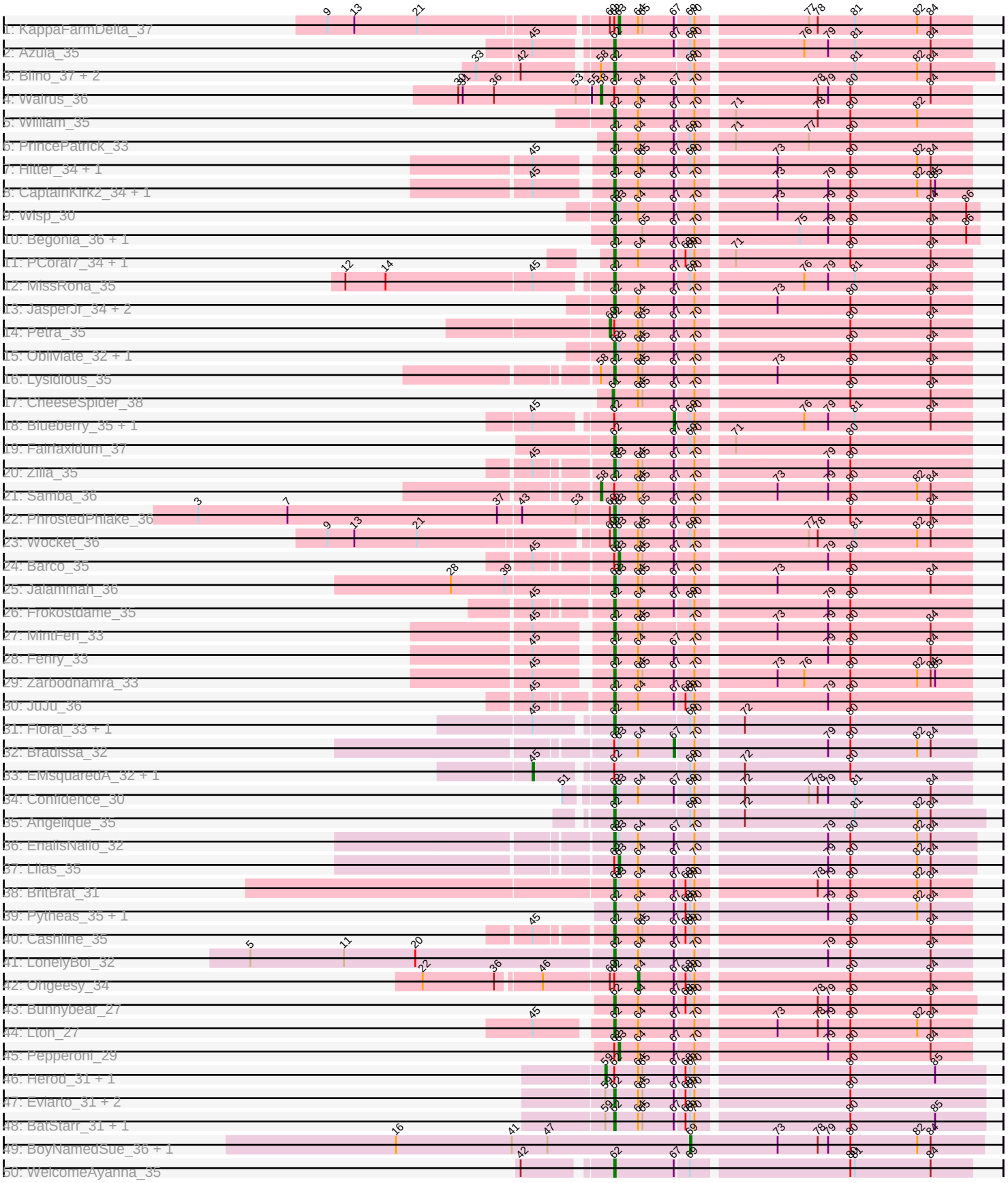
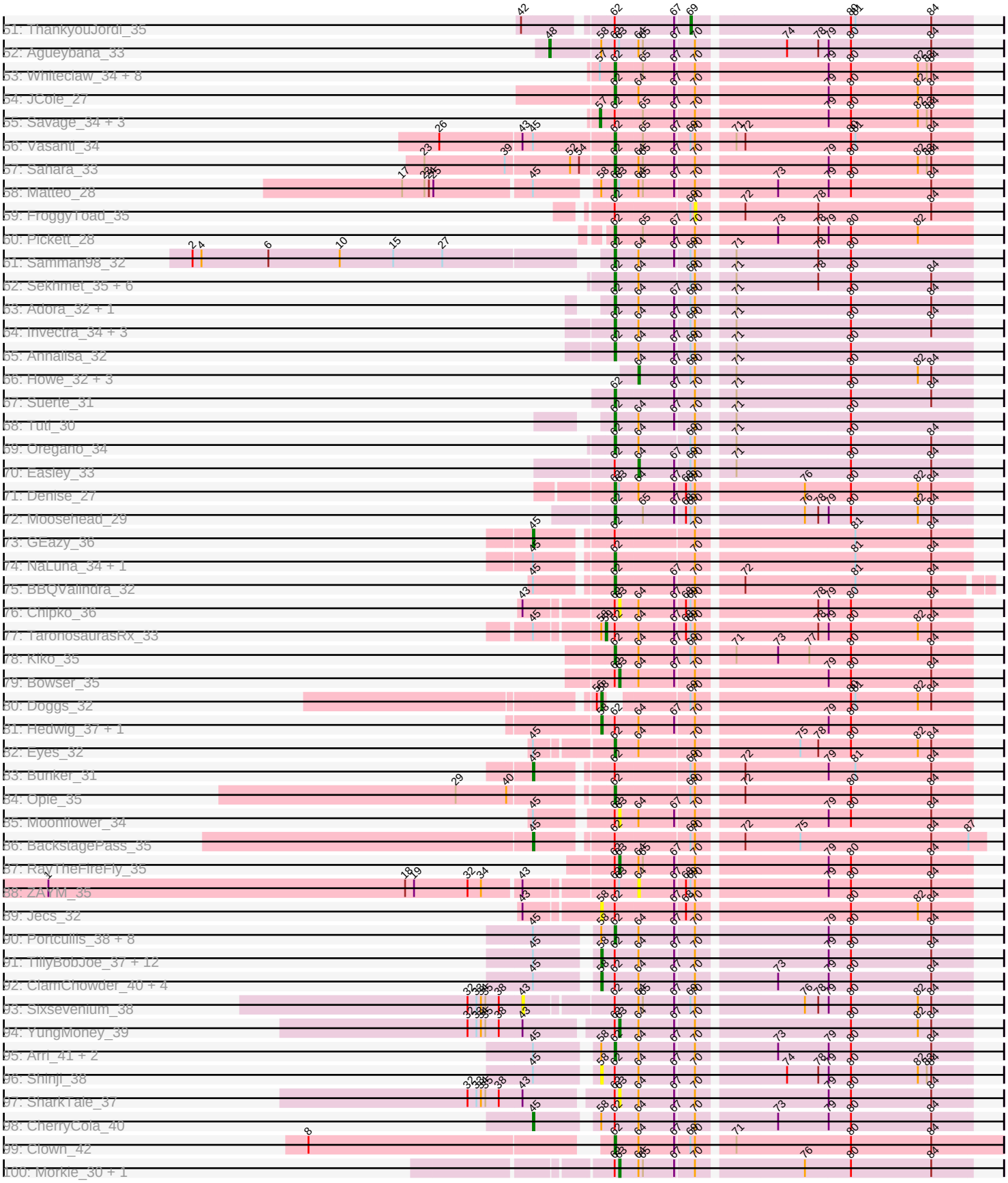
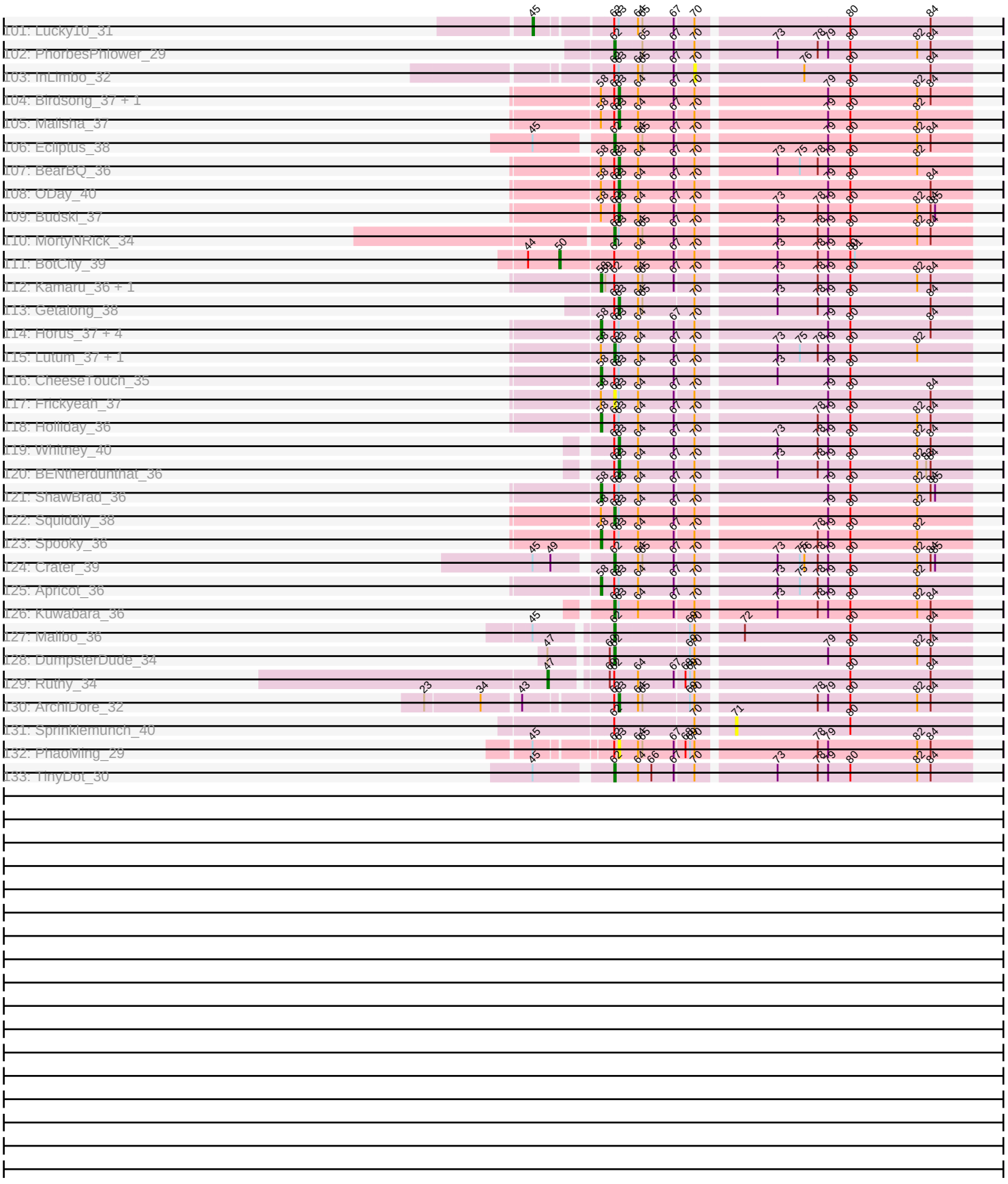
Pham 345384


1: KappaFarmDelta_37
2: Azula_35
3: Bilno_37 + 2
4: Walrus_36
5: William_35
6: PrincePatrick_33
7: Hitter_34 + 1
8: CaptainKirk2_34 + 1
9: Wisp_30
10: Begonia_36 + 1
11: PCoral7_34 + 1
12: MissRona_35
13: JasperJr_34 + 2
14: Petra_35
15: Obliviate_32 + 1
16: Lysidious_35
17: CheeseSpider_38
18: Blueberry_35 + 1
19: Fairiaxidum_37
20: Zilla_35
21: Samba_36
22: PhrostedPhlake_36
23: Wocket_36
24: Barco_35
25: Jalamman_36
26: Frokostdame_35
27: MintFen_33
28: Fenry_33
29: Zarboonamra_33
30: JuJu_36
31: Floral_33 + 1
32: Bradissa_32
33: EMsquaredA_32 + 1
34: Confidence_30
35: Angelique_35
36: EnaitsNallo_32
37: Lilas_35
38: BritBrat_31
39: Pytheas_35 + 1
40: Cashline_35
41: LonelyBoi_32
42: Ohgeesy_34
43: Bunnybear_27
44: Lton_27
45: Pepperoni_29
46: Herod_31 + 1
47: Eviarto_31 + 2
48: BatStarr_31 + 1
49: BoyNamedSue_36 + 1
50: WelcomeAyanna_35

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51: ThankyouJordi_35
52: Agueybana_33
53: Whiteclaw_34 + 8
54: JCole_27
55: Savage_34 + 3
56: Vasanti_34
57: Sahara_33
58: Matteo_28
59: FroggyToad_35
60: Pickett_28
61: Samman98_32
62: Sekhmet_35 + 6
63: Adora_32 + 1
64: Invectra_34 + 3
65: Annalisa_32
66: Howe_32 + 3
67: Suerte_31
68: Tutt_30
69: Oregano_34
70: Easley_33
71: Denise_27
72: Moosehead_29
73: GEazy_36
74: NaLuna_34 + 1
75: BBQValindra_32
76: Chipko_36
77: TaronosaurasRx_33
78: Kiko_35
79: Bowser_35
80: Doggs_32
81: Hedwig_37 + 1
82: Eyes_32
83: Bunker_31
84: Opie_35
85: Moonflower_34
86: BackstagePass_35
87: RayTheFireFly_35
88: ZAYM_35
89: Jecs_32
90: Portcullis_38 + 8
91: TillyBobJoe_37 + 12
92: ClamChowder_40 + 4
93: Sixsevenium_38
94: YungMoney_39
95: Arri_41 + 2
96: Shinji_38
97: SharkTale_37
98: CherryCola_40
99: Clown_42
100: Morkie_30 + 1

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I01: Lucky10_31
I02: PhorbesPhlower_29
I03: InLimbo_32
I04: Birdsong_37 + 1
I05: Mallsha_37
I06: Ecliptus_38
I07: BearBQ_36
I08: ODay_40
I09: Budski_37
I10: MortyNRick_34
I11: BotCity_39
I12: Kamaru_36 + 1
I13: Getalong_38
I14: Horus_37 + 4
I15: Lutum_37 + 1
I16: CheeseTouch_35
I17: Frickyeah_37
I18: Holliday_36
I19: Whitney_40
I20: BENtherdunthat_36
I21: ShawBrad_36
I22: Squiddly_38
I23: Spooky_36
I24: Crater_39
I25: Apricot_36
I26: Kuwabara_36
I27: Malibo_36
I28: DumpsterDude_34
I29: Ruthy_34
I30: ArchiDore_32
I31: Sprinklemunch_40
I32: PhaoMing_29
I33: TinyDot_30

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 345384 Report

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

Pham number 345384 has 211 members, 20 are drafts.

Phages represented in each track:
- Track 1 : KappaFarmDelta_37
- Track 2 : Azula_35
- Track 3 : Blino_37, Soilmate_38, CarolAnn_37
- Track 4 : Walrus_36
- Track 5 : William_35
- Track 6 : PrincePatrick_33
- Track 7 : Hitter_34, Archis_36
- Track 8 : CaptainKirk2_34, Delian_35
- Track 9 : Wisp_30
- Track 10 : Begonia_36, Malachai_36
- Track 11 : PCoral7_34, Toast_34
- Track 12 : MissRona_35
- Track 13 : JasperJr_34, UmaThurman_31, Guacamole_34
- Track 14 : Petra_35
- Track 15 : Obliviate_32, ZiggyZoo_34
- Track 16 : Lysidious_35
- Track 17 : CheeseSpider_38
- Track 18 : Blueberry_35, Gambino_36
- Track 19 : Fairfaxidum_37
- Track 20 : Zilla_35
- Track 21 : Samba_36
- Track 22 : PhrostedPhlake_36
- Track 23 : Wocket_36
- Track 24 : Barco_35
- Track 25 : Jalammah_36
- Track 26 : Frokostdame_35
- Track 27 : MintFen_33
- Track 28 : Fenry_33
- Track 29 : Zarbodnamra_33
- Track 30 : JuJu_36
- Track 31 : Floral_33, Pollux_34
- Track 32 : Bradissa_32
- Track 33 : EMsquaredA_32, Marteena_32
- Track 34 : Confidence_30
- Track 35 : Angelique_35
- Track 36 : EnalisNailo_32
- Track 37 : Lilas_35

• Track 38 : BritBrat_31
• Track 39 : Pytheas_35, Jablanski_35
• Track 40 : Cashline_35
• Track 41 : LonelyBoi_32
• Track 42 : Ohgeesy_34
• Track 43 : Bunnybear_27
• Track 44 : Lton_27
• Track 45 : Pepperoni_29
• Track 46 : Herod_31, Hugley_30
• Track 47 : Eviarto_31, Nymphadora_31, TimTam_31
• Track 48 : BatStarr_31, Bosnia_31
• Track 49 : BoyNamedSue_36, AlumE_36
• Track 50 : WelcomeAyanna_35
• Track 51 : ThankyouJordi_35
• Track 52 : Agueybana_33
• Track 53 : Whiteclaw_34, Jalleen_33, Clap_34, Haley23_34, GemG_34, Cynthia_34, TuertoX_34, Gizermo_34, Mocha12_34
• Track 54 : JCole_27
• Track 55 : Savage_34, Ebert_35, Sproutie_34, Yinzer_33
• Track 56 : Vasanti_34
• Track 57 : Sahara_33
• Track 58 : Matteo_28
• Track 59 : FroggyToad_35
• Track 60 : Pickett_28
• Track 61 : Samman98_32
• Track 62 : Sekhmet_35, DobbysSock_28, Rizz_34, Dorito_30, MichaelScott_33, Beenie_28, Clark_33
• Track 63 : Adora_32, Powerball_35
• Track 64 : Invectra_34, Thimann_32, PhriskyACE_33, Mcklovin_32
• Track 65 : Annalisa_32
• Track 66 : Howe_32, Hortense_32, Twinkle_32, Shlim410_32
• Track 67 : Suerte_31
• Track 68 : Tuti_30
• Track 69 : Oregano_34
• Track 70 : Easley_33
• Track 71 : Denise_27
• Track 72 : Moosehead_29
• Track 73 : GEazy_36
• Track 74 : NaLuna_34, HannahD_34
• Track 75 : BBQValindra_32
• Track 76 : Chipko_36
• Track 77 : TaronosaurasRx_33
• Track 78 : Kiko_35
• Track 79 : Bowser_35
• Track 80 : Doggs_32
• Track 81 : Hedwig_37, DirtyBoi_35
• Track 82 : Eyes_32
• Track 83 : Bunker_31
• Track 84 : Opie_35
• Track 85 : Moonflower_34
• Track 86 : BackstagePass_35
• Track 87 : RayTheFireFly_35
• Track 88 : ZAYM_35

• Track 89 : Jecs_32
• Track 90 : Portcullis_38, PullumCavea_37, Jambalaya_37, Egi03_38, Phlop_37, Fireball_38, CoveyB_40, Togo_37, Savbucketdawg_37
• Track 91 : TillyBobJoe_37, Gezellig_37, Wizard_37, JohnPork_38, KimmyK_39, Evamon_37, Nubi_38, Twister6_40, Danyall_40, Salvador_37, SmokingBunny_37, Sendy_38, Halo3_38
• Track 92 : ClamChowder_40, Valary_40, Barb_40, PinkCoffee_40, RogerDodger_41
• Track 93 : Sixsevenium_38
• Track 94 : YungMoney_39
• Track 95 : Arri_41, VanDeWege_41, Fugax_41
• Track 96 : Shinji_38
• Track 97 : SharkTale_37
• Track 98 : CherryCola_40
• Track 99 : Clown_42
• Track 100 : Morkie_30, OneDirection_28
• Track 101 : Lucky10_31
• Track 102 : PhorbesPhlower_29
• Track 103 : InLimbo_32
• Track 104 : Birdsong_37, Phabuloso_34
• Track 105 : Malisha_37
• Track 106 : Ecliptus_38
• Track 107 : BearBQ_36
• Track 108 : ODay_40
• Track 109 : Budski_37
• Track 110 : MortyNRick_34
• Track 111 : BotCity_39
• Track 112 : Kamaru_36, LitninMcQueen_35
• Track 113 : Getalong_38
• Track 114 : Horus_37, Phistory_37, Asapag_37, Leroy_37, Periwinkle_40
• Track 115 : Lutum_37, Kenna_36
• Track 116 : CheeseTouch_35
• Track 117 : Frickyeah_37
• Track 118 : Holliday_36
• Track 119 : Whitney_40
• Track 120 : BENtherdunthat_36
• Track 121 : ShawBrad_36
• Track 122 : Squiddly_38
• Track 123 : Spooky_36
• Track 124 : Crater_39
• Track 125 : Apricot_36
• Track 126 : Kuwabara_36
• Track 127 : Malibo_36
• Track 128 : DumpsterDude_34
• Track 129 : Ruthy_34
• Track 130 : ArchiDore_32
• Track 131 : Sprinklemunch_40
• Track 132 : PhaoMing_29
• Track 133 : TinyDot_30

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

The start number called the most often in the published annotations is 62, it was called in 110 of the 191 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Adora_32, Angelique_35, Annalisa_32, Archis_36, Arri_41, Azula_35, BBQValindra_32, BatStarr_31, Beenie_28, Begonia_36, Blino_37, Bosnia_31, BritBrat_31, Bunnybear_27, CaptainKirk2_34, CarolAnn_37, Cashline_35, Clap_34, Clark_33, Clown_42, Confidence_30, CoveyB_40, Crater_39, Cynthia_34, Delian_35, Denise_27, DobbysSock_28, Dorito_30, DumpsterDude_34, Ecliptus_38, Egi03_38, EnalisNailo_32, Eviarto_31, Eyes_32, Fairfaxidum_37, Fenry_33, Fireball_38, Floral_33, Frickyeah_37, Frokostdame_35, Fugax_41, GemG_34, Gizermo_34, Guacamole_34, Haley23_34, HannahD_34, Hitter_34, Invectra_34, JCole_27, Jablanski_35, Jalammah_36, Jalleen_33, Jambalaya_37, JasperJr_34, JuJu_36, Kenna_36, Kiko_35, Kuwabara_36, LonelyBoi_32, Lton_27, Lutum_37, Lysidious_35, Malachai_36, Malibo_36, Matteo_28, Mcklovin_32, MichaelScott_33, MintFen_33, MissRona_35, Mocha12_34, Moosehead_29, MortyNRick_34, NaLuna_34, Nymphadora_31, Obliviate_32, Opie_35, Oregano_34, PCoral7_34, Phlop_37, PhorbesPhlower_29, PhriskyACE_33, PhrostedPhlake_36, Pickett_28, Pollux_34, Portcullis_38, Powerball_35, PrincePatrick_33, PullumCavea_37, Pytheas_35, Rizz_34, Sahara_33, Samman98_32, Savbucketdawg_37, Sekhmet_35, Soilmate_38, Squiddly_38, Suerte_31, Thimann_32, TimTam_31, TinyDot_30, Toast_34, Togo_37, TuertoX_34, Tuti_30, UmaThurman_31, VanDeWege_41, Vasanti_34, WelcomeAyanna_35, Whiteclaw_34, William_35, Wisp_30, Wocket_36, Zarbodnamra_33, ZiggyZoo_34, Zilla_35,

Genes that have the "Most Annotated" start but do not call it:
• Agueybana_33, Apricot_36, ArchiDore_32, Asapag_37, BENtherdunthat_36, BackstagePass_35, Barb_40, Barco_35, BearBQ_36, Birdsong_37, Blueberry_35, BotCity_39, Bowser_35, Bradissa_32, Budski_37, Bunker_31, CheeseTouch_35, CherryCola_40, Chipko_36, ClamChowder_40, Danyall_40, DirtyBoi_35, EMsquaredA_32, Easley_33, Ebert_35, Evamon_37, FroggyToad_35, GEazy_36, Gambino_36, Getalong_38, Gezellig_37, Halo3_38, Hedwig_37, Herod_31, Holliday_36, Horus_37, Hugley_30, InLimbo_32, Jecs_32, JohnPork_38, Kamaru_36, KappaFarmDelta_37, KimmyK_39, Leroy_37, Lilas_35, LitninMcQueen_35, Lucky10_31, Malisha_37, Marteena_32, Moonflower_34, Morkie_30, Nubi_38, ODay_40, Ohgeesy_34, OneDirection_28, Pepperoni_29, Periwinkle_40, Petra_35, Phabuloso_34, PhaoMing_29, Phistory_37, PinkCoffee_40, RayTheFireFly_35, RogerDodger_41, Ruthy_34, Salvador_37, Samba_36, Savage_34, Sendy_38, SharkTale_37, ShawBrad_36, Shinji_38, Sixsevenium_38, SmokingBunny_37, Spooky_36, Sprinklemunch_40, Sproutie_34, TaronosaurasRx_33, ThankyouJordi_35, TillyBobJoe_37, Twister6_40, Valary_40, Walrus_36, Whitney_40, Wizard_37, Yinzer_33, YungMoney_39, ZAYM_35,

Genes that do not have the "Most Annotated" start:
• AlumE_36, BoyNamedSue_36, CheeseSpider_38, Doggs_32, Hortense_32, Howe_32, Shlim410_32, Twinkle_32,

Summary by start number:

Start 43:
• Found in 9 of 211 (4.3%) of genes in pham
• No Manual Annotations of this start.

• Called 11.1% of time when present
• Phage (with cluster) where this start called: Sixsevenium_38 (DC1),

Start 45:
• Found in 70 of 211 (33.2%) of genes in pham
• Manual Annotations of this start: 7 of 191
• Called 10.0% of time when present
• Phage (with cluster) where this start called: BackstagePass_35 (DB), Bunker_31 (DB), CherryCola_40 (DC1), EMsquaredA_32 (CY1), GEazy_36 (DB), Lucky10_31 (DH), Marteena_32 (CY1),

Start 47:
• Found in 4 of 211 (1.9%) of genes in pham
• Manual Annotations of this start: 1 of 191
• Called 25.0% of time when present
• Phage (with cluster) where this start called: Ruthy_34 (DW),

Start 48:
• Found in 1 of 211 (0.5%) of genes in pham
• Manual Annotations of this start: 1 of 191
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Agueybana_33 (CZ1),

Start 50:
• Found in 1 of 211 (0.5%) of genes in pham
• Manual Annotations of this start: 1 of 191
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BotCity_39 (DN),

Start 57:
• Found in 13 of 211 (6.2%) of genes in pham
• Manual Annotations of this start: 3 of 191
• Called 30.8% of time when present
• Phage (with cluster) where this start called: Ebert_35 (CZ2), Savage_34 (CZ2), Sproutie_34 (CZ2), Yinzer_33 (CZ2),

Start 58:
• Found in 67 of 211 (31.8%) of genes in pham
• Manual Annotations of this start: 33 of 191
• Called 55.2% of time when present
• Phage (with cluster) where this start called: Apricot_36 (DN3), Asapag_37 (DN1), Barb_40 (DC1), CheeseTouch_35 (DN1), ClamChowder_40 (DC1), Danyall_40 (DC1), DirtyBoi_35 (DB), Doggs_32 (DB), Evamon_37 (DC1), Gezellig_37 (DC1), Halo3_38 (DC1), Hedwig_37 (DB), Holliday_36 (DN1), Horus_37 (DN1), Jecs_32 (DB), JohnPork_38 (DC1), Kamaru_36 (DN1), KimmyK_39 (DC1), Leroy_37 (DN1), LitninMcQueen_35 (DN1), Nubi_38 (DC1), Periwinkle_40 (DN1), Phistory_37 (DN1), PinkCoffee_40 (DC1), RogerDodger_41 (DC1), Salvador_37 (DC1), Samba_36 (CV), Sendy_38 (DC1), ShawBrad_36 (DN1), Shinji_38 (DC1), SmokingBunny_37 (DC1), Spooky_36 (DN2), TillyBobJoe_37 (DC1), Twister6_40 (DC1), Valary_40 (DC1), Walrus_36 (CV), Wizard_37 (DC1),

Start 59:
• Found in 10 of 211 (4.7%) of genes in pham

• Manual Annotations of this start: 2 of 191
• Called 30.0% of time when present
• Phage (with cluster) where this start called: Herod_31 (CZ1), Hugley_30 (CZ1), TaronosaurasRx_33 (DB),

Start 60:
• Found in 7 of 211 (3.3%) of genes in pham
• Manual Annotations of this start: 1 of 191
• Called 14.3% of time when present
• Phage (with cluster) where this start called: Petra_35 (CV),

Start 61:
• Found in 1 of 211 (0.5%) of genes in pham
• Manual Annotations of this start: 1 of 191
• Called 100.0% of time when present
• Phage (with cluster) where this start called: CheeseSpider_38 (CV),

Start 62:
• Found in 203 of 211 (96.2%) of genes in pham
• Manual Annotations of this start: 110 of 191
• Called 56.7% of time when present
• Phage (with cluster) where this start called: Adora_32 (CZ4), Angelique_35 (CY1), Annalisa_32 (CZ4), Archis_36 (CV), Arri_41 (DC1), Azula_35 (CV), BBQValindra_32 (DB), BatStarr_31 (CZ1), Beenie_28 (CZ4), Begonia_36 (CV), Blino_37 (CV), Bosnia_31 (CZ1), BritBrat_31 (CY2), Bunnybear_27 (CZ), CaptainKirk2_34 (CV), CarolAnn_37 (CV), Cashline_35 (CY6), Clap_34 (CZ2), Clark_33 (CZ4), Clown_42 (DC2), Confidence_30 (CY1), CoveyB_40 (DC1), Crater_39 (DN3), Cynthia_34 (CZ2), Delian_35 (CV), Denise_27 (CZ5), DobbysSock_28 (CZ4), Dorito_30 (CZ4), DumpsterDude_34 (DW), Ecliptus_38 (DN), Egi03_38 (DC1), EnalisNailo_32 (CY1), Eviarto_31 (CZ1), Eyes_32 (DB), Fairfaxidum_37 (CV), Fenry_33 (CV), Fireball_38 (DC1), Floral_33 (CY1), Frickyeah_37 (DN1), Frokostdame_35 (CV), Fugax_41 (DC1), GemG_34 (CZ2), Gizermo_34 (CZ2), Guacamole_34 (CV), Haley23_34 (CZ2), HannahD_34 (DB), Hitter_34 (CV), Invectra_34 (CZ4), JCole_27 (CZ2), Jablanski_35 (CY3), Jalammah_36 (CV), Jalleen_33 (CZ2), Jambalaya_37 (DC1), JasperJr_34 (CV), JuJu_36 (CV), Kenna_36 (DN1), Kiko_35 (DB), Kuwabara_36 (DN4), LonelyBoi_32 (CY7), Lton_27 (CZ), Lutum_37 (DN1), Lysidious_35 (CV), Malachai_36 (CV), Malibo_36 (DW), Matteo_28 (CZ2), Mcklovin_32 (CZ4), MichaelScott_33 (CZ4), MintFen_33 (CV), MissRona_35 (CV), Mocha12_34 (CZ2), Moosehead_29 (CZ6), MortyNRick_34 (DN), NaLuna_34 (DB), Nymphadora_31 (CZ1), Obliviate_32 (CV), Opie_35 (DB), Oregano_34 (CZ4), PCoral7_34 (CV), Phlop_37 (DC1), PhorbesPhlower_29 (DH), PhriskyACE_33 (CZ4), PhrostedPhlake_36 (CV), Pickett_28 (CZ2), Pollux_34 (CY1), Portcullis_38 (DC1), Powerball_35 (CZ4), PrincePatrick_33 (CV), PullumCavea_37 (DC1), Pytheas_35 (CY3), Rizz_34 (CZ4), Sahara_33 (CZ2), Samman98_32 (CZ4), Savbucketdawg_37 (DC1), Sekhmet_35 (CZ4), Soilmate_38 (CV), Squiddly_38 (DN2), Suerte_31 (CZ4), Thimann_32 (CZ4), TimTam_31 (CZ1), TinyDot_30 (singleton), Toast_34 (CV), Togo_37 (DC1), TuertoX_34 (CZ2), Tuti_30 (CZ4), UmaThurman_31 (CV), VanDeWege_41 (DC1), Vasanti_34 (CZ2), WelcomeAyanna_35 (CZ1), Whiteclaw_34 (CZ2), William_35 (CV), Wisp_30 (CV), Wocket_36 (CV), Zarbodnamra_33 (CV), ZiggyZoo_34 (CV), Zilla_35 (CV),

Start 63:
• Found in 56 of 211 (26.5%) of genes in pham

• Manual Annotations of this start: 19 of 191
• Called 41.1% of time when present
• Phage (with cluster) where this start called: ArchiDore_32 (DW), BENtherdunthat_36 (DN1), Barco_35 (CV), BearBQ_36 (DN), Birdsong_37 (DN), Bowser_35 (DB), Budski_37 (DN), Chipko_36 (DB), Getalong_38 (DN1), KappaFarmDelta_37 (CV), Lilas_35 (CY1), Malisha_37 (DN), Moonflower_34 (DB), Morkie_30 (DH), ODay_40 (DN), OneDirection_28 (CZ6), Pepperoni_29 (CZ), Phabuloso_34 (DN1), PhaoMing_29 (UNK), RayTheFireFly_35 (DB), SharkTale_37 (DC1), Whitney_40 (DN1), YungMoney_39 (DC1),

Start 64:
• Found in 160 of 211 (75.8%) of genes in pham
• Manual Annotations of this start: 6 of 191
• Called 4.4% of time when present
• Phage (with cluster) where this start called: Easley_33 (CZ4), Hortense_32 (CZ4), Howe_32 (CZ4), Ohgeesy_34 (CZ), Shlim410_32 (CZ4), Twinkle_32 (CZ4), ZAYM_35 (DB),

Start 67:
• Found in 178 of 211 (84.4%) of genes in pham
• Manual Annotations of this start: 3 of 191
• Called 1.7% of time when present
• Phage (with cluster) where this start called: Blueberry_35 (CV), Bradissa_32 (CY1), Gambino_36 (CV),

Start 69:
• Found in 80 of 211 (37.9%) of genes in pham
• Manual Annotations of this start: 3 of 191
• Called 3.8% of time when present
• Phage (with cluster) where this start called: AlumE_36 (CZ1), BoyNamedSue_36 (CZ1), ThankyouJordi_35 (CZ1),

Start 70:
• Found in 207 of 211 (98.1%) of genes in pham
• No Manual Annotations of this start.
• Called 1.0% of time when present
• Phage (with cluster) where this start called: FroggyToad_35 (CZ2), InLimbo_32 (DH),

Start 71:
• Found in 32 of 211 (15.2%) of genes in pham
• No Manual Annotations of this start.
• Called 3.1% of time when present
• Phage (with cluster) where this start called: Sprinklemunch_40 (DW),

Summary by clusters:

There are 24 clusters represented in this pham: DN, singleton, DH, CZ2, CZ1, CZ6, CZ4, CZ5, DW, DN4, DN1, DN3, DN2, CY3, CY2, CY1, CY7, CY6, DB, CZ, UNK, DC2, CV, DC1,

Info for manual annotations of cluster CV:
•Start number 58 was manually annotated 2 times for cluster CV.

•Start number 60 was manually annotated 1 time for cluster CV.
•Start number 61 was manually annotated 1 time for cluster CV.
•Start number 62 was manually annotated 31 times for cluster CV.
•Start number 63 was manually annotated 2 times for cluster CV.
•Start number 67 was manually annotated 2 times for cluster CV.

Info for manual annotations of cluster CY1:
•Start number 45 was manually annotated 2 times for cluster CY1.
•Start number 62 was manually annotated 5 times for cluster CY1.
•Start number 63 was manually annotated 1 time for cluster CY1.
•Start number 67 was manually annotated 1 time for cluster CY1.

Info for manual annotations of cluster CY2:
•Start number 62 was manually annotated 1 time for cluster CY2.

Info for manual annotations of cluster CY3:
•Start number 62 was manually annotated 2 times for cluster CY3.

Info for manual annotations of cluster CY6:
•Start number 62 was manually annotated 1 time for cluster CY6.

Info for manual annotations of cluster CY7:
•Start number 62 was manually annotated 1 time for cluster CY7.

Info for manual annotations of cluster CZ:
•Start number 62 was manually annotated 2 times for cluster CZ.
•Start number 63 was manually annotated 1 time for cluster CZ.
•Start number 64 was manually annotated 1 time for cluster CZ.

Info for manual annotations of cluster CZ1:
•Start number 48 was manually annotated 1 time for cluster CZ1.
•Start number 59 was manually annotated 1 time for cluster CZ1.
•Start number 62 was manually annotated 6 times for cluster CZ1.
•Start number 69 was manually annotated 3 times for cluster CZ1.

Info for manual annotations of cluster CZ2:
•Start number 57 was manually annotated 3 times for cluster CZ2.
•Start number 62 was manually annotated 13 times for cluster CZ2.

Info for manual annotations of cluster CZ4:
•Start number 62 was manually annotated 17 times for cluster CZ4.
•Start number 64 was manually annotated 5 times for cluster CZ4.

Info for manual annotations of cluster CZ5:
•Start number 62 was manually annotated 1 time for cluster CZ5.

Info for manual annotations of cluster CZ6:
•Start number 62 was manually annotated 1 time for cluster CZ6.
•Start number 63 was manually annotated 1 time for cluster CZ6.

Info for manual annotations of cluster DB:
•Start number 45 was manually annotated 3 times for cluster DB.
•Start number 58 was manually annotated 3 times for cluster DB.

•Start number 59 was manually annotated 1 time for cluster DB.
•Start number 62 was manually annotated 5 times for cluster DB.
•Start number 63 was manually annotated 2 times for cluster DB.

Info for manual annotations of cluster DC1:
•Start number 45 was manually annotated 1 time for cluster DC1.
•Start number 58 was manually annotated 16 times for cluster DC1.
•Start number 62 was manually annotated 12 times for cluster DC1.
•Start number 63 was manually annotated 1 time for cluster DC1.

Info for manual annotations of cluster DC2:
•Start number 62 was manually annotated 1 time for cluster DC2.

Info for manual annotations of cluster DH:
•Start number 45 was manually annotated 1 time for cluster DH.
•Start number 62 was manually annotated 1 time for cluster DH.
•Start number 63 was manually annotated 1 time for cluster DH.

Info for manual annotations of cluster DN:
•Start number 50 was manually annotated 1 time for cluster DN.
•Start number 62 was manually annotated 2 times for cluster DN.
•Start number 63 was manually annotated 5 times for cluster DN.

Info for manual annotations of cluster DN1:
•Start number 58 was manually annotated 10 times for cluster DN1.
•Start number 62 was manually annotated 2 times for cluster DN1.
•Start number 63 was manually annotated 4 times for cluster DN1.

Info for manual annotations of cluster DN2:
•Start number 58 was manually annotated 1 time for cluster DN2.
•Start number 62 was manually annotated 1 time for cluster DN2.

Info for manual annotations of cluster DN3:
•Start number 58 was manually annotated 1 time for cluster DN3.
•Start number 62 was manually annotated 1 time for cluster DN3.

Info for manual annotations of cluster DN4:
•Start number 62 was manually annotated 1 time for cluster DN4.

Info for manual annotations of cluster DW:
•Start number 47 was manually annotated 1 time for cluster DW.
•Start number 62 was manually annotated 2 times for cluster DW.
•Start number 63 was manually annotated 1 time for cluster DW.

Gene Information:

Gene: Adora_32 Start: 28689, Stop: 28462, Start Num: 62
Candidate Starts for Adora_32:
(Start: 62 @28689 has 110 MA's), (Start: 64 @28674 has 6 MA's), (Start: 67 @28650 has 3 MA's), (Start: 69 @28641 has 3 MA's), (70, 28638), (71, 28617), (80, 28542), (84, 28488),

Gene: Agueybana_33 Start: 28613, Stop: 28344, Start Num: 48
Candidate Starts for Agueybana_33:
(Start: 48 @28613 has 1 MA's), (Start: 58 @28580 has 33 MA's), (Start: 62 @28571 has 110 MA's), (Start: 63 @28568 has 19 MA's), (Start: 64 @28556 has 6 MA's), (65, 28553), (Start: 67 @28532 has 3 MA's), (70, 28520), (74, 28466), (78, 28445), (79, 28439), (80, 28424), (84, 28370),

Gene: AlumE_36 Start: 30317, Stop: 30123, Start Num: 69
Candidate Starts for AlumE_36:
(16, 30515), (41, 30437), (Start: 47 @30413 has 1 MA's), (Start: 69 @30317 has 3 MA's), (73, 30260), (78, 30233), (79, 30227), (80, 30212), (82, 30167), (84, 30158),

Gene: Angelique_35 Start: 28945, Stop: 28709, Start Num: 62
Candidate Starts for Angelique_35:
(Start: 62 @28945 has 110 MA's), (Start: 69 @28897 has 3 MA's), (70, 28894), (72, 28867), (81, 28795), (82, 28753), (84, 28744),

Gene: Annalisa_32 Start: 26879, Stop: 26652, Start Num: 62
Candidate Starts for Annalisa_32:
(Start: 62 @26879 has 110 MA's), (Start: 64 @26864 has 6 MA's), (Start: 67 @26840 has 3 MA's), (Start: 69 @26831 has 3 MA's), (70, 26828), (71, 26807), (80, 26732),

Gene: Apricot_36 Start: 28503, Stop: 28267, Start Num: 58
Candidate Starts for Apricot_36:
(Start: 58 @28503 has 33 MA's), (Start: 62 @28494 has 110 MA's), (Start: 63 @28491 has 19 MA's), (Start: 64 @28479 has 6 MA's), (Start: 67 @28455 has 3 MA's), (70, 28443), (73, 28395), (75, 28380), (78, 28368), (79, 28362), (80, 28347), (82, 28302),

Gene: ArchiDore_32 Start: 28535, Stop: 28311, Start Num: 63
Candidate Starts for ArchiDore_32:
(23, 28652), (34, 28616), (43, 28592), (Start: 62 @28538 has 110 MA's), (Start: 63 @28535 has 19 MA's), (Start: 64 @28523 has 6 MA's), (65, 28520), (Start: 69 @28490 has 3 MA's), (70, 28487), (78, 28412), (79, 28406), (80, 28391), (82, 28346), (84, 28337),

Gene: Archis_36 Start: 29314, Stop: 29087, Start Num: 62
Candidate Starts for Archis_36:
(Start: 45 @29359 has 7 MA's), (Start: 62 @29314 has 110 MA's), (Start: 64 @29299 has 6 MA's), (65, 29296), (Start: 67 @29275 has 3 MA's), (Start: 69 @29266 has 3 MA's), (70, 29263), (73, 29215), (80, 29167), (82, 29122), (84, 29113),

Gene: Arri_41 Start: 33726, Stop: 33499, Start Num: 62
Candidate Starts for Arri_41:
(Start: 45 @33771 has 7 MA's), (Start: 58 @33735 has 33 MA's), (Start: 62 @33726 has 110 MA's), (Start: 64 @33711 has 6 MA's), (Start: 67 @33687 has 3 MA's), (70, 33675), (73, 33627), (79, 33594), (80, 33579), (84, 33525),

Gene: Asapag_37 Start: 30095, Stop: 29859, Start Num: 58
Candidate Starts for Asapag_37:
(Start: 58 @30095 has 33 MA's), (Start: 62 @30086 has 110 MA's), (Start: 63 @30083 has 19 MA's), (Start: 64 @30071 has 6 MA's), (Start: 67 @30047 has 3 MA's), (70, 30035), (79, 29954), (80, 29939), (84, 29885),

Gene: Azula_35 Start: 29026, Stop: 28799, Start Num: 62

Candidate Starts for Azula_35:
(Start: 45 @29071 has 7 MA's), (Start: 62 @29026 has 110 MA's), (Start: 67 @28987 has 3 MA's), (Start: 69 @28978 has 3 MA's), (70, 28975), (76, 28909), (79, 28894), (81, 28876), (84, 28825),

Gene: BBQValindra_32 Start: 27582, Stop: 27346, Start Num: 62
Candidate Starts for BBQValindra_32:
(Start: 45 @27627 has 7 MA's), (Start: 62 @27582 has 110 MA's), (Start: 67 @27543 has 3 MA's), (70, 27531), (72, 27504), (81, 27432), (84, 27381),

Gene: BENtherdunthat_36 Start: 28355, Stop: 28131, Start Num: 63
Candidate Starts for BENtherdunthat_36:
(Start: 62 @28358 has 110 MA's), (Start: 63 @28355 has 19 MA's), (Start: 64 @28343 has 6 MA's), (Start: 67 @28319 has 3 MA's), (70, 28307), (73, 28259), (78, 28232), (79, 28226), (80, 28211), (82, 28166), (83, 28160), (84, 28157),

Gene: BackstagePass_35 Start: 29196, Stop: 28915, Start Num: 45
Candidate Starts for BackstagePass_35:
(Start: 45 @29196 has 7 MA's), (Start: 62 @29151 has 110 MA's), (Start: 69 @29103 has 3 MA's), (70, 29100), (72, 29073), (75, 29037), (84, 28950), (87, 28926),

Gene: Barb_40 Start: 33752, Stop: 33516, Start Num: 58
Candidate Starts for Barb_40:
(Start: 45 @33788 has 7 MA's), (Start: 58 @33752 has 33 MA's), (Start: 62 @33743 has 110 MA's), (Start: 64 @33728 has 6 MA's), (Start: 67 @33704 has 3 MA's), (70, 33692), (73, 33644), (79, 33611), (80, 33596), (84, 33542),

Gene: Barco_35 Start: 29527, Stop: 29303, Start Num: 63
Candidate Starts for Barco_35:
(Start: 45 @29575 has 7 MA's), (Start: 62 @29530 has 110 MA's), (Start: 63 @29527 has 19 MA's), (Start: 64 @29515 has 6 MA's), (65, 29512), (Start: 67 @29491 has 3 MA's), (70, 29479), (79, 29398), (80, 29383),

Gene: BatStarr_31 Start: 28844, Stop: 28608, Start Num: 62
Candidate Starts for BatStarr_31:
(Start: 59 @28850 has 2 MA's), (Start: 62 @28844 has 110 MA's), (Start: 64 @28829 has 6 MA's), (65, 28826), (Start: 67 @28805 has 3 MA's), (68, 28799), (Start: 69 @28796 has 3 MA's), (70, 28793), (80, 28697), (85, 28640),

Gene: BearBQ_36 Start: 29718, Stop: 29494, Start Num: 63
Candidate Starts for BearBQ_36:
(Start: 58 @29730 has 33 MA's), (Start: 62 @29721 has 110 MA's), (Start: 63 @29718 has 19 MA's), (Start: 64 @29706 has 6 MA's), (Start: 67 @29682 has 3 MA's), (70, 29670), (73, 29622), (75, 29607), (78, 29595), (79, 29589), (80, 29574), (82, 29529),

Gene: Beenie_28 Start: 26674, Stop: 26447, Start Num: 62
Candidate Starts for Beenie_28:
(Start: 62 @26674 has 110 MA's), (Start: 64 @26659 has 6 MA's), (Start: 69 @26626 has 3 MA's), (70, 26623), (71, 26602), (78, 26548), (80, 26527), (84, 26473),

Gene: Begonia_36 Start: 30625, Stop: 30392, Start Num: 62
Candidate Starts for Begonia_36:
(Start: 62 @30625 has 110 MA's), (65, 30607), (Start: 67 @30586 has 3 MA's), (70, 30574), (75, 30511), (79, 30493), (80, 30478), (84, 30424), (86, 30400),

Gene: Birdsong_37 Start: 29810, Stop: 29586, Start Num: 63
Candidate Starts for Birdsong_37:
(Start: 58 @29822 has 33 MA's), (Start: 62 @29813 has 110 MA's), (Start: 63 @29810 has 19 MA's), (Start: 64 @29798 has 6 MA's), (Start: 67 @29774 has 3 MA's), (70, 29762), (79, 29681), (80, 29666), (82, 29621), (84, 29612),

Gene: Blino_37 Start: 31465, Stop: 31223, Start Num: 62
Candidate Starts for Blino_37:
(33, 31546), (42, 31519), (Start: 58 @31474 has 33 MA's), (Start: 62 @31465 has 110 MA's), (Start: 69 @31417 has 3 MA's), (70, 31414), (81, 31315), (82, 31273), (84, 31264),

Gene: Blueberry_35 Start: 28987, Stop: 28799, Start Num: 67
Candidate Starts for Blueberry_35:
(Start: 45 @29071 has 7 MA's), (Start: 62 @29026 has 110 MA's), (Start: 67 @28987 has 3 MA's), (Start: 69 @28978 has 3 MA's), (70, 28975), (76, 28909), (79, 28894), (81, 28876), (84, 28825),

Gene: Bosnia_31 Start: 28844, Stop: 28608, Start Num: 62
Candidate Starts for Bosnia_31:
(Start: 59 @28850 has 2 MA's), (Start: 62 @28844 has 110 MA's), (Start: 64 @28829 has 6 MA's), (65, 28826), (Start: 67 @28805 has 3 MA's), (68, 28799), (Start: 69 @28796 has 3 MA's), (70, 28793), (80, 28697), (85, 28640),

Gene: BotCity_39 Start: 29685, Stop: 29425, Start Num: 50
Candidate Starts for BotCity_39:
(44, 29706), (Start: 50 @29685 has 1 MA's), (Start: 62 @29652 has 110 MA's), (Start: 64 @29637 has 6 MA's), (Start: 67 @29613 has 3 MA's), (70, 29601), (73, 29553), (78, 29526), (79, 29520), (80, 29505), (81, 29502),

Gene: Bowser_35 Start: 28606, Stop: 28382, Start Num: 63
Candidate Starts for Bowser_35:
(Start: 62 @28609 has 110 MA's), (Start: 63 @28606 has 19 MA's), (Start: 64 @28594 has 6 MA's), (Start: 67 @28570 has 3 MA's), (70, 28558), (79, 28477), (80, 28462), (84, 28408),

Gene: BoyNamedSue_36 Start: 30317, Stop: 30123, Start Num: 69
Candidate Starts for BoyNamedSue_36:
(16, 30515), (41, 30437), (Start: 47 @30413 has 1 MA's), (Start: 69 @30317 has 3 MA's), (73, 30260), (78, 30233), (79, 30227), (80, 30212), (82, 30167), (84, 30158),

Gene: Bradissa_32 Start: 28422, Stop: 28231, Start Num: 67
Candidate Starts for Bradissa_32:
(Start: 62 @28461 has 110 MA's), (Start: 63 @28458 has 19 MA's), (Start: 64 @28446 has 6 MA's), (Start: 67 @28422 has 3 MA's), (70, 28410), (79, 28329), (80, 28314), (82, 28269), (84, 28260),

Gene: BritBrat_31 Start: 29502, Stop: 29275, Start Num: 62
Candidate Starts for BritBrat_31:
(Start: 62 @29502 has 110 MA's), (Start: 63 @29499 has 19 MA's), (Start: 64 @29487 has 6 MA's), (Start: 67 @29463 has 3 MA's), (68, 29457), (Start: 69 @29454 has 3 MA's), (70, 29451), (78, 29376), (79, 29370), (80, 29355), (82, 29310), (84, 29301),

Gene: Budski_37 Start: 30045, Stop: 29821, Start Num: 63
Candidate Starts for Budski_37:

(Start: 58 @30057 has 33 MA's), (Start: 62 @30048 has 110 MA's), (Start: 63 @30045 has 19 MA's), (Start: 64 @30033 has 6 MA's), (Start: 67 @30009 has 3 MA's), (70, 29997), (73, 29949), (78, 29922), (79, 29916), (80, 29901), (82, 29856), (84, 29847), (85, 29844),

Gene: Bunker_31 Start: 27927, Stop: 27655, Start Num: 45
Candidate Starts for Bunker_31:
(Start: 45 @27927 has 7 MA's), (Start: 62 @27882 has 110 MA's), (Start: 69 @27834 has 3 MA's), (70, 27831), (72, 27804), (79, 27750), (81, 27732), (84, 27681),

Gene: Bunnybear_27 Start: 27053, Stop: 26823, Start Num: 62
Candidate Starts for Bunnybear_27:
(Start: 62 @27053 has 110 MA's), (Start: 64 @27038 has 6 MA's), (Start: 67 @27014 has 3 MA's), (68, 27008), (Start: 69 @27005 has 3 MA's), (70, 27002), (78, 26927), (79, 26921), (80, 26906), (84, 26852),

Gene: CaptainKirk2_34 Start: 28619, Stop: 28392, Start Num: 62
Candidate Starts for CaptainKirk2_34:
(Start: 45 @28664 has 7 MA's), (Start: 62 @28619 has 110 MA's), (Start: 64 @28604 has 6 MA's), (Start: 67 @28580 has 3 MA's), (70, 28568), (73, 28520), (79, 28487), (80, 28472), (82, 28427), (84, 28418), (85, 28415),

Gene: CarolAnn_37 Start: 31464, Stop: 31222, Start Num: 62
Candidate Starts for CarolAnn_37:
(33, 31545), (42, 31518), (Start: 58 @31473 has 33 MA's), (Start: 62 @31464 has 110 MA's), (Start: 69 @31416 has 3 MA's), (70, 31413), (81, 31314), (82, 31272), (84, 31263),

Gene: Cashline_35 Start: 29499, Stop: 29272, Start Num: 62
Candidate Starts for Cashline_35:
(Start: 45 @29544 has 7 MA's), (Start: 62 @29499 has 110 MA's), (Start: 64 @29484 has 6 MA's), (65, 29481), (Start: 67 @29460 has 3 MA's), (68, 29454), (Start: 69 @29451 has 3 MA's), (70, 29448), (80, 29352), (84, 29298),

Gene: CheeseSpider_38 Start: 28731, Stop: 28504, Start Num: 61
Candidate Starts for CheeseSpider_38:
(Start: 61 @28731 has 1 MA's), (Start: 64 @28716 has 6 MA's), (65, 28713), (Start: 67 @28692 has 3 MA's), (70, 28680), (80, 28584), (84, 28530),

Gene: CheeseTouch_35 Start: 26657, Stop: 26421, Start Num: 58
Candidate Starts for CheeseTouch_35:
(Start: 58 @26657 has 33 MA's), (Start: 62 @26648 has 110 MA's), (Start: 63 @26645 has 19 MA's), (Start: 64 @26633 has 6 MA's), (Start: 67 @26609 has 3 MA's), (70, 26597), (73, 26549), (79, 26516), (80, 26501),

Gene: CherryCola_40 Start: 34544, Stop: 34272, Start Num: 45
Candidate Starts for CherryCola_40:
(Start: 45 @34544 has 7 MA's), (Start: 58 @34508 has 33 MA's), (Start: 62 @34499 has 110 MA's), (Start: 64 @34484 has 6 MA's), (Start: 67 @34460 has 3 MA's), (70, 34448), (73, 34400), (79, 34367), (80, 34352), (84, 34298),

Gene: Chipko_36 Start: 31057, Stop: 30833, Start Num: 63
Candidate Starts for Chipko_36:
(43, 31114), (Start: 62 @31060 has 110 MA's), (Start: 63 @31057 has 19 MA's), (Start: 64 @31045 has 6 MA's), (Start: 67 @31021 has 3 MA's), (68, 31015), (Start: 69 @31012 has 3 MA's), (70, 31009),

(78, 30934), (79, 30928), (80, 30913), (84, 30859),

Gene: ClamChowder_40 Start: 33752, Stop: 33516, Start Num: 58
Candidate Starts for ClamChowder_40:
(Start: 45 @33788 has 7 MA's), (Start: 58 @33752 has 33 MA's), (Start: 62 @33743 has 110 MA's), (Start: 64 @33728 has 6 MA's), (Start: 67 @33704 has 3 MA's), (70, 33692), (73, 33644), (79, 33611), (80, 33596), (84, 33542),

Gene: Clap_34 Start: 26548, Stop: 26321, Start Num: 62
Candidate Starts for Clap_34:
(Start: 57 @26557 has 3 MA's), (Start: 62 @26548 has 110 MA's), (65, 26530), (Start: 67 @26509 has 3 MA's), (70, 26497), (79, 26416), (80, 26401), (82, 26356), (83, 26350), (84, 26347),

Gene: Clark_33 Start: 26491, Stop: 26264, Start Num: 62
Candidate Starts for Clark_33:
(Start: 62 @26491 has 110 MA's), (Start: 64 @26476 has 6 MA's), (Start: 69 @26443 has 3 MA's), (70, 26440), (71, 26419), (78, 26365), (80, 26344), (84, 26290),

Gene: Clown_42 Start: 35272, Stop: 35024, Start Num: 62
Candidate Starts for Clown_42:
(8, 35458), (Start: 62 @35272 has 110 MA's), (Start: 64 @35257 has 6 MA's), (Start: 67 @35233 has 3 MA's), (Start: 69 @35224 has 3 MA's), (70, 35221), (71, 35200), (80, 35125), (84, 35071),

Gene: Confidence_30 Start: 26910, Stop: 26683, Start Num: 62
Candidate Starts for Confidence_30:
(51, 26937), (Start: 62 @26910 has 110 MA's), (Start: 63 @26907 has 19 MA's), (Start: 64 @26895 has 6 MA's), (Start: 67 @26871 has 3 MA's), (Start: 69 @26862 has 3 MA's), (70, 26859), (72, 26832), (77, 26790), (78, 26784), (79, 26778), (81, 26760), (84, 26709),

Gene: CoveyB_40 Start: 33543, Stop: 33316, Start Num: 62
Candidate Starts for CoveyB_40:
(Start: 45 @33588 has 7 MA's), (Start: 58 @33552 has 33 MA's), (Start: 62 @33543 has 110 MA's), (Start: 64 @33528 has 6 MA's), (Start: 67 @33504 has 3 MA's), (70, 33492), (79, 33411), (80, 33396), (84, 33342),

Gene: Crater_39 Start: 29158, Stop: 28931, Start Num: 62
Candidate Starts for Crater_39:
(Start: 45 @29203 has 7 MA's), (49, 29191), (Start: 62 @29158 has 110 MA's), (Start: 64 @29143 has 6 MA's), (65, 29140), (Start: 67 @29119 has 3 MA's), (70, 29107), (73, 29059), (75, 29044), (76, 29041), (78, 29032), (79, 29026), (80, 29011), (82, 28966), (84, 28957), (85, 28954),

Gene: Cynthia_34 Start: 26548, Stop: 26321, Start Num: 62
Candidate Starts for Cynthia_34:
(Start: 57 @26557 has 3 MA's), (Start: 62 @26548 has 110 MA's), (65, 26530), (Start: 67 @26509 has 3 MA's), (70, 26497), (79, 26416), (80, 26401), (82, 26356), (83, 26350), (84, 26347),

Gene: Danyall_40 Start: 33554, Stop: 33318, Start Num: 58
Candidate Starts for Danyall_40:
(Start: 45 @33590 has 7 MA's), (Start: 58 @33554 has 33 MA's), (Start: 62 @33545 has 110 MA's), (Start: 64 @33530 has 6 MA's), (Start: 67 @33506 has 3 MA's), (70, 33494), (79, 33413), (80, 33398), (84, 33344),

Gene: Delian_35 Start: 28617, Stop: 28390, Start Num: 62

Candidate Starts for Delian_35:
(Start: 45 @28662 has 7 MA's), (Start: 62 @28617 has 110 MA's), (Start: 64 @28602 has 6 MA's), (Start: 67 @28578 has 3 MA's), (70, 28566), (73, 28518), (79, 28485), (80, 28470), (82, 28425), (84, 28416), (85, 28413),

Gene: Denise_27 Start: 24591, Stop: 24364, Start Num: 62
Candidate Starts for Denise_27:
(Start: 62 @24591 has 110 MA's), (Start: 63 @24588 has 19 MA's), (Start: 64 @24576 has 6 MA's), (Start: 67 @24552 has 3 MA's), (68, 24546), (Start: 69 @24543 has 3 MA's), (70, 24540), (76, 24474), (80, 24444), (82, 24399), (84, 24390),

Gene: DirtyBoi_35 Start: 29162, Stop: 28926, Start Num: 58
Candidate Starts for DirtyBoi_35:
(Start: 58 @29162 has 33 MA's), (Start: 62 @29153 has 110 MA's), (Start: 64 @29138 has 6 MA's), (Start: 67 @29114 has 3 MA's), (70, 29102), (79, 29021), (80, 29006),

Gene: DobbysSock_28 Start: 25413, Stop: 25186, Start Num: 62
Candidate Starts for DobbysSock_28:
(Start: 62 @25413 has 110 MA's), (Start: 64 @25398 has 6 MA's), (Start: 69 @25365 has 3 MA's), (70, 25362), (71, 25341), (78, 25287), (80, 25266), (84, 25212),

Gene: Doggs_32 Start: 28809, Stop: 28585, Start Num: 58
Candidate Starts for Doggs_32:
(56, 28812), (Start: 58 @28809 has 33 MA's), (Start: 69 @28764 has 3 MA's), (70, 28761), (80, 28665), (81, 28662), (82, 28620), (84, 28611),

Gene: Dorito_30 Start: 25057, Stop: 24830, Start Num: 62
Candidate Starts for Dorito_30:
(Start: 62 @25057 has 110 MA's), (Start: 64 @25042 has 6 MA's), (Start: 69 @25009 has 3 MA's), (70, 25006), (71, 24985), (78, 24931), (80, 24910), (84, 24856),

Gene: DumpsterDude_34 Start: 31000, Stop: 30773, Start Num: 62
Candidate Starts for DumpsterDude_34:
(Start: 47 @31036 has 1 MA's), (Start: 60 @31003 has 1 MA's), (Start: 62 @31000 has 110 MA's), (Start: 69 @30952 has 3 MA's), (70, 30949), (79, 30868), (80, 30853), (82, 30808), (84, 30799),

Gene: EMsquaredA_32 Start: 27060, Stop: 26788, Start Num: 45
Candidate Starts for EMsquaredA_32:
(Start: 45 @27060 has 7 MA's), (Start: 62 @27015 has 110 MA's), (Start: 69 @26967 has 3 MA's), (70, 26964), (72, 26937), (80, 26868),

Gene: Easley_33 Start: 26425, Stop: 26213, Start Num: 64
Candidate Starts for Easley_33:
(Start: 62 @26440 has 110 MA's), (Start: 64 @26425 has 6 MA's), (Start: 67 @26401 has 3 MA's), (Start: 69 @26392 has 3 MA's), (70, 26389), (71, 26368), (80, 26293), (84, 26239),

Gene: Ebert_35 Start: 26481, Stop: 26245, Start Num: 57
Candidate Starts for Ebert_35:
(Start: 57 @26481 has 3 MA's), (Start: 62 @26472 has 110 MA's), (65, 26454), (Start: 67 @26433 has 3 MA's), (70, 26421), (79, 26340), (80, 26325), (82, 26280), (83, 26274), (84, 26271),

Gene: Ecliptus_38 Start: 30614, Stop: 30387, Start Num: 62
Candidate Starts for Ecliptus_38:

(Start: 45 @30659 has 7 MA's), (Start: 62 @30614 has 110 MA's), (Start: 64 @30599 has 6 MA's), (65, 30596), (Start: 67 @30575 has 3 MA's), (70, 30563), (79, 30482), (80, 30467), (82, 30422), (84, 30413),

Gene: Egi03_38 Start: 33223, Stop: 32996, Start Num: 62
Candidate Starts for Egi03_38:
(Start: 45 @33268 has 7 MA's), (Start: 58 @33232 has 33 MA's), (Start: 62 @33223 has 110 MA's), (Start: 64 @33208 has 6 MA's), (Start: 67 @33184 has 3 MA's), (70, 33172), (79, 33091), (80, 33076), (84, 33022),

Gene: EnalisNailo_32 Start: 27995, Stop: 27765, Start Num: 62
Candidate Starts for EnalisNailo_32:
(Start: 62 @27995 has 110 MA's), (Start: 63 @27992 has 19 MA's), (Start: 64 @27980 has 6 MA's), (Start: 67 @27956 has 3 MA's), (70, 27944), (79, 27863), (80, 27848), (82, 27803), (84, 27794),

Gene: Evamon_37 Start: 33573, Stop: 33337, Start Num: 58
Candidate Starts for Evamon_37:
(Start: 45 @33609 has 7 MA's), (Start: 58 @33573 has 33 MA's), (Start: 62 @33564 has 110 MA's), (Start: 64 @33549 has 6 MA's), (Start: 67 @33525 has 3 MA's), (70, 33513), (79, 33432), (80, 33417), (84, 33363),

Gene: Eviarto_31 Start: 28820, Stop: 28584, Start Num: 62
Candidate Starts for Eviarto_31:
(Start: 59 @28826 has 2 MA's), (Start: 62 @28820 has 110 MA's), (Start: 64 @28805 has 6 MA's), (65, 28802), (Start: 67 @28781 has 3 MA's), (68, 28775), (Start: 69 @28772 has 3 MA's), (70, 28769), (80, 28673),

Gene: Eyes_32 Start: 27913, Stop: 27686, Start Num: 62
Candidate Starts for Eyes_32:
(Start: 45 @27958 has 7 MA's), (Start: 62 @27913 has 110 MA's), (Start: 64 @27898 has 6 MA's), (70, 27862), (75, 27799), (78, 27787), (80, 27766), (82, 27721), (84, 27712),

Gene: Fairfaxidum_37 Start: 30093, Stop: 29866, Start Num: 62
Candidate Starts for Fairfaxidum_37:
(Start: 62 @30093 has 110 MA's), (Start: 67 @30054 has 3 MA's), (Start: 69 @30045 has 3 MA's), (70, 30042), (71, 30021), (80, 29946),

Gene: Fenry_33 Start: 28854, Stop: 28627, Start Num: 62
Candidate Starts for Fenry_33:
(Start: 45 @28899 has 7 MA's), (Start: 62 @28854 has 110 MA's), (Start: 64 @28839 has 6 MA's), (Start: 67 @28815 has 3 MA's), (70, 28803), (79, 28722), (80, 28707), (84, 28653),

Gene: Fireball_38 Start: 33687, Stop: 33460, Start Num: 62
Candidate Starts for Fireball_38:
(Start: 45 @33732 has 7 MA's), (Start: 58 @33696 has 33 MA's), (Start: 62 @33687 has 110 MA's), (Start: 64 @33672 has 6 MA's), (Start: 67 @33648 has 3 MA's), (70, 33636), (79, 33555), (80, 33540), (84, 33486),

Gene: Floral_33 Start: 29088, Stop: 28861, Start Num: 62
Candidate Starts for Floral_33:
(Start: 45 @29133 has 7 MA's), (Start: 62 @29088 has 110 MA's), (Start: 69 @29040 has 3 MA's), (70, 29037), (72, 29010), (80, 28941),

Gene: Frickyeah_37 Start: 28187, Stop: 27960, Start Num: 62
Candidate Starts for Frickyeah_37:
(Start: 58 @28196 has 33 MA's), (Start: 62 @28187 has 110 MA's), (Start: 63 @28184 has 19 MA's), (Start: 64 @28172 has 6 MA's), (Start: 67 @28148 has 3 MA's), (70, 28136), (79, 28055), (80, 28040), (84, 27986),

Gene: FroggyToad_35 Start: 27684, Stop: 27508, Start Num: 70
Candidate Starts for FroggyToad_35:
(Start: 62 @27735 has 110 MA's), (Start: 69 @27687 has 3 MA's), (70, 27684), (72, 27657), (78, 27609), (84, 27534),

Gene: Frokostdame_35 Start: 28824, Stop: 28597, Start Num: 62
Candidate Starts for Frokostdame_35:
(Start: 45 @28869 has 7 MA's), (Start: 62 @28824 has 110 MA's), (Start: 64 @28809 has 6 MA's), (Start: 67 @28785 has 3 MA's), (Start: 69 @28776 has 3 MA's), (70, 28773), (79, 28692), (80, 28677),

Gene: Fugax_41 Start: 33735, Stop: 33508, Start Num: 62
Candidate Starts for Fugax_41:
(Start: 45 @33780 has 7 MA's), (Start: 58 @33744 has 33 MA's), (Start: 62 @33735 has 110 MA's), (Start: 64 @33720 has 6 MA's), (Start: 67 @33696 has 3 MA's), (70, 33684), (73, 33636), (79, 33603), (80, 33588), (84, 33534),

Gene: GEazy_36 Start: 28931, Stop: 28659, Start Num: 45
Candidate Starts for GEazy_36:
(Start: 45 @28931 has 7 MA's), (Start: 62 @28886 has 110 MA's), (70, 28835), (81, 28736), (84, 28685),

Gene: Gambino_36 Start: 28987, Stop: 28799, Start Num: 67
Candidate Starts for Gambino_36:
(Start: 45 @29071 has 7 MA's), (Start: 62 @29026 has 110 MA's), (Start: 67 @28987 has 3 MA's), (Start: 69 @28978 has 3 MA's), (70, 28975), (76, 28909), (79, 28894), (81, 28876), (84, 28825),

Gene: GemG_34 Start: 26548, Stop: 26321, Start Num: 62
Candidate Starts for GemG_34:
(Start: 57 @26557 has 3 MA's), (Start: 62 @26548 has 110 MA's), (65, 26530), (Start: 67 @26509 has 3 MA's), (70, 26497), (79, 26416), (80, 26401), (82, 26356), (83, 26350), (84, 26347),

Gene: Getalong_38 Start: 30905, Stop: 30681, Start Num: 63
Candidate Starts for Getalong_38:
(Start: 62 @30908 has 110 MA's), (Start: 63 @30905 has 19 MA's), (Start: 64 @30893 has 6 MA's), (65, 30890), (70, 30857), (73, 30809), (78, 30782), (79, 30776), (80, 30761), (84, 30707),

Gene: Gezellig_37 Start: 33705, Stop: 33469, Start Num: 58
Candidate Starts for Gezellig_37:
(Start: 45 @33741 has 7 MA's), (Start: 58 @33705 has 33 MA's), (Start: 62 @33696 has 110 MA's), (Start: 64 @33681 has 6 MA's), (Start: 67 @33657 has 3 MA's), (70, 33645), (79, 33564), (80, 33549), (84, 33495),

Gene: Gizermo_34 Start: 26548, Stop: 26321, Start Num: 62
Candidate Starts for Gizermo_34:
(Start: 57 @26557 has 3 MA's), (Start: 62 @26548 has 110 MA's), (65, 26530), (Start: 67 @26509 has 3 MA's), (70, 26497), (79, 26416), (80, 26401), (82, 26356), (83, 26350), (84, 26347),

Gene: Guacamole_34 Start: 29704, Stop: 29477, Start Num: 62
Candidate Starts for Guacamole_34:
(Start: 62 @29704 has 110 MA's), (Start: 64 @29689 has 6 MA's), (Start: 67 @29665 has 3 MA's), (70, 29653), (73, 29605), (80, 29557), (84, 29503),

Gene: Haley23_34 Start: 26548, Stop: 26321, Start Num: 62
Candidate Starts for Haley23_34:
(Start: 57 @26557 has 3 MA's), (Start: 62 @26548 has 110 MA's), (65, 26530), (Start: 67 @26509 has 3 MA's), (70, 26497), (79, 26416), (80, 26401), (82, 26356), (83, 26350), (84, 26347),

Gene: Halo3_38 Start: 33998, Stop: 33762, Start Num: 58
Candidate Starts for Halo3_38:
(Start: 45 @34034 has 7 MA's), (Start: 58 @33998 has 33 MA's), (Start: 62 @33989 has 110 MA's), (Start: 64 @33974 has 6 MA's), (Start: 67 @33950 has 3 MA's), (70, 33938), (79, 33857), (80, 33842), (84, 33788),

Gene: HannahD_34 Start: 28251, Stop: 28024, Start Num: 62
Candidate Starts for HannahD_34:
(Start: 45 @28296 has 7 MA's), (Start: 62 @28251 has 110 MA's), (70, 28200), (81, 28101), (84, 28050),

Gene: Hedwig_37 Start: 29585, Stop: 29349, Start Num: 58
Candidate Starts for Hedwig_37:
(Start: 58 @29585 has 33 MA's), (Start: 62 @29576 has 110 MA's), (Start: 64 @29561 has 6 MA's), (Start: 67 @29537 has 3 MA's), (70, 29525), (79, 29444), (80, 29429),

Gene: Herod_31 Start: 28850, Stop: 28608, Start Num: 59
Candidate Starts for Herod_31:
(Start: 59 @28850 has 2 MA's), (Start: 62 @28844 has 110 MA's), (Start: 64 @28829 has 6 MA's), (65, 28826), (Start: 67 @28805 has 3 MA's), (68, 28799), (Start: 69 @28796 has 3 MA's), (70, 28793), (80, 28697), (85, 28640),

Gene: Hitter_34 Start: 28938, Stop: 28711, Start Num: 62
Candidate Starts for Hitter_34:
(Start: 45 @28983 has 7 MA's), (Start: 62 @28938 has 110 MA's), (Start: 64 @28923 has 6 MA's), (65, 28920), (Start: 67 @28899 has 3 MA's), (Start: 69 @28890 has 3 MA's), (70, 28887), (73, 28839), (80, 28791), (82, 28746), (84, 28737),

Gene: Holliday_36 Start: 28771, Stop: 28535, Start Num: 58
Candidate Starts for Holliday_36:
(Start: 58 @28771 has 33 MA's), (Start: 62 @28762 has 110 MA's), (Start: 63 @28759 has 19 MA's), (Start: 64 @28747 has 6 MA's), (Start: 67 @28723 has 3 MA's), (70, 28711), (78, 28636), (79, 28630), (80, 28615), (82, 28570), (84, 28561),

Gene: Hortense_32 Start: 28665, Stop: 28453, Start Num: 64
Candidate Starts for Hortense_32:
(Start: 64 @28665 has 6 MA's), (Start: 67 @28641 has 3 MA's), (Start: 69 @28632 has 3 MA's), (70, 28629), (71, 28608), (80, 28533), (82, 28488), (84, 28479),

Gene: Horus_37 Start: 30117, Stop: 29881, Start Num: 58
Candidate Starts for Horus_37:
(Start: 58 @30117 has 33 MA's), (Start: 62 @30108 has 110 MA's), (Start: 63 @30105 has 19 MA's), (Start: 64 @30093 has 6 MA's), (Start: 67 @30069 has 3 MA's), (70, 30057), (79, 29976), (80, 29961),

(84, 29907),

Gene: Howe_32 Start: 28665, Stop: 28453, Start Num: 64
Candidate Starts for Howe_32:
(Start: 64 @28665 has 6 MA's), (Start: 67 @28641 has 3 MA's), (Start: 69 @28632 has 3 MA's), (70, 28629), (71, 28608), (80, 28533), (82, 28488), (84, 28479),

Gene: Hugley_30 Start: 28849, Stop: 28607, Start Num: 59
Candidate Starts for Hugley_30:
(Start: 59 @28849 has 2 MA's), (Start: 62 @28843 has 110 MA's), (Start: 64 @28828 has 6 MA's), (65, 28825), (Start: 67 @28804 has 3 MA's), (68, 28798), (Start: 69 @28795 has 3 MA's), (70, 28792), (80, 28696), (85, 28639),

Gene: InLimbo_32 Start: 25604, Stop: 25428, Start Num: 70
Candidate Starts for InLimbo_32:
(Start: 62 @25655 has 110 MA's), (Start: 63 @25652 has 19 MA's), (Start: 64 @25640 has 6 MA's), (65, 25637), (Start: 67 @25616 has 3 MA's), (70, 25604), (76, 25538), (80, 25508), (84, 25454),

Gene: Invectra_34 Start: 27219, Stop: 26992, Start Num: 62
Candidate Starts for Invectra_34:
(Start: 62 @27219 has 110 MA's), (Start: 64 @27204 has 6 MA's), (Start: 67 @27180 has 3 MA's), (Start: 69 @27171 has 3 MA's), (70, 27168), (71, 27147), (80, 27072), (84, 27018),

Gene: JCole_27 Start: 23464, Stop: 23237, Start Num: 62
Candidate Starts for JCole_27:
(Start: 62 @23464 has 110 MA's), (Start: 64 @23449 has 6 MA's), (Start: 67 @23425 has 3 MA's), (70, 23413), (79, 23332), (80, 23317), (82, 23272), (84, 23263),

Gene: Jablanski_35 Start: 30024, Stop: 29797, Start Num: 62
Candidate Starts for Jablanski_35:
(Start: 62 @30024 has 110 MA's), (Start: 64 @30009 has 6 MA's), (Start: 67 @29985 has 3 MA's), (68, 29979), (Start: 69 @29976 has 3 MA's), (70, 29973), (79, 29892), (80, 29877), (82, 29832), (84, 29823),

Gene: Jalammah_36 Start: 30107, Stop: 29880, Start Num: 62
Candidate Starts for Jalammah_36:
(28, 30212), (39, 30176), (Start: 62 @30107 has 110 MA's), (Start: 63 @30104 has 19 MA's), (Start: 64 @30092 has 6 MA's), (65, 30089), (Start: 67 @30068 has 3 MA's), (70, 30056), (73, 30008), (80, 29960), (84, 29906),

Gene: Jalleen_33 Start: 26187, Stop: 25960, Start Num: 62
Candidate Starts for Jalleen_33:
(Start: 57 @26196 has 3 MA's), (Start: 62 @26187 has 110 MA's), (65, 26169), (Start: 67 @26148 has 3 MA's), (70, 26136), (79, 26055), (80, 26040), (82, 25995), (83, 25989), (84, 25986),

Gene: Jambalaya_37 Start: 33343, Stop: 33116, Start Num: 62
Candidate Starts for Jambalaya_37:
(Start: 45 @33388 has 7 MA's), (Start: 58 @33352 has 33 MA's), (Start: 62 @33343 has 110 MA's), (Start: 64 @33328 has 6 MA's), (Start: 67 @33304 has 3 MA's), (70, 33292), (79, 33211), (80, 33196), (84, 33142),

Gene: JasperJr_34 Start: 29704, Stop: 29477, Start Num: 62
Candidate Starts for JasperJr_34:

(Start: 62 @29704 has 110 MA's), (Start: 64 @29689 has 6 MA's), (Start: 67 @29665 has 3 MA's), (70, 29653), (73, 29605), (80, 29557), (84, 29503),

Gene: Jecs_32 Start: 27371, Stop: 27135, Start Num: 58
Candidate Starts for Jecs_32:
(43, 27419), (Start: 58 @27371 has 33 MA's), (Start: 62 @27362 has 110 MA's), (Start: 67 @27323 has 3 MA's), (68, 27317), (70, 27311), (80, 27215), (82, 27170), (84, 27161),

Gene: JohnPork_38 Start: 33073, Stop: 32837, Start Num: 58
Candidate Starts for JohnPork_38:
(Start: 45 @33109 has 7 MA's), (Start: 58 @33073 has 33 MA's), (Start: 62 @33064 has 110 MA's), (Start: 64 @33049 has 6 MA's), (Start: 67 @33025 has 3 MA's), (70, 33013), (79, 32932), (80, 32917), (84, 32863),

Gene: JuJu_36 Start: 29305, Stop: 29078, Start Num: 62
Candidate Starts for JuJu_36:
(Start: 45 @29350 has 7 MA's), (Start: 62 @29305 has 110 MA's), (Start: 64 @29290 has 6 MA's), (Start: 67 @29266 has 3 MA's), (68, 29260), (Start: 69 @29257 has 3 MA's), (70, 29254), (79, 29173), (80, 29158),

Gene: Kamaru_36 Start: 28771, Stop: 28535, Start Num: 58
Candidate Starts for Kamaru_36:
(Start: 58 @28771 has 33 MA's), (Start: 59 @28768 has 2 MA's), (Start: 62 @28762 has 110 MA's), (Start: 64 @28747 has 6 MA's), (65, 28744), (Start: 67 @28723 has 3 MA's), (70, 28711), (73, 28663), (78, 28636), (79, 28630), (80, 28615), (82, 28570), (84, 28561),

Gene: KappaFarmDelta_37 Start: 28565, Stop: 28341, Start Num: 63
Candidate Starts for KappaFarmDelta_37:
(9, 28748), (13, 28730), (21, 28688), (Start: 60 @28571 has 1 MA's), (Start: 62 @28568 has 110 MA's), (Start: 63 @28565 has 19 MA's), (Start: 64 @28553 has 6 MA's), (65, 28550), (Start: 67 @28529 has 3 MA's), (Start: 69 @28520 has 3 MA's), (70, 28517), (77, 28448), (78, 28442), (81, 28418), (82, 28376), (84, 28367),

Gene: Kenna_36 Start: 29098, Stop: 28871, Start Num: 62
Candidate Starts for Kenna_36:
(Start: 58 @29107 has 33 MA's), (Start: 62 @29098 has 110 MA's), (Start: 63 @29095 has 19 MA's), (Start: 64 @29083 has 6 MA's), (Start: 67 @29059 has 3 MA's), (70, 29047), (73, 28999), (75, 28984), (78, 28972), (79, 28966), (80, 28951), (82, 28906),

Gene: Kiko_35 Start: 27318, Stop: 27091, Start Num: 62
Candidate Starts for Kiko_35:
(Start: 62 @27318 has 110 MA's), (Start: 64 @27303 has 6 MA's), (Start: 67 @27279 has 3 MA's), (Start: 69 @27270 has 3 MA's), (70, 27267), (71, 27246), (73, 27219), (77, 27198), (80, 27171), (84, 27117),

Gene: KimmyK_39 Start: 34287, Stop: 34051, Start Num: 58
Candidate Starts for KimmyK_39:
(Start: 45 @34323 has 7 MA's), (Start: 58 @34287 has 33 MA's), (Start: 62 @34278 has 110 MA's), (Start: 64 @34263 has 6 MA's), (Start: 67 @34239 has 3 MA's), (70, 34227), (79, 34146), (80, 34131), (84, 34077),

Gene: Kuwabara_36 Start: 29465, Stop: 29238, Start Num: 62
Candidate Starts for Kuwabara_36:

(Start: 62 @29465 has 110 MA's), (Start: 63 @29462 has 19 MA's), (Start: 64 @29450 has 6 MA's), (Start: 67 @29426 has 3 MA's), (70, 29414), (73, 29366), (78, 29339), (79, 29333), (80, 29318), (82, 29273), (84, 29264),

Gene: Leroy_37 Start: 30118, Stop: 29882, Start Num: 58
Candidate Starts for Leroy_37:
(Start: 58 @30118 has 33 MA's), (Start: 62 @30109 has 110 MA's), (Start: 63 @30106 has 19 MA's), (Start: 64 @30094 has 6 MA's), (Start: 67 @30070 has 3 MA's), (70, 30058), (79, 29977), (80, 29962), (84, 29908),

Gene: Lilas_35 Start: 29703, Stop: 29476, Start Num: 63
Candidate Starts for Lilas_35:
(Start: 62 @29706 has 110 MA's), (Start: 63 @29703 has 19 MA's), (Start: 64 @29691 has 6 MA's), (Start: 67 @29667 has 3 MA's), (70, 29655), (79, 29574), (80, 29559), (82, 29514), (84, 29505),

Gene: LitninMcQueen_35 Start: 28514, Stop: 28278, Start Num: 58
Candidate Starts for LitninMcQueen_35:
(Start: 58 @28514 has 33 MA's), (Start: 59 @28511 has 2 MA's), (Start: 62 @28505 has 110 MA's), (Start: 64 @28490 has 6 MA's), (65, 28487), (Start: 67 @28466 has 3 MA's), (70, 28454), (73, 28406), (78, 28379), (79, 28373), (80, 28358), (82, 28313), (84, 28304),

Gene: LonelyBoi_32 Start: 30030, Stop: 29803, Start Num: 62
Candidate Starts for LonelyBoi_32:
(5, 30270), (11, 30207), (20, 30159), (Start: 62 @30030 has 110 MA's), (Start: 64 @30015 has 6 MA's), (Start: 67 @29991 has 3 MA's), (70, 29979), (79, 29898), (80, 29883), (84, 29829),

Gene: Lton_27 Start: 23149, Stop: 22922, Start Num: 62
Candidate Starts for Lton_27:
(Start: 45 @23194 has 7 MA's), (Start: 62 @23149 has 110 MA's), (Start: 64 @23134 has 6 MA's), (Start: 67 @23110 has 3 MA's), (70, 23098), (73, 23050), (78, 23023), (79, 23017), (80, 23002), (82, 22957), (84, 22948),

Gene: Lucky10_31 Start: 26592, Stop: 26320, Start Num: 45
Candidate Starts for Lucky10_31:
(Start: 45 @26592 has 7 MA's), (Start: 62 @26547 has 110 MA's), (Start: 63 @26544 has 19 MA's), (Start: 64 @26532 has 6 MA's), (65, 26529), (Start: 67 @26508 has 3 MA's), (70, 26496), (80, 26400), (84, 26346),

Gene: Lutum_37 Start: 29098, Stop: 28871, Start Num: 62
Candidate Starts for Lutum_37:
(Start: 58 @29107 has 33 MA's), (Start: 62 @29098 has 110 MA's), (Start: 63 @29095 has 19 MA's), (Start: 64 @29083 has 6 MA's), (Start: 67 @29059 has 3 MA's), (70, 29047), (73, 28999), (75, 28984), (78, 28972), (79, 28966), (80, 28951), (82, 28906),

Gene: Lysidious_35 Start: 29428, Stop: 29201, Start Num: 62
Candidate Starts for Lysidious_35:
(Start: 58 @29437 has 33 MA's), (Start: 62 @29428 has 110 MA's), (Start: 64 @29413 has 6 MA's), (65, 29410), (Start: 67 @29389 has 3 MA's), (70, 29377), (73, 29329), (80, 29281), (84, 29227),

Gene: Malachai_36 Start: 30625, Stop: 30392, Start Num: 62
Candidate Starts for Malachai_36:
(Start: 62 @30625 has 110 MA's), (65, 30607), (Start: 67 @30586 has 3 MA's), (70, 30574), (75, 30511), (79, 30493), (80, 30478), (84, 30424), (86, 30400),

Gene: Malibo_36 Start: 29104, Stop: 28877, Start Num: 62
Candidate Starts for Malibo_36:
(Start: 45 @29149 has 7 MA's), (Start: 62 @29104 has 110 MA's), (Start: 69 @29056 has 3 MA's), (70, 29053), (72, 29026), (80, 28957), (84, 28903),

Gene: Malisha_37 Start: 29280, Stop: 29056, Start Num: 63
Candidate Starts for Malisha_37:
(Start: 58 @29292 has 33 MA's), (Start: 62 @29283 has 110 MA's), (Start: 63 @29280 has 19 MA's), (Start: 64 @29268 has 6 MA's), (Start: 67 @29244 has 3 MA's), (70, 29232), (79, 29151), (80, 29136), (82, 29091),

Gene: Marteena_32 Start: 27060, Stop: 26788, Start Num: 45
Candidate Starts for Marteena_32:
(Start: 45 @27060 has 7 MA's), (Start: 62 @27015 has 110 MA's), (Start: 69 @26967 has 3 MA's), (70, 26964), (72, 26937), (80, 26868),

Gene: Matteo_28 Start: 24466, Stop: 24239, Start Num: 62
Candidate Starts for Matteo_28:
(17, 24595), (23, 24580), (24, 24577), (25, 24574), (Start: 45 @24511 has 7 MA's), (Start: 58 @24475 has 33 MA's), (Start: 62 @24466 has 110 MA's), (Start: 63 @24463 has 19 MA's), (Start: 64 @24451 has 6 MA's), (65, 24448), (Start: 67 @24427 has 3 MA's), (70, 24415), (73, 24367), (79, 24334), (80, 24319), (84, 24265),

Gene: Mcklovin_32 Start: 30905, Stop: 30678, Start Num: 62
Candidate Starts for Mcklovin_32:
(Start: 62 @30905 has 110 MA's), (Start: 64 @30890 has 6 MA's), (Start: 67 @30866 has 3 MA's), (Start: 69 @30857 has 3 MA's), (70, 30854), (71, 30833), (80, 30758), (84, 30704),

Gene: MichaelScott_33 Start: 27967, Stop: 27740, Start Num: 62
Candidate Starts for MichaelScott_33:
(Start: 62 @27967 has 110 MA's), (Start: 64 @27952 has 6 MA's), (Start: 69 @27919 has 3 MA's), (70, 27916), (71, 27895), (78, 27841), (80, 27820), (84, 27766),

Gene: MintFen_33 Start: 29240, Stop: 29013, Start Num: 62
Candidate Starts for MintFen_33:
(Start: 45 @29285 has 7 MA's), (Start: 62 @29240 has 110 MA's), (Start: 64 @29225 has 6 MA's), (65, 29222), (70, 29189), (73, 29141), (79, 29108), (80, 29093), (84, 29039),

Gene: MissRona_35 Start: 29026, Stop: 28799, Start Num: 62
Candidate Starts for MissRona_35:
(12, 29194), (14, 29167), (Start: 45 @29071 has 7 MA's), (Start: 62 @29026 has 110 MA's), (Start: 67 @28987 has 3 MA's), (Start: 69 @28978 has 3 MA's), (70, 28975), (76, 28909), (79, 28894), (81, 28876), (84, 28825),

Gene: Mocha12_34 Start: 26548, Stop: 26321, Start Num: 62
Candidate Starts for Mocha12_34:
(Start: 57 @26557 has 3 MA's), (Start: 62 @26548 has 110 MA's), (65, 26530), (Start: 67 @26509 has 3 MA's), (70, 26497), (79, 26416), (80, 26401), (82, 26356), (83, 26350), (84, 26347),

Gene: Moonflower_34 Start: 28635, Stop: 28411, Start Num: 63
Candidate Starts for Moonflower_34:

(Start: 45 @28683 has 7 MA's), (Start: 62 @28638 has 110 MA's), (Start: 63 @28635 has 19 MA's), (Start: 64 @28623 has 6 MA's), (Start: 67 @28599 has 3 MA's), (70, 28587), (79, 28506), (80, 28491), (84, 28437),

Gene: Moosehead_29 Start: 23632, Stop: 23405, Start Num: 62
Candidate Starts for Moosehead_29:
(Start: 62 @23632 has 110 MA's), (65, 23614), (Start: 67 @23593 has 3 MA's), (68, 23587), (Start: 69 @23584 has 3 MA's), (70, 23581), (76, 23515), (78, 23506), (79, 23500), (80, 23485), (82, 23440), (84, 23431),

Gene: Morkie_30 Start: 25204, Stop: 24980, Start Num: 63
Candidate Starts for Morkie_30:
(Start: 62 @25207 has 110 MA's), (Start: 63 @25204 has 19 MA's), (Start: 64 @25192 has 6 MA's), (65, 25189), (Start: 67 @25168 has 3 MA's), (70, 25156), (76, 25090), (80, 25060), (84, 25006),

Gene: MortyNRick_34 Start: 28519, Stop: 28292, Start Num: 62
Candidate Starts for MortyNRick_34:
(Start: 62 @28519 has 110 MA's), (Start: 63 @28516 has 19 MA's), (Start: 64 @28504 has 6 MA's), (65, 28501), (Start: 67 @28480 has 3 MA's), (70, 28468), (73, 28420), (78, 28393), (79, 28387), (80, 28372), (82, 28327), (84, 28318),

Gene: NaLuna_34 Start: 28251, Stop: 28024, Start Num: 62
Candidate Starts for NaLuna_34:
(Start: 45 @28296 has 7 MA's), (Start: 62 @28251 has 110 MA's), (70, 28200), (81, 28101), (84, 28050),

Gene: Nubi_38 Start: 33576, Stop: 33340, Start Num: 58
Candidate Starts for Nubi_38:
(Start: 45 @33612 has 7 MA's), (Start: 58 @33576 has 33 MA's), (Start: 62 @33567 has 110 MA's), (Start: 64 @33552 has 6 MA's), (Start: 67 @33528 has 3 MA's), (70, 33516), (79, 33435), (80, 33420), (84, 33366),

Gene: Nymphadora_31 Start: 28844, Stop: 28608, Start Num: 62
Candidate Starts for Nymphadora_31:
(Start: 59 @28850 has 2 MA's), (Start: 62 @28844 has 110 MA's), (Start: 64 @28829 has 6 MA's), (65, 28826), (Start: 67 @28805 has 3 MA's), (68, 28799), (Start: 69 @28796 has 3 MA's), (70, 28793), (80, 28697),

Gene: ODay_40 Start: 30569, Stop: 30345, Start Num: 63
Candidate Starts for ODay_40:
(Start: 58 @30581 has 33 MA's), (Start: 62 @30572 has 110 MA's), (Start: 63 @30569 has 19 MA's), (Start: 64 @30557 has 6 MA's), (Start: 67 @30533 has 3 MA's), (70, 30521), (79, 30440), (80, 30425), (84, 30371),

Gene: Obliviate_32 Start: 28122, Stop: 27895, Start Num: 62
Candidate Starts for Obliviate_32:
(Start: 62 @28122 has 110 MA's), (Start: 63 @28119 has 19 MA's), (Start: 64 @28107 has 6 MA's), (65, 28104), (Start: 67 @28083 has 3 MA's), (70, 28071), (80, 27975), (84, 27921),

Gene: Ohgeesy_34 Start: 29848, Stop: 29636, Start Num: 64
Candidate Starts for Ohgeesy_34:
(22, 29983), (36, 29935), (46, 29908), (Start: 60 @29866 has 1 MA's), (Start: 62 @29863 has 110 MA's), (Start: 64 @29848 has 6 MA's), (Start: 67 @29824 has 3 MA's), (68, 29818), (Start: 69 @29815

has 3 MA's), (70, 29812), (80, 29716), (84, 29662),

Gene: OneDirection_28 Start: 23826, Stop: 23602, Start Num: 63
Candidate Starts for OneDirection_28:
(Start: 62 @23829 has 110 MA's), (Start: 63 @23826 has 19 MA's), (Start: 64 @23814 has 6 MA's), (65, 23811), (Start: 67 @23790 has 3 MA's), (70, 23778), (76, 23712), (80, 23682), (84, 23628),

Gene: Opie_35 Start: 29554, Stop: 29327, Start Num: 62
Candidate Starts for Opie_35:
(29, 29647), (40, 29614), (Start: 62 @29554 has 110 MA's), (Start: 69 @29506 has 3 MA's), (70, 29503), (72, 29476), (80, 29407), (84, 29353),

Gene: Oregano_34 Start: 27096, Stop: 26869, Start Num: 62
Candidate Starts for Oregano_34:
(Start: 62 @27096 has 110 MA's), (Start: 64 @27081 has 6 MA's), (Start: 69 @27048 has 3 MA's), (70, 27045), (71, 27024), (80, 26949), (84, 26895),

Gene: PCoral7_34 Start: 28574, Stop: 28347, Start Num: 62
Candidate Starts for PCoral7_34:
(Start: 62 @28574 has 110 MA's), (Start: 64 @28559 has 6 MA's), (Start: 67 @28535 has 3 MA's), (68, 28529), (Start: 69 @28526 has 3 MA's), (70, 28523), (71, 28502), (80, 28427), (84, 28373),

Gene: Pepperoni_29 Start: 24972, Stop: 24748, Start Num: 63
Candidate Starts for Pepperoni_29:
(Start: 62 @24975 has 110 MA's), (Start: 63 @24972 has 19 MA's), (Start: 64 @24960 has 6 MA's), (Start: 67 @24936 has 3 MA's), (70, 24924), (79, 24843), (80, 24828), (84, 24774),

Gene: Periwinkle_40 Start: 30562, Stop: 30326, Start Num: 58
Candidate Starts for Periwinkle_40:
(Start: 58 @30562 has 33 MA's), (Start: 62 @30553 has 110 MA's), (Start: 63 @30550 has 19 MA's), (Start: 64 @30538 has 6 MA's), (Start: 67 @30514 has 3 MA's), (70, 30502), (79, 30421), (80, 30406), (84, 30352),

Gene: Petra_35 Start: 29575, Stop: 29345, Start Num: 60
Candidate Starts for Petra_35:
(Start: 60 @29575 has 1 MA's), (Start: 62 @29572 has 110 MA's), (Start: 64 @29557 has 6 MA's), (65, 29554), (Start: 67 @29533 has 3 MA's), (70, 29521), (80, 29425), (84, 29371),

Gene: Phabuloso_34 Start: 28807, Stop: 28583, Start Num: 63
Candidate Starts for Phabuloso_34:
(Start: 58 @28819 has 33 MA's), (Start: 62 @28810 has 110 MA's), (Start: 63 @28807 has 19 MA's), (Start: 64 @28795 has 6 MA's), (Start: 67 @28771 has 3 MA's), (70, 28759), (79, 28678), (80, 28663), (82, 28618), (84, 28609),

Gene: PhaoMing_29 Start: 26379, Stop: 26155, Start Num: 63
Candidate Starts for PhaoMing_29:
(Start: 45 @26427 has 7 MA's), (Start: 62 @26382 has 110 MA's), (Start: 63 @26379 has 19 MA's), (Start: 64 @26367 has 6 MA's), (65, 26364), (Start: 67 @26343 has 3 MA's), (68, 26337), (Start: 69 @26334 has 3 MA's), (70, 26331), (78, 26256), (79, 26250), (82, 26190), (84, 26181),

Gene: Phistory_37 Start: 29459, Stop: 29223, Start Num: 58
Candidate Starts for Phistory_37:

(Start: 58 @29459 has 33 MA's), (Start: 62 @29450 has 110 MA's), (Start: 63 @29447 has 19 MA's), (Start: 64 @29435 has 6 MA's), (Start: 67 @29411 has 3 MA's), (70, 29399), (79, 29318), (80, 29303), (84, 29249),

Gene: Phlop_37 Start: 33648, Stop: 33421, Start Num: 62
Candidate Starts for Phlop_37:
(Start: 45 @33693 has 7 MA's), (Start: 58 @33657 has 33 MA's), (Start: 62 @33648 has 110 MA's), (Start: 64 @33633 has 6 MA's), (Start: 67 @33609 has 3 MA's), (70, 33597), (79, 33516), (80, 33501), (84, 33447),

Gene: PhorbesPhlower_29 Start: 24583, Stop: 24356, Start Num: 62
Candidate Starts for PhorbesPhlower_29:
(Start: 62 @24583 has 110 MA's), (65, 24565), (Start: 67 @24544 has 3 MA's), (70, 24532), (73, 24484), (78, 24457), (79, 24451), (80, 24436), (82, 24391), (84, 24382),

Gene: PhriskyACE_33 Start: 27013, Stop: 26786, Start Num: 62
Candidate Starts for PhriskyACE_33:
(Start: 62 @27013 has 110 MA's), (Start: 64 @26998 has 6 MA's), (Start: 67 @26974 has 3 MA's), (Start: 69 @26965 has 3 MA's), (70, 26962), (71, 26941), (80, 26866), (84, 26812),

Gene: PhrostedPhlake_36 Start: 29288, Stop: 29061, Start Num: 62
Candidate Starts for PhrostedPhlake_36:
(3, 29564), (7, 29504), (37, 29363), (43, 29348), (53, 29312), (Start: 60 @29291 has 1 MA's), (Start: 62 @29288 has 110 MA's), (Start: 63 @29285 has 19 MA's), (65, 29270), (Start: 67 @29249 has 3 MA's), (70, 29237), (80, 29141), (84, 29087),

Gene: Pickett_28 Start: 23332, Stop: 23105, Start Num: 62
Candidate Starts for Pickett_28:
(Start: 62 @23332 has 110 MA's), (65, 23314), (Start: 67 @23293 has 3 MA's), (70, 23281), (73, 23233), (78, 23206), (79, 23200), (80, 23185), (82, 23140),

Gene: PinkCoffee_40 Start: 33761, Stop: 33525, Start Num: 58
Candidate Starts for PinkCoffee_40:
(Start: 45 @33797 has 7 MA's), (Start: 58 @33761 has 33 MA's), (Start: 62 @33752 has 110 MA's), (Start: 64 @33737 has 6 MA's), (Start: 67 @33713 has 3 MA's), (70, 33701), (73, 33653), (79, 33620), (80, 33605), (84, 33551),

Gene: Pollux_34 Start: 29088, Stop: 28861, Start Num: 62
Candidate Starts for Pollux_34:
(Start: 45 @29133 has 7 MA's), (Start: 62 @29088 has 110 MA's), (Start: 69 @29040 has 3 MA's), (70, 29037), (72, 29010), (80, 28941),

Gene: Portcullis_38 Start: 33064, Stop: 32837, Start Num: 62
Candidate Starts for Portcullis_38:
(Start: 45 @33109 has 7 MA's), (Start: 58 @33073 has 33 MA's), (Start: 62 @33064 has 110 MA's), (Start: 64 @33049 has 6 MA's), (Start: 67 @33025 has 3 MA's), (70, 33013), (79, 32932), (80, 32917), (84, 32863),

Gene: Powerball_35 Start: 28956, Stop: 28720, Start Num: 62
Candidate Starts for Powerball_35:
(Start: 62 @28956 has 110 MA's), (Start: 64 @28941 has 6 MA's), (Start: 67 @28917 has 3 MA's), (Start: 69 @28908 has 3 MA's), (70, 28905), (71, 28884), (80, 28809), (84, 28755),

Gene: PrincePatrick_33 Start: 27253, Stop: 27026, Start Num: 62
Candidate Starts for PrincePatrick_33:
(Start: 62 @27253 has 110 MA's), (Start: 64 @27238 has 6 MA's), (Start: 67 @27214 has 3 MA's), (Start: 69 @27205 has 3 MA's), (70, 27202), (71, 27181), (77, 27133), (80, 27106),

Gene: PullumCavea_37 Start: 33648, Stop: 33421, Start Num: 62
Candidate Starts for PullumCavea_37:
(Start: 45 @33693 has 7 MA's), (Start: 58 @33657 has 33 MA's), (Start: 62 @33648 has 110 MA's), (Start: 64 @33633 has 6 MA's), (Start: 67 @33609 has 3 MA's), (70, 33597), (79, 33516), (80, 33501), (84, 33447),

Gene: Pytheas_35 Start: 30023, Stop: 29796, Start Num: 62
Candidate Starts for Pytheas_35:
(Start: 62 @30023 has 110 MA's), (Start: 64 @30008 has 6 MA's), (Start: 67 @29984 has 3 MA's), (68, 29978), (Start: 69 @29975 has 3 MA's), (70, 29972), (79, 29891), (80, 29876), (82, 29831), (84, 29822),

Gene: RayTheFireFly_35 Start: 29149, Stop: 28925, Start Num: 63
Candidate Starts for RayTheFireFly_35:
(Start: 62 @29152 has 110 MA's), (Start: 63 @29149 has 19 MA's), (Start: 64 @29137 has 6 MA's), (65, 29134), (Start: 67 @29113 has 3 MA's), (70, 29101), (79, 29020), (80, 29005), (84, 28951),

Gene: Rizz_34 Start: 27277, Stop: 27050, Start Num: 62
Candidate Starts for Rizz_34:
(Start: 62 @27277 has 110 MA's), (Start: 64 @27262 has 6 MA's), (Start: 69 @27229 has 3 MA's), (70, 27226), (71, 27205), (78, 27151), (80, 27130), (84, 27076),

Gene: RogerDodger_41 Start: 33903, Stop: 33667, Start Num: 58
Candidate Starts for RogerDodger_41:
(Start: 45 @33939 has 7 MA's), (Start: 58 @33903 has 33 MA's), (Start: 62 @33894 has 110 MA's), (Start: 64 @33879 has 6 MA's), (Start: 67 @33855 has 3 MA's), (70, 33843), (73, 33795), (79, 33762), (80, 33747), (84, 33693),

Gene: Ruthy_34 Start: 29303, Stop: 29040, Start Num: 47
Candidate Starts for Ruthy_34:
(Start: 47 @29303 has 1 MA's), (Start: 60 @29270 has 1 MA's), (Start: 62 @29267 has 110 MA's), (Start: 64 @29252 has 6 MA's), (Start: 67 @29228 has 3 MA's), (68, 29222), (Start: 69 @29219 has 3 MA's), (70, 29216), (80, 29120), (84, 29066),

Gene: Sahara_33 Start: 26218, Stop: 25991, Start Num: 62
Candidate Starts for Sahara_33:
(23, 26341), (39, 26287), (52, 26245), (54, 26239), (Start: 62 @26218 has 110 MA's), (Start: 64 @26203 has 6 MA's), (65, 26200), (Start: 67 @26179 has 3 MA's), (70, 26167), (79, 26086), (80, 26071), (82, 26026), (83, 26020), (84, 26017),

Gene: Salvador_37 Start: 33571, Stop: 33335, Start Num: 58
Candidate Starts for Salvador_37:
(Start: 45 @33607 has 7 MA's), (Start: 58 @33571 has 33 MA's), (Start: 62 @33562 has 110 MA's), (Start: 64 @33547 has 6 MA's), (Start: 67 @33523 has 3 MA's), (70, 33511), (79, 33430), (80, 33415), (84, 33361),

Gene: Samba_36 Start: 30626, Stop: 30390, Start Num: 58
Candidate Starts for Samba_36:

(Start: 58 @30626 has 33 MA's), (Start: 62 @30617 has 110 MA's), (Start: 64 @30602 has 6 MA's), (65, 30599), (Start: 67 @30578 has 3 MA's), (70, 30566), (73, 30518), (79, 30485), (80, 30470), (82, 30425), (84, 30416),

Gene: Samman98_32 Start: 26076, Stop: 25849, Start Num: 62
Candidate Starts for Samman98_32:
(2, 26340), (4, 26334), (6, 26289), (10, 26241), (15, 26205), (27, 26172), (Start: 62 @26076 has 110 MA's), (Start: 64 @26061 has 6 MA's), (Start: 67 @26037 has 3 MA's), (Start: 69 @26028 has 3 MA's), (70, 26025), (71, 26004), (78, 25950), (80, 25929),

Gene: Savage_34 Start: 26557, Stop: 26321, Start Num: 57
Candidate Starts for Savage_34:
(Start: 57 @26557 has 3 MA's), (Start: 62 @26548 has 110 MA's), (65, 26530), (Start: 67 @26509 has 3 MA's), (70, 26497), (79, 26416), (80, 26401), (82, 26356), (83, 26350), (84, 26347),

Gene: Savbucketdawg_37 Start: 33343, Stop: 33116, Start Num: 62
Candidate Starts for Savbucketdawg_37:
(Start: 45 @33388 has 7 MA's), (Start: 58 @33352 has 33 MA's), (Start: 62 @33343 has 110 MA's), (Start: 64 @33328 has 6 MA's), (Start: 67 @33304 has 3 MA's), (70, 33292), (79, 33211), (80, 33196), (84, 33142),

Gene: Sekhmet_35 Start: 27809, Stop: 27582, Start Num: 62
Candidate Starts for Sekhmet_35:
(Start: 62 @27809 has 110 MA's), (Start: 64 @27794 has 6 MA's), (Start: 69 @27761 has 3 MA's), (70, 27758), (71, 27737), (78, 27683), (80, 27662), (84, 27608),

Gene: Sendy_38 Start: 33777, Stop: 33541, Start Num: 58
Candidate Starts for Sendy_38:
(Start: 45 @33813 has 7 MA's), (Start: 58 @33777 has 33 MA's), (Start: 62 @33768 has 110 MA's), (Start: 64 @33753 has 6 MA's), (Start: 67 @33729 has 3 MA's), (70, 33717), (79, 33636), (80, 33621), (84, 33567),

Gene: SharkTale_37 Start: 33432, Stop: 33208, Start Num: 63
Candidate Starts for SharkTale_37:
(32, 33525), (33, 33519), (34, 33516), (35, 33513), (38, 33504), (43, 33489), (Start: 62 @33435 has 110 MA's), (Start: 63 @33432 has 19 MA's), (Start: 64 @33420 has 6 MA's), (Start: 67 @33396 has 3 MA's), (70, 33384), (79, 33303), (80, 33288), (84, 33234),

Gene: ShawBrad_36 Start: 28681, Stop: 28445, Start Num: 58
Candidate Starts for ShawBrad_36:
(Start: 58 @28681 has 33 MA's), (Start: 62 @28672 has 110 MA's), (Start: 63 @28669 has 19 MA's), (Start: 64 @28657 has 6 MA's), (Start: 67 @28633 has 3 MA's), (70, 28621), (79, 28540), (80, 28525), (82, 28480), (84, 28471), (85, 28468),

Gene: Shinji_38 Start: 33014, Stop: 32778, Start Num: 58
Candidate Starts for Shinji_38:
(Start: 45 @33050 has 7 MA's), (Start: 58 @33014 has 33 MA's), (Start: 62 @33005 has 110 MA's), (Start: 64 @32990 has 6 MA's), (Start: 67 @32966 has 3 MA's), (70, 32954), (74, 32900), (78, 32879), (79, 32873), (80, 32858), (82, 32813), (83, 32807), (84, 32804),

Gene: Shlim410_32 Start: 28665, Stop: 28453, Start Num: 64
Candidate Starts for Shlim410_32:

(Start: 64 @28665 has 6 MA's), (Start: 67 @28641 has 3 MA's), (Start: 69 @28632 has 3 MA's), (70, 28629), (71, 28608), (80, 28533), (82, 28488), (84, 28479),

Gene: Sixsevenium_38 Start: 32514, Stop: 32233, Start Num: 43
Candidate Starts for Sixsevenium_38:
(32, 32550), (33, 32544), (34, 32541), (35, 32538), (38, 32529), (43, 32514), (Start: 62 @32460 has 110 MA's), (Start: 64 @32445 has 6 MA's), (65, 32442), (Start: 67 @32421 has 3 MA's), (Start: 69 @32412 has 3 MA's), (70, 32409), (76, 32343), (78, 32334), (79, 32328), (80, 32313), (82, 32268), (84, 32259),

Gene: SmokingBunny_37 Start: 33562, Stop: 33326, Start Num: 58
Candidate Starts for SmokingBunny_37:
(Start: 45 @33598 has 7 MA's), (Start: 58 @33562 has 33 MA's), (Start: 62 @33553 has 110 MA's), (Start: 64 @33538 has 6 MA's), (Start: 67 @33514 has 3 MA's), (70, 33502), (79, 33421), (80, 33406), (84, 33352),

Gene: Soilmate_38 Start: 31464, Stop: 31222, Start Num: 62
Candidate Starts for Soilmate_38:
(33, 31545), (42, 31518), (Start: 58 @31473 has 33 MA's), (Start: 62 @31464 has 110 MA's), (Start: 69 @31416 has 3 MA's), (70, 31413), (81, 31314), (82, 31272), (84, 31263),

Gene: Spooky_36 Start: 28938, Stop: 28702, Start Num: 58
Candidate Starts for Spooky_36:
(Start: 58 @28938 has 33 MA's), (Start: 62 @28929 has 110 MA's), (Start: 63 @28926 has 19 MA's), (Start: 64 @28914 has 6 MA's), (Start: 67 @28890 has 3 MA's), (70, 28878), (78, 28803), (79, 28797), (80, 28782), (82, 28737),

Gene: Sprinklemunch_40 Start: 30648, Stop: 30493, Start Num: 71
Candidate Starts for Sprinklemunch_40:
(Start: 62 @30720 has 110 MA's), (70, 30669), (71, 30648), (80, 30573),

Gene: Sproutie_34 Start: 26557, Stop: 26321, Start Num: 57
Candidate Starts for Sproutie_34:
(Start: 57 @26557 has 3 MA's), (Start: 62 @26548 has 110 MA's), (65, 26530), (Start: 67 @26509 has 3 MA's), (70, 26497), (79, 26416), (80, 26401), (82, 26356), (83, 26350), (84, 26347),

Gene: Squiddly_38 Start: 30313, Stop: 30086, Start Num: 62
Candidate Starts for Squiddly_38:
(Start: 58 @30322 has 33 MA's), (Start: 62 @30313 has 110 MA's), (Start: 63 @30310 has 19 MA's), (Start: 64 @30298 has 6 MA's), (Start: 67 @30274 has 3 MA's), (70, 30262), (79, 30181), (80, 30166), (82, 30121),

Gene: Suerte_31 Start: 27445, Stop: 27218, Start Num: 62
Candidate Starts for Suerte_31:
(Start: 62 @27445 has 110 MA's), (Start: 67 @27406 has 3 MA's), (70, 27394), (71, 27373), (80, 27298), (84, 27244),

Gene: TaronosaurasRx_33 Start: 28265, Stop: 28032, Start Num: 59
Candidate Starts for TaronosaurasRx_33:
(Start: 45 @28307 has 7 MA's), (Start: 58 @28268 has 33 MA's), (Start: 59 @28265 has 2 MA's), (Start: 62 @28259 has 110 MA's), (Start: 64 @28244 has 6 MA's), (Start: 67 @28220 has 3 MA's), (68, 28214), (Start: 69 @28211 has 3 MA's), (70, 28208), (78, 28133), (79, 28127), (80, 28112), (82, 28067), (84, 28058),

Gene: ThankyouJordi_35 Start: 30189, Stop: 30010, Start Num: 69
Candidate Starts for ThankyouJordi_35:
(42, 30288), (Start: 62 @30237 has 110 MA's), (Start: 67 @30198 has 3 MA's), (Start: 69 @30189 has 3 MA's), (80, 30090), (81, 30087), (84, 30036),

Gene: Thimann_32 Start: 26356, Stop: 26129, Start Num: 62
Candidate Starts for Thimann_32:
(Start: 62 @26356 has 110 MA's), (Start: 64 @26341 has 6 MA's), (Start: 67 @26317 has 3 MA's), (Start: 69 @26308 has 3 MA's), (70, 26305), (71, 26284), (80, 26209), (84, 26155),

Gene: TillyBobJoe_37 Start: 33366, Stop: 33130, Start Num: 58
Candidate Starts for TillyBobJoe_37:
(Start: 45 @33402 has 7 MA's), (Start: 58 @33366 has 33 MA's), (Start: 62 @33357 has 110 MA's), (Start: 64 @33342 has 6 MA's), (Start: 67 @33318 has 3 MA's), (70, 33306), (79, 33225), (80, 33210), (84, 33156),

Gene: TimTam_31 Start: 28844, Stop: 28608, Start Num: 62
Candidate Starts for TimTam_31:
(Start: 59 @28850 has 2 MA's), (Start: 62 @28844 has 110 MA's), (Start: 64 @28829 has 6 MA's), (65, 28826), (Start: 67 @28805 has 3 MA's), (68, 28799), (Start: 69 @28796 has 3 MA's), (70, 28793), (80, 28697),

Gene: TinyDot_30 Start: 24493, Stop: 24266, Start Num: 62
Candidate Starts for TinyDot_30:
(Start: 45 @24538 has 7 MA's), (Start: 62 @24493 has 110 MA's), (Start: 64 @24478 has 6 MA's), (66, 24469), (Start: 67 @24454 has 3 MA's), (70, 24442), (73, 24394), (78, 24367), (79, 24361), (80, 24346), (82, 24301), (84, 24292),

Gene: Toast_34 Start: 28574, Stop: 28347, Start Num: 62
Candidate Starts for Toast_34:
(Start: 62 @28574 has 110 MA's), (Start: 64 @28559 has 6 MA's), (Start: 67 @28535 has 3 MA's), (68, 28529), (Start: 69 @28526 has 3 MA's), (70, 28523), (71, 28502), (80, 28427), (84, 28373),

Gene: Togo_37 Start: 33553, Stop: 33326, Start Num: 62
Candidate Starts for Togo_37:
(Start: 45 @33598 has 7 MA's), (Start: 58 @33562 has 33 MA's), (Start: 62 @33553 has 110 MA's), (Start: 64 @33538 has 6 MA's), (Start: 67 @33514 has 3 MA's), (70, 33502), (79, 33421), (80, 33406), (84, 33352),

Gene: TuertoX_34 Start: 26548, Stop: 26321, Start Num: 62
Candidate Starts for TuertoX_34:
(Start: 57 @26557 has 3 MA's), (Start: 62 @26548 has 110 MA's), (65, 26530), (Start: 67 @26509 has 3 MA's), (70, 26497), (79, 26416), (80, 26401), (82, 26356), (83, 26350), (84, 26347),

Gene: Tuti_30 Start: 27599, Stop: 27372, Start Num: 62
Candidate Starts for Tuti_30:
(Start: 62 @27599 has 110 MA's), (Start: 64 @27584 has 6 MA's), (Start: 67 @27560 has 3 MA's), (70, 27548), (71, 27527), (80, 27452),

Gene: Twinkle_32 Start: 29724, Stop: 29512, Start Num: 64
Candidate Starts for Twinkle_32:

(Start: 64 @29724 has 6 MA's), (Start: 67 @29700 has 3 MA's), (Start: 69 @29691 has 3 MA's), (70, 29688), (71, 29667), (80, 29592), (82, 29547), (84, 29538),

Gene: Twister6_40 Start: 33465, Stop: 33229, Start Num: 58
Candidate Starts for Twister6_40:
(Start: 45 @33501 has 7 MA's), (Start: 58 @33465 has 33 MA's), (Start: 62 @33456 has 110 MA's), (Start: 64 @33441 has 6 MA's), (Start: 67 @33417 has 3 MA's), (70, 33405), (79, 33324), (80, 33309), (84, 33255),

Gene: UmaThurman_31 Start: 28735, Stop: 28508, Start Num: 62
Candidate Starts for UmaThurman_31:
(Start: 62 @28735 has 110 MA's), (Start: 64 @28720 has 6 MA's), (Start: 67 @28696 has 3 MA's), (70, 28684), (73, 28636), (80, 28588), (84, 28534),

Gene: Valary_40 Start: 34508, Stop: 34272, Start Num: 58
Candidate Starts for Valary_40:
(Start: 45 @34544 has 7 MA's), (Start: 58 @34508 has 33 MA's), (Start: 62 @34499 has 110 MA's), (Start: 64 @34484 has 6 MA's), (Start: 67 @34460 has 3 MA's), (70, 34448), (73, 34400), (79, 34367), (80, 34352), (84, 34298),

Gene: VanDeWege_41 Start: 33791, Stop: 33564, Start Num: 62
Candidate Starts for VanDeWege_41:
(Start: 45 @33836 has 7 MA's), (Start: 58 @33800 has 33 MA's), (Start: 62 @33791 has 110 MA's), (Start: 64 @33776 has 6 MA's), (Start: 67 @33752 has 3 MA's), (70, 33740), (73, 33692), (79, 33659), (80, 33644), (84, 33590),

Gene: Vasanti_34 Start: 26861, Stop: 26634, Start Num: 62
Candidate Starts for Vasanti_34:
(26, 26972), (43, 26918), (Start: 45 @26912 has 7 MA's), (Start: 62 @26861 has 110 MA's), (65, 26843), (Start: 67 @26822 has 3 MA's), (Start: 69 @26813 has 3 MA's), (70, 26810), (71, 26789), (72, 26783), (80, 26714), (81, 26711), (84, 26660),

Gene: Walrus_36 Start: 29330, Stop: 29094, Start Num: 58
Candidate Starts for Walrus_36:
(30, 29423), (31, 29420), (36, 29399), (53, 29345), (55, 29336), (Start: 58 @29330 has 33 MA's), (Start: 62 @29321 has 110 MA's), (Start: 64 @29306 has 6 MA's), (Start: 67 @29282 has 3 MA's), (70, 29270), (78, 29195), (79, 29189), (80, 29174), (84, 29120),

Gene: WelcomeAyanna_35 Start: 30384, Stop: 30157, Start Num: 62
Candidate Starts for WelcomeAyanna_35:
(42, 30435), (Start: 62 @30384 has 110 MA's), (Start: 67 @30345 has 3 MA's), (Start: 69 @30336 has 3 MA's), (80, 30237), (81, 30234), (84, 30183),

Gene: Whiteclaw_34 Start: 26548, Stop: 26321, Start Num: 62
Candidate Starts for Whiteclaw_34:
(Start: 57 @26557 has 3 MA's), (Start: 62 @26548 has 110 MA's), (65, 26530), (Start: 67 @26509 has 3 MA's), (70, 26497), (79, 26416), (80, 26401), (82, 26356), (83, 26350), (84, 26347),

Gene: Whitney_40 Start: 32148, Stop: 31924, Start Num: 63
Candidate Starts for Whitney_40:
(Start: 62 @32151 has 110 MA's), (Start: 63 @32148 has 19 MA's), (Start: 64 @32136 has 6 MA's), (Start: 67 @32112 has 3 MA's), (70, 32100), (73, 32052), (78, 32025), (79, 32019), (80, 32004), (82, 31959), (84, 31950),

Gene: William_35 Start: 28714, Stop: 28487, Start Num: 62
Candidate Starts for William_35:
(Start: 62 @28714 has 110 MA's), (Start: 64 @28699 has 6 MA's), (Start: 67 @28675 has 3 MA's), (70, 28663), (71, 28642), (78, 28588), (80, 28567), (82, 28522),

Gene: Wisp_30 Start: 27726, Stop: 27493, Start Num: 62
Candidate Starts for Wisp_30:
(Start: 62 @27726 has 110 MA's), (Start: 63 @27723 has 19 MA's), (Start: 64 @27711 has 6 MA's), (Start: 67 @27687 has 3 MA's), (70, 27675), (73, 27627), (79, 27594), (80, 27579), (84, 27525), (86, 27501),

Gene: Wizard_37 Start: 33705, Stop: 33469, Start Num: 58
Candidate Starts for Wizard_37:
(Start: 45 @33741 has 7 MA's), (Start: 58 @33705 has 33 MA's), (Start: 62 @33696 has 110 MA's), (Start: 64 @33681 has 6 MA's), (Start: 67 @33657 has 3 MA's), (70, 33645), (79, 33564), (80, 33549), (84, 33495),

Gene: Wocket_36 Start: 28733, Stop: 28506, Start Num: 62
Candidate Starts for Wocket_36:
(9, 28913), (13, 28895), (21, 28853), (Start: 60 @28736 has 1 MA's), (Start: 62 @28733 has 110 MA's), (Start: 63 @28730 has 19 MA's), (Start: 64 @28718 has 6 MA's), (65, 28715), (Start: 67 @28694 has 3 MA's), (Start: 69 @28685 has 3 MA's), (70, 28682), (77, 28613), (78, 28607), (81, 28583), (82, 28541), (84, 28532),

Gene: Yinzer_33 Start: 26557, Stop: 26321, Start Num: 57
Candidate Starts for Yinzer_33:
(Start: 57 @26557 has 3 MA's), (Start: 62 @26548 has 110 MA's), (65, 26530), (Start: 67 @26509 has 3 MA's), (70, 26497), (79, 26416), (80, 26401), (82, 26356), (83, 26350), (84, 26347),

Gene: YungMoney_39 Start: 34979, Stop: 34755, Start Num: 63
Candidate Starts for YungMoney_39:
(32, 35072), (33, 35066), (34, 35063), (35, 35060), (38, 35051), (43, 35036), (Start: 62 @34982 has 110 MA's), (Start: 63 @34979 has 19 MA's), (Start: 64 @34967 has 6 MA's), (Start: 67 @34943 has 3 MA's), (70, 34931), (80, 34835), (82, 34790), (84, 34781),

Gene: ZAYM_35 Start: 28842, Stop: 28630, Start Num: 64
Candidate Starts for ZAYM_35:
(1, 29226), (18, 28986), (19, 28980), (32, 28944), (34, 28935), (43, 28911), (Start: 62 @28857 has 110 MA's), (Start: 63 @28854 has 19 MA's), (Start: 64 @28842 has 6 MA's), (Start: 67 @28818 has 3 MA's), (68, 28812), (Start: 69 @28809 has 3 MA's), (70, 28806), (79, 28725), (80, 28710), (84, 28656),

Gene: Zarbodnamra_33 Start: 28639, Stop: 28412, Start Num: 62
Candidate Starts for Zarbodnamra_33:
(Start: 45 @28684 has 7 MA's), (Start: 62 @28639 has 110 MA's), (Start: 64 @28624 has 6 MA's), (65, 28621), (Start: 67 @28600 has 3 MA's), (70, 28588), (73, 28540), (76, 28522), (80, 28492), (82, 28447), (84, 28438), (85, 28435),

Gene: ZiggyZoo_34 Start: 28938, Stop: 28711, Start Num: 62
Candidate Starts for ZiggyZoo_34:
(Start: 62 @28938 has 110 MA's), (Start: 63 @28935 has 19 MA's), (Start: 64 @28923 has 6 MA's), (65, 28920), (Start: 67 @28899 has 3 MA's), (70, 28887), (80, 28791), (84, 28737),

Gene: Zilla_35 Start: 29547, Stop: 29320, Start Num: 62
Candidate Starts for Zilla_35:
(Start: 45 @29592 has 7 MA's), (Start: 62 @29547 has 110 MA's), (Start: 63 @29544 has 19 MA's), (Start: 64 @29532 has 6 MA's), (65, 29529), (Start: 67 @29508 has 3 MA's), (70, 29496), (79, 29415), (80, 29400),