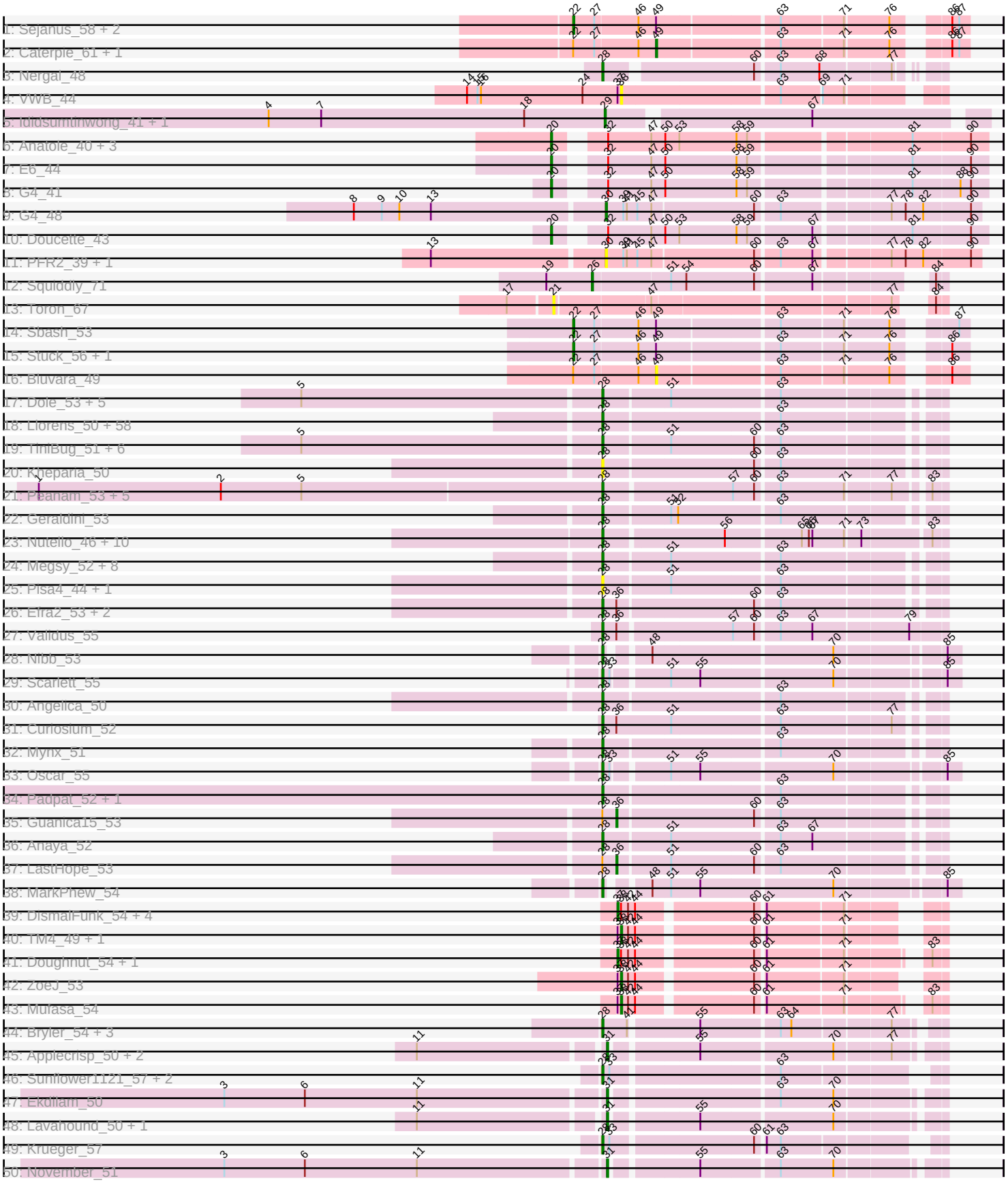
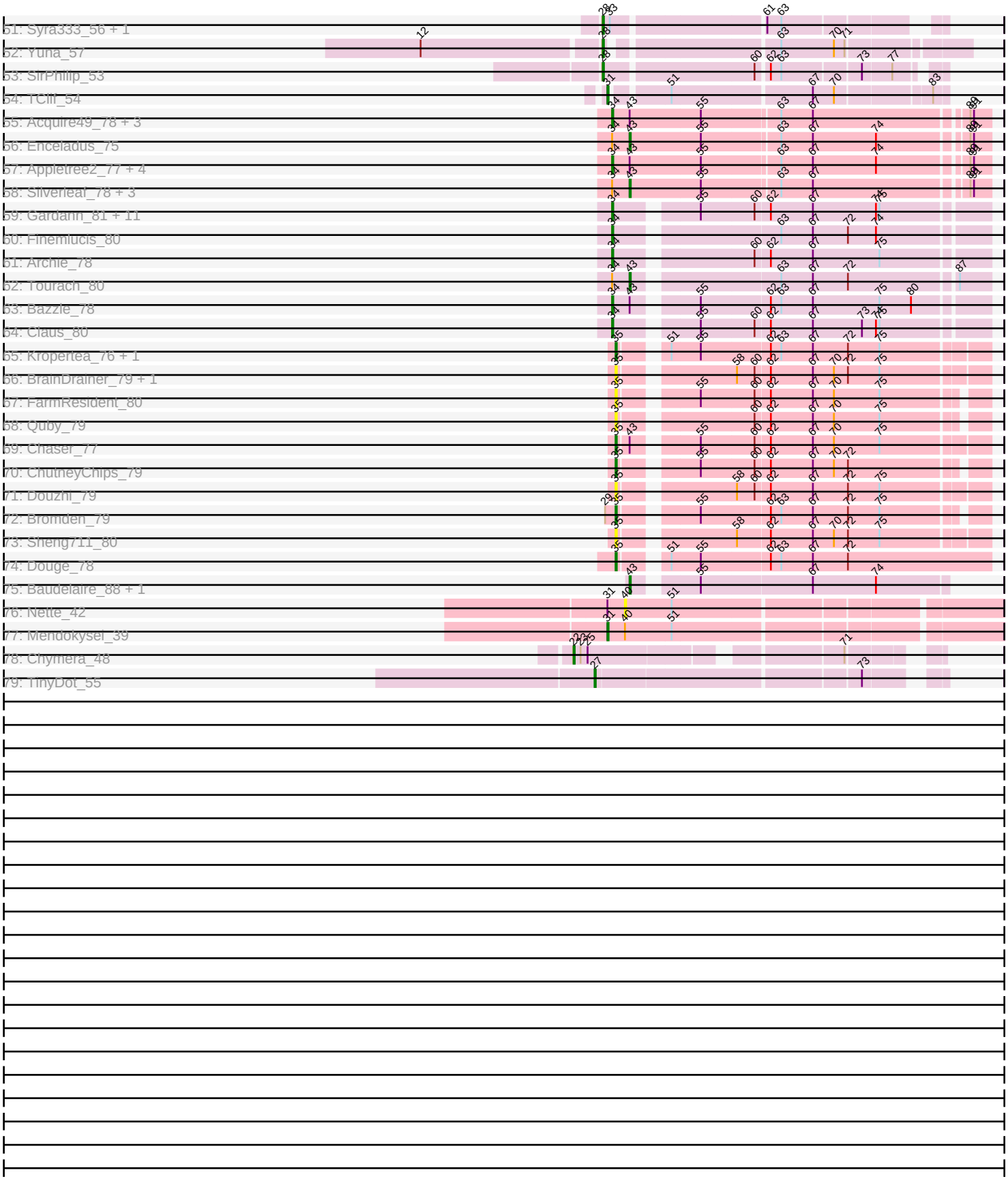
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1: Sejanus_58 + 2
2: Caterpie_61 + 1
3: Nergal_48
4: VWB_44
5: Ididsumdinwong_41 + 1
6: Anatole_40 + 3
7: E6_44
8: G4_41
9: G4_48
10: Doucette_43
11: PFR2_39 + 1
12: Squiddly_71
13: Toron_67
14: Sbash_53
15: Stuck_56 + 1
16: Bluvara_49
17: Dole_53 + 5
18: Llorens_50 + 58
19: TiniBug_51 + 6
20: Kneparia_50
21: Peanam_53 + 5
22: Geraldini_53
23: Nutello_46 + 10
24: Megsy_52 + 8
25: Pisa4_44 + 1
26: Elra2_53 + 2
27: Validus_55
28: Nibb_53
29: Scarlett_55
30: Angelica_50
31: Curiosium_52
32: Mynx_51
33: Oscar_55
34: Paopat_52 + 1
35: Guanica15_53
36: Anaya_52
37: LastHope_53
38: MarkPhew_54
39: DismalFunk_54 + 4
40: TM4_49 + 1
41: Doughnut_54 + 1
42: ZoeJ_53
43: Murasa_54
44: Bryler_54 + 3
45: Applecrisp_50 + 2
46: Sunflower1121_57 + 2
47: Ekuliam_50
48: Lavahound_50 + 1
49: Krueger_57
50: November_51

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51: Syra333_56 + 1
52: Yuna_57
53: SirPhilip_53
54: TCliff_54
55: Acquire49_78 + 3
56: Enceladus_75
57: Appletree2_77 + 4
58: Silverleaf_78 + 3
59: Gardann_81 + 11
60: Finemiucis_80
61: Archie_78
62: Tourach_80
63: Bazzle_78
64: Claus_80
65: Kropertea_76 + 1
66: BrainDrainer_79 + 1
67: FarmResident_80
68: Quby_79
69: Chaser_77
70: ChutneyChips_79
71: Douzhi_79
72: Bromden_79
73: Sheng711_80
74: Douge_78
75: Baudelaire_88 + 1
76: Nette_42
77: Mendokysei_39
78: Chymera_48
79: TinyDot_55

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 347246 Report

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

Pham number 347246 has 223 members, 22 are drafts.

Phages represented in each track:
• Track 1 : Sejanus_58, Charlie_44, Journey_43
• Track 2 : Caterpie_61, SkinnyPete_42
• Track 3 : Nergal_48
• Track 4 : VWB_44
• Track 5 : Ididsumtinwong_41, Bioscum_41
• Track 6 : Anatole_40, B3_39, B22_42, E1_40
• Track 7 : E6_44
• Track 8 : G4_41
• Track 9 : G4_48
• Track 10 : Doucette_43
• Track 11 : PFR2_39, PFR1_37
• Track 12 : Squiddly_71
• Track 13 : Toron_67
• Track 14 : Sbash_53
• Track 15 : Stuck_56, Shweta_42
• Track 16 : Bluvara_49
• Track 17 : Dole_53, Illumine_53, Ageofdapage_52, Stinson_51, Devera_55, Murucutumbu_51
• Track 18 : Llorens_50, Topper_50, ActinUp_50, Slimphazie_50, Dalmuri_50, BarrelRoll_50, Lokum_51, Jeckyll_50, Padfoot_50, Peel_50, CREW_50, MacKat_45, AlishaPH_50, Rosmarinus_50, Apocalypse_53, Boiiii_50, BaghaKamala_49, Bern_51, BGlluviae_50, TruffulaTree_50, Asayake_50, Joy99_50, Atiba_51, CheetoDust_49, Zavala_52, CallaLilly_50, Blizzard_50, Zabiza_45, Adonis_50, Belladonna_50, Adephagia_50, Piatt_50, Homura_50, Inky_50, Veliki_51, Capricorn_50, MeaningOfLife_51, Hyperbowlee_50, Lunahalos_50, JAWS_50, Spock_50, TaiwanKao_52, Ganymede_51, HedwigODU_50, QuincyRose_49, Clipper_53, YoureAdopted_49, Durfee_50, Rapunzel97_51, Sulley_50, Beezoo_52, Tachez_50, ShiaSurprise_51, Jarvi_50, Twitch_50, Jayhawk_51, BEEST_50, Ramen_51, CaseJules_52
• Track 19 : TiniBug_51, DrHayes_51, Bella96_51, Anma_51, SamuelLPlaqson_51, Urkel_51, DartGoblin_52
• Track 20 : Kheparia_50
• Track 21 : Peanam_53, Dartin_53, Shaobing_53, Richo_53, McMater_53, Niklas_53
• Track 22 : Geraldini_53
• Track 23 : Nutello_46, Torres_49, Amelie_46, Mdavu_47, Nikao_49, Teejan_48, LilPharaoh_46, Trice_46, Biglebops_46, SgtBeansprout_46, Enkosi_48

• Track 24 : Megsy_52, LaterM_51, Tiri_51, Prithvi_51, LindNT_49, Deby_50, Pokerus_49, TreyKay_51, CrimD_50
• Track 25 : Pisa4_44, Pisa1_50
• Track 26 : Efra2_53, Yunkel11_53, TingHuaYa_51
• Track 27 : Validus_55
• Track 28 : Nibb_53
• Track 29 : Scarlett_55
• Track 30 : Angelica_50
• Track 31 : Curiosium_52
• Track 32 : Mynx_51
• Track 33 : Oscar_55
• Track 34 : Padpat_52, Emerson_51
• Track 35 : Guanica15_53
• Track 36 : Anaya_52
• Track 37 : LastHope_53
• Track 38 : MarkPhew_54
• Track 39 : DismalFunk_54, DismalStressor_54, Milly_54, Findley_54, Marcoliusprime_54
• Track 40 : TM4_49, Strobilo_54
• Track 41 : Doughnut_54, BoostSeason_54
• Track 42 : ZoeJ_53
• Track 43 : Mufasa_54
• Track 44 : Bryler_54, Cain_54, Tierra_54, Phrank_54
• Track 45 : Applecrisp_50, Ellie_49, Fefferhead_51
• Track 46 : Sunflower1121_57, Shadow1_56, Ximenita_57
• Track 47 : Ekdilam_50
• Track 48 : Lavahound_50, Amgine_51
• Track 49 : Krueger_57
• Track 50 : November_51
• Track 51 : Syra333_56, Tigress9_56
• Track 52 : Yuna_57
• Track 53 : SirPhilip_53
• Track 54 : TClif_54
• Track 55 : Acquire49_78, MAckerman_76, Zaria_79, Wyatt2_79
• Track 56 : Enceladus_75
• Track 57 : Appletree2_77, DirkDirk_75, OhShagHennessy_75, JoeDirt_78, Poochiewood_76
• Track 58 : Silverleaf_78, Tyson_79, Halena_76, Calm_80
• Track 59 : Gardann_81, OverPar_82, Zakai_82, Winky_81, Miley16_81, Kahlid_81, Itos_80, Rumpelstiltskin_78, MkaliMitinis3_82, Wilder_82, Breezona_81, Faith1_81
• Track 60 : Finemlucis_80
• Track 61 : Archie_78
• Track 62 : Tourach_80
• Track 63 : Bazzle_78
• Track 64 : Claus_80
• Track 65 : Kropertea_76, DyoEdafos_83
• Track 66 : BrainDrainer_79, PYPDinur_78
• Track 67 : FarmResident_80
• Track 68 : Quby_79
• Track 69 : Chaser_77
• Track 70 : ChutneyChips_79
• Track 71 : Douzhi_79
• Track 72 : Bromden_79

• Track 73 : Sheng711_80
• Track 74 : Douge_78
• Track 75 : Baudelaire_88, Aegeus_88
• Track 76 : Nette_42
• Track 77 : Mendokysei_39
• Track 78 : Chymera_48
• Track 79 : TinyDot_55

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

The start number called the most often in the published annotations is 28, it was called in 121 of the 201 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• ActinUp_50, Adephagia_50, Adonis_50, Ageofdapage_52, AlishaPH_50, Amelie_46, Anaya_52, Angelica_50, Anma_51, Apocalypse_53, Asayake_50, Atiba_51, BEEST_50, BGlluviae_50, BaghaKamala_49, BarrelRoll_50, Beezoo_52, Bella96_51, Belladonna_50, Bern_51, Biglebops_46, Blizzard_50, Boiiii_50, Bryler_54, CREW_50, Cain_54, CallaLilly_50, Capricorn_50, CaseJules_52, CheetoDust_49, Clipper_53, CrimD_50, Curiosium_52, Dalmuri_50, DartGoblin_52, Dartin_53, Deby_50, Devera_55, Dole_53, DrHayes_51, Durfee_50, Efra2_53, Emerson_51, Enkosi_48, Ganymede_51, Geraldini_53, HedwigODU_50, Homura_50, Hyperbowlee_50, Illumine_53, Inky_50, JAWS_50, Jarvi_50, Jayhawk_51, Jeckyll_50, Joy99_50, Kheparia_50, Krueger_57, LaterM_51, LilPharaoh_46, LindNT_49, Llorens_50, Lokum_51, Lunahalos_50, MacKat_45, MarkPhew_54, McMater_53, Mdavu_47, MeaningOfLife_51, Megsy_52, Murucutumbu_51, Mynx_51, Nergal_48, Nibb_53, Nikao_49, Niklas_53, Nutello_46, Oscar_55, Padfoot_50, Padpat_52, Peanam_53, Peel_50, Phrank_54, Piatt_50, Pisa1_50, Pisa4_44, Pokerus_49, Prithvi_51, QuincyRose_49, Ramen_51, Rapunzel97_51, Richo_53, Rosmarinus_50, SamuelLPlaqson_51, Scarlett_55, SgtBeansprout_46, Shadow1_56, Shaobing_53, ShiaSurprise_51, SirPhilip_53, Slimphazie_50, Spock_50, Stinson_51, Sulley_50, Sunflower1121_57, Syra333_56, Tachez_50, TaiwanKao_52, Teejan_48, Tierra_54, Tigress9_56, TingHuaYa_51, TiniBug_51, Tiri_51, Topper_50, Torres_49, TreyKay_51, Trice_46, TruffulaTree_50, Twitch_50, Urkel_51, Validus_55, Veliki_51, Ximenita_57, YoureAdopted_49, Yuna_57, Yunkel11_53, Zabiza_45, Zavala_52,

Genes that have the "Most Annotated" start but do not call it:
• Guanica15_53, LastHope_53,

Genes that do not have the "Most Annotated" start:
• Acquire49_78, Aegeus_88, Amgine_51, Anatole_40, Applecrisp_50, Appletree2_77, Archie_78, B22_42, B3_39, Baudelaire_88, Bazzle_78, Bioscum_41, Bluvara_49, BoostSeason_54, BrainDrainer_79, Breezona_81, Bromden_79, Calm_80, Caterpie_61, Charlie_44, Chaser_77, ChutneyChips_79, Chymera_48, Claus_80, DirkDirk_75, DismalFunk_54, DismalStressor_54, Doucette_43, Douge_78, Doughnut_54, Douzhi_79, DyoEdafos_83, E1_40, E6_44, Ekdilam_50, Ellie_49, Enceladus_75, Faith1_81, FarmResident_80, Fefferhead_51, Findley_54, Finemlucis_80, G4_41, G4_48, Gardann_81, Halena_76, Ididsumtinwong_41, Itos_80, JoeDirt_78, Journey_43, Kahlid_81, Kropertea_76, Lavahound_50,

MAckerman_76, Marcoliusprime_54, Mendokysei_39, Miley16_81, Milly_54, MkaliMitinis3_82, Mufasa_54, Nette_42, November_51, OhShagHennessy_75, OverPar_82, PFR1_37, PFR2_39, PYPDinur_78, Poochiewood_76, Quby_79, Rumpelstiltskin_78, Sbash_53, Sejanus_58, Sheng711_80, Shweta_42, Silverleaf_78, SkinnyPete_42, Squiddly_71, Strobilo_54, Stuck_56, TClif_54, TM4_49, TinyDot_55, Toron_67, Tourach_80, Tyson_79, VWB_44, Wilder_82, Winky_81, Wyatt2_79, Zakai_82, Zaria_79, ZoeJ_53,

Summary by start number:

Start 20:
• Found in 7 of 223 (3.1%) of genes in pham
• Manual Annotations of this start: 7 of 201
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Anatole_40 (BV), B22_42 (BW), B3_39 (BV), Doucette_43 (BW), E1_40 (BV), E6_44 (BW), G4_41 (BW),

Start 21:
• Found in 1 of 223 (0.4%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Toron_67 (F6),

Start 22:
• Found in 10 of 223 (4.5%) of genes in pham
• Manual Annotations of this start: 7 of 201
• Called 70.0% of time when present
• Phage (with cluster) where this start called: Charlie_44 (N), Chymera_48 (singleton), Journey_43 (N), Sbash_53 (I2), Sejanus_58 (AD), Shweta_42 (N), Stuck_56 (I2),

Start 26:
• Found in 1 of 223 (0.4%) of genes in pham
• Manual Annotations of this start: 1 of 201
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Squiddly_71 (DN2),

Start 27:
• Found in 10 of 223 (4.5%) of genes in pham
• Manual Annotations of this start: 1 of 201
• Called 10.0% of time when present
• Phage (with cluster) where this start called: TinyDot_55 (singleton),

Start 28:
• Found in 131 of 223 (58.7%) of genes in pham
• Manual Annotations of this start: 121 of 201
• Called 98.5% of time when present
• Phage (with cluster) where this start called: ActinUp_50 (K1), Adephagia_50 (K1), Adonis_50 (K1), Ageofdapage_52 (K1), AlishaPH_50 (K1), Amelie_46 (K1), Anaya_52 (K1), Angelica_50 (K1), Anma_51 (K1), Apocalypse_53 (K1), Asayake_50 (K1), Atiba_51 (K1), BEEST_50 (K1), BGlluviae_50 (K1), BaghaKamala_49 (K1), BarrelRoll_50 (K1), Beezoo_52 (K1), Bella96_51 (K1), Belladonna_50 (K1), Bern_51 (K1), Biglebops_46 (K1), Blizzard_50 (K1), Boiiii_50 (K1), Bryler_54 (K6), CREW_50 (K1), Cain_54 (K6), CallaLilly_50 (K1), Capricorn_50 (K1), CaseJules_52 (K1),

CheetoDust_49 (K1), Clipper_53 (K1), CrimD_50 (K1), Curiosium_52 (K1), Dalmuri_50 (K1), DartGoblin_52 (K1), Dartin_53 (K1), Deby_50 (K1), Devera_55 (K1), Dole_53 (K1), DrHayes_51 (K1), Durfee_50 (K1), Efra2_53 (K1), Emerson_51 (K1), Enkosi_48 (K1), Ganymede_51 (K1), Geraldini_53 (K1), HedwigODU_50 (K1), Homura_50 (K1), Hyperbowlee_50 (K1), Illumine_53 (K1), Inky_50 (K1), JAWS_50 (K1), Jarvi_50 (K1), Jayhawk_51 (K1), Jeckyll_50 (K1), Joy99_50 (K1), Kheparia_50 (K1), Krueger_57 (K6), LaterM_51 (K1), LilPharaoh_46 (K1), LindNT_49 (K1), Llorens_50 (K1), Lokum_51 (K1), Lunahalos_50 (K1), MacKat_45 (K1), MarkPhew_54 (K1), McMater_53 (K1), Mdavu_47 (K1), MeaningOfLife_51 (K1), Megsy_52 (K1), Murucutumbu_51 (K1), Mynx_51 (K1), Nergal_48 (AG), Nibb_53 (K1), Nikao_49 (K1), Niklas_53 (K1), Nutello_46 (K1), Oscar_55 (K1), Padfoot_50 (K1), Padpat_52 (K1), Peanam_53 (K1), Peel_50 (K1), Phrank_54 (K6), Piatt_50 (K1), Pisa1_50 (K1), Pisa4_44 (K1), Pokerus_49 (K1), Prithvi_51 (K1), QuincyRose_49 (K1), Ramen_51 (K1), Rapunzel97_51 (K1), Richo_53 (K1), Rosmarinus_50 (K1), SamuelLPlaqson_51 (K1), Scarlett_55 (K1), SgtBeansprout_46 (K1), Shadow1_56 (K6), Shaobing_53 (K1), ShiaSurprise_51 (K1), SirPhilip_53 (K6), Slimphazie_50 (K1), Spock_50 (K1), Stinson_51 (K1), Sulley_50 (K1), Sunflower1121_57 (K6), Syra333_56 (K6), Tachez_50 (K1), TaiwanKao_52 (K1), Teejan_48 (K1), Tierra_54 (K6), Tigress9_56 (K6), TingHuaYa_51 (K1), TiniBug_51 (K1), Tiri_51 (K1), Topper_50 (K1), Torres_49 (K1), TreyKay_51 (K1), Trice_46 (K1), TruffulaTree_50 (K1), Twitch_50 (K1), Urkel_51 (K1), Validus_55 (K1), Veliki_51 (K1), Ximenita_57 (K6), YoureAdopted_49 (K1), Yuna_57 (K6), Yunkel11_53 (K1), Zabiza_45 (K1), Zavala_52 (K1),

Start 29:
• Found in 3 of 223 (1.3%) of genes in pham
• Manual Annotations of this start: 2 of 201
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Bioscum_41 (BC3), Ididsumtinwong_41 (BC3),

Start 30:
• Found in 3 of 223 (1.3%) of genes in pham
• Manual Annotations of this start: 1 of 201
• Called 100.0% of time when present
• Phage (with cluster) where this start called: G4_48 (BW), PFR1_37 (BX), PFR2_39 (BX),

Start 31:
• Found in 10 of 223 (4.5%) of genes in pham
• Manual Annotations of this start: 9 of 201
• Called 90.0% of time when present
• Phage (with cluster) where this start called: Amgine_51 (K6), Applecrisp_50 (K6), Ekdilam_50 (K6), Ellie_49 (K6), Fefferhead_51 (K6), Lavahound_50 (K6), Mendokysei_39 (T), November_51 (K6), TClif_54 (K6),

Start 34:
• Found in 31 of 223 (13.9%) of genes in pham
• Manual Annotations of this start: 24 of 201
• Called 80.6% of time when present
• Phage (with cluster) where this start called: Acquire49_78 (L1), Appletree2_77 (L1), Archie_78 (L2), Bazzle_78 (L2), Breezona_81 (L2), Claus_80 (L2), DirkDirk_75 (L1), Faith1_81 (L2), Finemlucis_80 (L2), Gardann_81 (L2), Itos_80 (L2), JoeDirt_78 (L1),

Kahlid_81 (L2), MAckerman_76 (L1), Miley16_81 (L2), MkaliMitinis3_82 (L2), OhShagHennessy_75 (L1), OverPar_82 (L2), Poochiewood_76 (L1), Rumpelstiltskin_78 (L2), Wilder_82 (L2), Winky_81 (L2), Wyatt2_79 (L1), Zakai_82 (L2), Zaria_79 (L1),

Start 35:
• Found in 12 of 223 (5.4%) of genes in pham
• Manual Annotations of this start: 6 of 201
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BrainDrainer_79 (L4), Bromden_79 (L4), Chaser_77 (L4), ChutneyChips_79 (L4), Douge_78 (L4), Douzhi_79 (L4), DyoEdafos_83 (L4), FarmResident_80 (L4), Kropertea_76 (L4), PYPDinur_78 (L4), Quby_79 (L4), Sheng711_80 (L4),

Start 36:
• Found in 7 of 223 (3.1%) of genes in pham
• Manual Annotations of this start: 2 of 201
• Called 28.6% of time when present
• Phage (with cluster) where this start called: Guanica15_53 (K1), LastHope_53 (K1),

Start 37:
• Found in 12 of 223 (5.4%) of genes in pham
• Manual Annotations of this start: 7 of 201
• Called 58.3% of time when present
• Phage (with cluster) where this start called: BoostSeason_54 (K2), DismalFunk_54 (K2), DismalStressor_54 (K2), Doughnut_54 (K2), Findley_54 (K2), Marcoliusprime_54 (K2), Milly_54 (K2),

Start 38:
• Found in 12 of 223 (5.4%) of genes in pham
• Manual Annotations of this start: 4 of 201
• Called 41.7% of time when present
• Phage (with cluster) where this start called: Mufasa_54 (K2), Strobilo_54 (K2), TM4_49 (K2), VWB_44 (BA), ZoeJ_53 (K2),

Start 40:
• Found in 2 of 223 (0.9%) of genes in pham
• No Manual Annotations of this start.
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Nette_42 (T),

Start 43:
• Found in 19 of 223 (8.5%) of genes in pham
• Manual Annotations of this start: 8 of 201
• Called 42.1% of time when present
• Phage (with cluster) where this start called: Aegeus_88 (L5), Baudelaire_88 (L5), Calm_80 (L1), Enceladus_75 (L1), Halena_76 (L1), Silverleaf_78 (L1), Tourach_80 (L2), Tyson_79 (L1),

Start 49:
• Found in 9 of 223 (4.0%) of genes in pham
• Manual Annotations of this start: 1 of 201
• Called 33.3% of time when present

• Phage (with cluster) where this start called: Bluvara_49 (I3), Caterpie_61 (AD), SkinnyPete_42 (N),

Summary by clusters:

There are 21 clusters represented in this pham: singleton, I2, AD, F6, BV, DN2, BA, L4, N, BW, K2, K1, L5, L2, K6, L1, AG, BC3, BX, I3, T,

Info for manual annotations of cluster AD:
•Start number 22 was manually annotated 1 time for cluster AD.

Info for manual annotations of cluster AG:
•Start number 28 was manually annotated 1 time for cluster AG.

Info for manual annotations of cluster BC3:
•Start number 29 was manually annotated 2 times for cluster BC3.

Info for manual annotations of cluster BV:
•Start number 20 was manually annotated 3 times for cluster BV.

Info for manual annotations of cluster BW:
•Start number 20 was manually annotated 4 times for cluster BW.
•Start number 30 was manually annotated 1 time for cluster BW.

Info for manual annotations of cluster DN2:
•Start number 26 was manually annotated 1 time for cluster DN2.

Info for manual annotations of cluster I2:
•Start number 22 was manually annotated 2 times for cluster I2.

Info for manual annotations of cluster K1:
•Start number 28 was manually annotated 108 times for cluster K1.
•Start number 36 was manually annotated 2 times for cluster K1.

Info for manual annotations of cluster K2:
•Start number 37 was manually annotated 7 times for cluster K2.
•Start number 38 was manually annotated 4 times for cluster K2.

Info for manual annotations of cluster K6:
•Start number 28 was manually annotated 12 times for cluster K6.
•Start number 31 was manually annotated 8 times for cluster K6.

Info for manual annotations of cluster L1:
•Start number 34 was manually annotated 8 times for cluster L1.
•Start number 43 was manually annotated 5 times for cluster L1.

Info for manual annotations of cluster L2:
•Start number 34 was manually annotated 16 times for cluster L2.
•Start number 43 was manually annotated 1 time for cluster L2.

Info for manual annotations of cluster L4:
•Start number 35 was manually annotated 6 times for cluster L4.

Info for manual annotations of cluster L5:
•Start number 43 was manually annotated 2 times for cluster L5.

Info for manual annotations of cluster N:
•Start number 22 was manually annotated 3 times for cluster N.
•Start number 49 was manually annotated 1 time for cluster N.

Info for manual annotations of cluster T:
•Start number 31 was manually annotated 1 time for cluster T.

Gene Information:

Gene: Acquire49_78 Start: 52009, Stop: 52314, Start Num: 34
Candidate Starts for Acquire49_78:
(Start: 34 @52009 has 24 MA's), (Start: 43 @52024 has 8 MA's), (55, 52084), (63, 52147), (67, 52174), (89, 52297), (91, 52300),

Gene: ActinUp_50 Start: 37356, Stop: 37619, Start Num: 28
Candidate Starts for ActinUp_50:
(Start: 28 @37356 has 121 MA's), (63, 37497),

Gene: Adephagia_50 Start: 37353, Stop: 37616, Start Num: 28
Candidate Starts for Adephagia_50:
(Start: 28 @37353 has 121 MA's), (63, 37494),

Gene: Adonis_50 Start: 37651, Stop: 37914, Start Num: 28
Candidate Starts for Adonis_50:
(Start: 28 @37651 has 121 MA's), (63, 37792),

Gene: Aegeus_88 Start: 54840, Stop: 55091, Start Num: 43
Candidate Starts for Aegeus_88:
(Start: 43 @54840 has 8 MA's), (55, 54885), (67, 54978), (74, 55032),

Gene: Ageofdapage_52 Start: 38336, Stop: 38599, Start Num: 28
Candidate Starts for Ageofdapage_52:
(5, 38084), (Start: 28 @38336 has 121 MA's), (51, 38390), (63, 38477),

Gene: AlishaPH_50 Start: 37626, Stop: 37889, Start Num: 28
Candidate Starts for AlishaPH_50:
(Start: 28 @37626 has 121 MA's), (63, 37767),

Gene: Amelie_46 Start: 37040, Stop: 37309, Start Num: 28
Candidate Starts for Amelie_46:
(Start: 28 @37040 has 121 MA's), (56, 37136), (65, 37196), (66, 37202), (67, 37205), (71, 37232), (73, 37244), (83, 37298),

Gene: Amgine_51 Start: 38553, Stop: 38807, Start Num: 31

Candidate Starts for Amgine_51:
(11, 38403), (Start: 31 @38553 has 9 MA's), (55, 38619), (70, 38727),

Gene: Anatole_40 Start: 28483, Stop: 28815, Start Num: 20
Candidate Starts for Anatole_40:
(Start: 20 @28483 has 7 MA's), (32, 28510), (47, 28546), (50, 28558), (53, 28570), (58, 28618), (59, 28627), (81, 28753), (90, 28801),

Gene: Anaya_52 Start: 37953, Stop: 38216, Start Num: 28
Candidate Starts for Anaya_52:
(Start: 28 @37953 has 121 MA's), (51, 38007), (63, 38094), (67, 38121),

Gene: Angelica_50 Start: 37583, Stop: 37846, Start Num: 28
Candidate Starts for Angelica_50:
(Start: 28 @37583 has 121 MA's), (63, 37724),

Gene: Anma_51 Start: 38242, Stop: 38505, Start Num: 28
Candidate Starts for Anma_51:
(5, 37990), (Start: 28 @38242 has 121 MA's), (51, 38296), (60, 38365), (63, 38383),

Gene: Apocalypse_53 Start: 38362, Stop: 38625, Start Num: 28
Candidate Starts for Apocalypse_53:
(Start: 28 @38362 has 121 MA's), (63, 38503),

Gene: Applecrisp_50 Start: 38049, Stop: 38303, Start Num: 31
Candidate Starts for Applecrisp_50:
(11, 37899), (Start: 31 @38049 has 9 MA's), (55, 38115), (70, 38223), (77, 38268),

Gene: Appletree2_77 Start: 51620, Stop: 51925, Start Num: 34
Candidate Starts for Appletree2_77:
(Start: 34 @51620 has 24 MA's), (Start: 43 @51635 has 8 MA's), (55, 51695), (63, 51758), (67, 51785), (74, 51839), (89, 51908), (91, 51911),

Gene: Archie_78 Start: 53502, Stop: 53798, Start Num: 34
Candidate Starts for Archie_78:
(Start: 34 @53502 has 24 MA's), (60, 53607), (62, 53619), (67, 53655), (75, 53712),

Gene: Asayake_50 Start: 37668, Stop: 37931, Start Num: 28
Candidate Starts for Asayake_50:
(Start: 28 @37668 has 121 MA's), (63, 37809),

Gene: Atiba_51 Start: 37316, Stop: 37579, Start Num: 28
Candidate Starts for Atiba_51:
(Start: 28 @37316 has 121 MA's), (63, 37457),

Gene: B22_42 Start: 28248, Stop: 28580, Start Num: 20
Candidate Starts for B22_42:
(Start: 20 @28248 has 7 MA's), (32, 28275), (47, 28311), (50, 28323), (53, 28335), (58, 28383), (59, 28392), (81, 28518), (90, 28566),

Gene: B3_39 Start: 27767, Stop: 28099, Start Num: 20
Candidate Starts for B3_39:

(Start: 20 @27767 has 7 MA's), (32, 27794), (47, 27830), (50, 27842), (53, 27854), (58, 27902), (59, 27911), (81, 28037), (90, 28085),

Gene: BEEST_50 Start: 37668, Stop: 37931, Start Num: 28
Candidate Starts for BEEST_50:
(Start: 28 @37668 has 121 MA's), (63, 37809),

Gene: BGlluviae_50 Start: 37471, Stop: 37734, Start Num: 28
Candidate Starts for BGlluviae_50:
(Start: 28 @37471 has 121 MA's), (63, 37612),

Gene: BaghaKamala_49 Start: 36791, Stop: 37054, Start Num: 28
Candidate Starts for BaghaKamala_49:
(Start: 28 @36791 has 121 MA's), (63, 36932),

Gene: BarrelRoll_50 Start: 37339, Stop: 37602, Start Num: 28
Candidate Starts for BarrelRoll_50:
(Start: 28 @37339 has 121 MA's), (63, 37480),

Gene: Baudelaire_88 Start: 54840, Stop: 55091, Start Num: 43
Candidate Starts for Baudelaire_88:
(Start: 43 @54840 has 8 MA's), (55, 54885), (67, 54978), (74, 55032),

Gene: Bazzle_78 Start: 53691, Stop: 53987, Start Num: 34
Candidate Starts for Bazzle_78:
(Start: 34 @53691 has 24 MA's), (Start: 43 @53706 has 8 MA's), (55, 53751), (62, 53808), (63, 53817), (67, 53844), (75, 53901), (80, 53928),

Gene: Beezoo_52 Start: 38314, Stop: 38577, Start Num: 28
Candidate Starts for Beezoo_52:
(Start: 28 @38314 has 121 MA's), (63, 38455),

Gene: Bella96_51 Start: 38180, Stop: 38443, Start Num: 28
Candidate Starts for Bella96_51:
(5, 37928), (Start: 28 @38180 has 121 MA's), (51, 38234), (60, 38303), (63, 38321),

Gene: Belladonna_50 Start: 37471, Stop: 37734, Start Num: 28
Candidate Starts for Belladonna_50:
(Start: 28 @37471 has 121 MA's), (63, 37612),

Gene: Bern_51 Start: 36386, Stop: 36649, Start Num: 28
Candidate Starts for Bern_51:
(Start: 28 @36386 has 121 MA's), (63, 36527),

Gene: Biglebops_46 Start: 37040, Stop: 37309, Start Num: 28
Candidate Starts for Biglebops_46:
(Start: 28 @37040 has 121 MA's), (56, 37136), (65, 37196), (66, 37202), (67, 37205), (71, 37232), (73, 37244), (83, 37298),

Gene: Bioscum_41 Start: 27555, Stop: 27854, Start Num: 29
Candidate Starts for Bioscum_41:
(4, 27267), (7, 27312), (18, 27486), (Start: 29 @27555 has 2 MA's), (67, 27717),

Gene: Blizzard_50 Start: 37668, Stop: 37931, Start Num: 28
Candidate Starts for Blizzard_50:
(Start: 28 @37668 has 121 MA's), (63, 37809),

Gene: Bluvara_49 Start: 36316, Stop: 36546, Start Num: 49
Candidate Starts for Bluvara_49:
(Start: 22 @36247 has 7 MA's), (Start: 27 @36265 has 1 MA's), (46, 36301), (Start: 49 @36316 has 1 MA's), (63, 36412), (71, 36463), (76, 36499), (86, 36532),

Gene: Boiiii_50 Start: 37670, Stop: 37933, Start Num: 28
Candidate Starts for Boiiii_50:
(Start: 28 @37670 has 121 MA's), (63, 37811),

Gene: BoostSeason_54 Start: 39128, Stop: 39364, Start Num: 37
Candidate Starts for BoostSeason_54:
(Start: 37 @39128 has 7 MA's), (Start: 38 @39131 has 4 MA's), (42, 39137), (44, 39143), (60, 39233), (61, 39239), (71, 39302), (83, 39353),

Gene: BrainDrainer_79 Start: 52733, Stop: 53023, Start Num: 35
Candidate Starts for BrainDrainer_79:
(Start: 35 @52733 has 6 MA's), (58, 52817), (60, 52832), (62, 52844), (67, 52880), (70, 52898), (72, 52910), (75, 52937),

Gene: Breezona_81 Start: 53918, Stop: 54214, Start Num: 34
Candidate Starts for Breezona_81:
(Start: 34 @53918 has 24 MA's), (55, 53978), (60, 54023), (62, 54035), (67, 54071), (74, 54125), (75, 54128),

Gene: Bromden_79 Start: 53366, Stop: 53650, Start Num: 35
Candidate Starts for Bromden_79:
(Start: 29 @53357 has 2 MA's), (Start: 35 @53366 has 6 MA's), (55, 53420), (62, 53477), (63, 53486), (67, 53513), (72, 53543), (75, 53570),

Gene: Bryler_54 Start: 37154, Stop: 37411, Start Num: 28
Candidate Starts for Bryler_54:
(Start: 28 @37154 has 121 MA's), (41, 37175), (55, 37229), (63, 37292), (64, 37301), (77, 37379),

Gene: CREW_50 Start: 37471, Stop: 37734, Start Num: 28
Candidate Starts for CREW_50:
(Start: 28 @37471 has 121 MA's), (63, 37612),

Gene: Cain_54 Start: 37142, Stop: 37399, Start Num: 28
Candidate Starts for Cain_54:
(Start: 28 @37142 has 121 MA's), (41, 37163), (55, 37217), (63, 37280), (64, 37289), (77, 37367),

Gene: CallaLilly_50 Start: 37394, Stop: 37657, Start Num: 28
Candidate Starts for CallaLilly_50:
(Start: 28 @37394 has 121 MA's), (63, 37535),

Gene: Calm_80 Start: 52346, Stop: 52636, Start Num: 43
Candidate Starts for Calm_80:
(Start: 34 @52331 has 24 MA's), (Start: 43 @52346 has 8 MA's), (55, 52406), (63, 52469), (67, 52496), (89, 52619), (91, 52622),

Gene: Capricorn_50 Start: 37471, Stop: 37734, Start Num: 28
Candidate Starts for Capricorn_50:
(Start: 28 @37471 has 121 MA's), (63, 37612),

Gene: CaseJules_52 Start: 37668, Stop: 37931, Start Num: 28
Candidate Starts for CaseJules_52:
(Start: 28 @37668 has 121 MA's), (63, 37809),

Gene: Caterpie_61 Start: 46837, Stop: 47067, Start Num: 49
Candidate Starts for Caterpie_61:
(Start: 22 @46768 has 7 MA's), (Start: 27 @46786 has 1 MA's), (46, 46822), (Start: 49 @46837 has 1 MA's), (63, 46933), (71, 46984), (76, 47020), (86, 47053), (87, 47059),

Gene: Charlie_44 Start: 30217, Stop: 30516, Start Num: 22
Candidate Starts for Charlie_44:
(Start: 22 @30217 has 7 MA's), (Start: 27 @30235 has 1 MA's), (46, 30271), (Start: 49 @30286 has 1 MA's), (63, 30382), (71, 30433), (76, 30469), (86, 30502), (87, 30508),

Gene: Chaser_77 Start: 52365, Stop: 52655, Start Num: 35
Candidate Starts for Chaser_77:
(Start: 35 @52365 has 6 MA's), (Start: 43 @52374 has 8 MA's), (55, 52419), (60, 52464), (62, 52476), (67, 52512), (70, 52530), (75, 52569),

Gene: CheetoDust_49 Start: 36840, Stop: 37103, Start Num: 28
Candidate Starts for CheetoDust_49:
(Start: 28 @36840 has 121 MA's), (63, 36981),

Gene: ChutneyChips_79 Start: 52710, Stop: 52994, Start Num: 35
Candidate Starts for ChutneyChips_79:
(Start: 35 @52710 has 6 MA's), (55, 52764), (60, 52809), (62, 52821), (67, 52857), (70, 52875), (72, 52887),

Gene: Chymera_48 Start: 30948, Stop: 31208, Start Num: 22
Candidate Starts for Chymera_48:
(Start: 22 @30948 has 7 MA's), (23, 30954), (25, 30960), (71, 31149),

Gene: Claus_80 Start: 53853, Stop: 54149, Start Num: 34
Candidate Starts for Claus_80:
(Start: 34 @53853 has 24 MA's), (55, 53913), (60, 53958), (62, 53970), (67, 54006), (73, 54048), (74, 54060), (75, 54063),

Gene: Clipper_53 Start: 37987, Stop: 38250, Start Num: 28
Candidate Starts for Clipper_53:
(Start: 28 @37987 has 121 MA's), (63, 38128),

Gene: CrimD_50 Start: 37577, Stop: 37840, Start Num: 28
Candidate Starts for CrimD_50:
(Start: 28 @37577 has 121 MA's), (51, 37631), (63, 37718),

Gene: Curiosium_52 Start: 36255, Stop: 36521, Start Num: 28
Candidate Starts for Curiosium_52:

(Start: 28 @36255 has 121 MA's), (Start: 36 @36267 has 2 MA's), (51, 36312), (63, 36399), (77, 36489),

Gene: Dalmuri_50 Start: 37471, Stop: 37734, Start Num: 28
Candidate Starts for Dalmuri_50:
(Start: 28 @37471 has 121 MA's), (63, 37612),

Gene: DartGoblin_52 Start: 38152, Stop: 38415, Start Num: 28
Candidate Starts for DartGoblin_52:
(5, 37900), (Start: 28 @38152 has 121 MA's), (51, 38206), (60, 38275), (63, 38293),

Gene: Dartin_53 Start: 38285, Stop: 38548, Start Num: 28
Candidate Starts for Dartin_53:
(1, 37805), (2, 37961), (5, 38030), (Start: 28 @38285 has 121 MA's), (57, 38387), (60, 38405), (63, 38423), (71, 38477), (77, 38513), (83, 38537),

Gene: Deby_50 Start: 37599, Stop: 37862, Start Num: 28
Candidate Starts for Deby_50:
(Start: 28 @37599 has 121 MA's), (51, 37653), (63, 37740),

Gene: Devera_55 Start: 38103, Stop: 38366, Start Num: 28
Candidate Starts for Devera_55:
(5, 37851), (Start: 28 @38103 has 121 MA's), (51, 38157), (63, 38244),

Gene: DirkDirk_75 Start: 51200, Stop: 51505, Start Num: 34
Candidate Starts for DirkDirk_75:
(Start: 34 @51200 has 24 MA's), (Start: 43 @51215 has 8 MA's), (55, 51275), (63, 51338), (67, 51365), (74, 51419), (89, 51488), (91, 51491),

Gene: DismalFunk_54 Start: 39559, Stop: 39792, Start Num: 37
Candidate Starts for DismalFunk_54:
(Start: 37 @39559 has 7 MA's), (Start: 38 @39562 has 4 MA's), (42, 39568), (44, 39574), (60, 39664), (61, 39670), (71, 39733),

Gene: DismalStressor_54 Start: 39559, Stop: 39792, Start Num: 37
Candidate Starts for DismalStressor_54:
(Start: 37 @39559 has 7 MA's), (Start: 38 @39562 has 4 MA's), (42, 39568), (44, 39574), (60, 39664), (61, 39670), (71, 39733),

Gene: Dole_53 Start: 38105, Stop: 38368, Start Num: 28
Candidate Starts for Dole_53:
(5, 37853), (Start: 28 @38105 has 121 MA's), (51, 38159), (63, 38246),

Gene: Doucette_43 Start: 29654, Stop: 29986, Start Num: 20
Candidate Starts for Doucette_43:
(Start: 20 @29654 has 7 MA's), (32, 29681), (47, 29717), (50, 29729), (53, 29741), (58, 29789), (59, 29798), (67, 29849), (81, 29924), (90, 29972),

Gene: Douge_78 Start: 52288, Stop: 52587, Start Num: 35
Candidate Starts for Douge_78:
(Start: 35 @52288 has 6 MA's), (51, 52318), (55, 52342), (62, 52399), (63, 52408), (67, 52435), (72, 52465),

Gene: Doughnut_54 Start: 39169, Stop: 39405, Start Num: 37
Candidate Starts for Doughnut_54:
(Start: 37 @39169 has 7 MA's), (Start: 38 @39172 has 4 MA's), (42, 39178), (44, 39184), (60, 39274), (61, 39280), (71, 39343), (83, 39394),

Gene: Douzhi_79 Start: 52550, Stop: 52840, Start Num: 35
Candidate Starts for Douzhi_79:
(Start: 35 @52550 has 6 MA's), (58, 52634), (60, 52649), (62, 52661), (67, 52697), (72, 52727), (75, 52754),

Gene: DrHayes_51 Start: 38242, Stop: 38505, Start Num: 28
Candidate Starts for DrHayes_51:
(5, 37990), (Start: 28 @38242 has 121 MA's), (51, 38296), (60, 38365), (63, 38383),

Gene: Durfee_50 Start: 37668, Stop: 37931, Start Num: 28
Candidate Starts for Durfee_50:
(Start: 28 @37668 has 121 MA's), (63, 37809),

Gene: DyoEdafos_83 Start: 53198, Stop: 53488, Start Num: 35
Candidate Starts for DyoEdafos_83:
(Start: 35 @53198 has 6 MA's), (51, 53228), (55, 53252), (62, 53309), (63, 53318), (67, 53345), (72, 53375), (75, 53402),

Gene: E1_40 Start: 28483, Stop: 28815, Start Num: 20
Candidate Starts for E1_40:
(Start: 20 @28483 has 7 MA's), (32, 28510), (47, 28546), (50, 28558), (53, 28570), (58, 28618), (59, 28627), (81, 28753), (90, 28801),

Gene: E6_44 Start: 31064, Stop: 31396, Start Num: 20
Candidate Starts for E6_44:
(Start: 20 @31064 has 7 MA's), (32, 31091), (47, 31127), (50, 31139), (58, 31199), (59, 31208), (81, 31334), (90, 31382),

Gene: Efra2_53 Start: 37187, Stop: 37450, Start Num: 28
Candidate Starts for Efra2_53:
(Start: 28 @37187 has 121 MA's), (Start: 36 @37199 has 2 MA's), (60, 37310), (63, 37328),

Gene: Ekdilam_50 Start: 37991, Stop: 38245, Start Num: 31
Candidate Starts for Ekdilam_50:
(3, 37673), (6, 37742), (11, 37838), (Start: 31 @37991 has 9 MA's), (63, 38120), (70, 38165),

Gene: Ellie_49 Start: 37741, Stop: 37995, Start Num: 31
Candidate Starts for Ellie_49:
(11, 37591), (Start: 31 @37741 has 9 MA's), (55, 37807), (70, 37915), (77, 37960),

Gene: Emerson_51 Start: 37347, Stop: 37610, Start Num: 28
Candidate Starts for Emerson_51:
(Start: 28 @37347 has 121 MA's), (63, 37488),

Gene: Enceladus_75 Start: 51992, Stop: 52282, Start Num: 43
Candidate Starts for Enceladus_75:
(Start: 34 @51977 has 24 MA's), (Start: 43 @51992 has 8 MA's), (55, 52052), (63, 52115), (67, 52142), (74, 52196), (89, 52265), (91, 52268),

Gene: Enkosi_48 Start: 39653, Stop: 39922, Start Num: 28
Candidate Starts for Enkosi_48:
(Start: 28 @39653 has 121 MA's), (56, 39749), (65, 39809), (66, 39815), (67, 39818), (71, 39845), (73, 39857), (83, 39911),

Gene: Faith1_81 Start: 53918, Stop: 54214, Start Num: 34
Candidate Starts for Faith1_81:
(Start: 34 @53918 has 24 MA's), (55, 53978), (60, 54023), (62, 54035), (67, 54071), (74, 54125), (75, 54128),

Gene: FarmResident_80 Start: 52292, Stop: 52576, Start Num: 35
Candidate Starts for FarmResident_80:
(Start: 35 @52292 has 6 MA's), (55, 52346), (60, 52391), (62, 52403), (67, 52439), (70, 52457), (75, 52496),

Gene: Fefferhead_51 Start: 37691, Stop: 37945, Start Num: 31
Candidate Starts for Fefferhead_51:
(11, 37541), (Start: 31 @37691 has 9 MA's), (55, 37757), (70, 37865), (77, 37910),

Gene: Findley_54 Start: 39552, Stop: 39785, Start Num: 37
Candidate Starts for Findley_54:
(Start: 37 @39552 has 7 MA's), (Start: 38 @39555 has 4 MA's), (42, 39561), (44, 39567), (60, 39657), (61, 39663), (71, 39726),

Gene: Finemlucis_80 Start: 54386, Stop: 54682, Start Num: 34
Candidate Starts for Finemlucis_80:
(Start: 34 @54386 has 24 MA's), (63, 54512), (67, 54539), (72, 54569), (74, 54593),

Gene: G4_41 Start: 28598, Stop: 28930, Start Num: 20
Candidate Starts for G4_41:
(Start: 20 @28598 has 7 MA's), (32, 28625), (47, 28661), (50, 28673), (58, 28733), (59, 28742), (81, 28868), (88, 28907), (90, 28916),

Gene: G4_48 Start: 30679, Stop: 30978, Start Num: 30
Candidate Starts for G4_48:
(8, 30469), (9, 30493), (10, 30508), (13, 30535), (Start: 30 @30679 has 1 MA's), (39, 30694), (41, 30697), (45, 30706), (47, 30718), (60, 30802), (63, 30820), (77, 30904), (78, 30916), (82, 30931), (90, 30970),

Gene: Ganymede_51 Start: 37786, Stop: 38049, Start Num: 28
Candidate Starts for Ganymede_51:
(Start: 28 @37786 has 121 MA's), (63, 37927),

Gene: Gardann_81 Start: 53753, Stop: 54049, Start Num: 34
Candidate Starts for Gardann_81:
(Start: 34 @53753 has 24 MA's), (55, 53813), (60, 53858), (62, 53870), (67, 53906), (74, 53960), (75, 53963),

Gene: Geraldini_53 Start: 38403, Stop: 38666, Start Num: 28
Candidate Starts for Geraldini_53:
(Start: 28 @38403 has 121 MA's), (51, 38457), (52, 38463), (63, 38544),

Gene: Guanica15_53 Start: 37156, Stop: 37407, Start Num: 36
Candidate Starts for Guanica15_53:
(Start: 28 @37144 has 121 MA's), (Start: 36 @37156 has 2 MA's), (60, 37267), (63, 37285),

Gene: Halena_76 Start: 51262, Stop: 51552, Start Num: 43
Candidate Starts for Halena_76:
(Start: 34 @51247 has 24 MA's), (Start: 43 @51262 has 8 MA's), (55, 51322), (63, 51385), (67, 51412), (89, 51535), (91, 51538),

Gene: HedwigODU_50 Start: 37356, Stop: 37619, Start Num: 28
Candidate Starts for HedwigODU_50:
(Start: 28 @37356 has 121 MA's), (63, 37497),

Gene: Homura_50 Start: 37471, Stop: 37734, Start Num: 28
Candidate Starts for Homura_50:
(Start: 28 @37471 has 121 MA's), (63, 37612),

Gene: Hyperbowlee_50 Start: 37668, Stop: 37931, Start Num: 28
Candidate Starts for Hyperbowlee_50:
(Start: 28 @37668 has 121 MA's), (63, 37809),

Gene: Ididsumtinwong_41 Start: 27555, Stop: 27854, Start Num: 29
Candidate Starts for Ididsumtinwong_41:
(4, 27267), (7, 27312), (18, 27486), (Start: 29 @27555 has 2 MA's), (67, 27717),

Gene: Illumine_53 Start: 38105, Stop: 38368, Start Num: 28
Candidate Starts for Illumine_53:
(5, 37853), (Start: 28 @38105 has 121 MA's), (51, 38159), (63, 38246),

Gene: Inky_50 Start: 37471, Stop: 37734, Start Num: 28
Candidate Starts for Inky_50:
(Start: 28 @37471 has 121 MA's), (63, 37612),

Gene: Itos_80 Start: 52824, Stop: 53120, Start Num: 34
Candidate Starts for Itos_80:
(Start: 34 @52824 has 24 MA's), (55, 52884), (60, 52929), (62, 52941), (67, 52977), (74, 53031), (75, 53034),

Gene: JAWS_50 Start: 37345, Stop: 37608, Start Num: 28
Candidate Starts for JAWS_50:
(Start: 28 @37345 has 121 MA's), (63, 37486),

Gene: Jarvi_50 Start: 37471, Stop: 37734, Start Num: 28
Candidate Starts for Jarvi_50:
(Start: 28 @37471 has 121 MA's), (63, 37612),

Gene: Jayhawk_51 Start: 37354, Stop: 37617, Start Num: 28
Candidate Starts for Jayhawk_51:
(Start: 28 @37354 has 121 MA's), (63, 37495),

Gene: Jeckyll_50 Start: 37471, Stop: 37734, Start Num: 28
Candidate Starts for Jeckyll_50:
(Start: 28 @37471 has 121 MA's), (63, 37612),

Gene: JoeDirt_78 Start: 52575, Stop: 52880, Start Num: 34
Candidate Starts for JoeDirt_78:
(Start: 34 @52575 has 24 MA's), (Start: 43 @52590 has 8 MA's), (55, 52650), (63, 52713), (67, 52740), (74, 52794), (89, 52863), (91, 52866),

Gene: Journey_43 Start: 30217, Stop: 30516, Start Num: 22
Candidate Starts for Journey_43:
(Start: 22 @30217 has 7 MA's), (Start: 27 @30235 has 1 MA's), (46, 30271), (Start: 49 @30286 has 1 MA's), (63, 30382), (71, 30433), (76, 30469), (86, 30502), (87, 30508),

Gene: Joy99_50 Start: 37400, Stop: 37663, Start Num: 28
Candidate Starts for Joy99_50:
(Start: 28 @37400 has 121 MA's), (63, 37541),

Gene: Kahlid_81 Start: 53924, Stop: 54220, Start Num: 34
Candidate Starts for Kahlid_81:
(Start: 34 @53924 has 24 MA's), (55, 53984), (60, 54029), (62, 54041), (67, 54077), (74, 54131), (75, 54134),

Gene: Kheparia_50 Start: 35485, Stop: 35748, Start Num: 28
Candidate Starts for Kheparia_50:
(Start: 28 @35485 has 121 MA's), (60, 35608), (63, 35626),

Gene: Kropertea_76 Start: 52480, Stop: 52770, Start Num: 35
Candidate Starts for Kropertea_76:
(Start: 35 @52480 has 6 MA's), (51, 52510), (55, 52534), (62, 52591), (63, 52600), (67, 52627), (72, 52657), (75, 52684),

Gene: Krueger_57 Start: 38145, Stop: 38396, Start Num: 28
Candidate Starts for Krueger_57:
(Start: 28 @38145 has 121 MA's), (33, 38151), (60, 38265), (61, 38271), (63, 38283),

Gene: LastHope_53 Start: 36640, Stop: 36891, Start Num: 36
Candidate Starts for LastHope_53:
(Start: 28 @36628 has 121 MA's), (Start: 36 @36640 has 2 MA's), (51, 36682), (60, 36751), (63, 36769),

Gene: LaterM_51 Start: 38233, Stop: 38496, Start Num: 28
Candidate Starts for LaterM_51:
(Start: 28 @38233 has 121 MA's), (51, 38287), (63, 38374),

Gene: Lavahound_50 Start: 38674, Stop: 38928, Start Num: 31
Candidate Starts for Lavahound_50:
(11, 38524), (Start: 31 @38674 has 9 MA's), (55, 38740), (70, 38848),

Gene: LilPharaoh_46 Start: 36768, Stop: 37037, Start Num: 28
Candidate Starts for LilPharaoh_46:
(Start: 28 @36768 has 121 MA's), (56, 36864), (65, 36924), (66, 36930), (67, 36933), (71, 36960), (73, 36972), (83, 37026),

Gene: LindNT_49 Start: 37556, Stop: 37819, Start Num: 28
Candidate Starts for LindNT_49:

(Start: 28 @37556 has 121 MA's), (51, 37610), (63, 37697),

Gene: Llorens_50 Start: 37471, Stop: 37734, Start Num: 28
Candidate Starts for Llorens_50:
(Start: 28 @37471 has 121 MA's), (63, 37612),

Gene: Lokum_51 Start: 37472, Stop: 37735, Start Num: 28
Candidate Starts for Lokum_51:
(Start: 28 @37472 has 121 MA's), (63, 37613),

Gene: Lunahalos_50 Start: 37471, Stop: 37734, Start Num: 28
Candidate Starts for Lunahalos_50:
(Start: 28 @37471 has 121 MA's), (63, 37612),

Gene: MAckerman_76 Start: 51240, Stop: 51545, Start Num: 34
Candidate Starts for MAckerman_76:
(Start: 34 @51240 has 24 MA's), (Start: 43 @51255 has 8 MA's), (55, 51315), (63, 51378), (67, 51405), (89, 51528), (91, 51531),

Gene: MacKat_45 Start: 32871, Stop: 33134, Start Num: 28
Candidate Starts for MacKat_45:
(Start: 28 @32871 has 121 MA's), (63, 33012),

Gene: Marcoliusprime_54 Start: 39559, Stop: 39792, Start Num: 37
Candidate Starts for Marcoliusprime_54:
(Start: 37 @39559 has 7 MA's), (Start: 38 @39562 has 4 MA's), (42, 39568), (44, 39574), (60, 39664), (61, 39670), (71, 39733),

Gene: MarkPhew_54 Start: 38124, Stop: 38393, Start Num: 28
Candidate Starts for MarkPhew_54:
(Start: 28 @38124 has 121 MA's), (48, 38151), (51, 38166), (55, 38190), (70, 38298), (85, 38382),

Gene: McMater_53 Start: 38285, Stop: 38548, Start Num: 28
Candidate Starts for McMater_53:
(1, 37805), (2, 37961), (5, 38030), (Start: 28 @38285 has 121 MA's), (57, 38387), (60, 38405), (63, 38423), (71, 38477), (77, 38513), (83, 38537),

Gene: Mdavu_47 Start: 37029, Stop: 37298, Start Num: 28
Candidate Starts for Mdavu_47:
(Start: 28 @37029 has 121 MA's), (56, 37125), (65, 37185), (66, 37191), (67, 37194), (71, 37221), (73, 37233), (83, 37287),

Gene: MeaningOfLife_51 Start: 38280, Stop: 38543, Start Num: 28
Candidate Starts for MeaningOfLife_51:
(Start: 28 @38280 has 121 MA's), (63, 38421),

Gene: Megsy_52 Start: 37615, Stop: 37878, Start Num: 28
Candidate Starts for Megsy_52:
(Start: 28 @37615 has 121 MA's), (51, 37669), (63, 37756),

Gene: Mendokysei_39 Start: 30983, Stop: 31297, Start Num: 31
Candidate Starts for Mendokysei_39:
(Start: 31 @30983 has 9 MA's), (40, 30998), (51, 31037),

Gene: Miley16_81 Start: 53918, Stop: 54214, Start Num: 34
Candidate Starts for Miley16_81:
(Start: 34 @53918 has 24 MA's), (55, 53978), (60, 54023), (62, 54035), (67, 54071), (74, 54125), (75, 54128),

Gene: Milly_54 Start: 39532, Stop: 39765, Start Num: 37
Candidate Starts for Milly_54:
(Start: 37 @39532 has 7 MA's), (Start: 38 @39535 has 4 MA's), (42, 39541), (44, 39547), (60, 39637), (61, 39643), (71, 39706),

Gene: MkaliMitinis3_82 Start: 53987, Stop: 54283, Start Num: 34
Candidate Starts for MkaliMitinis3_82:
(Start: 34 @53987 has 24 MA's), (55, 54047), (60, 54092), (62, 54104), (67, 54140), (74, 54194), (75, 54197),

Gene: Mufasa_54 Start: 39116, Stop: 39349, Start Num: 38
Candidate Starts for Mufasa_54:
(Start: 37 @39113 has 7 MA's), (Start: 38 @39116 has 4 MA's), (42, 39122), (44, 39128), (60, 39218), (61, 39224), (71, 39287), (83, 39338),

Gene: Murucutumbu_51 Start: 38326, Stop: 38589, Start Num: 28
Candidate Starts for Murucutumbu_51:
(5, 38074), (Start: 28 @38326 has 121 MA's), (51, 38380), (63, 38467),

Gene: Mynx_51 Start: 37672, Stop: 37935, Start Num: 28
Candidate Starts for Mynx_51:
(Start: 28 @37672 has 121 MA's), (63, 37813),

Gene: Nergal_48 Start: 36024, Stop: 36272, Start Num: 28
Candidate Starts for Nergal_48:
(Start: 28 @36024 has 121 MA's), (60, 36138), (63, 36156), (68, 36189), (77, 36246),

Gene: Nette_42 Start: 31007, Stop: 31306, Start Num: 40
Candidate Starts for Nette_42:
(Start: 31 @30992 has 9 MA's), (40, 31007), (51, 31046),

Gene: Nibb_53 Start: 37813, Stop: 38082, Start Num: 28
Candidate Starts for Nibb_53:
(Start: 28 @37813 has 121 MA's), (48, 37840), (70, 37987), (85, 38071),

Gene: Nikao_49 Start: 39653, Stop: 39922, Start Num: 28
Candidate Starts for Nikao_49:
(Start: 28 @39653 has 121 MA's), (56, 39749), (65, 39809), (66, 39815), (67, 39818), (71, 39845), (73, 39857), (83, 39911),

Gene: Niklas_53 Start: 38346, Stop: 38609, Start Num: 28
Candidate Starts for Niklas_53:
(1, 37866), (2, 38022), (5, 38091), (Start: 28 @38346 has 121 MA's), (57, 38448), (60, 38466), (63, 38484), (71, 38538), (77, 38574), (83, 38598),

Gene: November_51 Start: 38195, Stop: 38449, Start Num: 31
Candidate Starts for November_51:

(3, 37877), (6, 37946), (11, 38042), (Start: 31 @38195 has 9 MA's), (55, 38261), (63, 38324), (70, 38369),

Gene: Nutello_46 Start: 37040, Stop: 37309, Start Num: 28
Candidate Starts for Nutello_46:
(Start: 28 @37040 has 121 MA's), (56, 37136), (65, 37196), (66, 37202), (67, 37205), (71, 37232), (73, 37244), (83, 37298),

Gene: OhShagHennessy_75 Start: 51278, Stop: 51583, Start Num: 34
Candidate Starts for OhShagHennessy_75:
(Start: 34 @51278 has 24 MA's), (Start: 43 @51293 has 8 MA's), (55, 51353), (63, 51416), (67, 51443), (74, 51497), (89, 51566), (91, 51569),

Gene: Oscar_55 Start: 38567, Stop: 38842, Start Num: 28
Candidate Starts for Oscar_55:
(Start: 28 @38567 has 121 MA's), (33, 38573), (51, 38615), (55, 38639), (70, 38747), (85, 38831),

Gene: OverPar_82 Start: 54003, Stop: 54299, Start Num: 34
Candidate Starts for OverPar_82:
(Start: 34 @54003 has 24 MA's), (55, 54063), (60, 54108), (62, 54120), (67, 54156), (74, 54210), (75, 54213),

Gene: PFR1_37 Start: 28506, Stop: 28805, Start Num: 30
Candidate Starts for PFR1_37:
(13, 28362), (Start: 30 @28506 has 1 MA's), (39, 28521), (41, 28524), (45, 28533), (47, 28545), (60, 28629), (63, 28647), (67, 28674), (77, 28731), (78, 28743), (82, 28758), (90, 28797),

Gene: PFR2_39 Start: 30075, Stop: 30374, Start Num: 30
Candidate Starts for PFR2_39:
(13, 29931), (Start: 30 @30075 has 1 MA's), (39, 30090), (41, 30093), (45, 30102), (47, 30114), (60, 30198), (63, 30216), (67, 30243), (77, 30300), (78, 30312), (82, 30327), (90, 30366),

Gene: PYPDinur_78 Start: 52985, Stop: 53275, Start Num: 35
Candidate Starts for PYPDinur_78:
(Start: 35 @52985 has 6 MA's), (58, 53069), (60, 53084), (62, 53096), (67, 53132), (70, 53150), (72, 53162), (75, 53189),

Gene: Padfoot_50 Start: 37668, Stop: 37931, Start Num: 28
Candidate Starts for Padfoot_50:
(Start: 28 @37668 has 121 MA's), (63, 37809),

Gene: Padpat_52 Start: 37347, Stop: 37610, Start Num: 28
Candidate Starts for Padpat_52:
(Start: 28 @37347 has 121 MA's), (63, 37488),

Gene: Peanam_53 Start: 38304, Stop: 38567, Start Num: 28
Candidate Starts for Peanam_53:
(1, 37824), (2, 37980), (5, 38049), (Start: 28 @38304 has 121 MA's), (57, 38406), (60, 38424), (63, 38442), (71, 38496), (77, 38532), (83, 38556),

Gene: Peel_50 Start: 37473, Stop: 37736, Start Num: 28
Candidate Starts for Peel_50:
(Start: 28 @37473 has 121 MA's), (63, 37614),

Gene: Phrank_54 Start: 37132, Stop: 37389, Start Num: 28
Candidate Starts for Phrank_54:
(Start: 28 @37132 has 121 MA's), (41, 37153), (55, 37207), (63, 37270), (64, 37279), (77, 37357),

Gene: Piatt_50 Start: 37668, Stop: 37931, Start Num: 28
Candidate Starts for Piatt_50:
(Start: 28 @37668 has 121 MA's), (63, 37809),

Gene: Pisa1_50 Start: 38627, Stop: 38890, Start Num: 28
Candidate Starts for Pisa1_50:
(Start: 28 @38627 has 121 MA's), (51, 38681), (63, 38768),

Gene: Pisa4_44 Start: 33996, Stop: 34259, Start Num: 28
Candidate Starts for Pisa4_44:
(Start: 28 @33996 has 121 MA's), (51, 34050), (63, 34137),

Gene: Pokerus_49 Start: 37394, Stop: 37657, Start Num: 28
Candidate Starts for Pokerus_49:
(Start: 28 @37394 has 121 MA's), (51, 37448), (63, 37535),

Gene: Poochiewood_76 Start: 52583, Stop: 52888, Start Num: 34
Candidate Starts for Poochiewood_76:
(Start: 34 @52583 has 24 MA's), (Start: 43 @52598 has 8 MA's), (55, 52658), (63, 52721), (67, 52748), (74, 52802), (89, 52871), (91, 52874),

Gene: Prithvi_51 Start: 37556, Stop: 37819, Start Num: 28
Candidate Starts for Prithvi_51:
(Start: 28 @37556 has 121 MA's), (51, 37610), (63, 37697),

Gene: Quby_79 Start: 52316, Stop: 52600, Start Num: 35
Candidate Starts for Quby_79:
(Start: 35 @52316 has 6 MA's), (60, 52415), (62, 52427), (67, 52463), (70, 52481), (75, 52520),

Gene: QuincyRose_49 Start: 37786, Stop: 38049, Start Num: 28
Candidate Starts for QuincyRose_49:
(Start: 28 @37786 has 121 MA's), (63, 37927),

Gene: Ramen_51 Start: 37358, Stop: 37621, Start Num: 28
Candidate Starts for Ramen_51:
(Start: 28 @37358 has 121 MA's), (63, 37499),

Gene: Rapunzel97_51 Start: 37354, Stop: 37617, Start Num: 28
Candidate Starts for Rapunzel97_51:
(Start: 28 @37354 has 121 MA's), (63, 37495),

Gene: Richo_53 Start: 38285, Stop: 38548, Start Num: 28
Candidate Starts for Richo_53:
(1, 37805), (2, 37961), (5, 38030), (Start: 28 @38285 has 121 MA's), (57, 38387), (60, 38405), (63, 38423), (71, 38477), (77, 38513), (83, 38537),

Gene: Rosmarinus_50 Start: 37459, Stop: 37722, Start Num: 28
Candidate Starts for Rosmarinus_50:

(Start: 28 @37459 has 121 MA's), (63, 37600),

Gene: Rumpelstiltskin_78 Start: 53546, Stop: 53842, Start Num: 34
Candidate Starts for Rumpelstiltskin_78:
(Start: 34 @53546 has 24 MA's), (55, 53606), (60, 53651), (62, 53663), (67, 53699), (74, 53753), (75, 53756),

Gene: SamuelLPlaqson_51 Start: 38242, Stop: 38505, Start Num: 28
Candidate Starts for SamuelLPlaqson_51:
(5, 37990), (Start: 28 @38242 has 121 MA's), (51, 38296), (60, 38365), (63, 38383),

Gene: Sbash_53 Start: 39707, Stop: 40006, Start Num: 22
Candidate Starts for Sbash_53:
(Start: 22 @39707 has 7 MA's), (Start: 27 @39725 has 1 MA's), (46, 39761), (Start: 49 @39776 has 1 MA's), (63, 39872), (71, 39923), (76, 39959), (87, 39998),

Gene: Scarlett_55 Start: 38559, Stop: 38834, Start Num: 28
Candidate Starts for Scarlett_55:
(Start: 28 @38559 has 121 MA's), (33, 38565), (51, 38607), (55, 38631), (70, 38739), (85, 38823),

Gene: Sejanus_58 Start: 47696, Stop: 47995, Start Num: 22
Candidate Starts for Sejanus_58:
(Start: 22 @47696 has 7 MA's), (Start: 27 @47714 has 1 MA's), (46, 47750), (Start: 49 @47765 has 1 MA's), (63, 47861), (71, 47912), (76, 47948), (86, 47981), (87, 47987),

Gene: SgtBeansprout_46 Start: 37040, Stop: 37309, Start Num: 28
Candidate Starts for SgtBeansprout_46:
(Start: 28 @37040 has 121 MA's), (56, 37136), (65, 37196), (66, 37202), (67, 37205), (71, 37232), (73, 37244), (83, 37298),

Gene: Shadow1_56 Start: 38290, Stop: 38541, Start Num: 28
Candidate Starts for Shadow1_56:
(Start: 28 @38290 has 121 MA's), (33, 38296), (63, 38428),

Gene: Shaobing_53 Start: 38322, Stop: 38585, Start Num: 28
Candidate Starts for Shaobing_53:
(1, 37842), (2, 37998), (5, 38067), (Start: 28 @38322 has 121 MA's), (57, 38424), (60, 38442), (63, 38460), (71, 38514), (77, 38550), (83, 38574),

Gene: Sheng711_80 Start: 52619, Stop: 52909, Start Num: 35
Candidate Starts for Sheng711_80:
(Start: 35 @52619 has 6 MA's), (58, 52703), (62, 52730), (67, 52766), (70, 52784), (72, 52796), (75, 52823),

Gene: ShiaSurprise_51 Start: 37668, Stop: 37931, Start Num: 28
Candidate Starts for ShiaSurprise_51:
(Start: 28 @37668 has 121 MA's), (63, 37809),

Gene: Shweta_42 Start: 30626, Stop: 30925, Start Num: 22
Candidate Starts for Shweta_42:
(Start: 22 @30626 has 7 MA's), (Start: 27 @30644 has 1 MA's), (46, 30680), (Start: 49 @30695 has 1 MA's), (63, 30791), (71, 30842), (76, 30878), (86, 30911),

Gene: Silverleaf_78 Start: 51891, Stop: 52181, Start Num: 43
Candidate Starts for Silverleaf_78:
(Start: 34 @51876 has 24 MA's), (Start: 43 @51891 has 8 MA's), (55, 51951), (63, 52014), (67, 52041), (89, 52164), (91, 52167),

Gene: SirPhilip_53 Start: 38679, Stop: 38936, Start Num: 28
Candidate Starts for SirPhilip_53:
(Start: 28 @38679 has 121 MA's), (60, 38799), (62, 38808), (63, 38817), (73, 38880), (77, 38904),

Gene: SkinnyPete_42 Start: 29948, Stop: 30178, Start Num: 49
Candidate Starts for SkinnyPete_42:
(Start: 22 @29879 has 7 MA's), (Start: 27 @29897 has 1 MA's), (46, 29933), (Start: 49 @29948 has 1 MA's), (63, 30044), (71, 30095), (76, 30131), (86, 30164), (87, 30170),

Gene: Slimphazie_50 Start: 37354, Stop: 37617, Start Num: 28
Candidate Starts for Slimphazie_50:
(Start: 28 @37354 has 121 MA's), (63, 37495),

Gene: Spock_50 Start: 37472, Stop: 37735, Start Num: 28
Candidate Starts for Spock_50:
(Start: 28 @37472 has 121 MA's), (63, 37613),

Gene: Squiddly_71 Start: 45719, Stop: 45979, Start Num: 26
Candidate Starts for Squiddly_71:
(19, 45680), (Start: 26 @45719 has 1 MA's), (51, 45782), (54, 45794), (60, 45851), (67, 45896), (84, 45971),

Gene: Stinson_51 Start: 37846, Stop: 38109, Start Num: 28
Candidate Starts for Stinson_51:
(5, 37594), (Start: 28 @37846 has 121 MA's), (51, 37900), (63, 37987),

Gene: Strobilo_54 Start: 39537, Stop: 39767, Start Num: 38
Candidate Starts for Strobilo_54:
(Start: 37 @39534 has 7 MA's), (Start: 38 @39537 has 4 MA's), (42, 39543), (44, 39549), (60, 39639), (61, 39645), (71, 39708),

Gene: Stuck_56 Start: 41100, Stop: 41399, Start Num: 22
Candidate Starts for Stuck_56:
(Start: 22 @41100 has 7 MA's), (Start: 27 @41118 has 1 MA's), (46, 41154), (Start: 49 @41169 has 1 MA's), (63, 41265), (71, 41316), (76, 41352), (86, 41385),

Gene: Sulley_50 Start: 37598, Stop: 37861, Start Num: 28
Candidate Starts for Sulley_50:
(Start: 28 @37598 has 121 MA's), (63, 37739),

Gene: Sunflower1121_57 Start: 38391, Stop: 38642, Start Num: 28
Candidate Starts for Sunflower1121_57:
(Start: 28 @38391 has 121 MA's), (33, 38397), (63, 38529),

Gene: Syra333_56 Start: 38055, Stop: 38306, Start Num: 28
Candidate Starts for Syra333_56:
(Start: 28 @38055 has 121 MA's), (33, 38061), (61, 38181), (63, 38193),

Gene: TClif_54 Start: 38425, Stop: 38685, Start Num: 31
Candidate Starts for TClif_54:
(Start: 31 @38425 has 9 MA's), (51, 38467), (67, 38581), (70, 38599), (83, 38674),

Gene: TM4_49 Start: 33917, Stop: 34147, Start Num: 38
Candidate Starts for TM4_49:
(Start: 37 @33914 has 7 MA's), (Start: 38 @33917 has 4 MA's), (42, 33923), (44, 33929), (60, 34019), (61, 34025), (71, 34088),

Gene: Tachez_50 Start: 37316, Stop: 37579, Start Num: 28
Candidate Starts for Tachez_50:
(Start: 28 @37316 has 121 MA's), (63, 37457),

Gene: TaiwanKao_52 Start: 37612, Stop: 37875, Start Num: 28
Candidate Starts for TaiwanKao_52:
(Start: 28 @37612 has 121 MA's), (63, 37753),

Gene: Teejan_48 Start: 39653, Stop: 39922, Start Num: 28
Candidate Starts for Teejan_48:
(Start: 28 @39653 has 121 MA's), (56, 39749), (65, 39809), (66, 39815), (67, 39818), (71, 39845), (73, 39857), (83, 39911),

Gene: Tierra_54 Start: 37943, Stop: 38200, Start Num: 28
Candidate Starts for Tierra_54:
(Start: 28 @37943 has 121 MA's), (41, 37964), (55, 38018), (63, 38081), (64, 38090), (77, 38168),

Gene: Tigress9_56 Start: 38145, Stop: 38396, Start Num: 28
Candidate Starts for Tigress9_56:
(Start: 28 @38145 has 121 MA's), (33, 38151), (61, 38271), (63, 38283),

Gene: TingHuaYa_51 Start: 36397, Stop: 36660, Start Num: 28
Candidate Starts for TingHuaYa_51:
(Start: 28 @36397 has 121 MA's), (Start: 36 @36409 has 2 MA's), (60, 36520), (63, 36538),

Gene: TiniBug_51 Start: 38238, Stop: 38501, Start Num: 28
Candidate Starts for TiniBug_51:
(5, 37986), (Start: 28 @38238 has 121 MA's), (51, 38292), (60, 38361), (63, 38379),

Gene: TinyDot_55 Start: 34530, Stop: 34790, Start Num: 27
Candidate Starts for TinyDot_55:
(Start: 27 @34530 has 1 MA's), (73, 34740),

Gene: Tiri_51 Start: 37646, Stop: 37909, Start Num: 28
Candidate Starts for Tiri_51:
(Start: 28 @37646 has 121 MA's), (51, 37700), (63, 37787),

Gene: Topper_50 Start: 37471, Stop: 37734, Start Num: 28
Candidate Starts for Topper_50:
(Start: 28 @37471 has 121 MA's), (63, 37612),

Gene: Toron_67 Start: 42166, Stop: 42447, Start Num: 21
Candidate Starts for Toron_67:
(17, 42130), (21, 42166), (47, 42241), (77, 42427), (84, 42439),

Gene: Torres_49 Start: 39654, Stop: 39923, Start Num: 28
Candidate Starts for Torres_49:
(Start: 28 @39654 has 121 MA's), (56, 39750), (65, 39810), (66, 39816), (67, 39819), (71, 39846), (73, 39858), (83, 39912),

Gene: Tourach_80 Start: 54051, Stop: 54332, Start Num: 43
Candidate Starts for Tourach_80:
(Start: 34 @54036 has 24 MA's), (Start: 43 @54051 has 8 MA's), (63, 54162), (67, 54189), (72, 54219), (87, 54306),

Gene: TreyKay_51 Start: 37556, Stop: 37819, Start Num: 28
Candidate Starts for TreyKay_51:
(Start: 28 @37556 has 121 MA's), (51, 37610), (63, 37697),

Gene: Trice_46 Start: 37041, Stop: 37310, Start Num: 28
Candidate Starts for Trice_46:
(Start: 28 @37041 has 121 MA's), (56, 37137), (65, 37197), (66, 37203), (67, 37206), (71, 37233), (73, 37245), (83, 37299),

Gene: TruffulaTree_50 Start: 37350, Stop: 37613, Start Num: 28
Candidate Starts for TruffulaTree_50:
(Start: 28 @37350 has 121 MA's), (63, 37491),

Gene: Twitch_50 Start: 37473, Stop: 37736, Start Num: 28
Candidate Starts for Twitch_50:
(Start: 28 @37473 has 121 MA's), (63, 37614),

Gene: Tyson_79 Start: 52361, Stop: 52651, Start Num: 43
Candidate Starts for Tyson_79:
(Start: 34 @52346 has 24 MA's), (Start: 43 @52361 has 8 MA's), (55, 52421), (63, 52484), (67, 52511), (89, 52634), (91, 52637),

Gene: Urkel_51 Start: 38242, Stop: 38505, Start Num: 28
Candidate Starts for Urkel_51:
(5, 37990), (Start: 28 @38242 has 121 MA's), (51, 38296), (60, 38365), (63, 38383),

Gene: VWB_44 Start: 35402, Stop: 35647, Start Num: 38
Candidate Starts for VWB_44:
(14, 35270), (15, 35279), (16, 35282), (24, 35369), (Start: 37 @35399 has 7 MA's), (Start: 38 @35402 has 4 MA's), (63, 35531), (69, 35564), (71, 35582),

Gene: Validus_55 Start: 38351, Stop: 38623, Start Num: 28
Candidate Starts for Validus_55:
(Start: 28 @38351 has 121 MA's), (Start: 36 @38363 has 2 MA's), (57, 38453), (60, 38471), (63, 38489), (67, 38516), (79, 38594),

Gene: Veliki_51 Start: 37390, Stop: 37653, Start Num: 28
Candidate Starts for Veliki_51:
(Start: 28 @37390 has 121 MA's), (63, 37531),

Gene: Wilder_82 Start: 53924, Stop: 54220, Start Num: 34
Candidate Starts for Wilder_82:

(Start: 34 @53924 has 24 MA's), (55, 53984), (60, 54029), (62, 54041), (67, 54077), (74, 54131), (75, 54134),

Gene: Winky_81 Start: 53918, Stop: 54214, Start Num: 34
Candidate Starts for Winky_81:
(Start: 34 @53918 has 24 MA's), (55, 53978), (60, 54023), (62, 54035), (67, 54071), (74, 54125), (75, 54128),

Gene: Wyatt2_79 Start: 52344, Stop: 52649, Start Num: 34
Candidate Starts for Wyatt2_79:
(Start: 34 @52344 has 24 MA's), (Start: 43 @52359 has 8 MA's), (55, 52419), (63, 52482), (67, 52509), (89, 52632), (91, 52635),

Gene: Ximenita_57 Start: 38244, Stop: 38495, Start Num: 28
Candidate Starts for Ximenita_57:
(Start: 28 @38244 has 121 MA's), (33, 38250), (63, 38382),

Gene: YoureAdopted_49 Start: 37555, Stop: 37818, Start Num: 28
Candidate Starts for YoureAdopted_49:
(Start: 28 @37555 has 121 MA's), (63, 37696),

Gene: Yuna_57 Start: 39151, Stop: 39429, Start Num: 28
Candidate Starts for Yuna_57:
(12, 39004), (Start: 28 @39151 has 121 MA's), (63, 39280), (70, 39325), (71, 39334),

Gene: Yunkel11_53 Start: 37143, Stop: 37406, Start Num: 28
Candidate Starts for Yunkel11_53:
(Start: 28 @37143 has 121 MA's), (Start: 36 @37155 has 2 MA's), (60, 37266), (63, 37284),

Gene: Zabiza_45 Start: 33661, Stop: 33924, Start Num: 28
Candidate Starts for Zabiza_45:
(Start: 28 @33661 has 121 MA's), (63, 33802),

Gene: Zakai_82 Start: 54244, Stop: 54540, Start Num: 34
Candidate Starts for Zakai_82:
(Start: 34 @54244 has 24 MA's), (55, 54304), (60, 54349), (62, 54361), (67, 54397), (74, 54451), (75, 54454),

Gene: Zaria_79 Start: 51796, Stop: 52101, Start Num: 34
Candidate Starts for Zaria_79:
(Start: 34 @51796 has 24 MA's), (Start: 43 @51811 has 8 MA's), (55, 51871), (63, 51934), (67, 51961), (89, 52084), (91, 52087),

Gene: Zavala_52 Start: 37632, Stop: 37895, Start Num: 28
Candidate Starts for Zavala_52:
(Start: 28 @37632 has 121 MA's), (63, 37773),

Gene: ZoeJ_53 Start: 39008, Stop: 39238, Start Num: 38
Candidate Starts for ZoeJ_53:
(Start: 37 @39005 has 7 MA's), (Start: 38 @39008 has 4 MA's), (42, 39014), (44, 39020), (60, 39110), (61, 39116), (71, 39179),