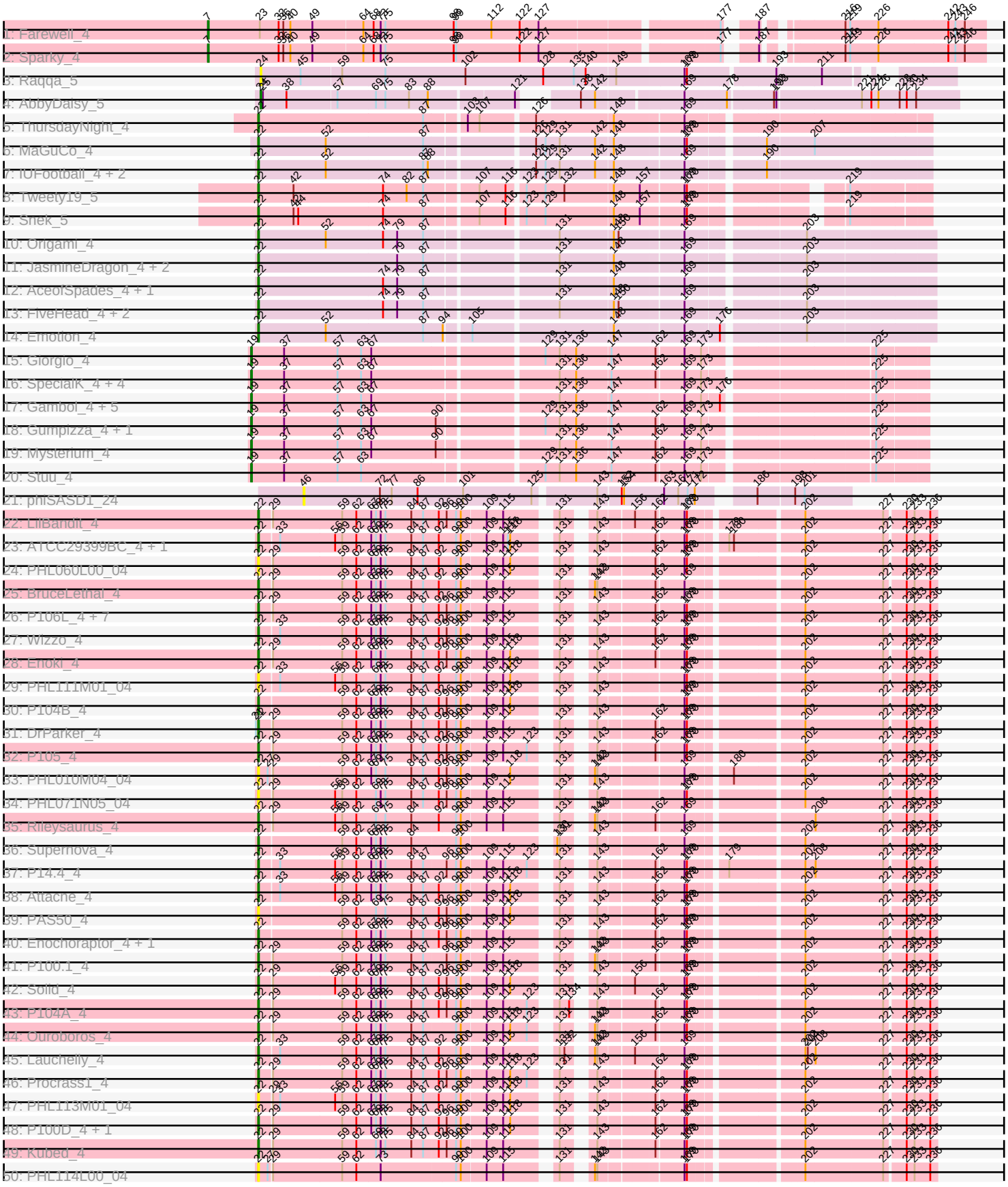
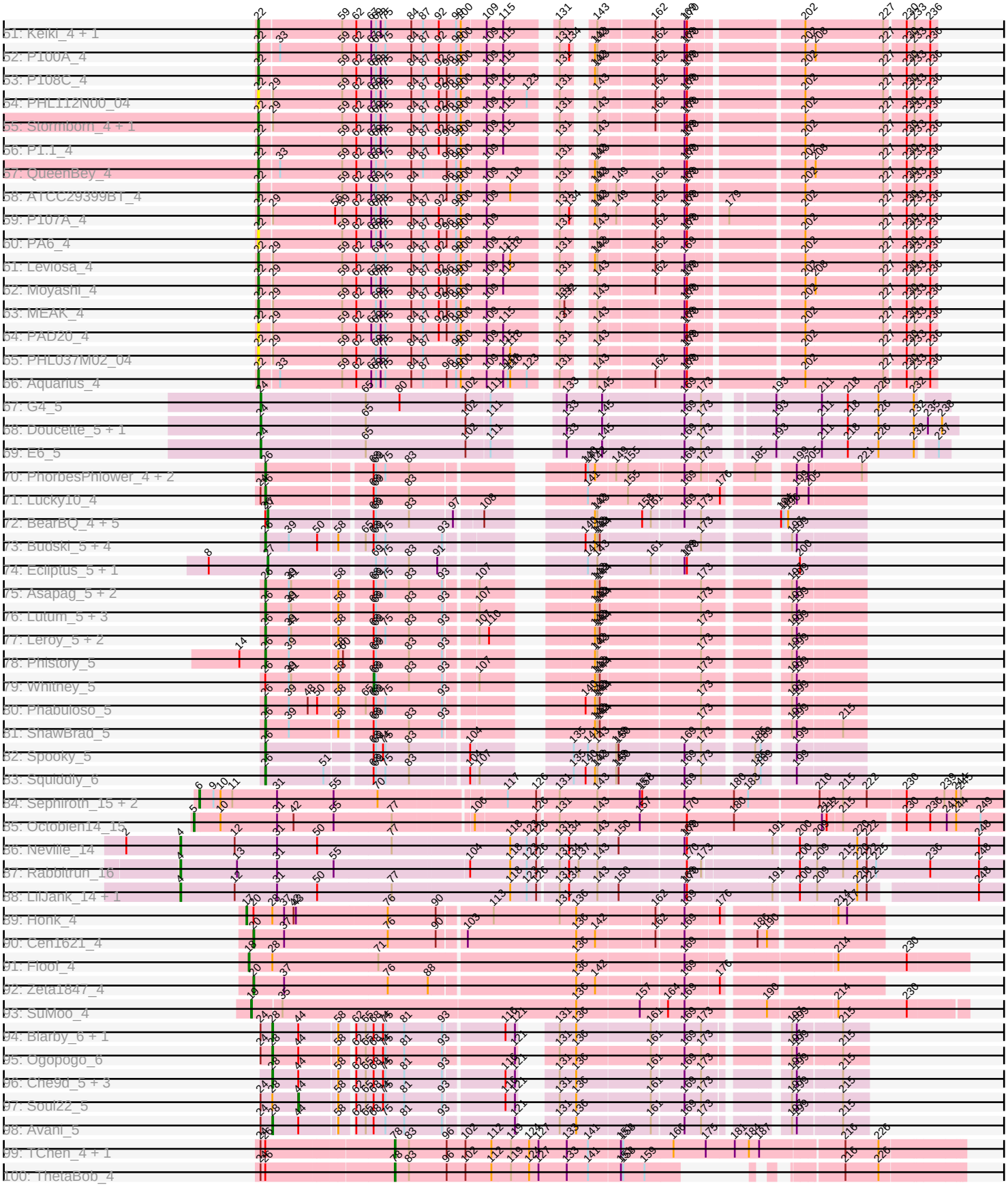
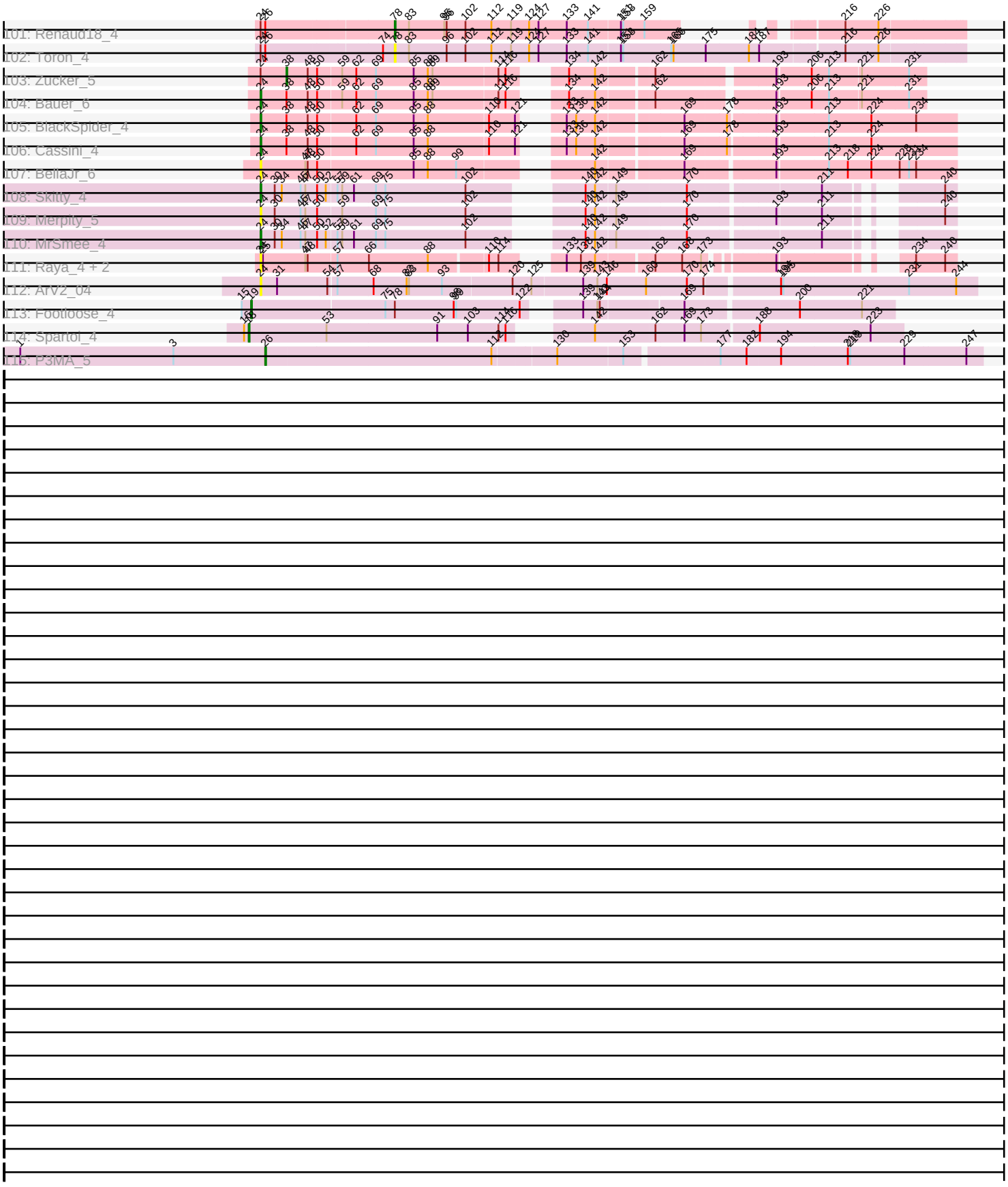
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1: Farewell_4
2: Sparky_4
3: Raqqa_5
4: AbbyDaisy_5
5: ThursdayNight_4
6: MaGuCo_4
7: IUFootball_4 + 2
8: Tweety19_5
9: Snek_5
10: Origami_4
11: JasmineDragon_4 + 2
12: AceofSpades_4 + 1
13: FiveHead_4 + 2
14: Emotion_4
15: Giorgio_4
16: SpecialK_4 + 4
17: Gambol_4 + 5
18: Gumpizza_4 + 1
19: Mysterium_4
20: Stuu_4
21: phiSASD1_24
22: LilBandit_4
23: ATCC29399BC_4 + 1
24: PHL060L00_04
25: BruceLethal_4
26: P106L_4 + 7
27: Wizzo_4
28: Enoki_4
29: PHL111M01_04
30: P104B_4
31: DrParker_4
32: P105_4
33: PHL010M04_04
34: PHL071N05_04
35: Rileysaurus_4
36: Supernova_4
37: P14.4_4
38: Attache_4
39: PAS50_4
40: Enochoraptor_4 + 1
41: P100.1_4
42: Solid_4
43: P104A_4
44: Ouroboros_4
45: Lauchelly_4
46: Procrass1_4
47: PHL113M01_04
48: P100D_4 + 1
49: Kubed_4
50: PHL114L00_04

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51: Keiki_4 + 1
52: P100A_4
53: P108C_4
54: PHL112N00_04
55: Stormborn_4 + 1
56: P1.1_4
57: QueenBey_4
58: ATCC29399BT_4
59: P107A_4
60: PA6_4
61: Leviosa_4
62: Moyashi_4
63: MEAK_4
64: PAD20_4
65: PHL037M02_04
66: Aquarius_4
67: G4_5
68: Doucette_5 + 1
69: E6_5
70: PhorbesPhlower_4 + 2
71: Lucky10_4
72: BearBQ_4 + 5
73: Budski_5 + 4
74: Ecliptus_5 + 1
75: Asapag_5 + 2
76: Lutum_5 + 3
77: Leroy_5 + 2
78: Phistory_5
79: Whitney_5
80: Phabuloso_5
81: ShawBrad_5
82: Spooky_5
83: Squiddly_6
84: Sephiroth_15 + 2
85: Octobien14_15
86: Neville_14
87: Rabbitrun_16
88: LilJank_14 + 1
89: Honk_4
90: Cen1621_4
91: Floof_4
92: Zeta1847_4
93: SuMoo_4
94: Blarby_6 + 1
95: Ogopogo_6
96: Che9d_5 + 3
97: Soul22_5
98: Avani_5
99: TChen_4 + 1
100: ThetaBob_4

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101: Renaud18_4
102: Toron_4
103: Zucker_5
104: Bauer_6
105: BlackSpider_4
106: Cassini_4
107: BellaJr_6
108: Skitty_4
109: Merpity_5
110: MrSmee_4
111: Raya_4 + 2
112: Arv2_04
113: Footloose_4
114: Spartoi_4
115: P3MA_5

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 347307 Report

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

Pham number 347307 has 174 members, 26 are drafts.

Phages represented in each track:
- Track 1 : Farewell_4
- Track 2 : Sparky_4
- Track 3 : Raqqa_5
- Track 4 : AbbyDaisy_5
- Track 5 : ThursdayNight_4
- Track 6 : MaGuCo_4
- Track 7 : IUFootball_4, Liebe_4, Maureen_4
- Track 8 : Tweety19_5
- Track 9 : Snek_5
- Track 10 : Origami_4
- Track 11 : JasmineDragon_4, MiniMommy_4, ShakeItOph_4
- Track 12 : AceofSpades_4, VroomVroom_4
- Track 13 : FiveHead_4, JohnThicc_4, LadyAstra_4
- Track 14 : Emotion_4
- Track 15 : Giorgio_4
- Track 16 : SpecialK_4, Moss_4, Halsey_4, Ashes_4, RockScotty_4
- Track 17 : Gambol_4, Cappuccino_4, Sooty_4, Donkey_4, Sabourin_4, Kalimba_4
- Track 18 : Gumpizza_4, Beaupre_4
- Track 19 : Mysterium_4
- Track 20 : Stuu_4
- Track 21 : phiSASD1_24
- Track 22 : LilBandit_4
- Track 23 : ATCC29399BC_4, P107C_4
- Track 24 : PHL060L00_04
- Track 25 : BruceLethal_4
- Track 26 : P106L_4, MrAK_4, SKKY_4, P106I_4, P9.1_4, P106M_4, P106C_4, P106A_4
- Track 27 : Wizzo_4
- Track 28 : Enoki_4
- Track 29 : PHL111M01_04
- Track 30 : P104B_4
- Track 31 : DrParker_4
- Track 32 : P105_4
- Track 33 : PHL010M04_04
- Track 34 : PHL071N05_04
- Track 35 : Rileysaurus_4
- Track 36 : Supernova_4

• Track 37 : P14.4_4
• Track 38 : Attacne_4
• Track 39 : PAS50_4
• Track 40 : Enochoraptor_4, Pirate_4
• Track 41 : P100.1_4
• Track 42 : Solid_4
• Track 43 : P104A_4
• Track 44 : Ouroboros_4
• Track 45 : Lauchelly_4
• Track 46 : Procrass1_4
• Track 47 : PHL113M01_04
• Track 48 : P100D_4, P101A_4
• Track 49 : Kubed_4
• Track 50 : PHL114L00_04
• Track 51 : Keiki_4, Cota_4
• Track 52 : P100A_4
• Track 53 : P108C_4
• Track 54 : PHL112N00_04
• Track 55 : Stormborn_4, PHL067M10_04
• Track 56 : P1.1_4
• Track 57 : QueenBey_4
• Track 58 : ATCC29399BT_4
• Track 59 : P107A_4
• Track 60 : PA6_4
• Track 61 : Leviosa_4
• Track 62 : Moyashi_4
• Track 63 : MEAK_4
• Track 64 : PAD20_4
• Track 65 : PHL037M02_04
• Track 66 : Aquarius_4
• Track 67 : G4_5
• Track 68 : Doucette_5, B22_5
• Track 69 : E6_5
• Track 70 : PhorbesPhlower_4, InLimbo_4, Morkie_4
• Track 71 : Lucky10_4
• Track 72 : BearBQ_4, MortyNRick_4, Kuwabara_4, Crater_4, Apricot_4, Birdsong_4
• Track 73 : Budski_5, CheeseTouch_5, Kamaru_5, Holliday_5, LitninMcQueen_5
• Track 74 : Ecliptus_5, ODay_5
• Track 75 : Asapag_5, BENtherdunthat_5, BotCity_5
• Track 76 : Lutum_5, Periwinkle_5, Getalong_5, Kenna_5
• Track 77 : Leroy_5, Horus_5, Frickyeah_5
• Track 78 : Phistory_5
• Track 79 : Whitney_5
• Track 80 : Phabuloso_5
• Track 81 : ShawBrad_5
• Track 82 : Spooky_5
• Track 83 : Squiddly_6
• Track 84 : Sephiroth_15, Kudefre_14, Syleon_15
• Track 85 : Octobien14_15
• Track 86 : Neville_14
• Track 87 : Rabbitrun_16
• Track 88 : LilJank_14, Trax_14
• Track 89 : Honk_4

• Track 90 : Cen1621_4
• Track 91 : Floof_4
• Track 92 : Zeta1847_4
• Track 93 : SuMoo_4
• Track 94 : Blarby_6, Demsculpinboyz_5
• Track 95 : Ogopogo_6
• Track 96 : Che9d_5, Jabbawokkie_6, Zapner_6, Yoshi_5
• Track 97 : Soul22_5
• Track 98 : Avani_5
• Track 99 : TChen_4, LunaStella_4
• Track 100 : ThetaBob_4
• Track 101 : Renaud18_4
• Track 102 : Toron_4
• Track 103 : Zucker_5
• Track 104 : Bauer_6
• Track 105 : BlackSpider_4
• Track 106 : Cassini_4
• Track 107 : BellaJr_6
• Track 108 : Skitty_4
• Track 109 : Merpity_5
• Track 110 : MrSmee_4
• Track 111 : Raya_4, Neroxid_4, Skyerus_4
• Track 112 : ArV2_04
• Track 113 : Footloose_4
• Track 114 : Spartoi_4
• Track 115 : P3MA_5

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

The start number called the most often in the published annotations is 22, it was called in 60 of the 148 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• ATCC29399BC_4, ATCC29399BT_4, AceofSpades_4, Aquarius_4, Attacne_4, BruceLethal_4, Cota_4, DrParker_4, Emotion_4, Enochoraptor_4, Enoki_4, FiveHead_4, IUFootball_4, JasmineDragon_4, JohnThicc_4, Keiki_4, Kubed_4, LadyAstra_4, Lauchelly_4, Leviosa_4, Liebe_4, LilBandit_4, MEAK_4, MaGuCo_4, Maureen_4, MiniMommy_4, Moyashi_4, MrAK_4, Origami_4, Ouroboros_4, P1.1_4, P100.1_4, P100A_4, P100D_4, P101A_4, P104A_4, P104B_4, P105_4, P106A_4, P106C_4, P106I_4, P106L_4, P106M_4, P107A_4, P107C_4, P108C_4, P14.4_4, P9.1_4, PA6_4, PAD20_4, PAS50_4, PHL010M04_04, PHL037M02_04, PHL060L00_04, PHL067M10_04, PHL071N05_04, PHL111M01_04, PHL112N00_04, PHL113M01_04, PHL114L00_04, Pirate_4, Procrass1_4, QueenBey_4, Rileysaurus_4, SKKY_4, ShakeItOph_4, Snek_5, Solid_4, Stormborn_4, Supernova_4, ThursdayNight_4, Tweety19_5, VroomVroom_4, Wizzo_4,

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

Genes that do not have the "Most Annotated" start:
• AbbyDaisy_5, Apricot_4, ArV2_04, Asapag_5, Ashes_4, Avani_5, B22_5, BENtherdunthat_5, Bauer_6, BearBQ_4, Beaupre_4, BellaJr_6, Birdsong_4, BlackSpider_4, Blarby_6, BotCity_5, Budski_5, Cappuccino_4, Cassini_4, Cen1621_4, Che9d_5, CheeseTouch_5, Crater_4, Demsculpinboyz_5, Donkey_4, Doucette_5, E6_5, Ecliptus_5, Farewell_4, Floof_4, Footloose_4, Frickyeah_5, G4_5, Gambol_4, Getalong_5, Giorgio_4, Gumpizza_4, Halsey_4, Holliday_5, Honk_4, Horus_5, InLimbo_4, Jabbawokkie_6, Kalimba_4, Kamaru_5, Kenna_5, Kudefre_14, Kuwabara_4, Leroy_5, LilJank_14, LitninMcQueen_5, Lucky10_4, LunaStella_4, Lutum_5, Merpity_5, Morkie_4, MortyNRick_4, Moss_4, MrSmee_4, Mysterium_4, Neroxid_4, Neville_14, ODay_5, Octobien14_15, Ogopogo_6, P3MA_5, Periwinkle_5, Phabuloso_5, Phistory_5, PhorbesPhlower_4, Rabbitrun_16, Raqqa_5, Raya_4, Renaud18_4, RockScotty_4, Sabourin_4, Sephiroth_15, ShawBrad_5, Skitty_4, Skyerus_4, Sooty_4, Soul22_5, Sparky_4, Spartoi_4, SpecialK_4, Spooky_5, Squiddly_6, Stuu_4, SuMoo_4, Syleon_15, TChen_4, ThetaBob_4, Toron_4, Trax_14, Whitney_5, Yoshi_5, Zapner_6, Zeta1847_4, Zucker_5, phiSASD1_24,

Summary by start number:

Start 4:
• Found in 4 of 174 (2.3%) of genes in pham
• Manual Annotations of this start: 4 of 148
• Called 100.0% of time when present
• Phage (with cluster) where this start called: LilJank_14 (DU2), Neville_14 (DU2), Rabbitrun_16 (DU2), Trax_14 (DU2),

Start 5:
• Found in 1 of 174 (0.6%) of genes in pham
• Manual Annotations of this start: 1 of 148
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Octobien14_15 (DU1),

Start 6:
• Found in 3 of 174 (1.7%) of genes in pham
• Manual Annotations of this start: 3 of 148
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Kudefre_14 (DU1), Sephiroth_15 (DU1), Syleon_15 (DU1),

Start 7:
• Found in 2 of 174 (1.1%) of genes in pham
• Manual Annotations of this start: 2 of 148
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Farewell_4 (AF), Sparky_4 (AF),

Start 17:
• Found in 1 of 174 (0.6%) of genes in pham
• Manual Annotations of this start: 1 of 148
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Honk_4 (EH),

Start 18:
• Found in 2 of 174 (1.1%) of genes in pham

• Manual Annotations of this start: 2 of 148
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Floof_4 (EH), Spartoi_4 (singleton),

Start 19:
• Found in 18 of 174 (10.3%) of genes in pham
• Manual Annotations of this start: 18 of 148
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Ashes_4 (AZ5), Beaupre_4 (AZ5), Cappuccino_4 (AZ5), Donkey_4 (AZ5), Footloose_4 (singleton), Gambol_4 (AZ5), Giorgio_4 (AZ5), Gumpizza_4 (AZ5), Halsey_4 (AZ5), Kalimba_4 (AZ5), Moss_4 (AZ5), Mysterium_4 (AZ5), RockScotty_4 (AZ5), Sabourin_4 (AZ5), Sooty_4 (AZ5), SpecialK_4 (AZ5), Stuu_4 (AZ5), SuMoo_4 (EH),

Start 20:
• Found in 3 of 174 (1.7%) of genes in pham
• Manual Annotations of this start: 2 of 148
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Cen1621_4 (EH), Zeta1847_4 (EH),

Start 22:
• Found in 74 of 174 (42.5%) of genes in pham
• Manual Annotations of this start: 60 of 148
• Called 100.0% of time when present
• Phage (with cluster) where this start called: ATCC29399BC_4 (BU), ATCC29399BT_4 (BU), AceofSpades_4 (AZ4), Aquarius_4 (BU), Attacne_4 (BU), BruceLethal_4 (BU), Cota_4 (BU), DrParker_4 (BU), Emotion_4 (AZ4), Enochoraptor_4 (BU), Enoki_4 (BU), FiveHead_4 (AZ4), IUFootball_4 (AZ2), JasmineDragon_4 (AZ4), JohnThicc_4 (AZ4), Keiki_4 (BU), Kubed_4 (BU), LadyAstra_4 (AZ4), Lauchelly_4 (BU), Leviosa_4 (BU), Liebe_4 (AZ2), LilBandit_4 (BU), MEAK_4 (BU), MaGuCo_4 (AZ2), Maureen_4 (AZ2), MiniMommy_4 (AZ4), Moyashi_4 (BU), MrAK_4 (BU), Origami_4 (AZ4), Ouroboros_4 (BU), P1.1_4 (BU), P100.1_4 (BU), P100A_4 (BU), P100D_4 (BU), P101A_4 (BU), P104A_4 (BU), P104B_4 (BU), P105_4 (BU), P106A_4 (BU), P106C_4 (BU), P106I_4 (BU), P106L_4 (BU), P106M_4 (BU), P107A_4 (BU), P107C_4 (BU), P108C_4 (BU), P14.4_4 (BU), P9.1_4 (BU), PA6_4 (BU), PAD20_4 (BU), PAS50_4 (BU), PHL010M04_04 (BU), PHL037M02_04 (BU), PHL060L00_04 (BU), PHL067M10_04 (BU), PHL071N05_04 (BU), PHL111M01_04 (BU), PHL112N00_04 (BU), PHL113M01_04 (BU), PHL114L00_04 (BU), Pirate_4 (BU), Procrass1_4 (BU), QueenBey_4 (BU), Rileysaurus_4 (BU), SKKY_4 (BU), ShakeItOph_4 (AZ4), Snek_5 (AZ3), Solid_4 (BU), Stormborn_4 (BU), Supernova_4 (BU), ThursdayNight_4 (AZ), Tweety19_5 (AZ3), VroomVroom_4 (AZ4), Wizzo_4 (BU),

Start 24:
• Found in 29 of 174 (16.7%) of genes in pham
• Manual Annotations of this start: 10 of 148
• Called 58.6% of time when present
• Phage (with cluster) where this start called: AbbyDaisy_5 (AY), ArV2_04 (singleton), B22_5 (BW), Bauer_6 (FN), BellaJr_6 (FN), BlackSpider_4 (FN), Cassini_4 (FN), Doucette_5 (BW), E6_5 (BW), G4_5 (BW), Merpity_5 (FQ1), MrSmee_4 (FQ1), Neroxid_4 (FQ2), Raqqa_5 (AY), Raya_4 (FQ2), Skitty_4 (FQ1), Skyerus_4 (FQ2),

Start 26:

• Found in 37 of 174 (21.3%) of genes in pham
• Manual Annotations of this start: 23 of 148
• Called 67.6% of time when present
• Phage (with cluster) where this start called: Asapag_5 (DN1), BENtherdunthat_5 (DN1), BotCity_5 (DN), Budski_5 (DN), CheeseTouch_5 (DN1), Frickyeah_5 (DN1), Getalong_5 (DN1), Holliday_5 (DN1), Horus_5 (DN1), InLimbo_4 (DH), Kamaru_5 (DN1), Kenna_5 (DN1), Leroy_5 (DN1), LitninMcQueen_5 (DN1), Lucky10_4 (DH), Lutum_5 (DN1), Morkie_4 (DH), P3MA_5 (singleton), Periwinkle_5 (DN1), Phabuloso_5 (DN1), Phistory_5 (DN1), PhorbesPhlower_4 (DH), ShawBrad_5 (DN1), Spooky_5 (DN2), Squiddly_6 (DN2),

Start 27:
• Found in 10 of 174 (5.7%) of genes in pham
• Manual Annotations of this start: 8 of 148
• Called 80.0% of time when present
• Phage (with cluster) where this start called: Apricot_4 (DN3), BearBQ_4 (DN), Birdsong_4 (DN), Crater_4 (DN3), Ecliptus_5 (DN), Kuwabara_4 (DN4), MortyNRick_4 (DN), ODay_5 (DN),

Start 28:
• Found in 11 of 174 (6.3%) of genes in pham
• Manual Annotations of this start: 7 of 148
• Called 72.7% of time when present
• Phage (with cluster) where this start called: Avani_5 (F2), Blarby_6 (F), Che9d_5 (F2), Demsculpinboyz_5 (F2), Jabbawokkie_6 (F2), Ogopogo_6 (F1), Yoshi_5 (F2), Zapner_6 (F2),

Start 38:
• Found in 5 of 174 (2.9%) of genes in pham
• Manual Annotations of this start: 1 of 148
• Called 20.0% of time when present
• Phage (with cluster) where this start called: Zucker_5 (FN),

Start 44:
• Found in 10 of 174 (5.7%) of genes in pham
• Manual Annotations of this start: 1 of 148
• Called 10.0% of time when present
• Phage (with cluster) where this start called: Soul22_5 (F2),

Start 46:
• Found in 1 of 174 (0.6%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: phiSASD1_24 (BJ),

Start 68:
• Found in 43 of 174 (24.7%) of genes in pham
• Manual Annotations of this start: 1 of 148
• Called 2.3% of time when present
• Phage (with cluster) where this start called: Whitney_5 (DN1),

Start 78:
• Found in 6 of 174 (3.4%) of genes in pham

• Manual Annotations of this start: 4 of 148
• Called 83.3% of time when present
• Phage (with cluster) where this start called: LunaStella_4 (F4), Renaud18_4 (F4), TChen_4 (F4), ThetaBob_4 (F4), Toron_4 (F6),

Summary by clusters:

There are 28 clusters represented in this pham: DN, singleton, DH, BJ, BU, BW, FN, F, DN4, DN1, DN3, DN2, DU1, DU2, EH, AF, AY, AZ, F1, F2, AZ3, F4, F6, FQ2, AZ2, FQ1, AZ4, AZ5,

Info for manual annotations of cluster AF:
•Start number 7 was manually annotated 2 times for cluster AF.

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

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

Info for manual annotations of cluster AZ2:
•Start number 22 was manually annotated 4 times for cluster AZ2.

Info for manual annotations of cluster AZ3:
•Start number 22 was manually annotated 2 times for cluster AZ3.

Info for manual annotations of cluster AZ4:
•Start number 22 was manually annotated 8 times for cluster AZ4.

Info for manual annotations of cluster AZ5:
•Start number 19 was manually annotated 16 times for cluster AZ5.

Info for manual annotations of cluster BU:
•Start number 22 was manually annotated 45 times for cluster BU.

Info for manual annotations of cluster BW:
•Start number 24 was manually annotated 4 times for cluster BW.

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

Info for manual annotations of cluster DN:
•Start number 26 was manually annotated 2 times for cluster DN.
•Start number 27 was manually annotated 5 times for cluster DN.

Info for manual annotations of cluster DN1:
•Start number 26 was manually annotated 15 times for cluster DN1.
•Start number 68 was manually annotated 1 time for cluster DN1.

Info for manual annotations of cluster DN2:
•Start number 26 was manually annotated 2 times for cluster DN2.

Info for manual annotations of cluster DN3:
•Start number 27 was manually annotated 2 times for cluster DN3.

Info for manual annotations of cluster DN4:
•Start number 27 was manually annotated 1 time for cluster DN4.

Info for manual annotations of cluster DU1:
•Start number 5 was manually annotated 1 time for cluster DU1.
•Start number 6 was manually annotated 3 times for cluster DU1.

Info for manual annotations of cluster DU2:
•Start number 4 was manually annotated 4 times for cluster DU2.

Info for manual annotations of cluster EH:
•Start number 17 was manually annotated 1 time for cluster EH.
•Start number 18 was manually annotated 1 time for cluster EH.
•Start number 19 was manually annotated 1 time for cluster EH.
•Start number 20 was manually annotated 2 times for cluster EH.

Info for manual annotations of cluster F1:
•Start number 28 was manually annotated 1 time for cluster F1.

Info for manual annotations of cluster F2:
•Start number 28 was manually annotated 6 times for cluster F2.
•Start number 44 was manually annotated 1 time for cluster F2.

Info for manual annotations of cluster F4:
•Start number 78 was manually annotated 4 times for cluster F4.

Info for manual annotations of cluster FN:
•Start number 24 was manually annotated 3 times for cluster FN.
•Start number 38 was manually annotated 1 time for cluster FN.

Info for manual annotations of cluster FQ1:
•Start number 24 was manually annotated 2 times for cluster FQ1.

Gene Information:

Gene: ATCC29399BC_4 Start: 3218, Stop: 3973, Start Num: 22
Candidate Starts for ATCC29399BC_4:
(Start: 22 @3218 has 60 MA's), (33, 3242), (56, 3311), (59, 3320), (62, 3338), (67, 3356), (69, 3362), (73, 3368), (75, 3374), (84, 3407), (87, 3422), (92, 3440), (99, 3461), (100, 3467), (109, 3497), (115, 3518), (117, 3524), (118, 3527), (131, 3569), (143, 3596), (162, 3659), (169, 3692), (170, 3695), (179, 3734), (180, 3740), (202, 3818), (227, 3914), (230, 3938), (233, 3947), (236, 3965),

Gene: ATCC29399BT_4 Start: 3225, Stop: 3980, Start Num: 22
Candidate Starts for ATCC29399BT_4:

(Start: 22 @3225 has 60 MA's), (59, 3327), (62, 3345), (67, 3363), (69, 3369), (75, 3381), (84, 3414), (96, 3456), (99, 3468), (100, 3474), (109, 3504), (118, 3534), (131, 3576), (142, 3600), (143, 3603), (149, 3624), (162, 3666), (169, 3699), (170, 3702), (202, 3825), (227, 3921), (230, 3945), (233, 3954), (236, 3972),

Gene: AbbyDaisy_5 Start: 3558, Stop: 4358, Start Num: 24
Candidate Starts for AbbyDaisy_5:
(Start: 24 @3558 has 10 MA's), (25, 3561), (Start: 38 @3591 has 1 MA's), (57, 3651), (69, 3699), (75, 3711), (83, 3741), (88, 3765), (121, 3867), (138, 3909), (142, 3927), (169, 4029), (178, 4080), (192, 4131), (193, 4134), (221, 4236), (224, 4248), (226, 4257), (228, 4284), (230, 4293), (234, 4305),

Gene: AceofSpades_4 Start: 3676, Stop: 4473, Start Num: 22
Candidate Starts for AceofSpades_4:
(Start: 22 @3676 has 60 MA's), (74, 3832), (79, 3850), (87, 3883), (131, 4036), (148, 4102), (169, 4186), (203, 4318),

Gene: Apricot_4 Start: 3576, Stop: 4232, Start Num: 27
Candidate Starts for Apricot_4:
(Start: 26 @3573 has 23 MA's), (Start: 27 @3576 has 8 MA's), (Start: 68 @3696 has 1 MA's), (69, 3699), (83, 3741), (97, 3792), (108, 3822), (142, 3918), (143, 3921), (158, 3975), (161, 3984), (169, 4020), (173, 4041), (194, 4125), (195, 4128), (196, 4134),

Gene: Aquarius_4 Start: 3218, Stop: 3973, Start Num: 22
Candidate Starts for Aquarius_4:
(Start: 22 @3218 has 60 MA's), (33, 3242), (59, 3320), (62, 3338), (67, 3356), (69, 3362), (73, 3368), (75, 3374), (84, 3407), (87, 3422), (96, 3449), (99, 3461), (100, 3467), (109, 3497), (115, 3518), (117, 3524), (118, 3527), (123, 3548), (131, 3569), (143, 3596), (162, 3659), (169, 3692), (170, 3695), (202, 3818), (227, 3914), (230, 3938), (233, 3947), (236, 3965),

Gene: ArV2_04 Start: 3209, Stop: 4093, Start Num: 24
Candidate Starts for ArV2_04:
(Start: 24 @3209 has 10 MA's), (31, 3230), (54, 3293), (57, 3302), (Start: 68 @3347 has 1 MA's), (82, 3389), (83, 3392), (93, 3434), (120, 3521), (125, 3545), (139, 3608), (143, 3626), (146, 3638), (160, 3686), (170, 3737), (174, 3758), (194, 3845), (195, 3848), (231, 4007), (244, 4067),

Gene: Asapag_5 Start: 3599, Stop: 4243, Start Num: 26
Candidate Starts for Asapag_5:
(Start: 26 @3599 has 23 MA's), (39, 3629), (41, 3632), (58, 3686), (Start: 68 @3722 has 1 MA's), (69, 3725), (75, 3737), (83, 3767), (93, 3809), (107, 3842), (142, 3944), (143, 3947), (144, 3950), (173, 4070), (197, 4154), (199, 4160),

Gene: Ashes_4 Start: 3879, Stop: 4673, Start Num: 19
Candidate Starts for Ashes_4:
(Start: 19 @3879 has 18 MA's), (37, 3921), (57, 3987), (63, 4017), (67, 4029), (131, 4248), (136, 4269), (147, 4311), (162, 4365), (169, 4398), (173, 4419), (225, 4611),

Gene: Attacne_4 Start: 3213, Stop: 3968, Start Num: 22
Candidate Starts for Attacne_4:
(Start: 22 @3213 has 60 MA's), (33, 3237), (56, 3306), (59, 3315), (62, 3333), (67, 3351), (69, 3357), (73, 3363), (75, 3369), (84, 3402), (87, 3417), (92, 3435), (99, 3456), (100, 3462), (109, 3492), (115, 3513), (118, 3522), (131, 3564), (143, 3591), (162, 3654), (169, 3687), (170, 3690), (202, 3813), (227, 3909), (230, 3933), (233, 3942), (236, 3960),

Gene: Avani_5 Start: 3585, Stop: 4229, Start Num: 28
Candidate Starts for Avani_5:
(Start: 24 @3570 has 10 MA's), (Start: 28 @3585 has 7 MA's), (Start: 44 @3618 has 1 MA's), (58, 3660), (62, 3675), (65, 3687), (Start: 68 @3696 has 1 MA's), (75, 3711), (81, 3735), (93, 3783), (121, 3864), (131, 3885), (136, 3906), (161, 3996), (169, 4035), (173, 4056), (197, 4137), (199, 4143), (215, 4197),

Gene: B22_5 Start: 3905, Stop: 4687, Start Num: 24
Candidate Starts for B22_5:
(Start: 24 @3905 has 10 MA's), (65, 4034), (102, 4157), (111, 4184), (133, 4229), (145, 4274), (169, 4373), (173, 4394), (193, 4460), (211, 4514), (218, 4547), (226, 4586), (232, 4631), (235, 4649), (238, 4667),

Gene: BENtherdunthat_5 Start: 3599, Stop: 4243, Start Num: 26
Candidate Starts for BENtherdunthat_5:
(Start: 26 @3599 has 23 MA's), (39, 3629), (41, 3632), (58, 3686), (Start: 68 @3722 has 1 MA's), (69, 3725), (75, 3737), (83, 3767), (93, 3809), (107, 3842), (142, 3944), (143, 3947), (144, 3950), (173, 4070), (197, 4154), (199, 4160),

Gene: Bauer_6 Start: 4443, Stop: 5192, Start Num: 24
Candidate Starts for Bauer_6:
(Start: 24 @4443 has 10 MA's), (Start: 38 @4476 has 1 MA's), (48, 4503), (50, 4515), (59, 4542), (62, 4560), (69, 4584), (85, 4632), (88, 4650), (89, 4656), (114, 4737), (116, 4746), (134, 4785), (142, 4818), (162, 4884), (193, 5016), (206, 5055), (213, 5076), (221, 5115), (231, 5172),

Gene: BearBQ_4 Start: 3576, Stop: 4232, Start Num: 27
Candidate Starts for BearBQ_4:
(Start: 26 @3573 has 23 MA's), (Start: 27 @3576 has 8 MA's), (Start: 68 @3696 has 1 MA's), (69, 3699), (83, 3741), (97, 3792), (108, 3822), (142, 3918), (143, 3921), (158, 3975), (161, 3984), (169, 4020), (173, 4041), (194, 4125), (195, 4128), (196, 4134),

Gene: Beaupre_4 Start: 3879, Stop: 4673, Start Num: 19
Candidate Starts for Beaupre_4:
(Start: 19 @3879 has 18 MA's), (37, 3921), (57, 3987), (63, 4017), (67, 4029), (90, 4110), (129, 4230), (131, 4248), (136, 4269), (147, 4311), (162, 4365), (169, 4398), (173, 4419), (225, 4611),

Gene: BellaJr_6 Start: 4447, Stop: 5247, Start Num: 24
Candidate Starts for BellaJr_6:
(Start: 24 @4447 has 10 MA's), (47, 4504), (48, 4507), (50, 4519), (85, 4636), (88, 4654), (99, 4690), (142, 4822), (169, 4924), (193, 5026), (213, 5086), (218, 5110), (224, 5140), (228, 5176), (231, 5188), (234, 5197),

Gene: Birdsong_4 Start: 3576, Stop: 4232, Start Num: 27
Candidate Starts for Birdsong_4:
(Start: 26 @3573 has 23 MA's), (Start: 27 @3576 has 8 MA's), (Start: 68 @3696 has 1 MA's), (69, 3699), (83, 3741), (97, 3792), (108, 3822), (142, 3918), (143, 3921), (158, 3975), (161, 3984), (169, 4020), (173, 4041), (194, 4125), (195, 4128), (196, 4134),

Gene: BlackSpider_4 Start: 3452, Stop: 4255, Start Num: 24
Candidate Starts for BlackSpider_4:
(Start: 24 @3452 has 10 MA's), (Start: 38 @3485 has 1 MA's), (48, 3512), (50, 3524), (62, 3569), (69, 3593), (85, 3641), (88, 3659), (110, 3734), (121, 3767), (133, 3791), (136, 3803), (142, 3827), (169, 3929), (178, 3980), (193, 4034), (213, 4094), (224, 4148), (234, 4205),

Gene: Blarby_6 Start: 4110, Stop: 4754, Start Num: 28
Candidate Starts for Blarby_6:
(Start: 24 @4095 has 10 MA's), (Start: 28 @4110 has 7 MA's), (Start: 44 @4143 has 1 MA's), (58, 4185), (62, 4200), (65, 4212), (Start: 68 @4221 has 1 MA's), (74, 4233), (75, 4236), (81, 4260), (93, 4308), (116, 4377), (121, 4389), (131, 4410), (136, 4431), (161, 4521), (169, 4560), (173, 4581), (197, 4662), (199, 4668), (215, 4722),

Gene: BotCity_5 Start: 3597, Stop: 4241, Start Num: 26
Candidate Starts for BotCity_5:
(Start: 26 @3597 has 23 MA's), (39, 3627), (41, 3630), (58, 3684), (Start: 68 @3720 has 1 MA's), (69, 3723), (75, 3735), (83, 3765), (93, 3807), (107, 3840), (142, 3942), (143, 3945), (144, 3948), (173, 4068), (197, 4152), (199, 4158),

Gene: BruceLethal_4 Start: 3210, Stop: 3965, Start Num: 22
Candidate Starts for BruceLethal_4:
(Start: 22 @3210 has 60 MA's), (29, 3225), (59, 3312), (62, 3330), (67, 3348), (69, 3354), (73, 3360), (75, 3366), (84, 3399), (87, 3414), (92, 3432), (99, 3453), (100, 3459), (109, 3489), (115, 3510), (131, 3561), (142, 3585), (143, 3588), (162, 3651), (169, 3684), (202, 3810), (227, 3906), (230, 3930), (233, 3939), (236, 3957),

Gene: Budski_5 Start: 3597, Stop: 4241, Start Num: 26
Candidate Starts for Budski_5:
(Start: 26 @3597 has 23 MA's), (39, 3627), (50, 3663), (58, 3684), (65, 3711), (Start: 68 @3720 has 1 MA's), (69, 3723), (75, 3735), (93, 3807), (140, 3930), (142, 3942), (143, 3945), (144, 3948), (173, 4068), (197, 4152), (199, 4158),

Gene: Cappuccino_4 Start: 3875, Stop: 4669, Start Num: 19
Candidate Starts for Cappuccino_4:
(Start: 19 @3875 has 18 MA's), (37, 3917), (57, 3983), (63, 4013), (67, 4025), (131, 4244), (136, 4265), (147, 4307), (169, 4394), (173, 4415), (176, 4433), (225, 4607),

Gene: Cassini_4 Start: 3417, Stop: 4220, Start Num: 24
Candidate Starts for Cassini_4:
(Start: 24 @3417 has 10 MA's), (Start: 38 @3450 has 1 MA's), (48, 3477), (50, 3489), (62, 3534), (69, 3558), (85, 3606), (88, 3624), (110, 3699), (121, 3732), (133, 3756), (136, 3768), (142, 3792), (169, 3894), (178, 3945), (193, 3999), (213, 4059), (224, 4113),

Gene: Cen1621_4 Start: 3740, Stop: 4483, Start Num: 20
Candidate Starts for Cen1621_4:
(Start: 20 @3740 has 2 MA's), (37, 3779), (76, 3908), (90, 3968), (103, 3998), (136, 4136), (142, 4160), (162, 4229), (169, 4262), (186, 4337), (190, 4346),

Gene: Che9d_5 Start: 3595, Stop: 4239, Start Num: 28
Candidate Starts for Che9d_5:
(Start: 28 @3595 has 7 MA's), (Start: 44 @3628 has 1 MA's), (58, 3670), (62, 3685), (65, 3697), (Start: 68 @3706 has 1 MA's), (74, 3718), (75, 3721), (81, 3745), (93, 3793), (116, 3862), (121, 3874), (131, 3895), (136, 3916), (161, 4006), (169, 4045), (173, 4066), (197, 4147), (199, 4153), (215, 4207),

Gene: CheeseTouch_5 Start: 3597, Stop: 4241, Start Num: 26
Candidate Starts for CheeseTouch_5:
(Start: 26 @3597 has 23 MA's), (39, 3627), (50, 3663), (58, 3684), (65, 3711), (Start: 68 @3720 has 1 MA's), (69, 3723), (75, 3735), (93, 3807), (140, 3930), (142, 3942), (143, 3945), (144, 3948), (173,

4068), (197, 4152), (199, 4158),

Gene: Cota_4 Start: 3218, Stop: 3973, Start Num: 22
Candidate Starts for Cota_4:
(Start: 22 @3218 has 60 MA's), (59, 3320), (62, 3338), (67, 3356), (69, 3362), (73, 3368), (75, 3374), (84, 3407), (87, 3422), (92, 3440), (99, 3461), (100, 3467), (109, 3497), (115, 3518), (131, 3569), (143, 3596), (162, 3659), (169, 3692), (170, 3695), (202, 3818), (227, 3914), (230, 3938), (233, 3947), (236, 3965),

Gene: Crater_4 Start: 3576, Stop: 4232, Start Num: 27
Candidate Starts for Crater_4:
(Start: 26 @3573 has 23 MA's), (Start: 27 @3576 has 8 MA's), (Start: 68 @3696 has 1 MA's), (69, 3699), (83, 3741), (97, 3792), (108, 3822), (142, 3918), (143, 3921), (158, 3975), (161, 3984), (169, 4020), (173, 4041), (194, 4125), (195, 4128), (196, 4134),

Gene: Demsculpinboyz_5 Start: 3586, Stop: 4230, Start Num: 28
Candidate Starts for Demsculpinboyz_5:
(Start: 24 @3571 has 10 MA's), (Start: 28 @3586 has 7 MA's), (Start: 44 @3619 has 1 MA's), (58, 3661), (62, 3676), (65, 3688), (Start: 68 @3697 has 1 MA's), (74, 3709), (75, 3712), (81, 3736), (93, 3784), (116, 3853), (121, 3865), (131, 3886), (136, 3907), (161, 3997), (169, 4036), (173, 4057), (197, 4138), (199, 4144), (215, 4198),

Gene: Donkey_4 Start: 3875, Stop: 4669, Start Num: 19
Candidate Starts for Donkey_4:
(Start: 19 @3875 has 18 MA's), (37, 3917), (57, 3983), (63, 4013), (67, 4025), (131, 4244), (136, 4265), (147, 4307), (169, 4394), (173, 4415), (176, 4433), (225, 4607),

Gene: Doucette_5 Start: 3905, Stop: 4690, Start Num: 24
Candidate Starts for Doucette_5:
(Start: 24 @3905 has 10 MA's), (65, 4034), (102, 4160), (111, 4187), (133, 4232), (145, 4277), (169, 4376), (173, 4397), (193, 4463), (211, 4517), (218, 4550), (226, 4589), (232, 4634), (235, 4652), (238, 4670),

Gene: DrParker_4 Start: 3218, Stop: 3973, Start Num: 22
Candidate Starts for DrParker_4:
(21, 3215), (Start: 22 @3218 has 60 MA's), (29, 3233), (59, 3320), (62, 3338), (67, 3356), (69, 3362), (73, 3368), (75, 3374), (84, 3407), (87, 3422), (92, 3440), (96, 3449), (99, 3461), (100, 3467), (109, 3497), (115, 3518), (131, 3569), (143, 3596), (162, 3659), (169, 3692), (170, 3695), (202, 3818), (227, 3914), (230, 3938), (233, 3947), (236, 3965),

Gene: E6_5 Start: 3906, Stop: 4670, Start Num: 24
Candidate Starts for E6_5:
(Start: 24 @3906 has 10 MA's), (65, 4035), (102, 4161), (111, 4188), (133, 4233), (145, 4278), (169, 4377), (173, 4398), (193, 4464), (211, 4518), (218, 4551), (226, 4590), (232, 4635), (237, 4656),

Gene: Ecliptus_5 Start: 3608, Stop: 4267, Start Num: 27
Candidate Starts for Ecliptus_5:
(8, 3533), (Start: 27 @3608 has 8 MA's), (69, 3731), (75, 3743), (83, 3773), (91, 3809), (141, 3944), (143, 3956), (161, 4019), (169, 4055), (170, 4058), (200, 4184),

Gene: Emotion_4 Start: 3677, Stop: 4474, Start Num: 22
Candidate Starts for Emotion_4:

(Start: 22 @3677 has 60 MA's), (52, 3761), (87, 3884), (94, 3908), (105, 3935), (148, 4103), (169, 4187), (176, 4226), (203, 4319),

Gene: Enochoraptor_4 Start: 3225, Stop: 3980, Start Num: 22
Candidate Starts for Enochoraptor_4:
(Start: 22 @3225 has 60 MA's), (59, 3327), (62, 3345), (67, 3363), (69, 3369), (73, 3375), (75, 3381), (84, 3414), (87, 3429), (92, 3447), (96, 3456), (99, 3468), (100, 3474), (109, 3504), (115, 3525), (131, 3576), (143, 3603), (162, 3666), (169, 3699), (170, 3702), (202, 3825), (227, 3921), (230, 3945), (233, 3954), (236, 3972),

Gene: Enoki_4 Start: 3210, Stop: 3965, Start Num: 22
Candidate Starts for Enoki_4:
(Start: 22 @3210 has 60 MA's), (29, 3225), (59, 3312), (62, 3330), (67, 3348), (69, 3354), (73, 3360), (75, 3366), (84, 3399), (87, 3414), (92, 3432), (96, 3441), (99, 3453), (100, 3459), (109, 3489), (115, 3510), (118, 3519), (131, 3561), (143, 3588), (162, 3651), (169, 3684), (170, 3687), (202, 3810), (227, 3906), (230, 3930), (233, 3939), (236, 3957),

Gene: Farewell_4 Start: 3759, Stop: 4664, Start Num: 7
Candidate Starts for Farewell_4:
(Start: 7 @3759 has 2 MA's), (23, 3825), (32, 3849), (36, 3855), (40, 3864), (49, 3891), (64, 3951), (Start: 68 @3963 has 1 MA's), (73, 3972), (75, 3978), (98, 4065), (99, 4068), (112, 4113), (122, 4149), (127, 4173), (177, 4383), (187, 4407), (216, 4488), (219, 4494), (226, 4530), (242, 4617), (243, 4626), (246, 4638),

Gene: FiveHead_4 Start: 3658, Stop: 4455, Start Num: 22
Candidate Starts for FiveHead_4:
(Start: 22 @3658 has 60 MA's), (74, 3814), (79, 3832), (87, 3865), (131, 4018), (148, 4084), (150, 4090), (169, 4168), (203, 4300),

Gene: Floof_4 Start: 4029, Stop: 4892, Start Num: 18
Candidate Starts for Floof_4:
(Start: 18 @4029 has 2 MA's), (Start: 28 @4059 has 7 MA's), (71, 4191), (136, 4434), (169, 4563), (214, 4731), (230, 4815),

Gene: Footloose_4 Start: 3515, Stop: 4273, Start Num: 19
Candidate Starts for Footloose_4:
(15, 3503), (Start: 19 @3515 has 18 MA's), (75, 3680), (Start: 78 @3692 has 4 MA's), (98, 3767), (99, 3770), (122, 3851), (139, 3899), (143, 3917), (144, 3920), (169, 4019), (200, 4154), (221, 4232),

Gene: Frickyeah_5 Start: 3599, Stop: 4243, Start Num: 26
Candidate Starts for Frickyeah_5:
(Start: 26 @3599 has 23 MA's), (39, 3629), (41, 3632), (58, 3686), (Start: 68 @3722 has 1 MA's), (69, 3725), (75, 3737), (83, 3767), (93, 3809), (107, 3842), (110, 3854), (142, 3944), (143, 3947), (144, 3950), (173, 4070), (197, 4154), (199, 4160),

Gene: G4_5 Start: 3905, Stop: 4669, Start Num: 24
Candidate Starts for G4_5:
(Start: 24 @3905 has 10 MA's), (65, 4034), (80, 4076), (102, 4160), (111, 4187), (133, 4232), (145, 4277), (169, 4376), (173, 4397), (193, 4463), (211, 4517), (218, 4550), (226, 4589), (232, 4634),

Gene: Gambol_4 Start: 3875, Stop: 4669, Start Num: 19
Candidate Starts for Gambol_4:

(Start: 19 @3875 has 18 MA's), (37, 3917), (57, 3983), (63, 4013), (67, 4025), (131, 4244), (136, 4265), (147, 4307), (169, 4394), (173, 4415), (176, 4433), (225, 4607),

Gene: Getalong_5 Start: 3599, Stop: 4243, Start Num: 26
Candidate Starts for Getalong_5:
(Start: 26 @3599 has 23 MA's), (39, 3629), (41, 3632), (58, 3686), (Start: 68 @3722 has 1 MA's), (69, 3725), (83, 3767), (93, 3809), (107, 3842), (142, 3944), (143, 3947), (144, 3950), (173, 4070), (197, 4154), (199, 4160),

Gene: Giorgio_4 Start: 3880, Stop: 4674, Start Num: 19
Candidate Starts for Giorgio_4:
(Start: 19 @3880 has 18 MA's), (37, 3922), (57, 3988), (63, 4018), (67, 4030), (129, 4231), (131, 4249), (136, 4270), (147, 4312), (162, 4366), (169, 4399), (173, 4420), (225, 4612),

Gene: Gumpizza_4 Start: 3879, Stop: 4673, Start Num: 19
Candidate Starts for Gumpizza_4:
(Start: 19 @3879 has 18 MA's), (37, 3921), (57, 3987), (63, 4017), (67, 4029), (90, 4110), (129, 4230), (131, 4248), (136, 4269), (147, 4311), (162, 4365), (169, 4398), (173, 4419), (225, 4611),

Gene: Halsey_4 Start: 3879, Stop: 4673, Start Num: 19
Candidate Starts for Halsey_4:
(Start: 19 @3879 has 18 MA's), (37, 3921), (57, 3987), (63, 4017), (67, 4029), (131, 4248), (136, 4269), (147, 4311), (162, 4365), (169, 4398), (173, 4419), (225, 4611),

Gene: Holliday_5 Start: 3597, Stop: 4241, Start Num: 26
Candidate Starts for Holliday_5:
(Start: 26 @3597 has 23 MA's), (39, 3627), (50, 3663), (58, 3684), (65, 3711), (Start: 68 @3720 has 1 MA's), (69, 3723), (75, 3735), (93, 3807), (140, 3930), (142, 3942), (143, 3945), (144, 3948), (173, 4068), (197, 4152), (199, 4158),

Gene: Honk_4 Start: 3779, Stop: 4525, Start Num: 17
Candidate Starts for Honk_4:
(Start: 17 @3779 has 1 MA's), (Start: 20 @3788 has 2 MA's), (Start: 28 @3812 has 7 MA's), (37, 3827), (42, 3839), (43, 3842), (76, 3953), (90, 4013), (113, 4076), (131, 4160), (136, 4181), (162, 4274), (169, 4307), (176, 4346), (214, 4469), (217, 4478),

Gene: Horus_5 Start: 3599, Stop: 4243, Start Num: 26
Candidate Starts for Horus_5:
(Start: 26 @3599 has 23 MA's), (39, 3629), (41, 3632), (58, 3686), (Start: 68 @3722 has 1 MA's), (69, 3725), (75, 3737), (83, 3767), (93, 3809), (107, 3842), (110, 3854), (142, 3944), (143, 3947), (144, 3950), (173, 4070), (197, 4154), (199, 4160),

Gene: IUFootball_4 Start: 3813, Stop: 4607, Start Num: 22
Candidate Starts for IUFootball_4:
(Start: 22 @3813 has 60 MA's), (52, 3897), (87, 4020), (88, 4026), (126, 4143), (129, 4155), (131, 4173), (142, 4218), (148, 4239), (169, 4323), (190, 4407),

Gene: InLimbo_4 Start: 3159, Stop: 3800, Start Num: 26
Candidate Starts for InLimbo_4:
(Start: 26 @3159 has 23 MA's), (Start: 68 @3282 has 1 MA's), (69, 3285), (75, 3297), (83, 3327), (140, 3495), (141, 3498), (142, 3507), (149, 3531), (155, 3546), (169, 3609), (173, 3630), (185, 3681), (199, 3717), (205, 3732), (221, 3795),

Gene: Jabbawokkie_6 Start: 4109, Stop: 4753, Start Num: 28
Candidate Starts for Jabbawokkie_6:
(Start: 28 @4109 has 7 MA's), (Start: 44 @4142 has 1 MA's), (58, 4184), (62, 4199), (65, 4211), (Start: 68 @4220 has 1 MA's), (74, 4232), (75, 4235), (81, 4259), (93, 4307), (116, 4376), (121, 4388), (131, 4409), (136, 4430), (161, 4520), (169, 4559), (173, 4580), (197, 4661), (199, 4667), (215, 4721),

Gene: JasmineDragon_4 Start: 3667, Stop: 4464, Start Num: 22
Candidate Starts for JasmineDragon_4:
(Start: 22 @3667 has 60 MA's), (79, 3841), (87, 3874), (131, 4027), (148, 4093), (169, 4177), (203, 4309),

Gene: JohnThicc_4 Start: 3658, Stop: 4455, Start Num: 22
Candidate Starts for JohnThicc_4:
(Start: 22 @3658 has 60 MA's), (74, 3814), (79, 3832), (87, 3865), (131, 4018), (148, 4084), (150, 4090), (169, 4168), (203, 4300),

Gene: Kalimba_4 Start: 3875, Stop: 4669, Start Num: 19
Candidate Starts for Kalimba_4:
(Start: 19 @3875 has 18 MA's), (37, 3917), (57, 3983), (63, 4013), (67, 4025), (131, 4244), (136, 4265), (147, 4307), (169, 4394), (173, 4415), (176, 4433), (225, 4607),

Gene: Kamaru_5 Start: 3597, Stop: 4241, Start Num: 26
Candidate Starts for Kamaru_5:
(Start: 26 @3597 has 23 MA's), (39, 3627), (50, 3663), (58, 3684), (65, 3711), (Start: 68 @3720 has 1 MA's), (69, 3723), (75, 3735), (93, 3807), (140, 3930), (142, 3942), (143, 3945), (144, 3948), (173, 4068), (197, 4152), (199, 4158),

Gene: Keiki_4 Start: 3218, Stop: 3973, Start Num: 22
Candidate Starts for Keiki_4:
(Start: 22 @3218 has 60 MA's), (59, 3320), (62, 3338), (67, 3356), (69, 3362), (73, 3368), (75, 3374), (84, 3407), (87, 3422), (92, 3440), (99, 3461), (100, 3467), (109, 3497), (115, 3518), (131, 3569), (143, 3596), (162, 3659), (169, 3692), (170, 3695), (202, 3818), (227, 3914), (230, 3938), (233, 3947), (236, 3965),

Gene: Kenna_5 Start: 3599, Stop: 4243, Start Num: 26
Candidate Starts for Kenna_5:
(Start: 26 @3599 has 23 MA's), (39, 3629), (41, 3632), (58, 3686), (Start: 68 @3722 has 1 MA's), (69, 3725), (83, 3767), (93, 3809), (107, 3842), (142, 3944), (143, 3947), (144, 3950), (173, 4070), (197, 4154), (199, 4160),

Gene: Kubed_4 Start: 3215, Stop: 3970, Start Num: 22
Candidate Starts for Kubed_4:
(Start: 22 @3215 has 60 MA's), (29, 3230), (59, 3317), (62, 3335), (69, 3359), (73, 3365), (75, 3371), (84, 3404), (87, 3419), (92, 3437), (96, 3446), (99, 3458), (100, 3464), (109, 3494), (115, 3515), (131, 3566), (143, 3593), (162, 3656), (169, 3689), (170, 3692), (202, 3815), (227, 3911), (230, 3935), (233, 3944), (236, 3962),

Gene: Kudefre_14 Start: 7918, Stop: 8928, Start Num: 6
Candidate Starts for Kudefre_14:
(Start: 6 @7918 has 3 MA's), (9, 7936), (10, 7945), (11, 7960), (31, 8017), (55, 8089), (70, 8143), (117, 8293), (126, 8329), (131, 8353), (143, 8401), (157, 8452), (158, 8455), (169, 8503), (180, 8566), (183, 8584), (210, 8668), (215, 8698), (222, 8728), (230, 8776), (239, 8824), (244, 8839), (245, 8845),

Gene: Kuwabara_4 Start: 3576, Stop: 4232, Start Num: 27
Candidate Starts for Kuwabara_4:
(Start: 26 @3573 has 23 MA's), (Start: 27 @3576 has 8 MA's), (Start: 68 @3696 has 1 MA's), (69, 3699), (83, 3741), (97, 3792), (108, 3822), (142, 3918), (143, 3921), (158, 3975), (161, 3984), (169, 4020), (173, 4041), (194, 4125), (195, 4128), (196, 4134),

Gene: LadyAstra_4 Start: 3658, Stop: 4455, Start Num: 22
Candidate Starts for LadyAstra_4:
(Start: 22 @3658 has 60 MA's), (74, 3814), (79, 3832), (87, 3865), (131, 4018), (148, 4084), (150, 4090), (169, 4168), (203, 4300),

Gene: Lauchelly_4 Start: 3218, Stop: 3973, Start Num: 22
Candidate Starts for Lauchelly_4:
(Start: 22 @3218 has 60 MA's), (33, 3242), (59, 3320), (62, 3338), (67, 3356), (69, 3362), (73, 3368), (75, 3374), (84, 3407), (87, 3422), (92, 3440), (99, 3461), (100, 3467), (109, 3497), (115, 3518), (131, 3569), (132, 3575), (142, 3593), (143, 3596), (156, 3635), (169, 3692), (202, 3818), (204, 3821), (208, 3830), (227, 3914), (230, 3938), (233, 3947), (236, 3965),

Gene: Leroy_5 Start: 3600, Stop: 4244, Start Num: 26
Candidate Starts for Leroy_5:
(Start: 26 @3600 has 23 MA's), (39, 3630), (41, 3633), (58, 3687), (Start: 68 @3723 has 1 MA's), (69, 3726), (75, 3738), (83, 3768), (93, 3810), (107, 3843), (110, 3855), (142, 3945), (143, 3948), (144, 3951), (173, 4071), (197, 4155), (199, 4161),

Gene: Leviosa_4 Start: 3217, Stop: 3972, Start Num: 22
Candidate Starts for Leviosa_4:
(Start: 22 @3217 has 60 MA's), (29, 3232), (59, 3319), (62, 3337), (69, 3361), (75, 3373), (84, 3406), (87, 3421), (92, 3439), (99, 3460), (100, 3466), (109, 3496), (115, 3517), (118, 3526), (131, 3568), (142, 3592), (143, 3595), (162, 3658), (169, 3691), (202, 3817), (227, 3913), (230, 3937), (233, 3946), (236, 3964),

Gene: Liebe_4 Start: 3813, Stop: 4607, Start Num: 22
Candidate Starts for Liebe_4:
(Start: 22 @3813 has 60 MA's), (52, 3897), (87, 4020), (88, 4026), (126, 4143), (129, 4155), (131, 4173), (142, 4218), (148, 4239), (169, 4323), (190, 4407),

Gene: LilBandit_4 Start: 3215, Stop: 3970, Start Num: 22
Candidate Starts for LilBandit_4:
(Start: 22 @3215 has 60 MA's), (29, 3230), (59, 3317), (62, 3335), (67, 3353), (69, 3359), (73, 3365), (75, 3371), (84, 3404), (87, 3419), (92, 3437), (96, 3446), (99, 3458), (100, 3464), (109, 3494), (115, 3515), (131, 3566), (143, 3593), (156, 3632), (162, 3656), (169, 3689), (170, 3692), (202, 3815), (227, 3911), (230, 3935), (233, 3944), (236, 3962),

Gene: LilJank_14 Start: 7803, Stop: 8822, Start Num: 4
Candidate Starts for LilJank_14:
(Start: 4 @7803 has 4 MA's), (12, 7872), (31, 7926), (50, 7977), (77, 8070), (118, 8217), (123, 8238), (126, 8250), (131, 8274), (134, 8286), (143, 8322), (150, 8346), (169, 8424), (170, 8427), (191, 8532), (200, 8562), (209, 8583), (220, 8634), (222, 8646), (248, 8769),

Gene: LitninMcQueen_5 Start: 3597, Stop: 4241, Start Num: 26
Candidate Starts for LitninMcQueen_5:
(Start: 26 @3597 has 23 MA's), (39, 3627), (50, 3663), (58, 3684), (65, 3711), (Start: 68 @3720 has 1 MA's), (69, 3723), (75, 3735), (93, 3807), (140, 3930), (142, 3942), (143, 3945), (144, 3948), (173,

4068), (197, 4152), (199, 4158),

Gene: Lucky10_4 Start: 3151, Stop: 3789, Start Num: 26
Candidate Starts for Lucky10_4:
(Start: 24 @3145 has 10 MA's), (Start: 26 @3151 has 23 MA's), (Start: 68 @3271 has 1 MA's), (69, 3274), (83, 3316), (141, 3487), (155, 3535), (169, 3598), (176, 3637), (199, 3706), (205, 3721),

Gene: LunaStella_4 Start: 3803, Stop: 4498, Start Num: 78
Candidate Starts for LunaStella_4:
(Start: 24 @3644 has 10 MA's), (Start: 26 @3650 has 23 MA's), (Start: 78 @3803 has 4 MA's), (83, 3821), (96, 3869), (102, 3893), (112, 3926), (119, 3950), (124, 3971), (127, 3983), (133, 4019), (141, 4046), (151, 4085), (153, 4088), (166, 4151), (175, 4190), (181, 4226), (184, 4244), (187, 4256), (216, 4355), (226, 4397),

Gene: Lutum_5 Start: 3599, Stop: 4243, Start Num: 26
Candidate Starts for Lutum_5:
(Start: 26 @3599 has 23 MA's), (39, 3629), (41, 3632), (58, 3686), (Start: 68 @3722 has 1 MA's), (69, 3725), (83, 3767), (93, 3809), (107, 3842), (142, 3944), (143, 3947), (144, 3950), (173, 4070), (197, 4154), (199, 4160),

Gene: MEAK_4 Start: 3213, Stop: 3968, Start Num: 22
Candidate Starts for MEAK_4:
(Start: 22 @3213 has 60 MA's), (29, 3228), (59, 3315), (62, 3333), (69, 3357), (73, 3363), (75, 3369), (84, 3402), (87, 3417), (92, 3435), (96, 3444), (99, 3456), (100, 3462), (109, 3492), (131, 3564), (132, 3570), (143, 3591), (169, 3687), (170, 3690), (202, 3813), (227, 3909), (230, 3933), (233, 3942), (236, 3960),

Gene: MaGuCo_4 Start: 3672, Stop: 4466, Start Num: 22
Candidate Starts for MaGuCo_4:
(Start: 22 @3672 has 60 MA's), (52, 3756), (87, 3879), (126, 4002), (129, 4014), (131, 4032), (142, 4077), (148, 4098), (169, 4182), (170, 4185), (190, 4266), (207, 4323),

Gene: Maureen_4 Start: 3813, Stop: 4607, Start Num: 22
Candidate Starts for Maureen_4:
(Start: 22 @3813 has 60 MA's), (52, 3897), (87, 4020), (88, 4026), (126, 4143), (129, 4155), (131, 4173), (142, 4218), (148, 4239), (169, 4323), (190, 4407),

Gene: Merpity_5 Start: 3158, Stop: 3907, Start Num: 24
Candidate Starts for Merpity_5:
(Start: 24 @3158 has 10 MA's), (30, 3176), (45, 3209), (47, 3215), (50, 3230), (59, 3257), (69, 3299), (75, 3311), (102, 3413), (140, 3512), (142, 3524), (149, 3548), (170, 3635), (193, 3734), (211, 3788), (240, 3893),

Gene: MiniMommy_4 Start: 3667, Stop: 4464, Start Num: 22
Candidate Starts for MiniMommy_4:
(Start: 22 @3667 has 60 MA's), (79, 3841), (87, 3874), (131, 4027), (148, 4093), (169, 4177), (203, 4309),

Gene: Morkie_4 Start: 3159, Stop: 3800, Start Num: 26
Candidate Starts for Morkie_4:
(Start: 26 @3159 has 23 MA's), (Start: 68 @3282 has 1 MA's), (69, 3285), (75, 3297), (83, 3327), (140, 3495), (141, 3498), (142, 3507), (149, 3531), (155, 3546), (169, 3609), (173, 3630), (185, 3681), (199, 3717), (205, 3732), (221, 3795),

Gene: MortyNRick_4 Start: 3576, Stop: 4232, Start Num: 27
Candidate Starts for MortyNRick_4:
(Start: 26 @3573 has 23 MA's), (Start: 27 @3576 has 8 MA's), (Start: 68 @3696 has 1 MA's), (69, 3699), (83, 3741), (97, 3792), (108, 3822), (142, 3918), (143, 3921), (158, 3975), (161, 3984), (169, 4020), (173, 4041), (194, 4125), (195, 4128), (196, 4134),

Gene: Moss_4 Start: 3879, Stop: 4673, Start Num: 19
Candidate Starts for Moss_4:
(Start: 19 @3879 has 18 MA's), (37, 3921), (57, 3987), (63, 4017), (67, 4029), (131, 4248), (136, 4269), (147, 4311), (162, 4365), (169, 4398), (173, 4419), (225, 4611),

Gene: Moyashi_4 Start: 3218, Stop: 3973, Start Num: 22
Candidate Starts for Moyashi_4:
(Start: 22 @3218 has 60 MA's), (29, 3233), (59, 3320), (62, 3338), (67, 3356), (69, 3362), (73, 3368), (75, 3374), (84, 3407), (87, 3422), (92, 3440), (96, 3449), (99, 3461), (100, 3467), (109, 3497), (115, 3518), (131, 3569), (143, 3596), (162, 3659), (169, 3692), (170, 3695), (202, 3818), (208, 3830), (227, 3914), (230, 3938), (233, 3947), (236, 3965),

Gene: MrAK_4 Start: 3218, Stop: 3973, Start Num: 22
Candidate Starts for MrAK_4:
(Start: 22 @3218 has 60 MA's), (29, 3233), (59, 3320), (62, 3338), (67, 3356), (69, 3362), (73, 3368), (75, 3374), (84, 3407), (87, 3422), (92, 3440), (96, 3449), (99, 3461), (100, 3467), (109, 3497), (115, 3518), (131, 3569), (143, 3596), (162, 3659), (169, 3692), (170, 3695), (202, 3818), (227, 3914), (230, 3938), (233, 3947), (236, 3965),

Gene: MrSmee_4 Start: 3158, Stop: 3907, Start Num: 24
Candidate Starts for MrSmee_4:
(Start: 24 @3158 has 10 MA's), (30, 3176), (34, 3185), (45, 3209), (47, 3215), (50, 3230), (52, 3239), (57, 3251), (59, 3257), (61, 3272), (69, 3299), (75, 3311), (102, 3413), (140, 3512), (142, 3524), (149, 3548), (170, 3635), (211, 3788),

Gene: Mysterium_4 Start: 3879, Stop: 4673, Start Num: 19
Candidate Starts for Mysterium_4:
(Start: 19 @3879 has 18 MA's), (37, 3921), (57, 3987), (63, 4017), (67, 4029), (90, 4110), (131, 4248), (136, 4269), (147, 4311), (162, 4365), (169, 4398), (173, 4419), (225, 4611),

Gene: Neroxid_4 Start: 3191, Stop: 3922, Start Num: 24
Candidate Starts for Neroxid_4:
(Start: 24 @3191 has 10 MA's), (25, 3194), (47, 3248), (48, 3251), (57, 3284), (66, 3323), (88, 3398), (110, 3467), (114, 3479), (133, 3524), (138, 3542), (142, 3560), (162, 3626), (168, 3659), (173, 3683), (193, 3752), (234, 3872), (240, 3908),

Gene: Neville_14 Start: 7752, Stop: 8771, Start Num: 4
Candidate Starts for Neville_14:
(2, 7683), (Start: 4 @7752 has 4 MA's), (12, 7821), (31, 7875), (50, 7926), (77, 8019), (118, 8166), (123, 8187), (126, 8199), (131, 8223), (134, 8235), (143, 8271), (150, 8295), (169, 8373), (170, 8376), (191, 8481), (200, 8511), (209, 8532), (220, 8583), (222, 8595), (248, 8718),

Gene: ODay_5 Start: 3606, Stop: 4265, Start Num: 27
Candidate Starts for ODay_5:
(8, 3531), (Start: 27 @3606 has 8 MA's), (69, 3729), (75, 3741), (83, 3771), (91, 3807), (141, 3942), (143, 3954), (161, 4017), (169, 4053), (170, 4056), (200, 4182),

Gene: Octobien14_15 Start: 8989, Stop: 9996, Start Num: 5
Candidate Starts for Octobien14_15:
(Start: 5 @8989 has 1 MA's), (10, 9022), (31, 9094), (42, 9115), (55, 9166), (77, 9238), (106, 9331), (126, 9406), (131, 9430), (143, 9478), (157, 9529), (170, 9583), (180, 9643), (211, 9748), (212, 9754), (215, 9772), (230, 9844), (236, 9874), (241, 9895), (244, 9907), (249, 9937),

Gene: Ogopogo_6 Start: 3847, Stop: 4491, Start Num: 28
Candidate Starts for Ogopogo_6:
(Start: 24 @3832 has 10 MA's), (Start: 28 @3847 has 7 MA's), (Start: 44 @3880 has 1 MA's), (58, 3922), (62, 3937), (65, 3949), (Start: 68 @3958 has 1 MA's), (74, 3970), (75, 3973), (81, 3997), (93, 4045), (121, 4126), (131, 4147), (136, 4168), (161, 4258), (169, 4297), (173, 4318), (197, 4399), (199, 4405), (215, 4459),

Gene: Origami_4 Start: 3658, Stop: 4455, Start Num: 22
Candidate Starts for Origami_4:
(Start: 22 @3658 has 60 MA's), (52, 3742), (74, 3814), (79, 3832), (87, 3865), (131, 4018), (148, 4084), (150, 4090), (169, 4168), (203, 4300),

Gene: Ouroboros_4 Start: 3215, Stop: 3970, Start Num: 22
Candidate Starts for Ouroboros_4:
(Start: 22 @3215 has 60 MA's), (29, 3230), (59, 3317), (62, 3335), (67, 3353), (69, 3359), (73, 3365), (75, 3371), (84, 3404), (87, 3419), (99, 3458), (100, 3464), (109, 3494), (115, 3515), (118, 3524), (123, 3545), (131, 3566), (142, 3590), (143, 3593), (162, 3656), (169, 3689), (170, 3692), (202, 3815), (227, 3911), (230, 3935), (233, 3944), (236, 3962),

Gene: P1.1_4 Start: 3218, Stop: 3973, Start Num: 22
Candidate Starts for P1.1_4:
(Start: 22 @3218 has 60 MA's), (59, 3320), (62, 3338), (67, 3356), (69, 3362), (73, 3368), (75, 3374), (84, 3407), (87, 3422), (92, 3440), (96, 3449), (99, 3461), (100, 3467), (109, 3497), (115, 3518), (131, 3569), (143, 3596), (169, 3692), (170, 3695), (202, 3818), (227, 3914), (230, 3938), (233, 3947), (236, 3965),

Gene: P100.1_4 Start: 3218, Stop: 3973, Start Num: 22
Candidate Starts for P100.1_4:
(Start: 22 @3218 has 60 MA's), (29, 3233), (59, 3320), (62, 3338), (67, 3356), (69, 3362), (73, 3368), (75, 3374), (84, 3407), (87, 3422), (96, 3449), (99, 3461), (100, 3467), (109, 3497), (115, 3518), (131, 3569), (142, 3593), (143, 3596), (162, 3659), (169, 3692), (170, 3695), (202, 3818), (227, 3914), (230, 3938), (233, 3947), (236, 3965),

Gene: P100A_4 Start: 3223, Stop: 3978, Start Num: 22
Candidate Starts for P100A_4:
(Start: 22 @3223 has 60 MA's), (33, 3247), (59, 3325), (62, 3343), (67, 3361), (69, 3367), (75, 3379), (84, 3412), (87, 3427), (92, 3445), (99, 3466), (100, 3472), (109, 3502), (115, 3523), (131, 3574), (134, 3586), (142, 3598), (143, 3601), (162, 3664), (169, 3697), (170, 3700), (202, 3823), (208, 3835), (227, 3919), (230, 3943), (233, 3952), (236, 3970),

Gene: P100D_4 Start: 3213, Stop: 3968, Start Num: 22
Candidate Starts for P100D_4:
(Start: 22 @3213 has 60 MA's), (29, 3228), (59, 3315), (62, 3333), (67, 3351), (69, 3357), (73, 3363), (75, 3369), (84, 3402), (87, 3417), (92, 3435), (96, 3444), (99, 3456), (100, 3462), (109, 3492), (115, 3513), (118, 3522), (131, 3564), (143, 3591), (162, 3654), (169, 3687), (170, 3690), (202, 3813), (227, 3909), (230, 3933), (233, 3942), (236, 3960),

Gene: P101A_4 Start: 3218, Stop: 3973, Start Num: 22
Candidate Starts for P101A_4:
(Start: 22 @3218 has 60 MA's), (29, 3233), (59, 3320), (62, 3338), (67, 3356), (69, 3362), (73, 3368), (75, 3374), (84, 3407), (87, 3422), (92, 3440), (96, 3449), (99, 3461), (100, 3467), (109, 3497), (115, 3518), (118, 3527), (131, 3569), (143, 3596), (162, 3659), (169, 3692), (170, 3695), (202, 3818), (227, 3914), (230, 3938), (233, 3947), (236, 3965),

Gene: P104A_4 Start: 3215, Stop: 3970, Start Num: 22
Candidate Starts for P104A_4:
(Start: 22 @3215 has 60 MA's), (29, 3230), (59, 3317), (62, 3335), (67, 3353), (69, 3359), (73, 3365), (75, 3371), (84, 3404), (87, 3419), (92, 3437), (96, 3446), (99, 3458), (100, 3464), (109, 3494), (115, 3515), (123, 3545), (131, 3566), (134, 3578), (143, 3593), (162, 3656), (169, 3689), (170, 3692), (202, 3815), (227, 3911), (230, 3935), (233, 3944), (236, 3962),

Gene: P104B_4 Start: 3213, Stop: 3968, Start Num: 22
Candidate Starts for P104B_4:
(Start: 22 @3213 has 60 MA's), (59, 3315), (62, 3333), (67, 3351), (69, 3357), (73, 3363), (75, 3369), (84, 3402), (87, 3417), (92, 3435), (96, 3444), (99, 3456), (100, 3462), (109, 3492), (115, 3513), (118, 3522), (131, 3564), (143, 3591), (169, 3687), (170, 3690), (202, 3813), (227, 3909), (230, 3933), (233, 3942), (236, 3960),

Gene: P105_4 Start: 3210, Stop: 3965, Start Num: 22
Candidate Starts for P105_4:
(Start: 22 @3210 has 60 MA's), (29, 3225), (59, 3312), (62, 3330), (67, 3348), (69, 3354), (73, 3360), (75, 3366), (84, 3399), (87, 3414), (92, 3432), (96, 3441), (99, 3453), (100, 3459), (109, 3489), (115, 3510), (123, 3540), (131, 3561), (143, 3588), (162, 3651), (169, 3684), (170, 3687), (202, 3810), (227, 3906), (230, 3930), (233, 3939), (236, 3957),

Gene: P106A_4 Start: 3218, Stop: 3973, Start Num: 22
Candidate Starts for P106A_4:
(Start: 22 @3218 has 60 MA's), (29, 3233), (59, 3320), (62, 3338), (67, 3356), (69, 3362), (73, 3368), (75, 3374), (84, 3407), (87, 3422), (92, 3440), (96, 3449), (99, 3461), (100, 3467), (109, 3497), (115, 3518), (131, 3569), (143, 3596), (162, 3659), (169, 3692), (170, 3695), (202, 3818), (227, 3914), (230, 3938), (233, 3947), (236, 3965),

Gene: P106C_4 Start: 3218, Stop: 3973, Start Num: 22
Candidate Starts for P106C_4:
(Start: 22 @3218 has 60 MA's), (29, 3233), (59, 3320), (62, 3338), (67, 3356), (69, 3362), (73, 3368), (75, 3374), (84, 3407), (87, 3422), (92, 3440), (96, 3449), (99, 3461), (100, 3467), (109, 3497), (115, 3518), (131, 3569), (143, 3596), (162, 3659), (169, 3692), (170, 3695), (202, 3818), (227, 3914), (230, 3938), (233, 3947), (236, 3965),

Gene: P106I_4 Start: 3218, Stop: 3973, Start Num: 22
Candidate Starts for P106I_4:
(Start: 22 @3218 has 60 MA's), (29, 3233), (59, 3320), (62, 3338), (67, 3356), (69, 3362), (73, 3368), (75, 3374), (84, 3407), (87, 3422), (92, 3440), (96, 3449), (99, 3461), (100, 3467), (109, 3497), (115, 3518), (131, 3569), (143, 3596), (162, 3659), (169, 3692), (170, 3695), (202, 3818), (227, 3914), (230, 3938), (233, 3947), (236, 3965),

Gene: P106L_4 Start: 3218, Stop: 3973, Start Num: 22
Candidate Starts for P106L_4:

(Start: 22 @3218 has 60 MA's), (29, 3233), (59, 3320), (62, 3338), (67, 3356), (69, 3362), (73, 3368), (75, 3374), (84, 3407), (87, 3422), (92, 3440), (96, 3449), (99, 3461), (100, 3467), (109, 3497), (115, 3518), (131, 3569), (143, 3596), (162, 3659), (169, 3692), (170, 3695), (202, 3818), (227, 3914), (230, 3938), (233, 3947), (236, 3965),

Gene: P106M_4 Start: 3218, Stop: 3973, Start Num: 22
Candidate Starts for P106M_4:
(Start: 22 @3218 has 60 MA's), (29, 3233), (59, 3320), (62, 3338), (67, 3356), (69, 3362), (73, 3368), (75, 3374), (84, 3407), (87, 3422), (92, 3440), (96, 3449), (99, 3461), (100, 3467), (109, 3497), (115, 3518), (131, 3569), (143, 3596), (162, 3659), (169, 3692), (170, 3695), (202, 3818), (227, 3914), (230, 3938), (233, 3947), (236, 3965),

Gene: P107A_4 Start: 3223, Stop: 3978, Start Num: 22
Candidate Starts for P107A_4:
(Start: 22 @3223 has 60 MA's), (29, 3238), (56, 3316), (59, 3325), (62, 3343), (67, 3361), (69, 3367), (73, 3373), (75, 3379), (84, 3412), (87, 3427), (92, 3445), (99, 3466), (100, 3472), (109, 3502), (131, 3574), (134, 3586), (142, 3598), (143, 3601), (149, 3622), (162, 3664), (169, 3697), (170, 3700), (179, 3739), (202, 3823), (227, 3919), (230, 3943), (233, 3952), (236, 3970),

Gene: P107C_4 Start: 3218, Stop: 3973, Start Num: 22
Candidate Starts for P107C_4:
(Start: 22 @3218 has 60 MA's), (33, 3242), (56, 3311), (59, 3320), (62, 3338), (67, 3356), (69, 3362), (73, 3368), (75, 3374), (84, 3407), (87, 3422), (92, 3440), (99, 3461), (100, 3467), (109, 3497), (115, 3518), (117, 3524), (118, 3527), (131, 3569), (143, 3596), (162, 3659), (169, 3692), (170, 3695), (179, 3734), (180, 3740), (202, 3818), (227, 3914), (230, 3938), (233, 3947), (236, 3965),

Gene: P108C_4 Start: 3218, Stop: 3973, Start Num: 22
Candidate Starts for P108C_4:
(Start: 22 @3218 has 60 MA's), (59, 3320), (62, 3338), (67, 3356), (69, 3362), (73, 3368), (75, 3374), (84, 3407), (87, 3422), (92, 3440), (96, 3449), (99, 3461), (100, 3467), (109, 3497), (115, 3518), (131, 3569), (142, 3593), (143, 3596), (162, 3659), (169, 3692), (170, 3695), (202, 3818), (227, 3914), (230, 3938), (233, 3947), (236, 3965),

Gene: P14.4_4 Start: 3218, Stop: 3973, Start Num: 22
Candidate Starts for P14.4_4:
(Start: 22 @3218 has 60 MA's), (33, 3242), (56, 3311), (59, 3320), (62, 3338), (67, 3356), (69, 3362), (73, 3368), (75, 3374), (84, 3407), (87, 3422), (96, 3449), (99, 3461), (100, 3467), (109, 3497), (115, 3518), (123, 3548), (131, 3569), (143, 3596), (162, 3659), (169, 3692), (170, 3695), (179, 3734), (202, 3818), (208, 3830), (227, 3914), (230, 3938), (233, 3947), (236, 3965),

Gene: P3MA_5 Start: 3858, Stop: 4730, Start Num: 26
Candidate Starts for P3MA_5:
(1, 3546), (3, 3741), (Start: 26 @3858 has 23 MA's), (112, 4140), (130, 4215), (153, 4296), (177, 4404), (182, 4437), (194, 4479), (218, 4563), (219, 4566), (229, 4635), (247, 4710),

Gene: P9.1_4 Start: 3213, Stop: 3968, Start Num: 22
Candidate Starts for P9.1_4:
(Start: 22 @3213 has 60 MA's), (29, 3228), (59, 3315), (62, 3333), (67, 3351), (69, 3357), (73, 3363), (75, 3369), (84, 3402), (87, 3417), (92, 3435), (96, 3444), (99, 3456), (100, 3462), (109, 3492), (115, 3513), (131, 3564), (143, 3591), (162, 3654), (169, 3687), (170, 3690), (202, 3813), (227, 3909), (230, 3933), (233, 3942), (236, 3960),

Gene: PA6_4 Start: 3218, Stop: 3973, Start Num: 22

Candidate Starts for PA6_4:
(Start: 22 @3218 has 60 MA's), (59, 3320), (62, 3338), (67, 3356), (69, 3362), (73, 3368), (75, 3374), (84, 3407), (87, 3422), (92, 3440), (96, 3449), (99, 3461), (100, 3467), (109, 3497), (131, 3569), (143, 3596), (162, 3659), (169, 3692), (170, 3695), (202, 3818), (227, 3914), (230, 3938), (233, 3947), (236, 3965),

Gene: PAD20_4 Start: 3218, Stop: 3973, Start Num: 22
Candidate Starts for PAD20_4:
(Start: 22 @3218 has 60 MA's), (29, 3233), (59, 3320), (62, 3338), (67, 3356), (69, 3362), (73, 3368), (75, 3374), (84, 3407), (87, 3422), (92, 3440), (96, 3449), (99, 3461), (100, 3467), (109, 3497), (115, 3518), (131, 3569), (143, 3596), (169, 3692), (170, 3695), (202, 3818), (227, 3914), (230, 3938), (233, 3947), (236, 3965),

Gene: PAS50_4 Start: 3218, Stop: 3973, Start Num: 22
Candidate Starts for PAS50_4:
(Start: 22 @3218 has 60 MA's), (59, 3320), (62, 3338), (69, 3362), (75, 3374), (84, 3407), (87, 3422), (92, 3440), (96, 3449), (99, 3461), (100, 3467), (109, 3497), (115, 3518), (118, 3527), (131, 3569), (143, 3596), (162, 3659), (169, 3692), (170, 3695), (202, 3818), (227, 3914), (230, 3938), (233, 3947), (236, 3965),

Gene: PHL010M04_04 Start: 3214, Stop: 3969, Start Num: 22
Candidate Starts for PHL010M04_04:
(Start: 22 @3214 has 60 MA's), (Start: 27 @3226 has 8 MA's), (29, 3229), (59, 3316), (62, 3334), (67, 3352), (69, 3358), (75, 3370), (84, 3403), (87, 3418), (92, 3436), (96, 3445), (99, 3457), (100, 3463), (109, 3493), (118, 3523), (131, 3565), (142, 3589), (143, 3592), (169, 3688), (180, 3736), (202, 3814), (227, 3910), (230, 3934), (233, 3943), (236, 3961),

Gene: PHL037M02_04 Start: 3215, Stop: 3970, Start Num: 22
Candidate Starts for PHL037M02_04:
(Start: 22 @3215 has 60 MA's), (29, 3230), (59, 3317), (62, 3335), (69, 3359), (73, 3365), (75, 3371), (84, 3404), (87, 3419), (99, 3458), (100, 3464), (109, 3494), (115, 3515), (118, 3524), (131, 3566), (143, 3593), (169, 3689), (170, 3692), (202, 3815), (227, 3911), (230, 3935), (233, 3944), (236, 3962),

Gene: PHL060L00_04 Start: 3213, Stop: 3968, Start Num: 22
Candidate Starts for PHL060L00_04:
(Start: 22 @3213 has 60 MA's), (29, 3228), (59, 3315), (62, 3333), (67, 3351), (69, 3357), (73, 3363), (75, 3369), (84, 3402), (87, 3417), (92, 3435), (99, 3456), (100, 3462), (109, 3492), (115, 3513), (118, 3522), (131, 3564), (143, 3591), (162, 3654), (169, 3687), (170, 3690), (202, 3813), (227, 3909), (230, 3933), (233, 3942), (236, 3960),

Gene: PHL067M10_04 Start: 3215, Stop: 3970, Start Num: 22
Candidate Starts for PHL067M10_04:
(Start: 22 @3215 has 60 MA's), (29, 3230), (59, 3317), (62, 3335), (67, 3353), (69, 3359), (73, 3365), (75, 3371), (84, 3404), (87, 3419), (92, 3437), (96, 3446), (99, 3458), (100, 3464), (109, 3494), (115, 3515), (131, 3566), (143, 3593), (162, 3656), (169, 3689), (170, 3692), (202, 3815), (227, 3911), (230, 3935), (233, 3944), (236, 3962),

Gene: PHL071N05_04 Start: 3213, Stop: 3968, Start Num: 22
Candidate Starts for PHL071N05_04:
(Start: 22 @3213 has 60 MA's), (29, 3228), (56, 3306), (59, 3315), (62, 3333), (69, 3357), (73, 3363), (75, 3369), (84, 3402), (87, 3417), (92, 3435), (96, 3444), (99, 3456), (100, 3462), (109, 3492), (115, 3513), (131, 3564), (143, 3591), (169, 3687), (170, 3690), (202, 3813), (227, 3909), (230, 3933), (233, 3942), (236, 3960),

Gene: PHL111M01_04 Start: 3218, Stop: 3973, Start Num: 22
Candidate Starts for PHL111M01_04:
(Start: 22 @3218 has 60 MA's), (33, 3242), (56, 3311), (59, 3320), (62, 3338), (69, 3362), (73, 3368), (75, 3374), (84, 3407), (87, 3422), (92, 3440), (99, 3461), (100, 3467), (109, 3497), (115, 3518), (118, 3527), (131, 3569), (143, 3596), (169, 3692), (170, 3695), (202, 3818), (227, 3914), (230, 3938), (233, 3947), (236, 3965),

Gene: PHL112N00_04 Start: 3218, Stop: 3973, Start Num: 22
Candidate Starts for PHL112N00_04:
(Start: 22 @3218 has 60 MA's), (29, 3233), (59, 3320), (62, 3338), (67, 3356), (69, 3362), (73, 3368), (75, 3374), (84, 3407), (87, 3422), (92, 3440), (96, 3449), (99, 3461), (100, 3467), (109, 3497), (115, 3518), (123, 3548), (131, 3569), (143, 3596), (162, 3659), (169, 3692), (170, 3695), (202, 3818), (227, 3914), (230, 3938), (233, 3947), (236, 3965),

Gene: PHL113M01_04 Start: 3218, Stop: 3973, Start Num: 22
Candidate Starts for PHL113M01_04:
(Start: 22 @3218 has 60 MA's), (29, 3233), (33, 3242), (56, 3311), (59, 3320), (62, 3338), (67, 3356), (69, 3362), (73, 3368), (75, 3374), (84, 3407), (87, 3422), (92, 3440), (99, 3461), (100, 3467), (109, 3497), (115, 3518), (118, 3527), (131, 3569), (143, 3596), (162, 3659), (169, 3692), (170, 3695), (202, 3818), (227, 3914), (230, 3938), (233, 3947), (236, 3965),

Gene: PHL114L00_04 Start: 3223, Stop: 3978, Start Num: 22
Candidate Starts for PHL114L00_04:
(Start: 22 @3223 has 60 MA's), (Start: 27 @3235 has 8 MA's), (29, 3238), (59, 3325), (62, 3343), (73, 3373), (99, 3466), (100, 3472), (109, 3502), (115, 3523), (131, 3574), (142, 3598), (143, 3601), (169, 3697), (170, 3700), (202, 3823), (227, 3919), (230, 3943), (233, 3952), (236, 3970),

Gene: Periwinkle_5 Start: 3599, Stop: 4243, Start Num: 26
Candidate Starts for Periwinkle_5:
(Start: 26 @3599 has 23 MA's), (39, 3629), (41, 3632), (58, 3686), (Start: 68 @3722 has 1 MA's), (69, 3725), (83, 3767), (93, 3809), (107, 3842), (142, 3944), (143, 3947), (144, 3950), (173, 4070), (197, 4154), (199, 4160),

Gene: Phabuloso_5 Start: 3597, Stop: 4241, Start Num: 26
Candidate Starts for Phabuloso_5:
(Start: 26 @3597 has 23 MA's), (39, 3627), (48, 3651), (50, 3663), (58, 3684), (65, 3711), (Start: 68 @3720 has 1 MA's), (69, 3723), (75, 3735), (93, 3807), (140, 3930), (142, 3942), (143, 3945), (144, 3948), (173, 4068), (197, 4152), (199, 4158),

Gene: Phistory_5 Start: 3598, Stop: 4242, Start Num: 26
Candidate Starts for Phistory_5:
(14, 3565), (Start: 26 @3598 has 23 MA's), (39, 3628), (58, 3685), (60, 3691), (Start: 68 @3721 has 1 MA's), (69, 3724), (83, 3766), (93, 3808), (142, 3943), (143, 3946), (173, 4069), (197, 4153), (199, 4159),

Gene: PhorbesPhlower_4 Start: 3159, Stop: 3800, Start Num: 26
Candidate Starts for PhorbesPhlower_4:
(Start: 26 @3159 has 23 MA's), (Start: 68 @3282 has 1 MA's), (69, 3285), (75, 3297), (83, 3327), (140, 3495), (141, 3498), (142, 3507), (149, 3531), (155, 3546), (169, 3609), (173, 3630), (185, 3681), (199, 3717), (205, 3732), (221, 3795),

Gene: Pirate_4 Start: 3213, Stop: 3968, Start Num: 22

Candidate Starts for Pirate_4:
(Start: 22 @3213 has 60 MA's), (59, 3315), (62, 3333), (67, 3351), (69, 3357), (73, 3363), (75, 3369), (84, 3402), (87, 3417), (92, 3435), (96, 3444), (99, 3456), (100, 3462), (109, 3492), (115, 3513), (131, 3564), (143, 3591), (162, 3654), (169, 3687), (170, 3690), (202, 3813), (227, 3909), (230, 3933), (233, 3942), (236, 3960),

Gene: Procrass1_4 Start: 3213, Stop: 3968, Start Num: 22
Candidate Starts for Procrass1_4:
(Start: 22 @3213 has 60 MA's), (29, 3228), (59, 3315), (62, 3333), (67, 3351), (69, 3357), (73, 3363), (75, 3369), (84, 3402), (87, 3417), (92, 3435), (96, 3444), (99, 3456), (100, 3462), (109, 3492), (115, 3513), (118, 3522), (123, 3543), (131, 3564), (143, 3591), (162, 3654), (169, 3687), (170, 3690), (202, 3813), (227, 3909), (230, 3933), (233, 3942), (236, 3960),

Gene: QueenBey_4 Start: 3215, Stop: 3970, Start Num: 22
Candidate Starts for QueenBey_4:
(Start: 22 @3215 has 60 MA's), (33, 3239), (59, 3317), (62, 3335), (67, 3353), (69, 3359), (75, 3371), (84, 3404), (87, 3419), (96, 3446), (99, 3458), (100, 3464), (109, 3494), (131, 3566), (142, 3590), (143, 3593), (169, 3689), (170, 3692), (202, 3815), (208, 3827), (227, 3911), (230, 3935), (233, 3944), (236, 3962),

Gene: Rabbitrun_16 Start: 8261, Stop: 9289, Start Num: 4
Candidate Starts for Rabbitrun_16:
(Start: 4 @8261 has 4 MA's), (13, 8333), (31, 8384), (55, 8456), (104, 8621), (118, 8672), (123, 8693), (126, 8705), (131, 8729), (134, 8741), (137, 8753), (143, 8777), (170, 8882), (173, 8900), (200, 9011), (209, 9032), (215, 9065), (220, 9083), (222, 9095), (225, 9107), (236, 9176), (248, 9236),

Gene: Raqqa_5 Start: 3858, Stop: 4661, Start Num: 24
Candidate Starts for Raqqa_5:
(Start: 24 @3858 has 10 MA's), (45, 3909), (59, 3957), (75, 4011), (102, 4113), (128, 4212), (135, 4251), (140, 4266), (149, 4302), (169, 4386), (170, 4389), (193, 4488), (211, 4542),

Gene: Raya_4 Start: 3191, Stop: 3922, Start Num: 24
Candidate Starts for Raya_4:
(Start: 24 @3191 has 10 MA's), (25, 3194), (47, 3248), (48, 3251), (57, 3284), (66, 3323), (88, 3398), (110, 3467), (114, 3479), (133, 3524), (138, 3542), (142, 3560), (162, 3626), (168, 3659), (173, 3683), (193, 3752), (234, 3872), (240, 3908),

Gene: Renaud18_4 Start: 3803, Stop: 4378, Start Num: 78
Candidate Starts for Renaud18_4:
(Start: 24 @3644 has 10 MA's), (Start: 26 @3650 has 23 MA's), (Start: 78 @3803 has 4 MA's), (83, 3821), (95, 3866), (96, 3869), (102, 3893), (112, 3926), (119, 3950), (124, 3971), (127, 3983), (133, 4019), (141, 4046), (151, 4085), (153, 4088), (159, 4115), (216, 4235), (226, 4277),

Gene: Rileysaurus_4 Start: 3214, Stop: 3969, Start Num: 22
Candidate Starts for Rileysaurus_4:
(Start: 22 @3214 has 60 MA's), (29, 3229), (56, 3307), (59, 3316), (62, 3334), (69, 3358), (75, 3370), (84, 3403), (92, 3436), (99, 3457), (100, 3463), (109, 3493), (115, 3514), (131, 3565), (142, 3589), (143, 3592), (162, 3655), (169, 3688), (208, 3826), (227, 3910), (230, 3934), (233, 3943), (236, 3961),

Gene: RockScotty_4 Start: 3879, Stop: 4673, Start Num: 19
Candidate Starts for RockScotty_4:
(Start: 19 @3879 has 18 MA's), (37, 3921), (57, 3987), (63, 4017), (67, 4029), (131, 4248), (136, 4269), (147, 4311), (162, 4365), (169, 4398), (173, 4419), (225, 4611),

Gene: SKKY_4 Start: 3225, Stop: 3980, Start Num: 22
Candidate Starts for SKKY_4:
(Start: 22 @3225 has 60 MA's), (29, 3240), (59, 3327), (62, 3345), (67, 3363), (69, 3369), (73, 3375), (75, 3381), (84, 3414), (87, 3429), (92, 3447), (96, 3456), (99, 3468), (100, 3474), (109, 3504), (115, 3525), (131, 3576), (143, 3603), (162, 3666), (169, 3699), (170, 3702), (202, 3825), (227, 3921), (230, 3945), (233, 3954), (236, 3972),

Gene: Sabourin_4 Start: 3875, Stop: 4669, Start Num: 19
Candidate Starts for Sabourin_4:
(Start: 19 @3875 has 18 MA's), (37, 3917), (57, 3983), (63, 4013), (67, 4025), (131, 4244), (136, 4265), (147, 4307), (169, 4394), (173, 4415), (176, 4433), (225, 4607),

Gene: Sephiroth_15 Start: 8089, Stop: 9099, Start Num: 6
Candidate Starts for Sephiroth_15:
(Start: 6 @8089 has 3 MA's), (9, 8107), (10, 8116), (11, 8131), (31, 8188), (55, 8260), (70, 8314), (117, 8464), (126, 8500), (131, 8524), (143, 8572), (157, 8623), (158, 8626), (169, 8674), (180, 8737), (183, 8755), (210, 8839), (215, 8869), (222, 8899), (230, 8947), (239, 8995), (244, 9010), (245, 9016),

Gene: ShakeItOph_4 Start: 3667, Stop: 4464, Start Num: 22
Candidate Starts for ShakeItOph_4:
(Start: 22 @3667 has 60 MA's), (79, 3841), (87, 3874), (131, 4027), (148, 4093), (169, 4177), (203, 4309),

Gene: ShawBrad_5 Start: 3599, Stop: 4243, Start Num: 26
Candidate Starts for ShawBrad_5:
(Start: 26 @3599 has 23 MA's), (39, 3629), (58, 3686), (Start: 68 @3722 has 1 MA's), (69, 3725), (83, 3767), (93, 3809), (142, 3944), (143, 3947), (144, 3950), (173, 4070), (197, 4154), (199, 4160), (215, 4214),

Gene: Skitty_4 Start: 3158, Stop: 3907, Start Num: 24
Candidate Starts for Skitty_4:
(Start: 24 @3158 has 10 MA's), (30, 3176), (34, 3185), (45, 3209), (47, 3215), (50, 3230), (52, 3239), (57, 3251), (59, 3257), (61, 3272), (69, 3299), (75, 3311), (102, 3413), (140, 3512), (142, 3524), (149, 3548), (170, 3635), (211, 3788), (240, 3893),

Gene: Skyerus_4 Start: 3191, Stop: 3922, Start Num: 24
Candidate Starts for Skyerus_4:
(Start: 24 @3191 has 10 MA's), (25, 3194), (47, 3248), (48, 3251), (57, 3284), (66, 3323), (88, 3398), (110, 3467), (114, 3479), (133, 3524), (138, 3542), (142, 3560), (162, 3626), (168, 3659), (173, 3683), (193, 3752), (234, 3872), (240, 3908),

Gene: Snek_5 Start: 4503, Stop: 5270, Start Num: 22
Candidate Starts for Snek_5:
(Start: 22 @4503 has 60 MA's), (42, 4548), (Start: 44 @4554 has 1 MA's), (74, 4659), (87, 4710), (107, 4770), (116, 4803), (123, 4821), (129, 4845), (148, 4929), (157, 4962), (169, 5013), (170, 5016), (219, 5175),

Gene: Solid_4 Start: 3217, Stop: 3972, Start Num: 22
Candidate Starts for Solid_4:
(Start: 22 @3217 has 60 MA's), (29, 3232), (56, 3310), (59, 3319), (62, 3337), (67, 3355), (69, 3361), (73, 3367), (75, 3373), (84, 3406), (87, 3421), (92, 3439), (96, 3448), (99, 3460), (100, 3466), (109, 3496), (115, 3517), (118, 3526), (131, 3568), (143, 3595), (156, 3634), (169, 3691), (170, 3694), (202,

3817), (227, 3913), (230, 3937), (233, 3946), (236, 3964),

Gene: Sooty_4 Start: 3875, Stop: 4669, Start Num: 19
Candidate Starts for Sooty_4:
(Start: 19 @3875 has 18 MA's), (37, 3917), (57, 3983), (63, 4013), (67, 4025), (131, 4244), (136, 4265), (147, 4307), (169, 4394), (173, 4415), (176, 4433), (225, 4607),

Gene: Soul22_5 Start: 3618, Stop: 4229, Start Num: 44
Candidate Starts for Soul22_5:
(Start: 24 @3570 has 10 MA's), (Start: 28 @3585 has 7 MA's), (Start: 44 @3618 has 1 MA's), (58, 3660), (62, 3675), (65, 3687), (Start: 68 @3696 has 1 MA's), (74, 3708), (75, 3711), (81, 3735), (93, 3783), (116, 3852), (121, 3864), (131, 3885), (136, 3906), (161, 3996), (169, 4035), (173, 4056), (197, 4137), (199, 4143), (215, 4197),

Gene: Sparky_4 Start: 3760, Stop: 4665, Start Num: 7
Candidate Starts for Sparky_4:
(Start: 7 @3760 has 2 MA's), (32, 3850), (36, 3856), (40, 3865), (49, 3892), (64, 3952), (Start: 68 @3964 has 1 MA's), (73, 3973), (75, 3979), (98, 4066), (99, 4069), (122, 4150), (127, 4174), (177, 4384), (187, 4408), (216, 4489), (219, 4495), (226, 4531), (242, 4618), (243, 4627), (246, 4639),

Gene: Spartoi_4 Start: 3328, Stop: 4098, Start Num: 18
Candidate Starts for Spartoi_4:
(16, 3322), (Start: 18 @3328 has 2 MA's), (53, 3427), (91, 3565), (103, 3604), (114, 3643), (116, 3652), (142, 3715), (162, 3790), (169, 3826), (173, 3847), (188, 3916), (223, 4057),

Gene: SpecialK_4 Start: 3879, Stop: 4673, Start Num: 19
Candidate Starts for SpecialK_4:
(Start: 19 @3879 has 18 MA's), (37, 3921), (57, 3987), (63, 4017), (67, 4029), (131, 4248), (136, 4269), (147, 4311), (162, 4365), (169, 4398), (173, 4419), (225, 4611),

Gene: Spooky_5 Start: 3598, Stop: 4242, Start Num: 26
Candidate Starts for Spooky_5:
(Start: 26 @3598 has 23 MA's), (Start: 68 @3721 has 1 MA's), (69, 3724), (74, 3733), (75, 3736), (83, 3766), (104, 3832), (135, 3916), (141, 3934), (143, 3946), (149, 3967), (150, 3970), (169, 4048), (173, 4069), (185, 4123), (189, 4129), (199, 4159),

Gene: Squiddly_6 Start: 4291, Stop: 4935, Start Num: 26
Candidate Starts for Squiddly_6:
(Start: 26 @4291 has 23 MA's), (51, 4363), (Start: 68 @4414 has 1 MA's), (69, 4417), (75, 4429), (83, 4459), (104, 4525), (107, 4534), (135, 4609), (140, 4624), (142, 4636), (143, 4639), (149, 4660), (150, 4663), (169, 4741), (173, 4762), (185, 4816), (189, 4822), (199, 4852),

Gene: Stormborn_4 Start: 3216, Stop: 3971, Start Num: 22
Candidate Starts for Stormborn_4:
(Start: 22 @3216 has 60 MA's), (29, 3231), (59, 3318), (62, 3336), (67, 3354), (69, 3360), (73, 3366), (75, 3372), (84, 3405), (87, 3420), (92, 3438), (96, 3447), (99, 3459), (100, 3465), (109, 3495), (115, 3516), (131, 3567), (143, 3594), (162, 3657), (169, 3690), (170, 3693), (202, 3816), (227, 3912), (230, 3936), (233, 3945), (236, 3963),

Gene: Stuu_4 Start: 3879, Stop: 4673, Start Num: 19
Candidate Starts for Stuu_4:
(Start: 19 @3879 has 18 MA's), (37, 3921), (57, 3987), (63, 4017), (129, 4230), (131, 4248), (136, 4269), (147, 4311), (162, 4365), (169, 4398), (173, 4419), (225, 4611),

Gene: SuMoo_4 Start: 3785, Stop: 4639, Start Num: 19
Candidate Starts for SuMoo_4:
(Start: 19 @3785 has 18 MA's), (35, 3821), (136, 4187), (157, 4265), (164, 4295), (169, 4316), (190, 4400), (214, 4484), (230, 4568),

Gene: Supernova_4 Start: 3213, Stop: 3968, Start Num: 22
Candidate Starts for Supernova_4:
(Start: 22 @3213 has 60 MA's), (59, 3315), (62, 3333), (67, 3351), (69, 3357), (73, 3363), (75, 3369), (84, 3402), (99, 3456), (100, 3462), (130, 3561), (131, 3564), (143, 3591), (169, 3687), (202, 3813), (227, 3909), (230, 3933), (233, 3942), (236, 3960),

Gene: Syleon_15 Start: 8011, Stop: 9021, Start Num: 6
Candidate Starts for Syleon_15:
(Start: 6 @8011 has 3 MA's), (9, 8029), (10, 8038), (11, 8053), (31, 8110), (55, 8182), (70, 8236), (117, 8386), (126, 8422), (131, 8446), (143, 8494), (157, 8545), (158, 8548), (169, 8596), (180, 8659), (183, 8677), (210, 8761), (215, 8791), (222, 8821), (230, 8869), (239, 8917), (244, 8932), (245, 8938),

Gene: TChen_4 Start: 3803, Stop: 4498, Start Num: 78
Candidate Starts for TChen_4:
(Start: 24 @3644 has 10 MA's), (Start: 26 @3650 has 23 MA's), (Start: 78 @3803 has 4 MA's), (83, 3821), (96, 3869), (102, 3893), (112, 3926), (119, 3950), (124, 3971), (127, 3983), (133, 4019), (141, 4046), (151, 4085), (153, 4088), (166, 4151), (175, 4190), (181, 4226), (184, 4244), (187, 4256), (216, 4355), (226, 4397),

Gene: ThetaBob_4 Start: 3803, Stop: 4378, Start Num: 78
Candidate Starts for ThetaBob_4:
(Start: 24 @3644 has 10 MA's), (Start: 26 @3650 has 23 MA's), (Start: 78 @3803 has 4 MA's), (83, 3821), (96, 3869), (102, 3893), (112, 3926), (119, 3950), (124, 3971), (127, 3983), (133, 4019), (141, 4046), (151, 4085), (153, 4088), (159, 4115), (216, 4235), (226, 4277),

Gene: ThursdayNight_4 Start: 3861, Stop: 4655, Start Num: 22
Candidate Starts for ThursdayNight_4:
(Start: 22 @3861 has 60 MA's), (87, 4068), (103, 4113), (107, 4128), (126, 4191), (148, 4287), (169, 4371),

Gene: Toron_4 Start: 3803, Stop: 4498, Start Num: 78
Candidate Starts for Toron_4:
(Start: 24 @3644 has 10 MA's), (Start: 26 @3650 has 23 MA's), (74, 3788), (Start: 78 @3803 has 4 MA's), (83, 3821), (96, 3869), (102, 3893), (112, 3926), (119, 3950), (124, 3971), (127, 3983), (133, 4019), (141, 4046), (151, 4085), (153, 4088), (165, 4148), (166, 4151), (175, 4190), (184, 4244), (187, 4256), (216, 4355), (226, 4397),

Gene: Trax_14 Start: 7752, Stop: 8771, Start Num: 4
Candidate Starts for Trax_14:
(Start: 4 @7752 has 4 MA's), (12, 7821), (31, 7875), (50, 7926), (77, 8019), (118, 8166), (123, 8187), (126, 8199), (131, 8223), (134, 8235), (143, 8271), (150, 8295), (169, 8373), (170, 8376), (191, 8481), (200, 8511), (209, 8532), (220, 8583), (222, 8595), (248, 8718),

Gene: Tweety19_5 Start: 4503, Stop: 5270, Start Num: 22
Candidate Starts for Tweety19_5:
(Start: 22 @4503 has 60 MA's), (42, 4548), (74, 4659), (82, 4689), (87, 4710), (107, 4770), (116, 4803), (123, 4821), (129, 4845), (132, 4869), (148, 4929), (157, 4962), (169, 5013), (170, 5016), (219, 5175),

Gene: VroomVroom_4 Start: 3676, Stop: 4473, Start Num: 22
Candidate Starts for VroomVroom_4:
(Start: 22 @3676 has 60 MA's), (74, 3832), (79, 3850), (87, 3883), (131, 4036), (148, 4102), (169, 4186), (203, 4318),

Gene: Whitney_5 Start: 3722, Stop: 4243, Start Num: 68
Candidate Starts for Whitney_5:
(Start: 26 @3599 has 23 MA's), (39, 3629), (41, 3632), (58, 3686), (Start: 68 @3722 has 1 MA's), (69, 3725), (83, 3767), (93, 3809), (107, 3842), (142, 3944), (143, 3947), (144, 3950), (173, 4070), (197, 4154), (199, 4160),

Gene: Wizzo_4 Start: 3218, Stop: 3973, Start Num: 22
Candidate Starts for Wizzo_4:
(Start: 22 @3218 has 60 MA's), (33, 3242), (59, 3320), (62, 3338), (67, 3356), (69, 3362), (73, 3368), (75, 3374), (84, 3407), (87, 3422), (92, 3440), (96, 3449), (99, 3461), (100, 3467), (109, 3497), (115, 3518), (131, 3569), (143, 3596), (162, 3659), (169, 3692), (170, 3695), (202, 3818), (227, 3914), (230, 3938), (233, 3947), (236, 3965),

Gene: Yoshi_5 Start: 3585, Stop: 4229, Start Num: 28
Candidate Starts for Yoshi_5:
(Start: 28 @3585 has 7 MA's), (Start: 44 @3618 has 1 MA's), (58, 3660), (62, 3675), (65, 3687), (Start: 68 @3696 has 1 MA's), (74, 3708), (75, 3711), (81, 3735), (93, 3783), (116, 3852), (121, 3864), (131, 3885), (136, 3906), (161, 3996), (169, 4035), (173, 4056), (197, 4137), (199, 4143), (215, 4197),

Gene: Zapner_6 Start: 4110, Stop: 4754, Start Num: 28
Candidate Starts for Zapner_6:
(Start: 28 @4110 has 7 MA's), (Start: 44 @4143 has 1 MA's), (58, 4185), (62, 4200), (65, 4212), (Start: 68 @4221 has 1 MA's), (74, 4233), (75, 4236), (81, 4260), (93, 4308), (116, 4377), (121, 4389), (131, 4410), (136, 4431), (161, 4521), (169, 4560), (173, 4581), (197, 4662), (199, 4668), (215, 4722),

Gene: Zeta1847_4 Start: 3665, Stop: 4408, Start Num: 20
Candidate Starts for Zeta1847_4:
(Start: 20 @3665 has 2 MA's), (37, 3704), (76, 3833), (88, 3884), (136, 4061), (142, 4085), (169, 4187), (176, 4226),

Gene: Zucker_5 Start: 3788, Stop: 4504, Start Num: 38
Candidate Starts for Zucker_5:
(Start: 24 @3755 has 10 MA's), (Start: 38 @3788 has 1 MA's), (48, 3815), (50, 3827), (59, 3854), (62, 3872), (69, 3896), (85, 3944), (88, 3962), (89, 3968), (114, 4049), (116, 4058), (134, 4097), (142, 4130), (162, 4196), (193, 4328), (206, 4367), (213, 4388), (221, 4427), (231, 4484),

Gene: phiSASD1_24 Start: 3643, Stop: 4287, Start Num: 46
Candidate Starts for phiSASD1_24:
(46, 3643), (72, 3736), (77, 3751), (86, 3784), (101, 3841), (125, 3928), (143, 4000), (152, 4027), (154, 4030), (163, 4081), (167, 4099), (171, 4111), (172, 4120), (186, 4174), (198, 4216), (201, 4228),