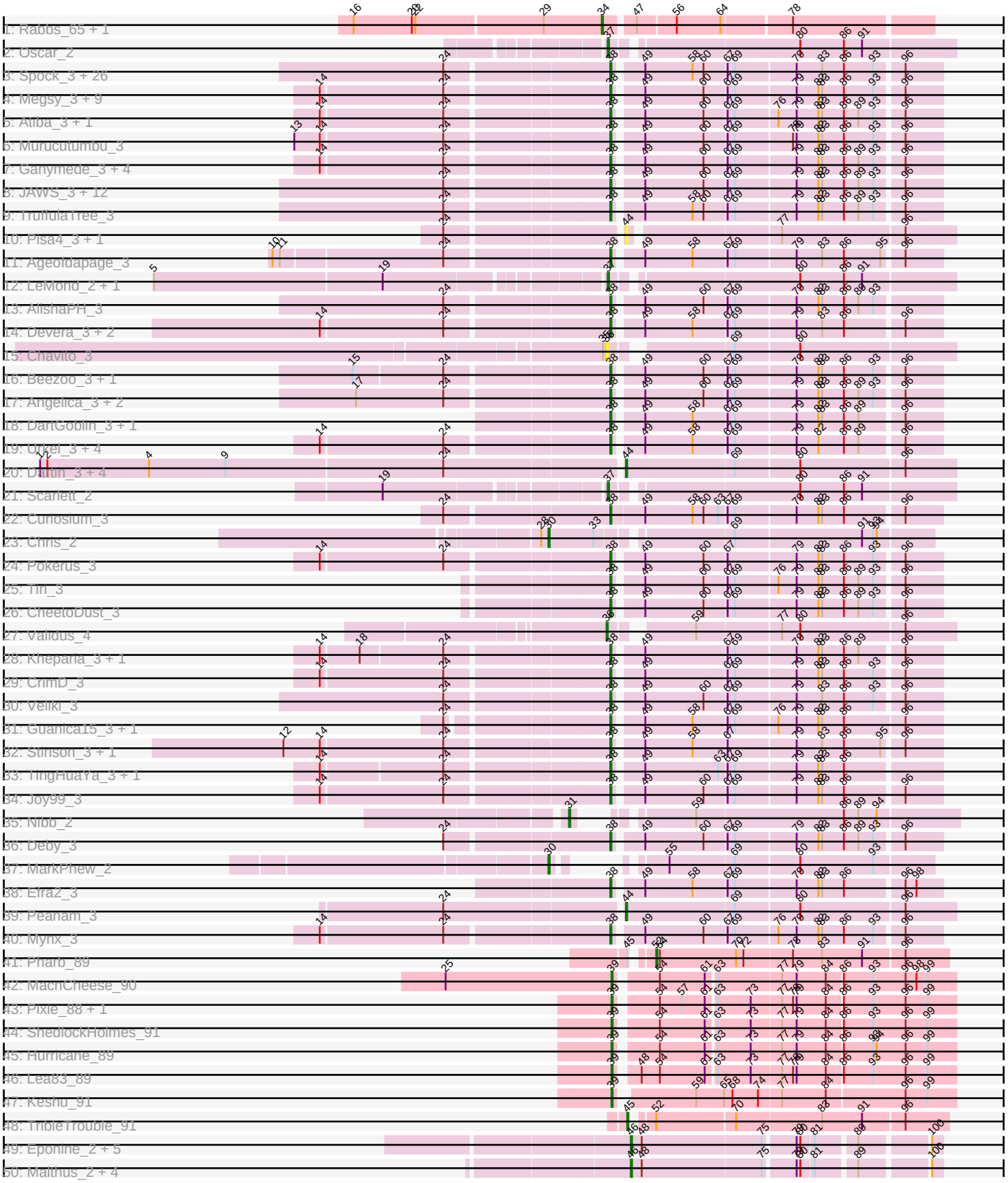
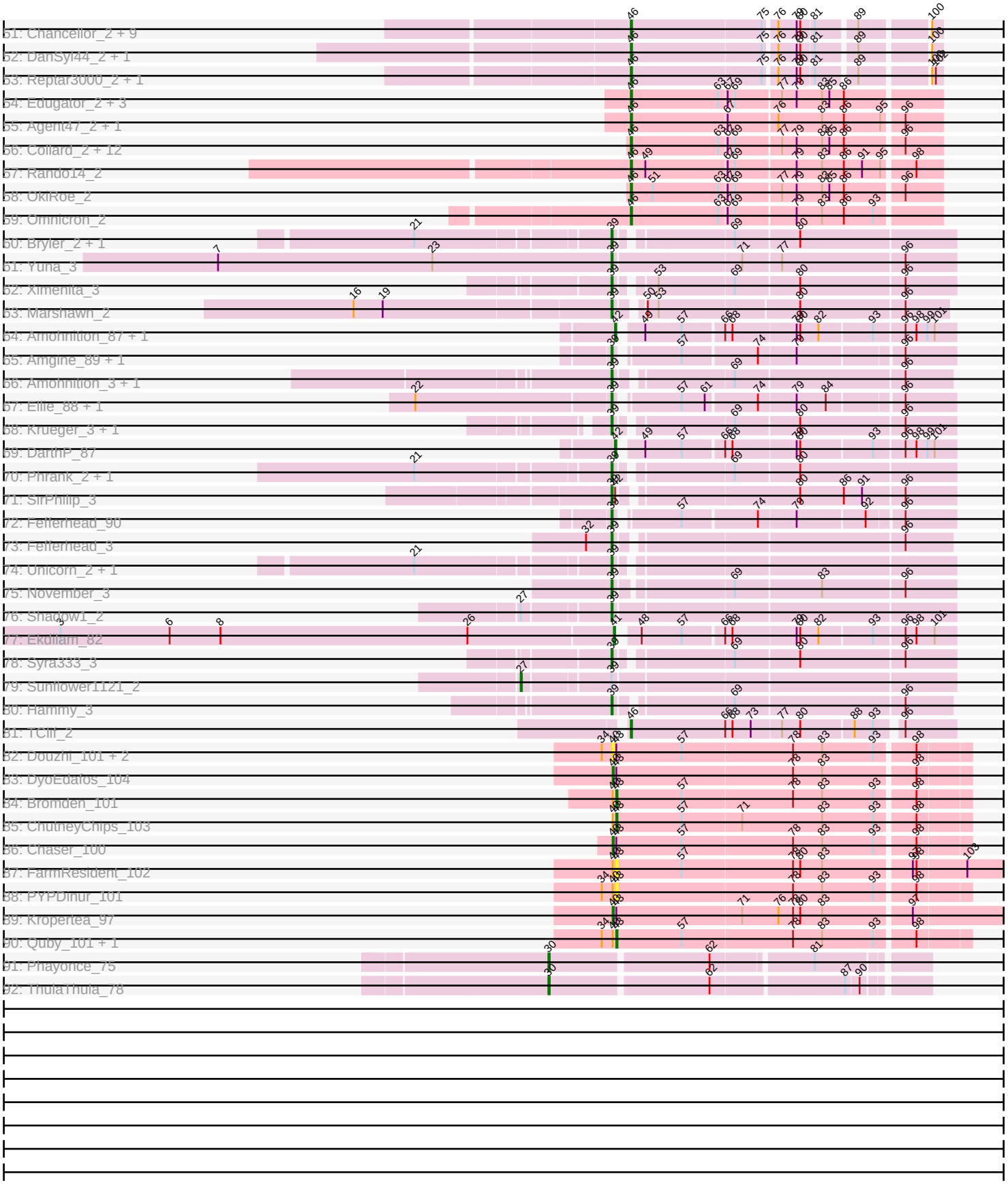
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1: Rabbs_65 + 1
2: Oscar_2
3: Spock_3 + 26
4: Megsy_3 + 9
5: Atiba_3 + 1
6: Mururutumbu_3
7: Ganymede_3 + 4
8: JAWS_3 + 12
9: TrumbaTree_3
10: Pisa4_3 + 1
11: Ageofdapage_3
12: LeMond_2 + 1
13: AlishaPH_3
14: Devera_3 + 2
15: Chavito_3
16: Beezoo_3 + 1
17: Angelica_3 + 2
18: DarkGoblin_3 + 1
19: Urkel_3 + 4
20: Dartin_3 + 4
21: Scarlett_2
22: Curiosium_3
23: Chris_2
24: Pokerus_3
25: Tiri_3
26: CheetoDust_3
27: Validus_4
28: Kheparia_3 + 1
29: ChimD_3
30: Velki_3
31: Guanica15_3 + 1
32: Stinson_3 + 1
33: TingHuaYa_3 + 1
34: Joy99_3
35: Nibb_2
36: Deby_3
37: MarkPhew_2
38: Efra2_3
39: Peanam_3
40: Mynx_3
41: Pharb_89
42: MachCheese_90
43: Pixie_88 + 1
44: SheilockHolmes_91
45: Hurricane_89
46: Lea83_89
47: Keshu_91
48: TribleTrouble_91
49: Eponine_2 + 5
50: Malthus_2 + 4

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51: Chancellor_2 + 9
52: DanSyl44_2 + 1
53: Replar3000_2 + 1
54: Edugator_2 + 3
55: Agent47_2 + 1
56: Collard_2 + 12
57: Rando14_2
58: OkiRoe_2
59: Omnicron_2
60: Bryler_2 + 1
61: Yuna_3
62: Ximenita_3
63: Marshawn_2
64: Amonnition_87 + 1
65: Amgine_89 + 1
66: Amonnition_3 + 1
67: Ellie_88 + 1
68: Krueger_3 + 1
69: DarthP_87
70: Phrank_2 + 1
71: SirPhilip_3
72: Fellerhead_90
73: Fellerhead_3
74: Unicorn_2 + 1
75: November_3
76: Shadow1_2
77: Ekollam_82
78: Syra333_3
79: Sunflower1121_2
80: Hammy_3
81: TCliff_2
82: Douzhi_101 + 2
83: DyoEdafos_104
84: Bromden_101
85: ChutneyChips_103
86: Chaser_100
87: FarmResident_102
88: PYPDinur_101
89: Kropertea_97
90: Quby_101 + 1
91: Phayonce_75
92: ThulaThula_78

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 347258 Report

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

Pham number 347258 has 213 members, 18 are drafts.

Phages represented in each track:
• Track 1 : Rabbs_65, Sneeze_64
• Track 2 : Oscar_2
• Track 3 : Spock_3, Capricorn_3, Belladonna_3, Lokum_3, Durfee_3, Blizzard_3, ShiaSurprise_3, Homura_3, Boiiii_3, BGlluviae_3, Topper_3, Twitch_3, Piatt_3, Dalmuri_3, Lunahalos_3, BEEST_3, Llorens_3, Jarvi_3, Asayake_3, Hyperbowlee_3, Jeckyll_3, Rosmarinus_3, Peel_3, CREW_3, Padfoot_3, Inky_3, CaseJules_3
• Track 4 : Megsy_3, Prithvi_3, LindNT_3, TreyKay_3, MacKat_3, YoureAdopted_3, TaiwanKao_3, Clipper_3, MeaningOfLife_3, BaghaKamala_3
• Track 5 : Atiba_3, Tachez_3
• Track 6 : Murucutumbu_3
• Track 7 : Ganymede_3, Adonis_3, CallaLilly_3, QuincyRose_3, Zavala_3
• Track 8 : JAWS_3, BarrelRoll_3, Anaya_3, Adephagia_3, Zabiza_3, Emerson_3, Padpat_3, ActinUp_3, HedwigODU_3, Slimphazie_3, Jayhawk_3, Rapunzel97_3, Ramen_3
• Track 9 : TruffulaTree_3
• Track 10 : Pisa4_3, Pisa1_3
• Track 11 : Ageofdapage_3
• Track 12 : LeMond_2, KiSi_2
• Track 13 : AlishaPH_3
• Track 14 : Devera_3, Dole_3, Illumine_3
• Track 15 : Chavito_3
• Track 16 : Beezoo_3, Geraldini_3
• Track 17 : Angelica_3, Apocalypse_3, Sulley_3
• Track 18 : DartGoblin_3, Bella96_3
• Track 19 : Urkel_3, DrHayes_3, Anma_3, TiniBug_3, SamuelLPlaqson_3
• Track 20 : Dartin_3, Niklas_3, McMater_3, Shaobing_3, Richo_3
• Track 21 : Scarlett_2
• Track 22 : Curiosium_3
• Track 23 : Chris_2
• Track 24 : Pokerus_3
• Track 25 : Tiri_3
• Track 26 : CheetoDust_3
• Track 27 : Validus_4
• Track 28 : Kheparia_3, Bern_3
• Track 29 : CrimD_3
• Track 30 : Veliki_3
• Track 31 : Guanica15_3, Yunkel11_3

• Track 32 : Stinson_3, LaterM_3
• Track 33 : TingHuaYa_3, LastHope_3
• Track 34 : Joy99_3
• Track 35 : Nibb_2
• Track 36 : Deby_3
• Track 37 : MarkPhew_2
• Track 38 : Efra2_3
• Track 39 : Peanam_3
• Track 40 : Mynx_3
• Track 41 : Pharb_89
• Track 42 : MacnCheese_90
• Track 43 : Pixie_88, TBond007_85
• Track 44 : ShedlockHolmes_91
• Track 45 : Hurricane_89
• Track 46 : Lea83_89
• Track 47 : Keshu_91
• Track 48 : TribleTrouble_91
• Track 49 : Eponine_2, Y10_02, Wintermute_2, Fionnbharth_2, Y2_02, JF1_2
• Track 50 : Malthus_2, Kraw_2, Juliette_2, YasnayaPolyana_2, Ruthiejr_2
• Track 51 : Chancellor_2, Cheetobro_2, Patt_2, Qhanda_2, Nolwazi_2, Taquito_2, OmniCritical_2, Slarp_2, Mitti_2, SamScheppers_2
• Track 52 : DanSyl44_2, Lebo14_2
• Track 53 : Reptar3000_2, Bobquesha_2
• Track 54 : Edugator_2, AlleyCat_2, Psycho_2, Dadosky_2
• Track 55 : Agent47_2, InvictusManeo_2
• Track 56 : Collard_2, Waterfoul_2, Heftyboy_2, Paola_2, Thyatira_2, Gengar_2, SoSeph_2, Guillsminger_2, BananenDer11_2, Feyre_2, Miryou_2, Leston_2, DoubleChamp_2
• Track 57 : Rando14_2
• Track 58 : OkiRoe_2
• Track 59 : Omnicron_2
• Track 60 : Bryler_2, Cain_2
• Track 61 : Yuna_3
• Track 62 : Ximenita_3
• Track 63 : Marshawn_2
• Track 64 : Amohnition_87, Hammy_87
• Track 65 : Amgine_89, Lavahound_88
• Track 66 : Amohnition_3, DarthP_3
• Track 67 : Ellie_88, Applecrisp_87
• Track 68 : Krueger_3, Tigress9_3
• Track 69 : DarthP_87
• Track 70 : Phrank_2, Tierra_2
• Track 71 : SirPhilip_3
• Track 72 : Fefferhead_90
• Track 73 : Fefferhead_3
• Track 74 : Unicorn_2, PhelpsODU_2
• Track 75 : November_3
• Track 76 : Shadow1_2
• Track 77 : Ekdilam_82
• Track 78 : Syra333_3
• Track 79 : Sunflower1121_2
• Track 80 : Hammy_3
• Track 81 : TClif_2

• Track 82 : Douzhi_101, BrainDrainer_102, Sheng711_102
• Track 83 : DyoEdafos_104
• Track 84 : Bromden_101
• Track 85 : ChutneyChips_103
• Track 86 : Chaser_100
• Track 87 : FarmResident_102
• Track 88 : PYPDinur_101
• Track 89 : Kropertea_97
• Track 90 : Quby_101, Douge_101
• Track 91 : Phayonce_75
• Track 92 : ThulaThula_78

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

The start number called the most often in the published annotations is 38, it was called in 90 of the 195 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• ActinUp_3, Adephagia_3, Adonis_3, Ageofdapage_3, AlishaPH_3, Anaya_3, Angelica_3, Anma_3, Apocalypse_3, Asayake_3, Atiba_3, BEEST_3, BGlluviae_3, BaghaKamala_3, BarrelRoll_3, Beezoo_3, Bella96_3, Belladonna_3, Bern_3, Blizzard_3, Boiiii_3, CREW_3, CallaLilly_3, Capricorn_3, CaseJules_3, CheetoDust_3, Clipper_3, CrimD_3, Curiosium_3, Dalmuri_3, DartGoblin_3, Deby_3, Devera_3, Dole_3, DrHayes_3, Durfee_3, Efra2_3, Emerson_3, Ganymede_3, Geraldini_3, Guanica15_3, HedwigODU_3, Homura_3, Hyperbowlee_3, Illumine_3, Inky_3, JAWS_3, Jarvi_3, Jayhawk_3, Jeckyll_3, Joy99_3, Kheparia_3, LastHope_3, LaterM_3, LindNT_3, Llorens_3, Lokum_3, Lunahalos_3, MacKat_3, MeaningOfLife_3, Megsy_3, Murucutumbu_3, Mynx_3, Padfoot_3, Padpat_3, Peel_3, Piatt_3, Pokerus_3, Prithvi_3, QuincyRose_3, Ramen_3, Rapunzel97_3, Rosmarinus_3, SamuelLPlaqson_3, ShiaSurprise_3, Slimphazie_3, Spock_3, Stinson_3, Sulley_3, Tachez_3, TaiwanKao_3, TingHuaYa_3, TiniBug_3, Tiri_3, Topper_3, TreyKay_3, TruffulaTree_3, Twitch_3, Urkel_3, Veliki_3, YoureAdopted_3, Yunkel11_3, Zabiza_3, Zavala_3,

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

Genes that do not have the "Most Annotated" start:
• Agent47_2, AlleyCat_2, Amgine_89, Amohnition_3, Amohnition_87, Applecrisp_87, BananenDer11_2, Bobquesha_2, BrainDrainer_102, Bromden_101, Bryler_2, Cain_2, Chancellor_2, Chaser_100, Chavito_3, Cheetobro_2, Chris_2, ChutneyChips_103, Collard_2, Dadosky_2, DanSyl44_2, DarthP_3, DarthP_87, Dartin_3, DoubleChamp_2, Douge_101, Douzhi_101, DyoEdafos_104, Edugator_2, Ekdilam_82, Ellie_88, Eponine_2, FarmResident_102, Fefferhead_3, Fefferhead_90, Feyre_2, Fionnbharth_2, Gengar_2, Guillsminger_2, Hammy_3, Hammy_87, Heftyboy_2, Hurricane_89, InvictusManeo_2, JF1_2, Juliette_2, Keshu_91, KiSi_2, Kraw_2, Kropertea_97, Krueger_3, Lavahound_88, LeMond_2, Lea83_89, Lebo14_2, Leston_2, MacnCheese_90, Malthus_2, MarkPhew_2, Marshawn_2, McMater_3, Miryou_2, Mitti_2, Nibb_2, Niklas_3, Nolwazi_2, November_3, OkiRoe_2, OmniCritical_2, Omnicron_2, Oscar_2, PYPDinur_101, Paola_2, Patt_2, Peanam_3,

Pharb_89, Phayonce_75, PhelpsODU_2, Phrank_2, Pisa1_3, Pisa4_3, Pixie_88, Psycho_2, Qhanda_2, Quby_101, Rabbs_65, Rando14_2, Reptar3000_2, Richo_3, Ruthiejr_2, SamScheppers_2, Scarlett_2, Shadow1_2, Shaobing_3, ShedlockHolmes_91, Sheng711_102, SirPhilip_3, Slarp_2, Sneeze_64, SoSeph_2, Sunflower1121_2, Syra333_3, TBond007_85, TClif_2, Taquito_2, ThulaThula_78, Thyatira_2, Tierra_2, Tigress9_3, TribleTrouble_91, Unicorn_2, Validus_4, Waterfoul_2, Wintermute_2, Ximenita_3, Y10_02, Y2_02, YasnayaPolyana_2, Yuna_3,

Summary by start number:

Start 27:
• Found in 2 of 213 (0.9%) of genes in pham
• Manual Annotations of this start: 1 of 195
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Sunflower1121_2 (K6),

Start 30:
• Found in 4 of 213 (1.9%) of genes in pham
• Manual Annotations of this start: 4 of 195
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Chris_2 (K1), MarkPhew_2 (K1), Phayonce_75 (P5), ThulaThula_78 (P5),

Start 31:
• Found in 1 of 213 (0.5%) of genes in pham
• Manual Annotations of this start: 1 of 195
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Nibb_2 (K1),

Start 34:
• Found in 8 of 213 (3.8%) of genes in pham
• Manual Annotations of this start: 2 of 195
• Called 25.0% of time when present
• Phage (with cluster) where this start called: Rabbs_65 (G1), Sneeze_64 (G1),

Start 36:
• Found in 2 of 213 (0.9%) of genes in pham
• Manual Annotations of this start: 1 of 195
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Chavito_3 (K1), Validus_4 (K1),

Start 37:
• Found in 4 of 213 (1.9%) of genes in pham
• Manual Annotations of this start: 4 of 195
• Called 100.0% of time when present
• Phage (with cluster) where this start called: KiSi_2 (K1), LeMond_2 (K1), Oscar_2 (K1), Scarlett_2 (K1),

Start 38:
• Found in 94 of 213 (44.1%) of genes in pham
• Manual Annotations of this start: 90 of 195
• Called 100.0% of time when present

• Phage (with cluster) where this start called: ActinUp_3 (K1), Adephagia_3 (K1), Adonis_3 (K1), Ageofdapage_3 (K1), AlishaPH_3 (K1), Anaya_3 (K1), Angelica_3 (K1), Anma_3 (K1), Apocalypse_3 (K1), Asayake_3 (K1), Atiba_3 (K1), BEEST_3 (K1), BGlluviae_3 (K1), BaghaKamala_3 (K1), BarrelRoll_3 (K1), Beezoo_3 (K1), Bella96_3 (K1), Belladonna_3 (K1), Bern_3 (K1), Blizzard_3 (K1), Boiiii_3 (K1), CREW_3 (K1), CallaLilly_3 (K1), Capricorn_3 (K1), CaseJules_3 (K1), CheetoDust_3 (K1), Clipper_3 (K1), CrimD_3 (K1), Curiosium_3 (K1), Dalmuri_3 (K1), DartGoblin_3 (K1), Deby_3 (K1), Devera_3 (K1), Dole_3 (K1), DrHayes_3 (K1), Durfee_3 (K1), Efra2_3 (K1), Emerson_3 (K1), Ganymede_3 (K1), Geraldini_3 (K1), Guanica15_3 (K1), HedwigODU_3 (K1), Homura_3 (K1), Hyperbowlee_3 (K1), Illumine_3 (K1), Inky_3 (K1), JAWS_3 (K1), Jarvi_3 (K1), Jayhawk_3 (K1), Jeckyll_3 (K1), Joy99_3 (K1), Kheparia_3 (K1), LastHope_3 (K1), LaterM_3 (K1), LindNT_3 (K1), Llorens_3 (K1), Lokum_3 (K1), Lunahalos_3 (K1), MacKat_3 (K1), MeaningOfLife_3 (K1), Megsy_3 (K1), Murucutumbu_3 (K1), Mynx_3 (K1), Padfoot_3 (K1), Padpat_3 (K1), Peel_3 (K1), Piatt_3 (K1), Pokerus_3 (K1), Prithvi_3 (K1), QuincyRose_3 (K1), Ramen_3 (K1), Rapunzel97_3 (K1), Rosmarinus_3 (K1), SamuelLPlaqson_3 (K1), ShiaSurprise_3 (K1), Slimphazie_3 (K1), Spock_3 (K1), Stinson_3 (K1), Sulley_3 (K1), Tachez_3 (K1), TaiwanKao_3 (K1), TingHuaYa_3 (K1), TiniBug_3 (K1), Tiri_3 (K1), Topper_3 (K1), TreyKay_3 (K1), TruffulaTree_3 (K1), Twitch_3 (K1), Urkel_3 (K1), Veliki_3 (K1), YoureAdopted_3 (K1), Yunkel11_3 (K1), Zabiza_3 (K1), Zavala_3 (K1),

Start 39:
• Found in 32 of 213 (15.0%) of genes in pham
• Manual Annotations of this start: 31 of 195
• Called 96.9% of time when present
• Phage (with cluster) where this start called: Amgine_89 (K6), Amohnition_3 (K6), Applecrisp_87 (K6), Bryler_2 (K6), Cain_2 (K6), DarthP_3 (K6), Ellie_88 (K6), Fefferhead_3 (K6), Fefferhead_90 (K6), Hammy_3 (K6), Hurricane_89 (K3), Keshu_91 (K3), Krueger_3 (K6), Lavahound_88 (K6), Lea83_89 (K3), MacnCheese_90 (K3), Marshawn_2 (K6), November_3 (K6), PhelpsODU_2 (K6), Phrank_2 (K6), Pixie_88 (K3), Shadow1_2 (K6), ShedlockHolmes_91 (K3), SirPhilip_3 (K6), Syra333_3 (K6), TBond007_85 (K3), Tierra_2 (K6), Tigress9_3 (K6), Unicorn_2 (K6), Ximenita_3 (K6), Yuna_3 (K6),

Start 40:
• Found in 12 of 213 (5.6%) of genes in pham
• Manual Annotations of this start: 3 of 195
• Called 50.0% of time when present
• Phage (with cluster) where this start called: BrainDrainer_102 (L4), Chaser_100 (L4), Douzhi_101 (L4), DyoEdafos_104 (L4), Kropertea_97 (L4), Sheng711_102 (L4),

Start 41:
• Found in 1 of 213 (0.5%) of genes in pham
• Manual Annotations of this start: 1 of 195
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Ekdilam_82 (K6),

Start 42:
• Found in 4 of 213 (1.9%) of genes in pham
• Manual Annotations of this start: 3 of 195
• Called 75.0% of time when present

• Phage (with cluster) where this start called: Amohnition_87 (K6), DarthP_87 (K6), Hammy_87 (K6),

Start 43:
• Found in 12 of 213 (5.6%) of genes in pham
• Manual Annotations of this start: 3 of 195
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Bromden_101 (L4), ChutneyChips_103 (L4), Douge_101 (L4), FarmResident_102 (L4), PYPDinur_101 (L4), Quby_101 (L4),

Start 44:
• Found in 8 of 213 (3.8%) of genes in pham
• Manual Annotations of this start: 6 of 195
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Dartin_3 (K1), McMater_3 (K1), Niklas_3 (K1), Peanam_3 (K1), Pisa1_3 (K1), Pisa4_3 (K1), Richo_3 (K1), Shaobing_3 (K1),

Start 45:
• Found in 2 of 213 (0.9%) of genes in pham
• Manual Annotations of this start: 1 of 195
• Called 50.0% of time when present
• Phage (with cluster) where this start called: TribleTrouble_91 (K3),

Start 46:
• Found in 48 of 213 (22.5%) of genes in pham
• Manual Annotations of this start: 43 of 195
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Agent47_2 (K5), AlleyCat_2 (K5), BananenDer11_2 (K5), Bobquesha_2 (K4), Chancellor_2 (K4), Cheetobro_2 (K4), Collard_2 (K5), Dadosky_2 (K5), DanSyl44_2 (K4), DoubleChamp_2 (K5), Edugator_2 (K5), Eponine_2 (K4), Feyre_2 (K5), Fionnbharth_2 (K4), Gengar_2 (K5), Guillsminger_2 (K5), Heftyboy_2 (K5), InvictusManeo_2 (K5), JF1_2 (K4), Juliette_2 (K4), Kraw_2 (K4), Lebo14_2 (K4), Leston_2 (K5), Malthus_2 (K4), Miryou_2 (K5), Mitti_2 (K4), Nolwazi_2 (K4), OkiRoe_2 (K5), OmniCritical_2 (K4), Omnicron_2 (K5), Paola_2 (K5), Patt_2 (K4), Psycho_2 (K5), Qhanda_2 (K4), Rando14_2 (K5), Reptar3000_2 (K4), Ruthiejr_2 (K4), SamScheppers_2 (K4), Slarp_2 (K4), SoSeph_2 (K5), TClif_2 (K6), Taquito_2 (K4), Thyatira_2 (K5), Waterfoul_2 (K5), Wintermute_2 (K4), Y10_02 (K4), Y2_02 (K4), YasnayaPolyana_2 (K4),

Start 52:
• Found in 2 of 213 (0.9%) of genes in pham
• Manual Annotations of this start: 1 of 195
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Pharb_89 (K3),

Summary by clusters:

There are 8 clusters represented in this pham: G1, P5, K1, K3, L4, K6, K5, K4,

Info for manual annotations of cluster G1:
•Start number 34 was manually annotated 2 times for cluster G1.

Info for manual annotations of cluster K1:

•Start number 30 was manually annotated 2 times for cluster K1.
•Start number 31 was manually annotated 1 time for cluster K1.
•Start number 36 was manually annotated 1 time for cluster K1.
•Start number 37 was manually annotated 4 times for cluster K1.
•Start number 38 was manually annotated 90 times for cluster K1.
•Start number 44 was manually annotated 6 times for cluster K1.

Info for manual annotations of cluster K3:
•Start number 39 was manually annotated 7 times for cluster K3.
•Start number 45 was manually annotated 1 time for cluster K3.
•Start number 52 was manually annotated 1 time for cluster K3.

Info for manual annotations of cluster K4:
•Start number 46 was manually annotated 21 times for cluster K4.

Info for manual annotations of cluster K5:
•Start number 46 was manually annotated 21 times for cluster K5.

Info for manual annotations of cluster K6:
•Start number 27 was manually annotated 1 time for cluster K6.
•Start number 39 was manually annotated 24 times for cluster K6.
•Start number 41 was manually annotated 1 time for cluster K6.
•Start number 42 was manually annotated 3 times for cluster K6.
•Start number 46 was manually annotated 1 time for cluster K6.

Info for manual annotations of cluster L4:
•Start number 40 was manually annotated 3 times for cluster L4.
•Start number 43 was manually annotated 3 times for cluster L4.

Info for manual annotations of cluster P5:
•Start number 30 was manually annotated 2 times for cluster P5.

Gene Information:

Gene: ActinUp_3 Start: 476, Stop: 730, Start Num: 38
Candidate Starts for ActinUp_3:
(24, 350), (Start: 38 @476 has 90 MA's), (49, 497), (60, 545), (67, 563), (69, 569), (79, 617), (82, 635), (83, 638), (86, 656), (89, 668), (93, 680), (96, 701),

Gene: Adephagia_3 Start: 476, Stop: 730, Start Num: 38
Candidate Starts for Adephagia_3:
(24, 350), (Start: 38 @476 has 90 MA's), (49, 497), (60, 545), (67, 563), (69, 569), (79, 617), (82, 635), (83, 638), (86, 656), (89, 668), (93, 680), (96, 701),

Gene: Adonis_3 Start: 452, Stop: 706, Start Num: 38
Candidate Starts for Adonis_3:
(14, 227), (24, 326), (Start: 38 @452 has 90 MA's), (49, 473), (60, 521), (67, 539), (69, 545), (79, 593), (82, 611), (83, 614), (86, 632), (89, 644), (93, 656), (96, 677),

Gene: Agent47_2 Start: 300, Stop: 545, Start Num: 46
Candidate Starts for Agent47_2:

(Start: 46 @300 has 43 MA's), (67, 378), (76, 417), (83, 453), (86, 471), (95, 501), (96, 516),

Gene: Ageofdapage_3 Start: 435, Stop: 689, Start Num: 38
Candidate Starts for Ageofdapage_3:
(10, 174), (11, 180), (24, 309), (Start: 38 @435 has 90 MA's), (49, 456), (58, 495), (67, 522), (69, 528), (79, 576), (83, 597), (86, 615), (95, 645), (96, 660),

Gene: AlishaPH_3 Start: 475, Stop: 729, Start Num: 38
Candidate Starts for AlishaPH_3:
(24, 349), (Start: 38 @475 has 90 MA's), (49, 496), (60, 544), (67, 562), (69, 568), (79, 616), (82, 634), (83, 637), (86, 655), (89, 667), (93, 679),

Gene: AlleyCat_2 Start: 300, Stop: 545, Start Num: 46
Candidate Starts for AlleyCat_2:
(Start: 46 @300 has 43 MA's), (63, 372), (67, 378), (69, 384), (77, 420), (79, 432), (83, 453), (85, 459), (86, 471),

Gene: Amgine_89 Start: 58064, Stop: 58318, Start Num: 39
Candidate Starts for Amgine_89:
(Start: 39 @58064 has 31 MA's), (57, 58109), (74, 58166), (79, 58196), (96, 58277),

Gene: Amohnition_87 Start: 57065, Stop: 57322, Start Num: 42
Candidate Starts for Amohnition_87:
(Start: 42 @57065 has 3 MA's), (49, 57080), (57, 57110), (66, 57140), (68, 57146), (79, 57197), (80, 57200), (82, 57215), (93, 57257), (96, 57281), (98, 57290), (99, 57299), (101, 57305),

Gene: Amohnition_3 Start: 416, Stop: 673, Start Num: 39
Candidate Starts for Amohnition_3:
(Start: 39 @416 has 31 MA's), (69, 500), (96, 635),

Gene: Anaya_3 Start: 476, Stop: 730, Start Num: 38
Candidate Starts for Anaya_3:
(24, 350), (Start: 38 @476 has 90 MA's), (49, 497), (60, 545), (67, 563), (69, 569), (79, 617), (82, 635), (83, 638), (86, 656), (89, 668), (93, 680), (96, 701),

Gene: Angelica_3 Start: 476, Stop: 730, Start Num: 38
Candidate Starts for Angelica_3:
(17, 278), (24, 350), (Start: 38 @476 has 90 MA's), (49, 497), (60, 545), (67, 563), (69, 569), (79, 617), (82, 635), (83, 638), (86, 656), (89, 668), (93, 680), (96, 701),

Gene: Anma_3 Start: 440, Stop: 694, Start Num: 38
Candidate Starts for Anma_3:
(14, 215), (24, 314), (Start: 38 @440 has 90 MA's), (49, 461), (58, 500), (67, 527), (69, 533), (79, 581), (82, 599), (86, 620), (89, 632), (96, 665),

Gene: Apocalypse_3 Start: 476, Stop: 730, Start Num: 38
Candidate Starts for Apocalypse_3:
(17, 278), (24, 350), (Start: 38 @476 has 90 MA's), (49, 497), (60, 545), (67, 563), (69, 569), (79, 617), (82, 635), (83, 638), (86, 656), (89, 668), (93, 680), (96, 701),

Gene: Applecrisp_87 Start: 57244, Stop: 57498, Start Num: 39
Candidate Starts for Applecrisp_87:

(22, 57088), (Start: 39 @57244 has 31 MA's), (57, 57289), (61, 57307), (74, 57346), (79, 57376), (84, 57400), (96, 57457),

Gene: Asayake_3 Start: 476, Stop: 730, Start Num: 38
Candidate Starts for Asayake_3:
(24, 350), (Start: 38 @476 has 90 MA's), (49, 497), (58, 536), (60, 545), (67, 563), (69, 569), (79, 617), (83, 638), (86, 656), (93, 680), (96, 701),

Gene: Atiba_3 Start: 452, Stop: 706, Start Num: 38
Candidate Starts for Atiba_3:
(14, 227), (24, 326), (Start: 38 @452 has 90 MA's), (49, 473), (60, 521), (67, 539), (69, 545), (76, 578), (79, 593), (82, 611), (83, 614), (86, 632), (89, 644), (93, 656), (96, 677),

Gene: BEEST_3 Start: 476, Stop: 730, Start Num: 38
Candidate Starts for BEEST_3:
(24, 350), (Start: 38 @476 has 90 MA's), (49, 497), (58, 536), (60, 545), (67, 563), (69, 569), (79, 617), (83, 638), (86, 656), (93, 680), (96, 701),

Gene: BGlluviae_3 Start: 476, Stop: 730, Start Num: 38
Candidate Starts for BGlluviae_3:
(24, 350), (Start: 38 @476 has 90 MA's), (49, 497), (58, 536), (60, 545), (67, 563), (69, 569), (79, 617), (83, 638), (86, 656), (93, 680), (96, 701),

Gene: BaghaKamala_3 Start: 452, Stop: 706, Start Num: 38
Candidate Starts for BaghaKamala_3:
(14, 227), (24, 326), (Start: 38 @452 has 90 MA's), (49, 473), (60, 521), (67, 539), (69, 545), (79, 593), (82, 611), (83, 614), (86, 632), (93, 656), (96, 677),

Gene: BananenDer11_2 Start: 274, Stop: 519, Start Num: 46
Candidate Starts for BananenDer11_2:
(Start: 46 @274 has 43 MA's), (63, 346), (67, 352), (69, 358), (77, 394), (79, 406), (83, 427), (85, 433), (86, 445), (96, 490),

Gene: BarrelRoll_3 Start: 476, Stop: 730, Start Num: 38
Candidate Starts for BarrelRoll_3:
(24, 350), (Start: 38 @476 has 90 MA's), (49, 497), (60, 545), (67, 563), (69, 569), (79, 617), (82, 635), (83, 638), (86, 656), (89, 668), (93, 680), (96, 701),

Gene: Beezoo_3 Start: 473, Stop: 727, Start Num: 38
Candidate Starts for Beezoo_3:
(15, 275), (24, 347), (Start: 38 @473 has 90 MA's), (49, 494), (60, 542), (67, 560), (69, 566), (79, 614), (82, 632), (83, 635), (86, 653), (93, 677), (96, 698),

Gene: Bella96_3 Start: 440, Stop: 694, Start Num: 38
Candidate Starts for Bella96_3:
(Start: 38 @440 has 90 MA's), (49, 461), (58, 500), (67, 527), (69, 533), (79, 581), (82, 599), (83, 602), (86, 620), (89, 632), (96, 665),

Gene: Belladonna_3 Start: 476, Stop: 730, Start Num: 38
Candidate Starts for Belladonna_3:
(24, 350), (Start: 38 @476 has 90 MA's), (49, 497), (58, 536), (60, 545), (67, 563), (69, 569), (79, 617), (83, 638), (86, 656), (93, 680), (96, 701),

Gene: Bern_3 Start: 436, Stop: 690, Start Num: 38
Candidate Starts for Bern_3:
(14, 214), (18, 244), (24, 310), (Start: 38 @436 has 90 MA's), (49, 457), (67, 523), (69, 529), (79, 577), (82, 595), (83, 598), (86, 616), (89, 628), (96, 661),

Gene: Blizzard_3 Start: 476, Stop: 730, Start Num: 38
Candidate Starts for Blizzard_3:
(24, 350), (Start: 38 @476 has 90 MA's), (49, 497), (58, 536), (60, 545), (67, 563), (69, 569), (79, 617), (83, 638), (86, 656), (93, 680), (96, 701),

Gene: Bobquesha_2 Start: 251, Stop: 481, Start Num: 46
Candidate Starts for Bobquesha_2:
(Start: 46 @251 has 43 MA's), (75, 356), (76, 365), (79, 380), (80, 383), (81, 392), (89, 422), (100, 473), (102, 476),

Gene: Boiiii_3 Start: 476, Stop: 730, Start Num: 38
Candidate Starts for Boiiii_3:
(24, 350), (Start: 38 @476 has 90 MA's), (49, 497), (58, 536), (60, 545), (67, 563), (69, 569), (79, 617), (83, 638), (86, 656), (93, 680), (96, 701),

Gene: BrainDrainer_102 Start: 61701, Stop: 61985, Start Num: 40
Candidate Starts for BrainDrainer_102:
(Start: 34 @61692 has 2 MA's), (Start: 40 @61701 has 3 MA's), (Start: 43 @61704 has 3 MA's), (57, 61758), (78, 61848), (83, 61872), (93, 61914), (98, 61944),

Gene: Bromden_101 Start: 62440, Stop: 62721, Start Num: 43
Candidate Starts for Bromden_101:
(Start: 40 @62437 has 3 MA's), (Start: 43 @62440 has 3 MA's), (57, 62494), (78, 62584), (83, 62608), (93, 62650), (98, 62680),

Gene: Bryler_2 Start: 388, Stop: 648, Start Num: 39
Candidate Starts for Bryler_2:
(21, 241), (Start: 39 @388 has 31 MA's), (69, 472), (80, 523),

Gene: CREW_3 Start: 476, Stop: 730, Start Num: 38
Candidate Starts for CREW_3:
(24, 350), (Start: 38 @476 has 90 MA's), (49, 497), (58, 536), (60, 545), (67, 563), (69, 569), (79, 617), (83, 638), (86, 656), (93, 680), (96, 701),

Gene: Cain_2 Start: 388, Stop: 648, Start Num: 39
Candidate Starts for Cain_2:
(21, 241), (Start: 39 @388 has 31 MA's), (69, 472), (80, 523),

Gene: CallaLilly_3 Start: 452, Stop: 706, Start Num: 38
Candidate Starts for CallaLilly_3:
(14, 227), (24, 326), (Start: 38 @452 has 90 MA's), (49, 473), (60, 521), (67, 539), (69, 545), (79, 593), (82, 611), (83, 614), (86, 632), (89, 644), (93, 656), (96, 677),

Gene: Capricorn_3 Start: 476, Stop: 730, Start Num: 38
Candidate Starts for Capricorn_3:
(24, 350), (Start: 38 @476 has 90 MA's), (49, 497), (58, 536), (60, 545), (67, 563), (69, 569), (79, 617), (83, 638), (86, 656), (93, 680), (96, 701),

Gene: CaseJules_3 Start: 476, Stop: 730, Start Num: 38
Candidate Starts for CaseJules_3:
(24, 350), (Start: 38 @476 has 90 MA's), (49, 497), (58, 536), (60, 545), (67, 563), (69, 569), (79, 617), (83, 638), (86, 656), (93, 680), (96, 701),

Gene: Chancellor_2 Start: 251, Stop: 481, Start Num: 46
Candidate Starts for Chancellor_2:
(Start: 46 @251 has 43 MA's), (75, 356), (76, 365), (79, 380), (80, 383), (81, 392), (89, 422), (100, 473),

Gene: Chaser_100 Start: 61053, Stop: 61337, Start Num: 40
Candidate Starts for Chaser_100:
(Start: 40 @61053 has 3 MA's), (Start: 43 @61056 has 3 MA's), (57, 61110), (78, 61200), (83, 61224), (93, 61266), (98, 61296),

Gene: Chavito_3 Start: 474, Stop: 734, Start Num: 36
Candidate Starts for Chavito_3:
(35, 471), (Start: 36 @474 has 1 MA's), (69, 558), (80, 609),

Gene: CheetoDust_3 Start: 452, Stop: 706, Start Num: 38
Candidate Starts for CheetoDust_3:
(Start: 38 @452 has 90 MA's), (49, 473), (60, 521), (67, 539), (69, 545), (79, 593), (82, 611), (83, 614), (86, 632), (89, 644), (93, 656), (96, 677),

Gene: Cheetobro_2 Start: 251, Stop: 481, Start Num: 46
Candidate Starts for Cheetobro_2:
(Start: 46 @251 has 43 MA's), (75, 356), (76, 365), (79, 380), (80, 383), (81, 392), (89, 422), (100, 473),

Gene: Chris_2 Start: 375, Stop: 665, Start Num: 30
Candidate Starts for Chris_2:
(28, 369), (Start: 30 @375 has 4 MA's), (33, 411), (69, 507), (91, 609), (93, 618), (94, 621),

Gene: ChutneyChips_103 Start: 61752, Stop: 62033, Start Num: 43
Candidate Starts for ChutneyChips_103:
(Start: 40 @61749 has 3 MA's), (Start: 43 @61752 has 3 MA's), (57, 61806), (71, 61854), (83, 61920), (93, 61962), (98, 61992),

Gene: Clipper_3 Start: 452, Stop: 706, Start Num: 38
Candidate Starts for Clipper_3:
(14, 227), (24, 326), (Start: 38 @452 has 90 MA's), (49, 473), (60, 521), (67, 539), (69, 545), (79, 593), (82, 611), (83, 614), (86, 632), (93, 656), (96, 677),

Gene: Collard_2 Start: 274, Stop: 519, Start Num: 46
Candidate Starts for Collard_2:
(Start: 46 @274 has 43 MA's), (63, 346), (67, 352), (69, 358), (77, 394), (79, 406), (83, 427), (85, 433), (86, 445), (96, 490),

Gene: CrimD_3 Start: 452, Stop: 706, Start Num: 38
Candidate Starts for CrimD_3:
(14, 227), (24, 326), (Start: 38 @452 has 90 MA's), (49, 473), (67, 539), (69, 545), (79, 593), (82, 611), (83, 614), (86, 632), (93, 656), (96, 677),

Gene: Curiosium_3 Start: 517, Stop: 777, Start Num: 38
Candidate Starts for Curiosium_3:
(24, 391), (Start: 38 @517 has 90 MA's), (49, 544), (58, 583), (60, 592), (63, 604), (67, 610), (69, 616), (79, 664), (82, 682), (83, 685), (86, 703), (96, 748),

Gene: Dadosky_2 Start: 300, Stop: 545, Start Num: 46
Candidate Starts for Dadosky_2:
(Start: 46 @300 has 43 MA's), (63, 372), (67, 378), (69, 384), (77, 420), (79, 432), (83, 453), (85, 459), (86, 471),

Gene: Dalmuri_3 Start: 476, Stop: 730, Start Num: 38
Candidate Starts for Dalmuri_3:
(24, 350), (Start: 38 @476 has 90 MA's), (49, 497), (58, 536), (60, 545), (67, 563), (69, 569), (79, 617), (83, 638), (86, 656), (93, 680), (96, 701),

Gene: DanSyl44_2 Start: 251, Stop: 481, Start Num: 46
Candidate Starts for DanSyl44_2:
(Start: 46 @251 has 43 MA's), (75, 356), (76, 365), (79, 380), (80, 383), (81, 392), (89, 422), (100, 473),

Gene: DartGoblin_3 Start: 440, Stop: 694, Start Num: 38
Candidate Starts for DartGoblin_3:
(Start: 38 @440 has 90 MA's), (49, 461), (58, 500), (67, 527), (69, 533), (79, 581), (82, 599), (83, 602), (86, 620), (89, 632), (96, 665),

Gene: DarthP_87 Start: 56918, Stop: 57175, Start Num: 42
Candidate Starts for DarthP_87:
(Start: 42 @56918 has 3 MA's), (49, 56933), (57, 56963), (66, 56993), (68, 56999), (79, 57050), (80, 57053), (93, 57110), (96, 57134), (98, 57143), (99, 57152), (101, 57158),

Gene: DarthP_3 Start: 416, Stop: 673, Start Num: 39
Candidate Starts for DarthP_3:
(Start: 39 @416 has 31 MA's), (69, 500), (96, 635),

Gene: Dartin_3 Start: 469, Stop: 732, Start Num: 44
Candidate Starts for Dartin_3:
(1, 1), (2, 7), (4, 91), (9, 154), (24, 331), (Start: 44 @469 has 6 MA's), (69, 556), (80, 607), (96, 691),

Gene: Deby_3 Start: 476, Stop: 730, Start Num: 38
Candidate Starts for Deby_3:
(24, 350), (Start: 38 @476 has 90 MA's), (49, 497), (60, 545), (67, 563), (69, 569), (79, 617), (82, 635), (83, 638), (86, 656), (89, 668), (93, 680), (96, 701),

Gene: Devera_3 Start: 452, Stop: 706, Start Num: 38
Candidate Starts for Devera_3:
(14, 227), (24, 326), (Start: 38 @452 has 90 MA's), (49, 473), (58, 512), (67, 539), (69, 545), (79, 593), (83, 614), (86, 632), (96, 677),

Gene: Dole_3 Start: 452, Stop: 706, Start Num: 38
Candidate Starts for Dole_3:
(14, 227), (24, 326), (Start: 38 @452 has 90 MA's), (49, 473), (58, 512), (67, 539), (69, 545), (79, 593), (83, 614), (86, 632), (96, 677),

Gene: DoubleChamp_2 Start: 274, Stop: 519, Start Num: 46
Candidate Starts for DoubleChamp_2:
(Start: 46 @274 has 43 MA's), (63, 346), (67, 352), (69, 358), (77, 394), (79, 406), (83, 427), (85, 433), (86, 445), (96, 490),

Gene: Douge_101 Start: 61124, Stop: 61405, Start Num: 43
Candidate Starts for Douge_101:
(Start: 34 @61112 has 2 MA's), (Start: 40 @61121 has 3 MA's), (Start: 43 @61124 has 3 MA's), (57, 61178), (78, 61268), (83, 61292), (93, 61334), (98, 61364),

Gene: Douzhi_101 Start: 61390, Stop: 61674, Start Num: 40
Candidate Starts for Douzhi_101:
(Start: 34 @61381 has 2 MA's), (Start: 40 @61390 has 3 MA's), (Start: 43 @61393 has 3 MA's), (57, 61447), (78, 61537), (83, 61561), (93, 61603), (98, 61633),

Gene: DrHayes_3 Start: 440, Stop: 694, Start Num: 38
Candidate Starts for DrHayes_3:
(14, 215), (24, 314), (Start: 38 @440 has 90 MA's), (49, 461), (58, 500), (67, 527), (69, 533), (79, 581), (82, 599), (86, 620), (89, 632), (96, 665),

Gene: Durfee_3 Start: 476, Stop: 730, Start Num: 38
Candidate Starts for Durfee_3:
(24, 350), (Start: 38 @476 has 90 MA's), (49, 497), (58, 536), (60, 545), (67, 563), (69, 569), (79, 617), (83, 638), (86, 656), (93, 680), (96, 701),

Gene: DyoEdafos_104 Start: 61681, Stop: 61965, Start Num: 40
Candidate Starts for DyoEdafos_104:
(Start: 40 @61681 has 3 MA's), (Start: 43 @61684 has 3 MA's), (78, 61828), (83, 61852), (98, 61924),

Gene: Edugator_2 Start: 300, Stop: 545, Start Num: 46
Candidate Starts for Edugator_2:
(Start: 46 @300 has 43 MA's), (63, 372), (67, 378), (69, 384), (77, 420), (79, 432), (83, 453), (85, 459), (86, 471),

Gene: Efra2_3 Start: 445, Stop: 699, Start Num: 38
Candidate Starts for Efra2_3:
(Start: 38 @445 has 90 MA's), (49, 466), (58, 505), (67, 532), (69, 538), (79, 586), (82, 604), (83, 607), (86, 625), (96, 670), (98, 679),

Gene: Ekdilam_82 Start: 56617, Stop: 56874, Start Num: 41
Candidate Starts for Ekdilam_82:
(3, 56164), (6, 56254), (8, 56296), (26, 56500), (Start: 41 @56617 has 1 MA's), (48, 56629), (57, 56662), (66, 56692), (68, 56698), (79, 56749), (80, 56752), (82, 56767), (93, 56809), (96, 56833), (98, 56842), (101, 56857),

Gene: Ellie_88 Start: 57234, Stop: 57488, Start Num: 39
Candidate Starts for Ellie_88:
(22, 57078), (Start: 39 @57234 has 31 MA's), (57, 57279), (61, 57297), (74, 57336), (79, 57366), (84, 57390), (96, 57447),

Gene: Emerson_3 Start: 476, Stop: 730, Start Num: 38
Candidate Starts for Emerson_3:

(24, 350), (Start: 38 @476 has 90 MA's), (49, 497), (60, 545), (67, 563), (69, 569), (79, 617), (82, 635), (83, 638), (86, 656), (89, 668), (93, 680), (96, 701),

Gene: Eponine_2 Start: 251, Stop: 481, Start Num: 46
Candidate Starts for Eponine_2:
(Start: 46 @251 has 43 MA's), (48, 260), (75, 356), (79, 380), (80, 383), (81, 392), (89, 422), (100, 473),

Gene: FarmResident_102 Start: 61280, Stop: 61591, Start Num: 43
Candidate Starts for FarmResident_102:
(Start: 40 @61277 has 3 MA's), (Start: 43 @61280 has 3 MA's), (57, 61334), (78, 61424), (80, 61430), (83, 61448), (97, 61517), (98, 61520), (103, 61559),

Gene: Fefferhead_90 Start: 57025, Stop: 57279, Start Num: 39
Candidate Starts for Fefferhead_90:
(Start: 39 @57025 has 31 MA's), (57, 57070), (74, 57127), (79, 57157), (92, 57211), (96, 57238),

Gene: Fefferhead_3 Start: 410, Stop: 667, Start Num: 39
Candidate Starts for Fefferhead_3:
(32, 389), (Start: 39 @410 has 31 MA's), (96, 629),

Gene: Feyre_2 Start: 275, Stop: 520, Start Num: 46
Candidate Starts for Feyre_2:
(Start: 46 @275 has 43 MA's), (63, 347), (67, 353), (69, 359), (77, 395), (79, 407), (83, 428), (85, 434), (86, 446), (96, 491),

Gene: Fionnbharth_2 Start: 251, Stop: 481, Start Num: 46
Candidate Starts for Fionnbharth_2:
(Start: 46 @251 has 43 MA's), (48, 260), (75, 356), (79, 380), (80, 383), (81, 392), (89, 422), (100, 473),

Gene: Ganymede_3 Start: 452, Stop: 706, Start Num: 38
Candidate Starts for Ganymede_3:
(14, 227), (24, 326), (Start: 38 @452 has 90 MA's), (49, 473), (60, 521), (67, 539), (69, 545), (79, 593), (82, 611), (83, 614), (86, 632), (89, 644), (93, 656), (96, 677),

Gene: Gengar_2 Start: 300, Stop: 545, Start Num: 46
Candidate Starts for Gengar_2:
(Start: 46 @300 has 43 MA's), (63, 372), (67, 378), (69, 384), (77, 420), (79, 432), (83, 453), (85, 459), (86, 471), (96, 516),

Gene: Geraldini_3 Start: 473, Stop: 727, Start Num: 38
Candidate Starts for Geraldini_3:
(15, 275), (24, 347), (Start: 38 @473 has 90 MA's), (49, 494), (60, 542), (67, 560), (69, 566), (79, 614), (82, 632), (83, 635), (86, 653), (93, 677), (96, 698),

Gene: Guanica15_3 Start: 445, Stop: 702, Start Num: 38
Candidate Starts for Guanica15_3:
(24, 325), (Start: 38 @445 has 90 MA's), (49, 466), (58, 505), (67, 532), (69, 538), (76, 571), (79, 586), (82, 604), (83, 607), (86, 625), (96, 673),

Gene: Guillsminger_2 Start: 275, Stop: 520, Start Num: 46
Candidate Starts for Guillsminger_2:

(Start: 46 @275 has 43 MA's), (63, 347), (67, 353), (69, 359), (77, 395), (79, 407), (83, 428), (85, 434), (86, 446), (96, 491),

Gene: Hammy_87 Start: 56908, Stop: 57165, Start Num: 42
Candidate Starts for Hammy_87:
(Start: 42 @56908 has 3 MA's), (49, 56923), (57, 56953), (66, 56983), (68, 56989), (79, 57040), (80, 57043), (82, 57058), (93, 57100), (96, 57124), (98, 57133), (99, 57142), (101, 57148),

Gene: Hammy_3 Start: 413, Stop: 670, Start Num: 39
Candidate Starts for Hammy_3:
(Start: 39 @413 has 31 MA's), (69, 497), (96, 632),

Gene: HedwigODU_3 Start: 476, Stop: 730, Start Num: 38
Candidate Starts for HedwigODU_3:
(24, 350), (Start: 38 @476 has 90 MA's), (49, 497), (60, 545), (67, 563), (69, 569), (79, 617), (82, 635), (83, 638), (86, 656), (89, 668), (93, 680), (96, 701),

Gene: Heftyboy_2 Start: 296, Stop: 541, Start Num: 46
Candidate Starts for Heftyboy_2:
(Start: 46 @296 has 43 MA's), (63, 368), (67, 374), (69, 380), (77, 416), (79, 428), (83, 449), (85, 455), (86, 467), (96, 512),

Gene: Homura_3 Start: 476, Stop: 730, Start Num: 38
Candidate Starts for Homura_3:
(24, 350), (Start: 38 @476 has 90 MA's), (49, 497), (58, 536), (60, 545), (67, 563), (69, 569), (79, 617), (83, 638), (86, 656), (93, 680), (96, 701),

Gene: Hurricane_89 Start: 56085, Stop: 56348, Start Num: 39
Candidate Starts for Hurricane_89:
(Start: 39 @56085 has 31 MA's), (54, 56115), (61, 56151), (63, 56157), (73, 56184), (77, 56208), (79, 56220), (84, 56244), (86, 56256), (93, 56280), (94, 56283), (96, 56307), (99, 56325),

Gene: Hyperbowlee_3 Start: 476, Stop: 730, Start Num: 38
Candidate Starts for Hyperbowlee_3:
(24, 350), (Start: 38 @476 has 90 MA's), (49, 497), (58, 536), (60, 545), (67, 563), (69, 569), (79, 617), (83, 638), (86, 656), (93, 680), (96, 701),

Gene: Illumine_3 Start: 452, Stop: 706, Start Num: 38
Candidate Starts for Illumine_3:
(14, 227), (24, 326), (Start: 38 @452 has 90 MA's), (49, 473), (58, 512), (67, 539), (69, 545), (79, 593), (83, 614), (86, 632), (96, 677),

Gene: Inky_3 Start: 476, Stop: 730, Start Num: 38
Candidate Starts for Inky_3:
(24, 350), (Start: 38 @476 has 90 MA's), (49, 497), (58, 536), (60, 545), (67, 563), (69, 569), (79, 617), (83, 638), (86, 656), (93, 680), (96, 701),

Gene: InvictusManeo_2 Start: 300, Stop: 545, Start Num: 46
Candidate Starts for InvictusManeo_2:
(Start: 46 @300 has 43 MA's), (67, 378), (76, 417), (83, 453), (86, 471), (95, 501), (96, 516),

Gene: JAWS_3 Start: 476, Stop: 730, Start Num: 38
Candidate Starts for JAWS_3:

(24, 350), (Start: 38 @476 has 90 MA's), (49, 497), (60, 545), (67, 563), (69, 569), (79, 617), (82, 635), (83, 638), (86, 656), (89, 668), (93, 680), (96, 701),

Gene: JF1_2 Start: 251, Stop: 481, Start Num: 46
Candidate Starts for JF1_2:
(Start: 46 @251 has 43 MA's), (48, 260), (75, 356), (79, 380), (80, 383), (81, 392), (89, 422), (100, 473),

Gene: Jarvi_3 Start: 476, Stop: 730, Start Num: 38
Candidate Starts for Jarvi_3:
(24, 350), (Start: 38 @476 has 90 MA's), (49, 497), (58, 536), (60, 545), (67, 563), (69, 569), (79, 617), (83, 638), (86, 656), (93, 680), (96, 701),

Gene: Jayhawk_3 Start: 476, Stop: 730, Start Num: 38
Candidate Starts for Jayhawk_3:
(24, 350), (Start: 38 @476 has 90 MA's), (49, 497), (60, 545), (67, 563), (69, 569), (79, 617), (82, 635), (83, 638), (86, 656), (89, 668), (93, 680), (96, 701),

Gene: Jeckyll_3 Start: 476, Stop: 730, Start Num: 38
Candidate Starts for Jeckyll_3:
(24, 350), (Start: 38 @476 has 90 MA's), (49, 497), (58, 536), (60, 545), (67, 563), (69, 569), (79, 617), (83, 638), (86, 656), (93, 680), (96, 701),

Gene: Joy99_3 Start: 452, Stop: 706, Start Num: 38
Candidate Starts for Joy99_3:
(14, 227), (24, 326), (Start: 38 @452 has 90 MA's), (49, 473), (60, 521), (67, 539), (69, 545), (79, 593), (82, 611), (83, 614), (86, 632), (96, 677),

Gene: Juliette_2 Start: 251, Stop: 481, Start Num: 46
Candidate Starts for Juliette_2:
(Start: 46 @251 has 43 MA's), (48, 260), (75, 356), (79, 380), (80, 383), (81, 392), (89, 422), (100, 473),

Gene: Keshu_91 Start: 56377, Stop: 56640, Start Num: 39
Candidate Starts for Keshu_91:
(Start: 39 @56377 has 31 MA's), (59, 56434), (65, 56455), (68, 56461), (74, 56482), (77, 56500), (84, 56536), (96, 56599), (99, 56617),

Gene: Kheparia_3 Start: 436, Stop: 690, Start Num: 38
Candidate Starts for Kheparia_3:
(14, 214), (18, 244), (24, 310), (Start: 38 @436 has 90 MA's), (49, 457), (67, 523), (69, 529), (79, 577), (82, 595), (83, 598), (86, 616), (89, 628), (96, 661),

Gene: KiSi_2 Start: 346, Stop: 612, Start Num: 37
Candidate Starts for KiSi_2:
(5, 1), (19, 187), (Start: 37 @346 has 4 MA's), (80, 487), (86, 523), (91, 538),

Gene: Kraw_2 Start: 251, Stop: 481, Start Num: 46
Candidate Starts for Kraw_2:
(Start: 46 @251 has 43 MA's), (48, 260), (75, 356), (79, 380), (80, 383), (81, 392), (89, 422), (100, 473),

Gene: Kropertea_97 Start: 60883, Stop: 61203, Start Num: 40

Candidate Starts for Kropertea_97:
(Start: 40 @60883 has 3 MA's), (Start: 43 @60886 has 3 MA's), (71, 60988), (76, 61018), (78, 61030), (80, 61036), (83, 61054), (97, 61123),

Gene: Krueger_3 Start: 500, Stop: 760, Start Num: 39
Candidate Starts for Krueger_3:
(Start: 39 @500 has 31 MA's), (69, 584), (80, 635), (96, 719),

Gene: LastHope_3 Start: 447, Stop: 701, Start Num: 38
Candidate Starts for LastHope_3:
(14, 225), (24, 321), (Start: 38 @447 has 90 MA's), (49, 468), (63, 528), (67, 534), (69, 540), (79, 588), (82, 606), (83, 609), (86, 627),

Gene: LaterM_3 Start: 452, Stop: 706, Start Num: 38
Candidate Starts for LaterM_3:
(12, 197), (14, 227), (24, 326), (Start: 38 @452 has 90 MA's), (49, 473), (58, 512), (67, 539), (79, 593), (83, 614), (86, 632), (95, 662), (96, 677),

Gene: Lavahound_88 Start: 58194, Stop: 58448, Start Num: 39
Candidate Starts for Lavahound_88:
(Start: 39 @58194 has 31 MA's), (57, 58239), (74, 58296), (79, 58326), (96, 58407),

Gene: LeMond_2 Start: 346, Stop: 612, Start Num: 37
Candidate Starts for LeMond_2:
(5, 1), (19, 187), (Start: 37 @346 has 4 MA's), (80, 487), (86, 523), (91, 538),

Gene: Lea83_89 Start: 56206, Stop: 56469, Start Num: 39
Candidate Starts for Lea83_89:
(Start: 39 @56206 has 31 MA's), (48, 56221), (54, 56236), (61, 56272), (63, 56278), (73, 56305), (77, 56329), (78, 56338), (79, 56341), (84, 56365), (86, 56377), (93, 56401), (96, 56428), (99, 56446),

Gene: Lebo14_2 Start: 251, Stop: 481, Start Num: 46
Candidate Starts for Lebo14_2:
(Start: 46 @251 has 43 MA's), (75, 356), (76, 365), (79, 380), (80, 383), (81, 392), (89, 422), (100, 473),

Gene: Leston_2 Start: 300, Stop: 545, Start Num: 46
Candidate Starts for Leston_2:
(Start: 46 @300 has 43 MA's), (63, 372), (67, 378), (69, 384), (77, 420), (79, 432), (83, 453), (85, 459), (86, 471), (96, 516),

Gene: LindNT_3 Start: 452, Stop: 706, Start Num: 38
Candidate Starts for LindNT_3:
(14, 227), (24, 326), (Start: 38 @452 has 90 MA's), (49, 473), (60, 521), (67, 539), (69, 545), (79, 593), (82, 611), (83, 614), (86, 632), (93, 656), (96, 677),

Gene: Llorens_3 Start: 476, Stop: 730, Start Num: 38
Candidate Starts for Llorens_3:
(24, 350), (Start: 38 @476 has 90 MA's), (49, 497), (58, 536), (60, 545), (67, 563), (69, 569), (79, 617), (83, 638), (86, 656), (93, 680), (96, 701),

Gene: Lokum_3 Start: 476, Stop: 730, Start Num: 38
Candidate Starts for Lokum_3:

(24, 350), (Start: 38 @476 has 90 MA's), (49, 497), (58, 536), (60, 545), (67, 563), (69, 569), (79, 617), (83, 638), (86, 656), (93, 680), (96, 701),

Gene: Lunahalos_3 Start: 476, Stop: 730, Start Num: 38
Candidate Starts for Lunahalos_3:
(24, 350), (Start: 38 @476 has 90 MA's), (49, 497), (58, 536), (60, 545), (67, 563), (69, 569), (79, 617), (83, 638), (86, 656), (93, 680), (96, 701),

Gene: MacKat_3 Start: 452, Stop: 706, Start Num: 38
Candidate Starts for MacKat_3:
(14, 227), (24, 326), (Start: 38 @452 has 90 MA's), (49, 473), (60, 521), (67, 539), (69, 545), (79, 593), (82, 611), (83, 614), (86, 632), (93, 656), (96, 677),

Gene: MacnCheese_90 Start: 56613, Stop: 56876, Start Num: 39
Candidate Starts for MacnCheese_90:
(25, 56478), (Start: 39 @56613 has 31 MA's), (54, 56643), (61, 56679), (63, 56685), (77, 56736), (79, 56748), (84, 56772), (86, 56784), (93, 56808), (96, 56835), (98, 56844), (99, 56853),

Gene: Malthus_2 Start: 251, Stop: 481, Start Num: 46
Candidate Starts for Malthus_2:
(Start: 46 @251 has 43 MA's), (48, 260), (75, 356), (79, 380), (80, 383), (81, 392), (89, 422), (100, 473),

Gene: MarkPhew_2 Start: 323, Stop: 568, Start Num: 30
Candidate Starts for MarkPhew_2:
(Start: 30 @323 has 4 MA's), (55, 359), (69, 410), (80, 461), (93, 521),

Gene: Marshawn_2 Start: 329, Stop: 583, Start Num: 39
Candidate Starts for Marshawn_2:
(16, 125), (19, 149), (Start: 39 @329 has 31 MA's), (50, 344), (53, 353), (80, 464), (96, 548),

Gene: McMater_3 Start: 469, Stop: 732, Start Num: 44
Candidate Starts for McMater_3:
(1, 1), (2, 7), (4, 91), (9, 154), (24, 331), (Start: 44 @469 has 6 MA's), (69, 556), (80, 607), (96, 691),

Gene: MeaningOfLife_3 Start: 452, Stop: 706, Start Num: 38
Candidate Starts for MeaningOfLife_3:
(14, 227), (24, 326), (Start: 38 @452 has 90 MA's), (49, 473), (60, 521), (67, 539), (69, 545), (79, 593), (82, 611), (83, 614), (86, 632), (93, 656), (96, 677),

Gene: Megsy_3 Start: 452, Stop: 706, Start Num: 38
Candidate Starts for Megsy_3:
(14, 227), (24, 326), (Start: 38 @452 has 90 MA's), (49, 473), (60, 521), (67, 539), (69, 545), (79, 593), (82, 611), (83, 614), (86, 632), (93, 656), (96, 677),

Gene: Miryou_2 Start: 275, Stop: 520, Start Num: 46
Candidate Starts for Miryou_2:
(Start: 46 @275 has 43 MA's), (63, 347), (67, 353), (69, 359), (77, 395), (79, 407), (83, 428), (85, 434), (86, 446), (96, 491),

Gene: Mitti_2 Start: 251, Stop: 481, Start Num: 46
Candidate Starts for Mitti_2:

(Start: 46 @251 has 43 MA's), (75, 356), (76, 365), (79, 380), (80, 383), (81, 392), (89, 422), (100, 473),

Gene: Murucutumbu_3 Start: 452, Stop: 706, Start Num: 38
Candidate Starts for Murucutumbu_3:
(13, 206), (14, 227), (24, 326), (Start: 38 @452 has 90 MA's), (49, 473), (60, 521), (67, 539), (69, 545), (78, 590), (79, 593), (82, 611), (83, 614), (86, 632), (93, 656), (96, 677),

Gene: Mynx_3 Start: 452, Stop: 706, Start Num: 38
Candidate Starts for Mynx_3:
(14, 227), (24, 326), (Start: 38 @452 has 90 MA's), (49, 473), (60, 521), (67, 539), (69, 545), (76, 578), (79, 593), (82, 611), (83, 614), (86, 632), (93, 656), (96, 677),

Gene: Nibb_2 Start: 333, Stop: 605, Start Num: 31
Candidate Starts for Nibb_2:
(Start: 31 @333 has 1 MA's), (59, 393), (86, 513), (89, 525), (94, 540),

Gene: Niklas_3 Start: 469, Stop: 732, Start Num: 44
Candidate Starts for Niklas_3:
(1, 1), (2, 7), (4, 91), (9, 154), (24, 331), (Start: 44 @469 has 6 MA's), (69, 556), (80, 607), (96, 691),

Gene: Nolwazi_2 Start: 252, Stop: 482, Start Num: 46
Candidate Starts for Nolwazi_2:
(Start: 46 @252 has 43 MA's), (75, 357), (76, 366), (79, 381), (80, 384), (81, 393), (89, 423), (100, 474),

Gene: November_3 Start: 424, Stop: 687, Start Num: 39
Candidate Starts for November_3:
(Start: 39 @424 has 31 MA's), (69, 511), (83, 580), (96, 646),

Gene: OkiRoe_2 Start: 275, Stop: 520, Start Num: 46
Candidate Starts for OkiRoe_2:
(Start: 46 @275 has 43 MA's), (51, 293), (63, 347), (67, 353), (69, 359), (77, 395), (79, 407), (83, 428), (85, 434), (86, 446), (96, 491),

Gene: OmniCritical_2 Start: 251, Stop: 481, Start Num: 46
Candidate Starts for OmniCritical_2:
(Start: 46 @251 has 43 MA's), (75, 356), (76, 365), (79, 380), (80, 383), (81, 392), (89, 422), (100, 473),

Gene: Omnicron_2 Start: 241, Stop: 486, Start Num: 46
Candidate Starts for Omnicron_2:
(Start: 46 @241 has 43 MA's), (63, 313), (67, 319), (69, 325), (79, 373), (83, 394), (86, 412), (93, 436),

Gene: Oscar_2 Start: 346, Stop: 612, Start Num: 37
Candidate Starts for Oscar_2:
(Start: 37 @346 has 4 MA's), (80, 487), (86, 523), (91, 538),

Gene: PYPDinur_101 Start: 61956, Stop: 62237, Start Num: 43
Candidate Starts for PYPDinur_101:
(Start: 34 @61944 has 2 MA's), (Start: 40 @61953 has 3 MA's), (Start: 43 @61956 has 3 MA's), (78, 62100), (83, 62124), (93, 62166), (98, 62196),

Gene: Padfoot_3 Start: 476, Stop: 730, Start Num: 38
Candidate Starts for Padfoot_3:
(24, 350), (Start: 38 @476 has 90 MA's), (49, 497), (58, 536), (60, 545), (67, 563), (69, 569), (79, 617), (83, 638), (86, 656), (93, 680), (96, 701),

Gene: Padpat_3 Start: 476, Stop: 730, Start Num: 38
Candidate Starts for Padpat_3:
(24, 350), (Start: 38 @476 has 90 MA's), (49, 497), (60, 545), (67, 563), (69, 569), (79, 617), (82, 635), (83, 638), (86, 656), (89, 668), (93, 680), (96, 701),

Gene: Paola_2 Start: 275, Stop: 520, Start Num: 46
Candidate Starts for Paola_2:
(Start: 46 @275 has 43 MA's), (63, 347), (67, 353), (69, 359), (77, 395), (79, 407), (83, 428), (85, 434), (86, 446), (96, 491),

Gene: Patt_2 Start: 251, Stop: 481, Start Num: 46
Candidate Starts for Patt_2:
(Start: 46 @251 has 43 MA's), (75, 356), (76, 365), (79, 380), (80, 383), (81, 392), (89, 422), (100, 473),

Gene: Peanam_3 Start: 469, Stop: 732, Start Num: 44
Candidate Starts for Peanam_3:
(24, 331), (Start: 44 @469 has 6 MA's), (69, 556), (80, 607), (96, 691),

Gene: Peel_3 Start: 476, Stop: 730, Start Num: 38
Candidate Starts for Peel_3:
(24, 350), (Start: 38 @476 has 90 MA's), (49, 497), (58, 536), (60, 545), (67, 563), (69, 569), (79, 617), (83, 638), (86, 656), (93, 680), (96, 701),

Gene: Pharb_89 Start: 56013, Stop: 56249, Start Num: 52
Candidate Starts for Pharb_89:
(Start: 45 @56001 has 1 MA's), (Start: 52 @56013 has 1 MA's), (54, 56016), (70, 56079), (72, 56085), (78, 56124), (83, 56148), (91, 56181), (96, 56214),

Gene: Phayonce_75 Start: 47994, Stop: 48278, Start Num: 30
Candidate Starts for Phayonce_75:
(Start: 30 @47994 has 4 MA's), (62, 48120), (81, 48195),

Gene: PhelpsODU_2 Start: 389, Stop: 649, Start Num: 39
Candidate Starts for PhelpsODU_2:
(21, 242), (Start: 39 @389 has 31 MA's),

Gene: Phrank_2 Start: 394, Stop: 654, Start Num: 39
Candidate Starts for Phrank_2:
(21, 247), (Start: 39 @394 has 31 MA's), (69, 478), (80, 529),

Gene: Piatt_3 Start: 476, Stop: 730, Start Num: 38
Candidate Starts for Piatt_3:
(24, 350), (Start: 38 @476 has 90 MA's), (49, 497), (58, 536), (60, 545), (67, 563), (69, 569), (79, 617), (83, 638), (86, 656), (93, 680), (96, 701),

Gene: Pisa1_3 Start: 442, Stop: 696, Start Num: 44
Candidate Starts for Pisa1_3:

(24, 310), (Start: 44 @442 has 6 MA's), (77, 556), (96, 655),

Gene: Pisa4_3 Start: 442, Stop: 696, Start Num: 44
Candidate Starts for Pisa4_3:
(24, 310), (Start: 44 @442 has 6 MA's), (77, 556), (96, 655),

Gene: Pixie_88 Start: 55789, Stop: 56052, Start Num: 39
Candidate Starts for Pixie_88:
(Start: 39 @55789 has 31 MA's), (54, 55819), (57, 55837), (61, 55855), (63, 55861), (73, 55888), (77, 55912), (78, 55921), (79, 55924), (84, 55948), (86, 55960), (93, 55984), (96, 56011), (99, 56029),

Gene: Pokerus_3 Start: 452, Stop: 706, Start Num: 38
Candidate Starts for Pokerus_3:
(14, 227), (24, 326), (Start: 38 @452 has 90 MA's), (49, 473), (60, 521), (67, 539), (79, 593), (82, 611), (83, 614), (86, 632), (93, 656), (96, 677),

Gene: Prithvi_3 Start: 452, Stop: 706, Start Num: 38
Candidate Starts for Prithvi_3:
(14, 227), (24, 326), (Start: 38 @452 has 90 MA's), (49, 473), (60, 521), (67, 539), (69, 545), (79, 593), (82, 611), (83, 614), (86, 632), (93, 656), (96, 677),

Gene: Psycho_2 Start: 300, Stop: 545, Start Num: 46
Candidate Starts for Psycho_2:
(Start: 46 @300 has 43 MA's), (63, 372), (67, 378), (69, 384), (77, 420), (79, 432), (83, 453), (85, 459), (86, 471),

Gene: Qhanda_2 Start: 251, Stop: 481, Start Num: 46
Candidate Starts for Qhanda_2:
(Start: 46 @251 has 43 MA's), (75, 356), (76, 365), (79, 380), (80, 383), (81, 392), (89, 422), (100, 473),

Gene: Quby_101 Start: 61285, Stop: 61566, Start Num: 43
Candidate Starts for Quby_101:
(Start: 34 @61273 has 2 MA's), (Start: 40 @61282 has 3 MA's), (Start: 43 @61285 has 3 MA's), (57, 61339), (78, 61429), (83, 61453), (93, 61495), (98, 61525),

Gene: QuincyRose_3 Start: 452, Stop: 706, Start Num: 38
Candidate Starts for QuincyRose_3:
(14, 227), (24, 326), (Start: 38 @452 has 90 MA's), (49, 473), (60, 521), (67, 539), (69, 545), (79, 593), (82, 611), (83, 614), (86, 632), (89, 644), (93, 656), (96, 677),

Gene: Rabbs_65 Start: 41915, Stop: 42166, Start Num: 34
Candidate Starts for Rabbs_65:
(16, 41714), (20, 41762), (22, 41765), (29, 41867), (Start: 34 @41915 has 2 MA's), (47, 41936), (56, 41966), (64, 42002), (78, 42056),

Gene: Ramen_3 Start: 476, Stop: 730, Start Num: 38
Candidate Starts for Ramen_3:
(24, 350), (Start: 38 @476 has 90 MA's), (49, 497), (60, 545), (67, 563), (69, 569), (79, 617), (82, 635), (83, 638), (86, 656), (89, 668), (93, 680), (96, 701),

Gene: Rando14_2 Start: 304, Stop: 549, Start Num: 46
Candidate Starts for Rando14_2:

(Start: 46 @304 has 43 MA's), (49, 316), (67, 382), (69, 388), (79, 436), (83, 457), (86, 475), (91, 490), (95, 505), (98, 529),

Gene: Rapunzel97_3 Start: 476, Stop: 730, Start Num: 38
Candidate Starts for Rapunzel97_3:
(24, 350), (Start: 38 @476 has 90 MA's), (49, 497), (60, 545), (67, 563), (69, 569), (79, 617), (82, 635), (83, 638), (86, 656), (89, 668), (93, 680), (96, 701),

Gene: Reptar3000_2 Start: 250, Stop: 480, Start Num: 46
Candidate Starts for Reptar3000_2:
(Start: 46 @250 has 43 MA's), (75, 355), (76, 364), (79, 379), (80, 382), (81, 391), (89, 421), (100, 472), (102, 475),

Gene: Richo_3 Start: 469, Stop: 732, Start Num: 44
Candidate Starts for Richo_3:
(1, 1), (2, 7), (4, 91), (9, 154), (24, 331), (Start: 44 @469 has 6 MA's), (69, 556), (80, 607), (96, 691),

Gene: Rosmarinus_3 Start: 476, Stop: 730, Start Num: 38
Candidate Starts for Rosmarinus_3:
(24, 350), (Start: 38 @476 has 90 MA's), (49, 497), (58, 536), (60, 545), (67, 563), (69, 569), (79, 617), (83, 638), (86, 656), (93, 680), (96, 701),

Gene: Ruthiejr_2 Start: 251, Stop: 481, Start Num: 46
Candidate Starts for Ruthiejr_2:
(Start: 46 @251 has 43 MA's), (48, 260), (75, 356), (79, 380), (80, 383), (81, 392), (89, 422), (100, 473),

Gene: SamScheppers_2 Start: 250, Stop: 480, Start Num: 46
Candidate Starts for SamScheppers_2:
(Start: 46 @250 has 43 MA's), (75, 355), (76, 364), (79, 379), (80, 382), (81, 391), (89, 421), (100, 472),

Gene: SamuelLPlaqson_3 Start: 440, Stop: 694, Start Num: 38
Candidate Starts for SamuelLPlaqson_3:
(14, 215), (24, 314), (Start: 38 @440 has 90 MA's), (49, 461), (58, 500), (67, 527), (69, 533), (79, 581), (82, 599), (86, 620), (89, 632), (96, 665),

Gene: Scarlett_2 Start: 346, Stop: 612, Start Num: 37
Candidate Starts for Scarlett_2:
(19, 187), (Start: 37 @346 has 4 MA's), (80, 487), (86, 523), (91, 538),

Gene: Shadow1_2 Start: 396, Stop: 665, Start Num: 39
Candidate Starts for Shadow1_2:
(Start: 27 @330 has 1 MA's), (Start: 39 @396 has 31 MA's),

Gene: Shaobing_3 Start: 469, Stop: 732, Start Num: 44
Candidate Starts for Shaobing_3:
(1, 1), (2, 7), (4, 91), (9, 154), (24, 331), (Start: 44 @469 has 6 MA's), (69, 556), (80, 607), (96, 691),

Gene: ShedlockHolmes_91 Start: 56212, Stop: 56475, Start Num: 39
Candidate Starts for ShedlockHolmes_91:
(Start: 39 @56212 has 31 MA's), (54, 56242), (61, 56278), (63, 56284), (73, 56311), (77, 56335), (79, 56347), (84, 56371), (86, 56383), (93, 56407), (96, 56434), (99, 56452),

Gene: Sheng711_102 Start: 61477, Stop: 61761, Start Num: 40
Candidate Starts for Sheng711_102:
(Start: 34 @61468 has 2 MA's), (Start: 40 @61477 has 3 MA's), (Start: 43 @61480 has 3 MA's), (57, 61534), (78, 61624), (83, 61648), (93, 61690), (98, 61720),

Gene: ShiaSurprise_3 Start: 476, Stop: 730, Start Num: 38
Candidate Starts for ShiaSurprise_3:
(24, 350), (Start: 38 @476 has 90 MA's), (49, 497), (58, 536), (60, 545), (67, 563), (69, 569), (79, 617), (83, 638), (86, 656), (93, 680), (96, 701),

Gene: SirPhilip_3 Start: 468, Stop: 731, Start Num: 39
Candidate Starts for SirPhilip_3:
(Start: 39 @468 has 31 MA's), (Start: 42 @471 has 3 MA's), (80, 606), (86, 642), (91, 657), (96, 690),

Gene: Slarp_2 Start: 251, Stop: 481, Start Num: 46
Candidate Starts for Slarp_2:
(Start: 46 @251 has 43 MA's), (75, 356), (76, 365), (79, 380), (80, 383), (81, 392), (89, 422), (100, 473),

Gene: Slimphazie_3 Start: 476, Stop: 730, Start Num: 38
Candidate Starts for Slimphazie_3:
(24, 350), (Start: 38 @476 has 90 MA's), (49, 497), (60, 545), (67, 563), (69, 569), (79, 617), (82, 635), (83, 638), (86, 656), (89, 668), (93, 680), (96, 701),

Gene: Sneeze_64 Start: 41914, Stop: 42165, Start Num: 34
Candidate Starts for Sneeze_64:
(16, 41713), (20, 41761), (22, 41764), (29, 41866), (Start: 34 @41914 has 2 MA's), (47, 41935), (56, 41965), (64, 42001), (78, 42055),

Gene: SoSeph_2 Start: 296, Stop: 541, Start Num: 46
Candidate Starts for SoSeph_2:
(Start: 46 @296 has 43 MA's), (63, 368), (67, 374), (69, 380), (77, 416), (79, 428), (83, 449), (85, 455), (86, 467), (96, 512),

Gene: Spock_3 Start: 476, Stop: 730, Start Num: 38
Candidate Starts for Spock_3:
(24, 350), (Start: 38 @476 has 90 MA's), (49, 497), (58, 536), (60, 545), (67, 563), (69, 569), (79, 617), (83, 638), (86, 656), (93, 680), (96, 701),

Gene: Stinson_3 Start: 452, Stop: 706, Start Num: 38
Candidate Starts for Stinson_3:
(12, 197), (14, 227), (24, 326), (Start: 38 @452 has 90 MA's), (49, 473), (58, 512), (67, 539), (79, 593), (83, 614), (86, 632), (95, 662), (96, 677),

Gene: Sulley_3 Start: 476, Stop: 730, Start Num: 38
Candidate Starts for Sulley_3:
(17, 278), (24, 350), (Start: 38 @476 has 90 MA's), (49, 497), (60, 545), (67, 563), (69, 569), (79, 617), (82, 635), (83, 638), (86, 656), (89, 668), (93, 680), (96, 701),

Gene: Sunflower1121_2 Start: 329, Stop: 664, Start Num: 27
Candidate Starts for Sunflower1121_2:
(Start: 27 @329 has 1 MA's), (Start: 39 @395 has 31 MA's),

Gene: Syra333_3 Start: 509, Stop: 769, Start Num: 39
Candidate Starts for Syra333_3:
(Start: 39 @509 has 31 MA's), (69, 593), (80, 644), (96, 728),

Gene: TBond007_85 Start: 55787, Stop: 56050, Start Num: 39
Candidate Starts for TBond007_85:
(Start: 39 @55787 has 31 MA's), (54, 55817), (57, 55835), (61, 55853), (63, 55859), (73, 55886), (77, 55910), (78, 55919), (79, 55922), (84, 55946), (86, 55958), (93, 55982), (96, 56009), (99, 56027),

Gene: TClif_2 Start: 240, Stop: 494, Start Num: 46
Candidate Starts for TClif_2:
(Start: 46 @240 has 43 MA's), (66, 318), (68, 324), (73, 339), (77, 363), (80, 378), (88, 420), (93, 435), (96, 453),

Gene: Tachez_3 Start: 452, Stop: 706, Start Num: 38
Candidate Starts for Tachez_3:
(14, 227), (24, 326), (Start: 38 @452 has 90 MA's), (49, 473), (60, 521), (67, 539), (69, 545), (76, 578), (79, 593), (82, 611), (83, 614), (86, 632), (89, 644), (93, 656), (96, 677),

Gene: TaiwanKao_3 Start: 452, Stop: 706, Start Num: 38
Candidate Starts for TaiwanKao_3:
(14, 227), (24, 326), (Start: 38 @452 has 90 MA's), (49, 473), (60, 521), (67, 539), (69, 545), (79, 593), (82, 611), (83, 614), (86, 632), (93, 656), (96, 677),

Gene: Taquito_2 Start: 251, Stop: 481, Start Num: 46
Candidate Starts for Taquito_2:
(Start: 46 @251 has 43 MA's), (75, 356), (76, 365), (79, 380), (80, 383), (81, 392), (89, 422), (100, 473),

Gene: ThulaThula_78 Start: 49203, Stop: 49487, Start Num: 30
Candidate Starts for ThulaThula_78:
(Start: 30 @49203 has 4 MA's), (62, 49329), (87, 49431), (90, 49440),

Gene: Thyatira_2 Start: 275, Stop: 520, Start Num: 46
Candidate Starts for Thyatira_2:
(Start: 46 @275 has 43 MA's), (63, 347), (67, 353), (69, 359), (77, 395), (79, 407), (83, 428), (85, 434), (86, 446), (96, 491),

Gene: Tierra_2 Start: 395, Stop: 655, Start Num: 39
Candidate Starts for Tierra_2:
(21, 248), (Start: 39 @395 has 31 MA's), (69, 479), (80, 530),

Gene: Tigress9_3 Start: 500, Stop: 760, Start Num: 39
Candidate Starts for Tigress9_3:
(Start: 39 @500 has 31 MA's), (69, 584), (80, 635), (96, 719),

Gene: TingHuaYa_3 Start: 447, Stop: 701, Start Num: 38
Candidate Starts for TingHuaYa_3:
(14, 225), (24, 321), (Start: 38 @447 has 90 MA's), (49, 468), (63, 528), (67, 534), (69, 540), (79, 588), (82, 606), (83, 609), (86, 627),

Gene: TiniBug_3 Start: 440, Stop: 694, Start Num: 38

Candidate Starts for TiniBug_3:
(14, 215), (24, 314), (Start: 38 @440 has 90 MA's), (49, 461), (58, 500), (67, 527), (69, 533), (79, 581), (82, 599), (86, 620), (89, 632), (96, 665),

Gene: Tiri_3 Start: 452, Stop: 706, Start Num: 38
Candidate Starts for Tiri_3:
(Start: 38 @452 has 90 MA's), (49, 473), (60, 521), (67, 539), (69, 545), (76, 578), (79, 593), (82, 611), (83, 614), (86, 632), (89, 644), (93, 656), (96, 677),

Gene: Topper_3 Start: 476, Stop: 730, Start Num: 38
Candidate Starts for Topper_3:
(24, 350), (Start: 38 @476 has 90 MA's), (49, 497), (58, 536), (60, 545), (67, 563), (69, 569), (79, 617), (83, 638), (86, 656), (93, 680), (96, 701),

Gene: TreyKay_3 Start: 452, Stop: 706, Start Num: 38
Candidate Starts for TreyKay_3:
(14, 227), (24, 326), (Start: 38 @452 has 90 MA's), (49, 473), (60, 521), (67, 539), (69, 545), (79, 593), (82, 611), (83, 614), (86, 632), (93, 656), (96, 677),

Gene: TribleTrouble_91 Start: 58049, Stop: 58294, Start Num: 45
Candidate Starts for TribleTrouble_91:
(Start: 45 @58049 has 1 MA's), (Start: 52 @58061 has 1 MA's), (70, 58124), (83, 58193), (91, 58226), (96, 58259),

Gene: TruffulaTree_3 Start: 476, Stop: 730, Start Num: 38
Candidate Starts for TruffulaTree_3:
(24, 350), (Start: 38 @476 has 90 MA's), (49, 497), (58, 536), (60, 545), (67, 563), (69, 569), (79, 617), (82, 635), (83, 638), (86, 656), (89, 668), (93, 680), (96, 701),

Gene: Twitch_3 Start: 476, Stop: 730, Start Num: 38
Candidate Starts for Twitch_3:
(24, 350), (Start: 38 @476 has 90 MA's), (49, 497), (58, 536), (60, 545), (67, 563), (69, 569), (79, 617), (83, 638), (86, 656), (93, 680), (96, 701),

Gene: Unicorn_2 Start: 389, Stop: 649, Start Num: 39
Candidate Starts for Unicorn_2:
(21, 242), (Start: 39 @389 has 31 MA's),

Gene: Urkel_3 Start: 440, Stop: 694, Start Num: 38
Candidate Starts for Urkel_3:
(14, 215), (24, 314), (Start: 38 @440 has 90 MA's), (49, 461), (58, 500), (67, 527), (69, 533), (79, 581), (82, 599), (86, 620), (89, 632), (96, 665),

Gene: Validus_4 Start: 682, Stop: 942, Start Num: 36
Candidate Starts for Validus_4:
(Start: 36 @682 has 1 MA's), (59, 736), (77, 802), (80, 817), (96, 901),

Gene: Veliki_3 Start: 476, Stop: 730, Start Num: 38
Candidate Starts for Veliki_3:
(24, 350), (Start: 38 @476 has 90 MA's), (49, 497), (60, 545), (67, 563), (69, 569), (79, 617), (83, 638), (86, 656), (93, 680), (96, 701),

Gene: Waterfoul_2 Start: 296, Stop: 541, Start Num: 46

Candidate Starts for Waterfoul_2:
(Start: 46 @296 has 43 MA's), (63, 368), (67, 374), (69, 380), (77, 416), (79, 428), (83, 449), (85, 455), (86, 467), (96, 512),

Gene: Wintermute_2 Start: 250, Stop: 480, Start Num: 46
Candidate Starts for Wintermute_2:
(Start: 46 @250 has 43 MA's), (48, 259), (75, 355), (79, 379), (80, 382), (81, 391), (89, 421), (100, 472),

Gene: Ximenita_3 Start: 509, Stop: 769, Start Num: 39
Candidate Starts for Ximenita_3:
(Start: 39 @509 has 31 MA's), (53, 533), (69, 593), (80, 644), (96, 728),

Gene: Y10_02 Start: 251, Stop: 481, Start Num: 46
Candidate Starts for Y10_02:
(Start: 46 @251 has 43 MA's), (48, 260), (75, 356), (79, 380), (80, 383), (81, 392), (89, 422), (100, 473),

Gene: Y2_02 Start: 251, Stop: 481, Start Num: 46
Candidate Starts for Y2_02:
(Start: 46 @251 has 43 MA's), (48, 260), (75, 356), (79, 380), (80, 383), (81, 392), (89, 422), (100, 473),

Gene: YasnayaPolyana_2 Start: 251, Stop: 481, Start Num: 46
Candidate Starts for YasnayaPolyana_2:
(Start: 46 @251 has 43 MA's), (48, 260), (75, 356), (79, 380), (80, 383), (81, 392), (89, 422), (100, 473),

Gene: YoureAdopted_3 Start: 452, Stop: 706, Start Num: 38
Candidate Starts for YoureAdopted_3:
(14, 227), (24, 326), (Start: 38 @452 has 90 MA's), (49, 473), (60, 521), (67, 539), (69, 545), (79, 593), (82, 611), (83, 614), (86, 632), (93, 656), (96, 677),

Gene: Yuna_3 Start: 525, Stop: 797, Start Num: 39
Candidate Starts for Yuna_3:
(7, 201), (23, 378), (Start: 39 @525 has 31 MA's), (71, 627), (77, 657), (96, 756),

Gene: Yunkel11_3 Start: 445, Stop: 702, Start Num: 38
Candidate Starts for Yunkel11_3:
(24, 325), (Start: 38 @445 has 90 MA's), (49, 466), (58, 505), (67, 532), (69, 538), (76, 571), (79, 586), (82, 604), (83, 607), (86, 625), (96, 673),

Gene: Zabiza_3 Start: 476, Stop: 730, Start Num: 38
Candidate Starts for Zabiza_3:
(24, 350), (Start: 38 @476 has 90 MA's), (49, 497), (60, 545), (67, 563), (69, 569), (79, 617), (82, 635), (83, 638), (86, 656), (89, 668), (93, 680), (96, 701),

Gene: Zavala_3 Start: 452, Stop: 706, Start Num: 38
Candidate Starts for Zavala_3:
(14, 227), (24, 326), (Start: 38 @452 has 90 MA's), (49, 473), (60, 521), (67, 539), (69, 545), (79, 593), (82, 611), (83, 614), (86, 632), (89, 644), (93, 656), (96, 677),