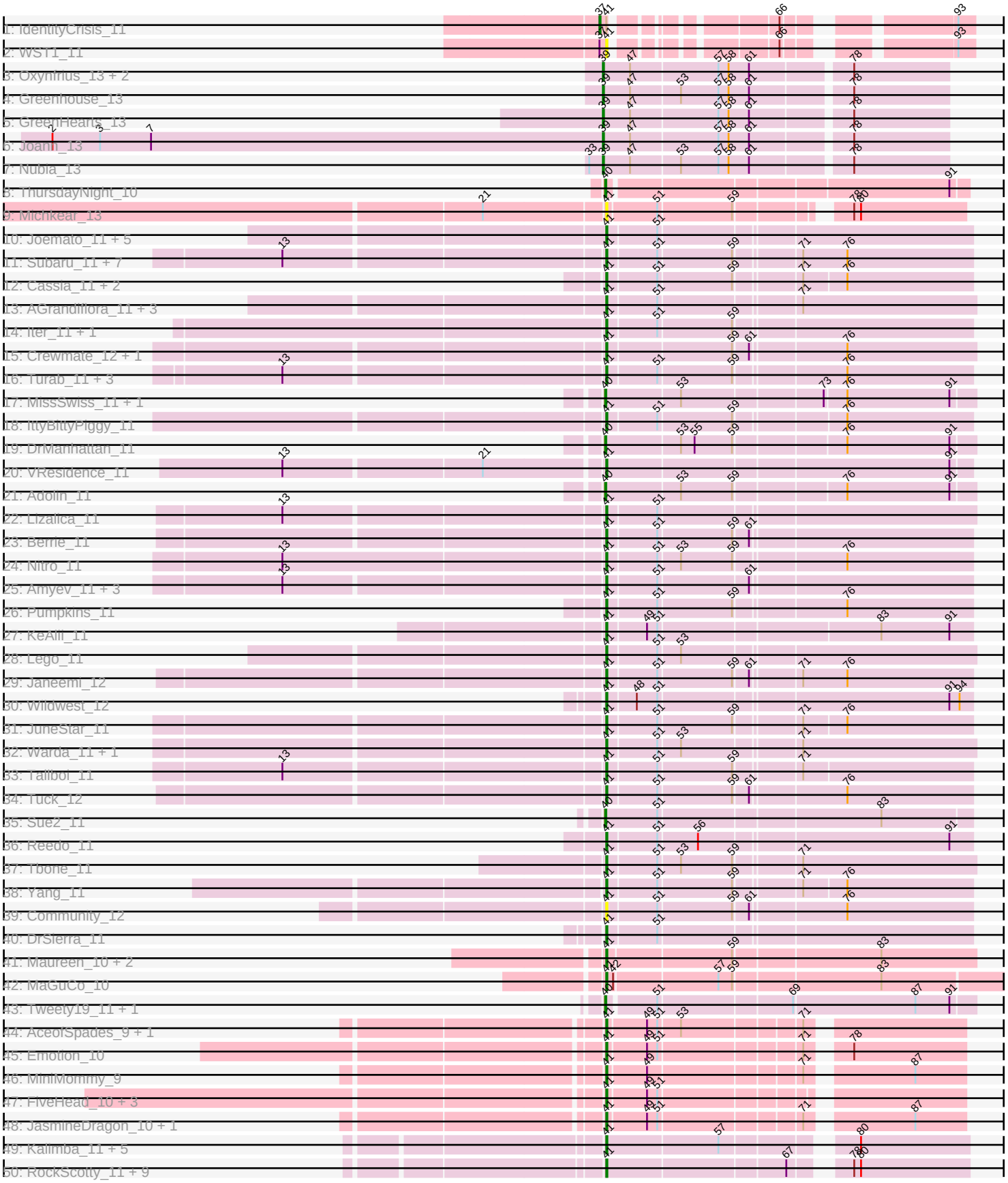
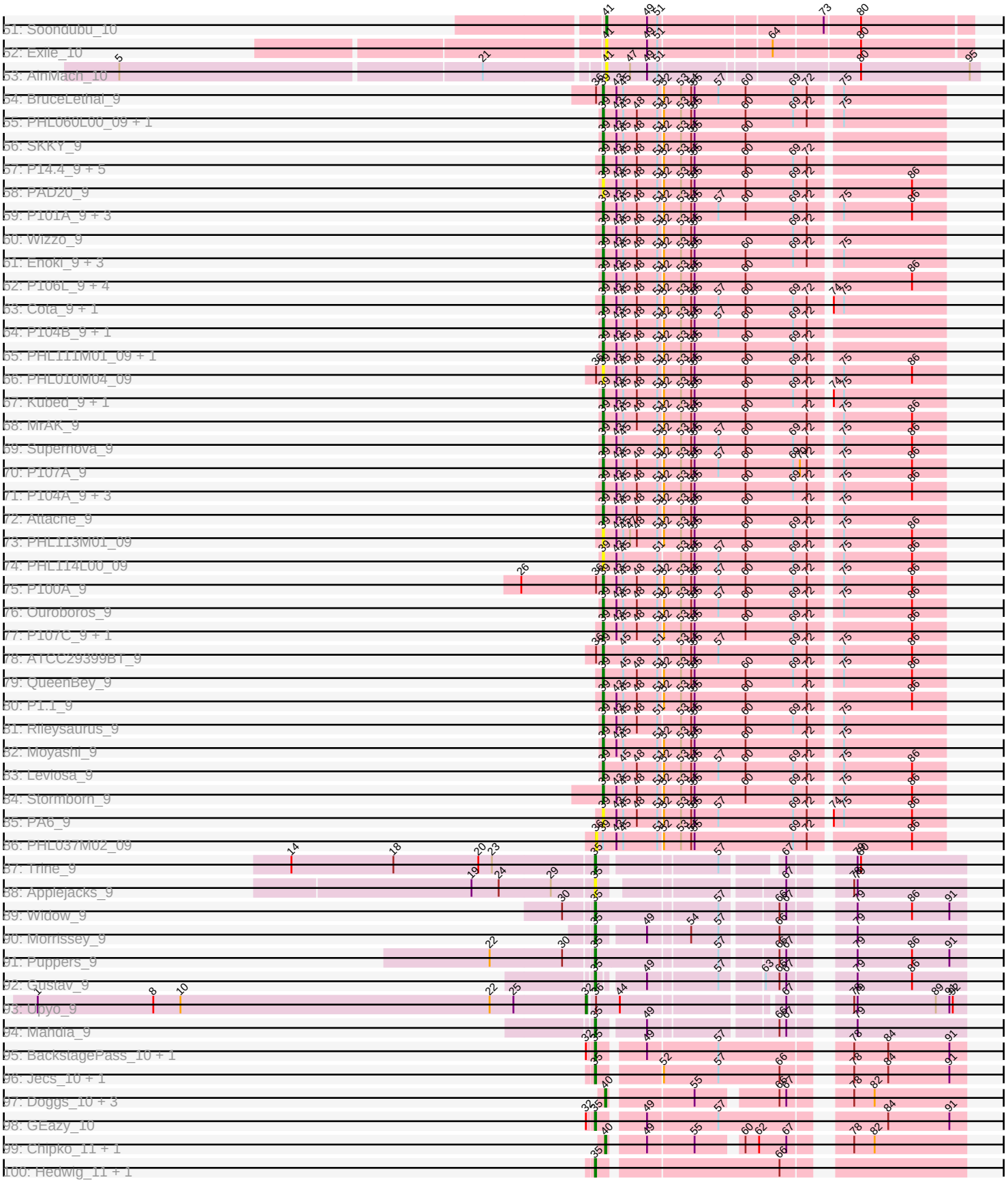
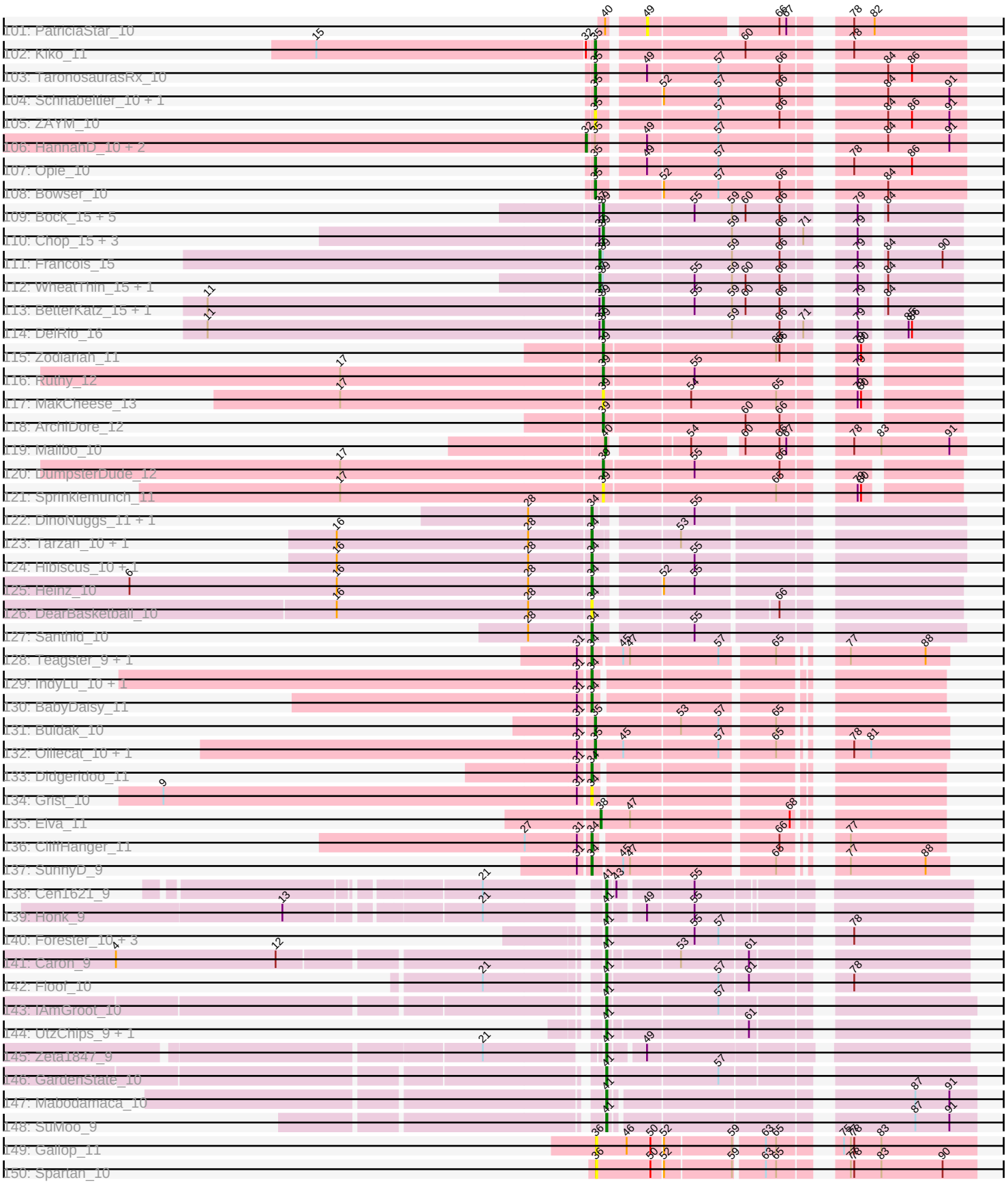
Pham 347212


1: IdentityCrisis_11
2: WST1_11
3: Oxyninus_13 + 2
4: Greenhouse_13
5: GreenHearts_13
6: Joann_13
7: Nubia_13
8: ThursdayNight_10
9: Michkear_13
10: Joemato_11 + 5
11: Subaru_11 + 7
12: Cassia_11 + 2
13: AGrandiflora_11 + 3
14: Iter_11 + 1
15: Crewmate_12 + 1
16: Turab_11 + 3
17: MissSwiss_11 + 1
18: ItsyBitsyPiggy_11
19: DrManhattan_11
20: VResidence_11
21: Adolin_11
22: Lizalica_11
23: Bernie_11
24: Nitro_11
25: Amyev_11 + 3
26: Pumpkins_11
27: KeAm_11
28: Lego_11
29: Janeemi_12
30: Wildwest_12
31: JuneStar_11
32: Warda_11 + 1
33: Tallboi_11
34: Tuck_12
35: Sue2_11
36: Reedo_11
37: Tbone_11
38: Yang_11
39: Community_12
40: DrSierra_11
41: Maureen_10 + 2
42: MaGuCo_10
43: Tweety19_11 + 1
44: AceofSpades_9 + 1
45: Emotion_10
46: MiniMommy_9
47: FiveHead_10 + 3
48: JasmineDragon_10 + 1
49: Kalimba_11 + 5
50: RockScotty_11 + 9

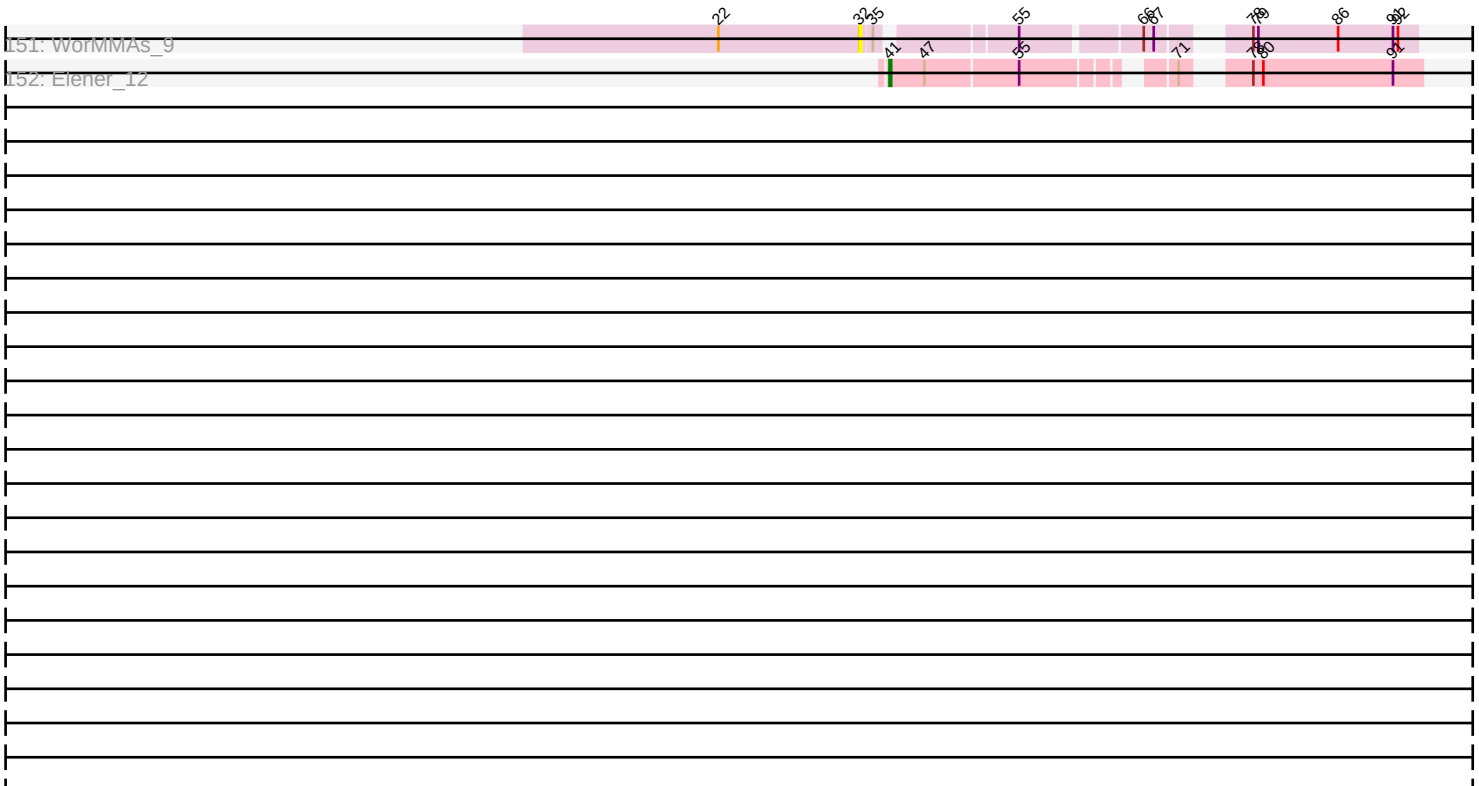
Pham 347212


51: Soondubu_10
52: Exile_10
53: AimMach_10
54: BruceLethal_9
55: PHL060L00_09 + 1
56: SKKY_9
57: P14.4_9 + 5
58: PAD20_9
59: P101A_9 + 3
60: Wizzo_9
61: Enoki_9 + 3
62: P106L_9 + 4
63: Cota_9 + 1
64: P104B_9 + 1
65: PHL111M01_09 + 1
66: PHL010M04_09
67: Kubed_9 + 1
68: MrAK_9
69: Supernova_9
70: P107A_9
71: P104A_9 + 3
72: Attache_9
73: PHL113M01_09
74: PHL114L00_09
75: P100A_9
76: Ouroboros_9
77: P107C_9 + 1
78: ATCC29399BT_9
79: QueenBey_9
80: P1.1_9
81: Rileysaurus_9
82: Moyashi_9
83: Leviosa_9
84: Stormborn_9
85: PA6_9
86: PHL037M02_09
87: Trine_9
88: Applejacks_9
89: Widow_9
90: Morrissey_9
91: Puppers_9
92: Gustav_9
93: Obyo_9
94: Mandia_9
95: BackstagePass_10 + 1
96: Jecs_10 + 1
97: Doggs_10 + 3
98: GEazy_10
99: Chipko_11 + 1
100: Hedwig_11 + 1

Pham 347212


101: PatriciaStar_10
102: Kiko_11
103: TaronosaurasRx_10
104: Schnabeltier_10 + 1
105: ZAYM_10
106: HannahD_10 + 2
107: Opie_10
108: Bowser_10
109: Bock_15 + 5
110: Chop_15 + 3
111: Francois_15
112: WheatThin_15 + 1
113: BetterKatz_15 + 1
114: DelRio_16
115: Zodiarian_11
116: Ruthy_12
117: MakCheese_13
118: ArchiDore_12
119: Malibo_10
120: DumpsterDude_12
121: Sprinklemunch_11
122: DinoNuggs_11 + 1
123: Tarzan_10 + 1
124: Hibiscus_10 + 1
125: Heinz_10
126: DearBasketball_10
127: Santhid_10
128: Teagster_9 + 1
129: IndyLu_10 + 1
130: BabyDaisy_11
131: Buldak_10
132: Ollecat_10 + 1
133: Didgeridoo_11
134: Grist_10
135: Elva_11
136: CliffHanger_11
137: SunnyD_9
138: Cen1621_9
139: Honk_9
140: Forester_10 + 3
141: Caron_9
142: Flool_10
143: IAmGroot_10
144: UtzChips_9 + 1
145: Zeta1847_9
146: GardenState_10
147: Maboodamaca_10
148: SuMoo_9
149: Gallop_11
150: Spartan_10

Pham 347212


151: WorMMAs_9
152: Elener_12
22
32
35
55
66
67
79
86
92
41
47
55
71
79
80
92

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 347212 Report

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

Pham number 347212 has 257 members, 43 are drafts.

Phages represented in each track:
- Track 1 : IdentityCrisis_11
- Track 2 : WST1_11
- Track 3 : Oxynfrius_13, Lakshmi_13, Albanese_13
- Track 4 : Greenhouse_13
- Track 5 : GreenHearts_13
- Track 6 : Joann_13
- Track 7 : Nubia_13
- Track 8 : ThursdayNight_10
- Track 9 : Michkear_13
- Track 10 : Joemato_11, JohnDoe_11, Cyan_11, Simpson_12, Kaylissa_11, Flutur_11
- Track 11 : Subaru_11, Elezi_11, Jstan_11, Eraser_11, Niobe_11, Skelbel_11, Asa16_11, London_11
- Track 12 : Cassia_11, TforTroy_11, Schaffner_11
- Track 13 : AGrandiflora_11, YesChef_11, Tutumahutu_11, Powerpuff_11
- Track 14 : Iter_11, Ascela_11
- Track 15 : Crewmate_12, ObiToo_11
- Track 16 : Turab_11, Adumb2043_11, Amploria_11, AEgle_11
- Track 17 : MissSwiss_11, PandaPo_11
- Track 18 : IttyBittyPiggy_11
- Track 19 : DrManhattan_11
- Track 20 : VResidence_11
- Track 21 : Adolin_11
- Track 22 : Lizalica_11
- Track 23 : Berrie_11
- Track 24 : Nitro_11
- Track 25 : Amyev_11, Pixelle_11, Tian_11, Phives_12
- Track 26 : Pumpkins_11
- Track 27 : KeAlii_11
- Track 28 : Lego_11
- Track 29 : Janeemi_12
- Track 30 : Wildwest_12
- Track 31 : JuneStar_11
- Track 32 : Warda_11, Mudpuppy_11
- Track 33 : Tallboi_11
- Track 34 : Tuck_12
- Track 35 : Sue2_11

• Track 36 : Reedo_11
• Track 37 : Tbone_11
• Track 38 : Yang_11
• Track 39 : Community_12
• Track 40 : DrSierra_11
• Track 41 : Maureen_10, Liebe_10, IUFootball_10
• Track 42 : MaGuCo_10
• Track 43 : Tweety19_11, Snek_11
• Track 44 : AceofSpades_9, VroomVroom_10
• Track 45 : Emotion_10
• Track 46 : MiniMommy_9
• Track 47 : FiveHead_10, Origami_10, JohnThicc_10, LadyAstra_10
• Track 48 : JasmineDragon_10, ShakeItOph_10
• Track 49 : Kalimba_11, Cappuccino_11, Donkey_11, Sabourin_11, Gambol_11, Sooty_11
• Track 50 : RockScotty_11, Mysterium_11, SpecialK_11, Halsey_11, Beaupre_11, Ashes_11, Stuu_11, Gumpizza_11, Giorgio_11, Moss_11
• Track 51 : Soondubu_10
• Track 52 : Exile_10
• Track 53 : AinMach_10
• Track 54 : BruceLethal_9
• Track 55 : PHL060L00_09, Lauchelly_9
• Track 56 : SKKY_9
• Track 57 : P14.4_9, PHL071N05_09, P108C_9, Enochoraptor_9, Pirate_9, Aquarius_9
• Track 58 : PAD20_9
• Track 59 : P101A_9, P105_9, P100.1_9, DrParker_9
• Track 60 : Wizzo_9
• Track 61 : Enoki_9, PAS50_9, P100D_9, PHL067M10_09
• Track 62 : P106L_9, P106I_9, P106A_9, P106C_9, P106M_9
• Track 63 : Cota_9, Keiki_9
• Track 64 : P104B_9, LilBandit_9
• Track 65 : PHL111M01_09, P9.1_9
• Track 66 : PHL010M04_09
• Track 67 : Kubed_9, PHL112N00_09
• Track 68 : MrAK_9
• Track 69 : Supernova_9
• Track 70 : P107A_9
• Track 71 : P104A_9, Procrass1_9, Solid_9, MEAK_9
• Track 72 : Attacne_9
• Track 73 : PHL113M01_09
• Track 74 : PHL114L00_09
• Track 75 : P100A_9
• Track 76 : Ouroboros_9
• Track 77 : P107C_9, ATCC29399BC_9
• Track 78 : ATCC29399BT_9
• Track 79 : QueenBey_9
• Track 80 : P1.1_9
• Track 81 : Rileysaurus_9
• Track 82 : Moyashi_9
• Track 83 : Leviosa_9
• Track 84 : Stormborn_9
• Track 85 : PA6_9

- Track 86 : PHL037M02_09
- Track 87 : Trine_9
- Track 88 : Applejacks_9
- Track 89 : Widow_9
- Track 90 : Morrissey_9
- Track 91 : Puppers_9
- Track 92 : Gustav_9
- Track 93 : Upyo_9
- Track 94 : Mahdia_9
- Track 95 : BackstagePass_10, BBQValindra_10
- Track 96 : Jecs_10, Eyes_10
- Track 97 : Doggs_10, RayTheFireFly_11, Coriander_11, Moonflower_11
- Track 98 : GEazy_10
- Track 99 : Chipko_11, Dmitri_11
- Track 100 : Hedwig_11, DirtyBoi_11
- Track 101 : PatriciaStar_10
- Track 102 : Kiko_11
- Track 103 : TaronosaurasRx_10
- Track 104 : Schnabeltier_10, MagicMan_10
- Track 105 : ZAYM_10
- Track 106 : HannahD_10, NaLuna_10, Bunker_10
- Track 107 : Opie_10
- Track 108 : Bowser_10
- Track 109 : Bock_15, Mulch_15, Brylie_15, Parada_15, Nadeem_15, NancyRae_15
- Track 110 : Chop_15, Ayotoya_15, GrandSlam_15, Hamood_15
- Track 111 : Francois_15
- Track 112 : WheatThin_15, SussRoloMann_15
- Track 113 : BetterKatz_15, Pimento_16
- Track 114 : DelRio_16
- Track 115 : Zodiariah_11
- Track 116 : Ruthy_12
- Track 117 : MakCheese_13
- Track 118 : ArchiDore_12
- Track 119 : Malibo_10
- Track 120 : DumpsterDude_12
- Track 121 : Sprinklemunch_11
- Track 122 : DinoNuggs_11, Reyja_11
- Track 123 : Tarzan_10, DonkeyMan_10
- Track 124 : Hibiscus_10, Jojo24_10
- Track 125 : Heinz_10
- Track 126 : DearBasketball_10
- Track 127 : Santhid_10
- Track 128 : Teagster_9, Shayna_9
- Track 129 : IndyLu_10, Kate33_10
- Track 130 : BabyDaisy_11
- Track 131 : Buldak_10
- Track 132 : Olliecat_10, Squircle_10
- Track 133 : Didgeridoo_11
- Track 134 : Grist_10
- Track 135 : Elva_11
- Track 136 : CliffHanger_11
- Track 137 : SunnyD_9
- Track 138 : Cen1621_9

• Track 139 : Honk_9
• Track 140 : Forester_10, Percival_10, SuperHands_10, Gretchen_10
• Track 141 : Caron_9
• Track 142 : Floof_10
• Track 143 : IAmGroot_10
• Track 144 : UtzChips_9, Barnstormer_9
• Track 145 : Zeta1847_9
• Track 146 : GardenState_10
• Track 147 : Mabodamaca_10
• Track 148 : SuMoo_9
• Track 149 : Gallop_11
• Track 150 : Spartan_10
• Track 151 : WorMMAs_9
• Track 152 : Elener_12

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

The start number called the most often in the published annotations is 41, it was called in 90 of the 214 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• AEgle_11, AGrandiflora_11, AceofSpades_9, Adumb2043_11, AinMach_10, Amploria_11, Amyev_11, Asa16_11, Ascela_11, Ashes_11, Barnstormer_9, Beaupre_11, Berrie_11, Cappuccino_11, Caron_9, Cassia_11, Cen1621_9, Community_12, Crewmate_12, Cyan_11, Donkey_11, DrSierra_11, Elener_12, Elezi_11, Emotion_10, Eraser_11, Exile_10, FiveHead_10, Floof_10, Flutur_11, Forester_10, Gambol_11, GardenState_10, Giorgio_11, Gretchen_10, Gumpizza_11, Halsey_11, Honk_9, IAmGroot_10, IUFootball_10, Iter_11, IttyBittyPiggy_11, Janeemi_12, JasmineDragon_10, Joemato_11, JohnDoe_11, JohnThicc_10, Jstan_11, JuneStar_11, Kalimba_11, Kaylissa_11, KeAlii_11, LadyAstra_10, Lego_11, Liebe_10, Lizalica_11, London_11, MaGuCo_10, Mabodamaca_10, Maureen_10, Michkear_13, MiniMommy_9, Moss_11, Mudpuppy_11, Mysterium_11, Niobe_11, Nitro_11, ObiToo_11, Origami_10, Percival_10, Phives_12, Pixelle_11, Powerpuff_11, Pumpkins_11, Reedo_11, RockScotty_11, Sabourin_11, Schaffner_11, ShakeItOph_10, Simpson_12, Skelbel_11, Soondubu_10, Sooty_11, SpecialK_11, Stuu_11, SuMoo_9, Subaru_11, SuperHands_10, Tallboi_11, Tbone_11, TforTroy_11, Tian_11, Tuck_12, Turab_11, Tutumahutu_11, UtzChips_9, VResidence_11, VroomVroom_10, WST1_11, Warda_11, Wildwest_12, Yang_11, YesChef_11, Zeta1847_9,

Genes that have the "Most Annotated" start but do not call it:
• IdentityCrisis_11,

Genes that do not have the "Most Annotated" start:
• ATCC29399BC_9, ATCC29399BT_9, Adolin_11, Albanese_13, Applejacks_9, Aquarius_9, ArchiDore_12, Attacne_9, Ayotoya_15, BBQValindra_10, BabyDaisy_11, BackstagePass_10, BetterKatz_15, Bock_15, Bowser_10, BruceLethal_9, Brylie_15, Buldak_10, Bunker_10, Chipko_11, Chop_15, CliffHanger_11, Coriander_11, Cota_9, DearBasketball_10, DelRio_16, Didgeridoo_11, DinoNuggs_11, DirtyBoi_11, Dmitri_11, Doggs_10, DonkeyMan_10, DrManhattan_11, DrParker_9,

DumpsterDude_12, Elva_11, Enochoraptor_9, Enoki_9, Eyes_10, Francois_15, GEazy_10, Gallop_11, GrandSlam_15, GreenHearts_13, Greenhouse_13, Grist_10, Gustav_9, Hamood_15, HannahD_10, Hedwig_11, Heinz_10, Hibiscus_10, IndyLu_10, Jecs_10, Joann_13, Jojo24_10, Kate33_10, Keiki_9, Kiko_11, Kubed_9, Lakshmi_13, Lauchelly_9, Leviosa_9, LilBandit_9, MEAK_9, MagicMan_10, Mahdia_9, MakCheese_13, Malibo_10, MissSwiss_11, Moonflower_11, Morrissey_9, Moyashi_9, MrAK_9, Mulch_15, NaLuna_10, Nadeem_15, NancyRae_15, Nubia_13, Olliecat_10, Opie_10, Ouroboros_9, Oxynfrius_13, P1.1_9, P100.1_9, P100A_9, P100D_9, P101A_9, P104A_9, P104B_9, P105_9, P106A_9, P106C_9, P106I_9, P106L_9, P106M_9, P107A_9, P107C_9, P108C_9, P14.4_9, P9.1_9, PA6_9, PAD20_9, PAS50_9, PHL010M04_09, PHL037M02_09, PHL060L00_09, PHL067M10_09, PHL071N05_09, PHL111M01_09, PHL112N00_09, PHL113M01_09, PHL114L00_09, PandaPo_11, Parada_15, PatriciaStar_10, Pimento_16, Pirate_9, Procrass1_9, Puppers_9, QueenBey_9, RayTheFireFly_11, Reyja_11, Rileysaurus_9, Ruthy_12, SKKY_9, Santhid_10, Schnabeltier_10, Shayna_9, Snek_11, Solid_9, Spartan_10, Sprinklemunch_11, Squircle_10, Stormborn_9, Sue2_11, SunnyD_9, Supernova_9, SussRoloMann_15, TaronosaurasRx_10, Tarzan_10, Teagster_9, ThursdayNight_10, Trine_9, Tweety19_11, Upyo_9, WheatThin_15, Widow_9, Wizzo_9, WorMMAs_9, ZAYM_10, Zodiariah_11,

Summary by start number:

Start 32:
• Found in 9 of 257 (3.5%) of genes in pham
• Manual Annotations of this start: 3 of 214
• Called 55.6% of time when present
• Phage (with cluster) where this start called: Bunker_10 (DB), HannahD_10 (DB), NaLuna_10 (DB), Upyo_9 (CD), WorMMAs_9 (UNK),

Start 34:
• Found in 18 of 257 (7.0%) of genes in pham
• Manual Annotations of this start: 15 of 214
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BabyDaisy_11 (EB), CliffHanger_11 (EB), DearBasketball_10 (DY), Didgeridoo_11 (EB), DinoNuggs_11 (DY), DonkeyMan_10 (DY), Grist_10 (EB), Heinz_10 (DY), Hibiscus_10 (DY), IndyLu_10 (EB), Jojo24_10 (DY), Kate33_10 (EB), Reyja_11 (DY), Santhid_10 (DY), Shayna_9 (EB), SunnyD_9 (EB), Tarzan_10 (DY), Teagster_9 (EB),

Start 35:
• Found in 28 of 257 (10.9%) of genes in pham
• Manual Annotations of this start: 21 of 214
• Called 85.7% of time when present
• Phage (with cluster) where this start called: Applejacks_9 (CD), BBQValindra_10 (DB), BackstagePass_10 (DB), Bowser_10 (DB), Buldak_10 (EB), DirtyBoi_11 (DB), Eyes_10 (DB), GEazy_10 (DB), Gustav_9 (CD), Hedwig_11 (DB), Jecs_10 (DB), Kiko_11 (DB), MagicMan_10 (DB), Mahdia_9 (CD), Morrissey_9 (CD), Olliecat_10 (EB), Opie_10 (DB), Puppers_9 (CD), Schnabeltier_10 (DB), Squircle_10 (EB), TaronosaurasRx_10 (DB), Trine_9 (CD), Widow_9 (CD), ZAYM_10 (DB),

Start 36:
• Found in 8 of 257 (3.1%) of genes in pham

• No Manual Annotations of this start.
• Called 37.5% of time when present
• Phage (with cluster) where this start called: Gallop_11 (ES), PHL037M02_09 (BU), Spartan_10 (ES),

Start 37:
• Found in 18 of 257 (7.0%) of genes in pham
• Manual Annotations of this start: 3 of 214
• Called 22.2% of time when present
• Phage (with cluster) where this start called: Francois_15 (DI), IdentityCrisis_11 (AJ), SussRoloMann_15 (DI), WheatThin_15 (DI),

Start 38:
• Found in 1 of 257 (0.4%) of genes in pham
• Manual Annotations of this start: 1 of 214
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Elva_11 (EB),

Start 39:
• Found in 86 of 257 (33.5%) of genes in pham
• Manual Annotations of this start: 69 of 214
• Called 95.3% of time when present
• Phage (with cluster) where this start called: ATCC29399BC_9 (BU), ATCC29399BT_9 (BU), Albanese_13 (AK), Aquarius_9 (BU), ArchiDore_12 (DW), Attacne_9 (BU), Ayotoya_15 (DI), BetterKatz_15 (DI), Bock_15 (DI), BruceLethal_9 (BU), Brylie_15 (DI), Chop_15 (DI), Cota_9 (BU), DelRio_16 (DI), DrParker_9 (BU), DumpsterDude_12 (DW), Enochoraptor_9 (BU), Enoki_9 (BU), GrandSlam_15 (DI), GreenHearts_13 (AK), Greenhouse_13 (AK), Hamood_15 (DI), Joann_13 (AK), Keiki_9 (BU), Kubed_9 (BU), Lakshmi_13 (AK), Lauchelly_9 (BU), Leviosa_9 (BU), LilBandit_9 (BU), MEAK_9 (BU), MakCheese_13 (DW), Moyashi_9 (BU), MrAK_9 (BU), Mulch_15 (DI), Nadeem_15 (DI), NancyRae_15 (DI), Nubia_13 (AK), Ouroboros_9 (BU), Oxynfrius_13 (AK), P1.1_9 (BU), P100.1_9 (BU), P100A_9 (BU), P100D_9 (BU), P101A_9 (BU), P104A_9 (BU), P104B_9 (BU), P105_9 (BU), P106A_9 (BU), P106C_9 (BU), P106I_9 (BU), P106L_9 (BU), P106M_9 (BU), P107A_9 (BU), P107C_9 (BU), P108C_9 (BU), P14.4_9 (BU), P9.1_9 (BU), PA6_9 (BU), PAD20_9 (BU), PAS50_9 (BU), PHL010M04_09 (BU), PHL060L00_09 (BU), PHL067M10_09 (BU), PHL071N05_09 (BU), PHL111M01_09 (BU), PHL112N00_09 (BU), PHL113M01_09 (BU), PHL114L00_09 (BU), Parada_15 (DI), Pimento_16 (DI), Pirate_9 (BU), Procrass1_9 (BU), QueenBey_9 (BU), Rileysaurus_9 (BU), Ruthy_12 (DW), SKKY_9 (BU), Solid_9 (BU), Sprinklemunch_11 (DW), Stormborn_9 (BU), Supernova_9 (BU), Wizzo_9 (BU), Zodiariah_11 (DW),

Start 40:
• Found in 16 of 257 (6.2%) of genes in pham
• Manual Annotations of this start: 12 of 214
• Called 93.8% of time when present
• Phage (with cluster) where this start called: Adolin_11 (AZ1), Chipko_11 (DB), Coriander_11 (DB), Dmitri_11 (DB), Doggs_10 (DB), DrManhattan_11 (AZ1), Malibo_10 (DW), MissSwiss_11 (AZ1), Moonflower_11 (DB), PandaPo_11 (AZ1), RayTheFireFly_11 (DB), Snek_11 (AZ3), Sue2_11 (AZ1), ThursdayNight_10 (AZ), Tweety19_11 (AZ3),

Start 41:

• Found in 105 of 257 (40.9%) of genes in pham
• Manual Annotations of this start: 90 of 214
• Called 99.0% of time when present
• Phage (with cluster) where this start called: AEgle_11 (AZ1), AGrandiflora_11 (AZ1), AceofSpades_9 (AZ4), Adumb2043_11 (AZ1), AinMach_10 (AZ7), Amploria_11 (AZ1), Amyev_11 (AZ1), Asa16_11 (AZ1), Ascela_11 (AZ1), Ashes_11 (AZ5), Barnstormer_9 (EH), Beaupre_11 (AZ5), Berrie_11 (AZ1), Cappuccino_11 (AZ5), Caron_9 (EH), Cassia_11 (AZ1), Cen1621_9 (EH), Community_12 (AZ1), Crewmate_12 (AZ1), Cyan_11 (AZ1), Donkey_11 (AZ5), DrSierra_11 (AZ1), Elener_12 (singleton), Elezi_11 (AZ1), Emotion_10 (AZ4), Eraser_11 (AZ1), Exile_10 (AZ6), FiveHead_10 (AZ4), Floof_10 (EH), Flutur_11 (AZ), Forester_10 (EH), Gambol_11 (AZ5), GardenState_10 (EH), Giorgio_11 (AZ5), Gretchen_10 (EH), Gumpizza_11 (AZ5), Halsey_11 (AZ5), Honk_9 (EH), IAmGroot_10 (EH), IUFootball_10 (AZ2), Iter_11 (AZ1), IttyBittyPiggy_11 (AZ1), Janeemi_12 (AZ1), JasmineDragon_10 (AZ4), Joemato_11 (AZ1), JohnDoe_11 (AZ1), JohnThicc_10 (AZ4), Jstan_11 (AZ1), JuneStar_11 (AZ1), Kalimba_11 (AZ5), Kaylissa_11 (AZ1), KeAlii_11 (AZ1), LadyAstra_10 (AZ4), Lego_11 (AZ1), Liebe_10 (AZ2), Lizalica_11 (AZ1), London_11 (AZ1), MaGuCo_10 (AZ2), Mabodamaca_10 (EH), Maureen_10 (AZ2), Michkear_13 (AZ), MiniMommy_9 (AZ4), Moss_11 (AZ5), Mudpuppy_11 (AZ1), Mysterium_11 (AZ5), Niobe_11 (AZ1), Nitro_11 (AZ1), ObiToo_11 (AZ1), Origami_10 (AZ4), Percival_10 (EH), Phives_12 (AZ1), Pixelle_11 (AZ1), Powerpuff_11 (AZ1), Pumpkins_11 (AZ1), Reedo_11 (AZ1), RockScotty_11 (AZ5), Sabourin_11 (AZ5), Schaffner_11 (AZ1), ShakeItOph_10 (AZ4), Simpson_12 (AZ1), Skelbel_11 (AZ1), Soondubu_10 (AZ6), Sooty_11 (AZ5), SpecialK_11 (AZ5), Stuu_11 (AZ5), SuMoo_9 (EH), Subaru_11 (AZ1), SuperHands_10 (EH), Tallboi_11 (AZ1), Tbone_11 (AZ1), TforTroy_11 (AZ1), Tian_11 (AZ1), Tuck_12 (AZ1), Turab_11 (AZ1), Tutumahutu_11 (AZ1), UtzChips_9 (EH), VResidence_11 (AZ1), VroomVroom_10 (AZ4), WST1_11 (AJ), Warda_11 (AZ1), Wildwest_12 (AZ1), Yang_11 (AZ1), YesChef_11 (AZ1), Zeta1847_9 (EH),

Start 49:
• Found in 30 of 257 (11.7%) of genes in pham
• No Manual Annotations of this start.
• Called 3.3% of time when present
• Phage (with cluster) where this start called: PatriciaStar_10 (DB),

Summary by clusters:

There are 21 clusters represented in this pham: ES, singleton, UNK, EH, DI, AK, AJ, DB, AZ, CD, DW, BU, AZ6, DY, AZ1, AZ2, AZ3, AZ4, AZ5, EB, AZ7,

Info for manual annotations of cluster AJ:
•Start number 37 was manually annotated 1 time for cluster AJ.

Info for manual annotations of cluster AK:
•Start number 39 was manually annotated 7 times for cluster AK.

Info for manual annotations of cluster AZ:
•Start number 40 was manually annotated 1 time for cluster AZ.

Info for manual annotations of cluster AZ1:
•Start number 40 was manually annotated 4 times for cluster AZ1.
•Start number 41 was manually annotated 45 times for cluster AZ1.

Info for manual annotations of cluster AZ2:
•Start number 41 was manually annotated 4 times for cluster AZ2.

Info for manual annotations of cluster AZ3:
•Start number 40 was manually annotated 2 times for cluster AZ3.

Info for manual annotations of cluster AZ4:
•Start number 41 was manually annotated 8 times for cluster AZ4.

Info for manual annotations of cluster AZ5:
•Start number 41 was manually annotated 16 times for cluster AZ5.

Info for manual annotations of cluster AZ6:
•Start number 41 was manually annotated 1 time for cluster AZ6.

Info for manual annotations of cluster BU:
•Start number 39 was manually annotated 45 times for cluster BU.

Info for manual annotations of cluster CD:
•Start number 32 was manually annotated 1 time for cluster CD.
•Start number 35 was manually annotated 6 times for cluster CD.

Info for manual annotations of cluster DB:
•Start number 32 was manually annotated 2 times for cluster DB.
•Start number 35 was manually annotated 12 times for cluster DB.
•Start number 40 was manually annotated 4 times for cluster DB.

Info for manual annotations of cluster DI:
•Start number 37 was manually annotated 2 times for cluster DI.
•Start number 39 was manually annotated 13 times for cluster DI.

Info for manual annotations of cluster DW:
•Start number 39 was manually annotated 4 times for cluster DW.
•Start number 40 was manually annotated 1 time for cluster DW.

Info for manual annotations of cluster DY:
•Start number 34 was manually annotated 7 times for cluster DY.

Info for manual annotations of cluster EB:
•Start number 34 was manually annotated 8 times for cluster EB.
•Start number 35 was manually annotated 3 times for cluster EB.
•Start number 38 was manually annotated 1 time for cluster EB.

Info for manual annotations of cluster EH:
•Start number 41 was manually annotated 15 times for cluster EH.

Gene Information:

Gene: AEgle_11 Start: 8744, Stop: 9049, Start Num: 41
Candidate Starts for AEgle_11:
(13, 8474), (Start: 41 @8744 has 90 MA's), (51, 8786), (59, 8849), (76, 8939),

Gene: AGrandiflora_11 Start: 8731, Stop: 9039, Start Num: 41
Candidate Starts for AGrandiflora_11:
(Start: 41 @8731 has 90 MA's), (51, 8773), (71, 8887),

Gene: ATCC29399BC_9 Start: 6452, Stop: 6742, Start Num: 39
Candidate Starts for ATCC29399BC_9:
(Start: 39 @6452 has 69 MA's), (43, 6464), (45, 6470), (48, 6482), (51, 6500), (52, 6503), (53, 6518), (54, 6527), (55, 6530), (60, 6575), (69, 6617), (72, 6629), (86, 6713),

Gene: ATCC29399BT_9 Start: 6448, Stop: 6738, Start Num: 39
Candidate Starts for ATCC29399BT_9:
(36, 6442), (Start: 39 @6448 has 69 MA's), (45, 6466), (51, 6496), (53, 6514), (54, 6523), (55, 6526), (57, 6547), (69, 6613), (72, 6625), (75, 6649), (86, 6709),

Gene: AceofSpades_9 Start: 7020, Stop: 7301, Start Num: 41
Candidate Starts for AceofSpades_9:
(Start: 41 @7020 has 90 MA's), (49, 7053), (51, 7062), (53, 7080), (71, 7176),

Gene: Adolin_11 Start: 8716, Stop: 9024, Start Num: 40
Candidate Starts for Adolin_11:
(Start: 40 @8716 has 12 MA's), (53, 8779), (59, 8824), (76, 8914), (91, 9004),

Gene: Adumb2043_11 Start: 8743, Stop: 9048, Start Num: 41
Candidate Starts for Adumb2043_11:
(13, 8473), (Start: 41 @8743 has 90 MA's), (51, 8785), (59, 8848), (76, 8938),

Gene: AinMach_10 Start: 7842, Stop: 8153, Start Num: 41
Candidate Starts for AinMach_10:
(5, 7434), (21, 7746), (Start: 41 @7842 has 90 MA's), (47, 7863), (49, 7878), (51, 7887), (80, 8049), (95, 8145),

Gene: Albanese_13 Start: 10184, Stop: 10474, Start Num: 39
Candidate Starts for Albanese_13:
(Start: 39 @10184 has 69 MA's), (47, 10208), (57, 10283), (58, 10292), (61, 10310), (78, 10391),

Gene: Amploria_11 Start: 8743, Stop: 9048, Start Num: 41
Candidate Starts for Amploria_11:
(13, 8473), (Start: 41 @8743 has 90 MA's), (51, 8785), (59, 8848), (76, 8938),

Gene: Amyev_11 Start: 8759, Stop: 9064, Start Num: 41
Candidate Starts for Amyev_11:
(13, 8489), (Start: 41 @8759 has 90 MA's), (51, 8801), (61, 8876),

Gene: Applejacks_9 Start: 6830, Stop: 7105, Start Num: 35
Candidate Starts for Applejacks_9:
(19, 6725), (24, 6749), (29, 6794), (Start: 35 @6830 has 21 MA's), (67, 6971), (78, 7007), (79, 7010),

Gene: Aquarius_9 Start: 6442, Stop: 6732, Start Num: 39
Candidate Starts for Aquarius_9:

(Start: 39 @6442 has 69 MA's), (43, 6454), (45, 6460), (48, 6472), (51, 6490), (52, 6493), (53, 6508), (54, 6517), (55, 6520), (60, 6565), (69, 6607), (72, 6619),

Gene: ArchiDore_12 Start: 8060, Stop: 8335, Start Num: 39
Candidate Starts for ArchiDore_12:
(Start: 39 @8060 has 69 MA's), (60, 8180), (66, 8210),

Gene: Asa16_11 Start: 8713, Stop: 9018, Start Num: 41
Candidate Starts for Asa16_11:
(13, 8443), (Start: 41 @8713 has 90 MA's), (51, 8755), (59, 8818), (71, 8869), (76, 8908),

Gene: Ascela_11 Start: 8748, Stop: 9053, Start Num: 41
Candidate Starts for Ascela_11:
(Start: 41 @8748 has 90 MA's), (51, 8790), (59, 8853),

Gene: Ashes_11 Start: 8267, Stop: 8554, Start Num: 41
Candidate Starts for Ashes_11:
(Start: 41 @8267 has 90 MA's), (67, 8417), (78, 8453), (80, 8459),

Gene: Attacne_9 Start: 6453, Stop: 6743, Start Num: 39
Candidate Starts for Attacne_9:
(Start: 39 @6453 has 69 MA's), (43, 6465), (45, 6471), (48, 6483), (51, 6501), (52, 6504), (53, 6519), (54, 6528), (55, 6531), (60, 6576), (72, 6630), (75, 6654),

Gene: Ayotoya_15 Start: 9620, Stop: 9898, Start Num: 39
Candidate Starts for Ayotoya_15:
(Start: 37 @9617 has 3 MA's), (Start: 39 @9620 has 69 MA's), (59, 9731), (66, 9773), (71, 9791), (79, 9818),

Gene: BBQValindra_10 Start: 7210, Stop: 7500, Start Num: 35
Candidate Starts for BBQValindra_10:
(Start: 32 @7204 has 3 MA's), (Start: 35 @7210 has 21 MA's), (49, 7246), (57, 7306), (78, 7402), (84, 7432), (91, 7486),

Gene: BabyDaisy_11 Start: 7870, Stop: 8133, Start Num: 34
Candidate Starts for BabyDaisy_11:
(31, 7861), (Start: 34 @7870 has 15 MA's),

Gene: BackstagePass_10 Start: 7187, Stop: 7477, Start Num: 35
Candidate Starts for BackstagePass_10:
(Start: 32 @7181 has 3 MA's), (Start: 35 @7187 has 21 MA's), (49, 7223), (57, 7283), (78, 7379), (84, 7409), (91, 7463),

Gene: Barnstormer_9 Start: 7938, Stop: 8219, Start Num: 41
Candidate Starts for Barnstormer_9:
(Start: 41 @7938 has 90 MA's), (61, 8052),

Gene: Beaupre_11 Start: 8268, Stop: 8555, Start Num: 41
Candidate Starts for Beaupre_11:
(Start: 41 @8268 has 90 MA's), (67, 8418), (78, 8454), (80, 8460),

Gene: Berrie_11 Start: 8715, Stop: 9020, Start Num: 41
Candidate Starts for Berrie_11:

(Start: 41 @8715 has 90 MA's), (51, 8757), (59, 8820), (61, 8832),

Gene: BetterKatz_15 Start: 9588, Stop: 9866, Start Num: 39
Candidate Starts for BetterKatz_15:
(11, 9243), (Start: 37 @9585 has 3 MA's), (Start: 39 @9588 has 69 MA's), (55, 9666), (59, 9699), (60, 9711), (66, 9741), (79, 9786), (84, 9801),

Gene: Bock_15 Start: 9338, Stop: 9616, Start Num: 39
Candidate Starts for Bock_15:
(Start: 37 @9335 has 3 MA's), (Start: 39 @9338 has 69 MA's), (55, 9416), (59, 9449), (60, 9461), (66, 9491), (79, 9536), (84, 9551),

Gene: Bowser_10 Start: 7208, Stop: 7498, Start Num: 35
Candidate Starts for Bowser_10:
(Start: 35 @7208 has 21 MA's), (52, 7256), (57, 7304), (66, 7358), (84, 7430),

Gene: BruceLethal_9 Start: 6441, Stop: 6731, Start Num: 39
Candidate Starts for BruceLethal_9:
(36, 6435), (Start: 39 @6441 has 69 MA's), (43, 6453), (45, 6459), (51, 6489), (52, 6492), (53, 6507), (54, 6516), (55, 6519), (57, 6540), (60, 6564), (69, 6606), (72, 6618), (75, 6642),

Gene: Brylie_15 Start: 9335, Stop: 9613, Start Num: 39
Candidate Starts for Brylie_15:
(Start: 37 @9332 has 3 MA's), (Start: 39 @9335 has 69 MA's), (55, 9413), (59, 9446), (60, 9458), (66, 9488), (79, 9533), (84, 9548),

Gene: Buldak_10 Start: 7930, Stop: 8196, Start Num: 35
Candidate Starts for Buldak_10:
(31, 7918), (Start: 35 @7930 has 21 MA's), (53, 8002), (57, 8035), (65, 8077),

Gene: Bunker_10 Start: 7204, Stop: 7500, Start Num: 32
Candidate Starts for Bunker_10:
(Start: 32 @7204 has 3 MA's), (Start: 35 @7210 has 21 MA's), (49, 7246), (57, 7306), (84, 7432), (91, 7486),

Gene: Cappuccino_11 Start: 8176, Stop: 8463, Start Num: 41
Candidate Starts for Cappuccino_11:
(Start: 41 @8176 has 90 MA's), (57, 8272), (80, 8368),

Gene: Caron_9 Start: 7966, Stop: 8247, Start Num: 41
Candidate Starts for Caron_9:
(4, 7567), (12, 7708), (Start: 41 @7966 has 90 MA's), (53, 8023), (61, 8080),

Gene: Cassia_11 Start: 8837, Stop: 9139, Start Num: 41
Candidate Starts for Cassia_11:
(Start: 41 @8837 has 90 MA's), (51, 8879), (59, 8942), (71, 8993), (76, 9029),

Gene: Cen1621_9 Start: 7077, Stop: 7358, Start Num: 41
Candidate Starts for Cen1621_9:
(21, 6987), (Start: 41 @7077 has 90 MA's), (43, 7083), (55, 7143),

Gene: Chipko_11 Start: 7608, Stop: 7877, Start Num: 40
Candidate Starts for Chipko_11:

(Start: 40 @7608 has 12 MA's), (49, 7635), (55, 7674), (60, 7707), (62, 7719), (67, 7743), (78, 7779), (82, 7797),

Gene: Chop_15 Start: 9368, Stop: 9646, Start Num: 39
Candidate Starts for Chop_15:
(Start: 37 @9365 has 3 MA's), (Start: 39 @9368 has 69 MA's), (59, 9479), (66, 9521), (71, 9539), (79, 9566),

Gene: CliffHanger_11 Start: 7626, Stop: 7886, Start Num: 34
Candidate Starts for CliffHanger_11:
(27, 7572), (31, 7617), (Start: 34 @7626 has 15 MA's), (66, 7773), (77, 7803),

Gene: Community_12 Start: 9794, Stop: 10099, Start Num: 41
Candidate Starts for Community_12:
(Start: 41 @9794 has 90 MA's), (51, 9836), (59, 9899), (61, 9911), (76, 9989),

Gene: Coriander_11 Start: 7607, Stop: 7876, Start Num: 40
Candidate Starts for Coriander_11:
(Start: 40 @7607 has 12 MA's), (55, 7673), (66, 7736), (67, 7742), (78, 7778), (82, 7796),

Gene: Cota_9 Start: 6460, Stop: 6750, Start Num: 39
Candidate Starts for Cota_9:
(Start: 39 @6460 has 69 MA's), (43, 6472), (45, 6478), (48, 6490), (51, 6508), (52, 6511), (53, 6526), (54, 6535), (55, 6538), (57, 6559), (60, 6583), (69, 6625), (72, 6637), (74, 6652), (75, 6661),

Gene: Crewmate_12 Start: 9180, Stop: 9488, Start Num: 41
Candidate Starts for Crewmate_12:
(Start: 41 @9180 has 90 MA's), (59, 9285), (61, 9297), (76, 9375),

Gene: Cyan_11 Start: 8735, Stop: 9040, Start Num: 41
Candidate Starts for Cyan_11:
(Start: 41 @8735 has 90 MA's), (51, 8777),

Gene: DearBasketball_10 Start: 7152, Stop: 7433, Start Num: 34
Candidate Starts for DearBasketball_10:
(16, 6933), (28, 7101), (Start: 34 @7152 has 15 MA's), (66, 7296),

Gene: DelRio_16 Start: 9845, Stop: 10123, Start Num: 39
Candidate Starts for DelRio_16:
(11, 9500), (Start: 37 @9842 has 3 MA's), (Start: 39 @9845 has 69 MA's), (59, 9956), (66, 9998), (71, 10016), (79, 10043), (85, 10076), (86, 10079),

Gene: Didgeridoo_11 Start: 7870, Stop: 8133, Start Num: 34
Candidate Starts for Didgeridoo_11:
(31, 7861), (Start: 34 @7870 has 15 MA's),

Gene: DinoNuggs_11 Start: 7295, Stop: 7579, Start Num: 34
Candidate Starts for DinoNuggs_11:
(28, 7244), (Start: 34 @7295 has 15 MA's), (55, 7370),

Gene: DirtyBoi_11 Start: 7580, Stop: 7870, Start Num: 35
Candidate Starts for DirtyBoi_11:
(Start: 35 @7580 has 21 MA's), (66, 7730),

Gene: Dmitri_11 Start: 7589, Stop: 7858, Start Num: 40
Candidate Starts for Dmitri_11:
(Start: 40 @7589 has 12 MA's), (49, 7616), (55, 7655), (60, 7688), (62, 7700), (67, 7724), (78, 7760), (82, 7778),

Gene: Doggs_10 Start: 7304, Stop: 7573, Start Num: 40
Candidate Starts for Doggs_10:
(Start: 40 @7304 has 12 MA's), (55, 7370), (66, 7433), (67, 7439), (78, 7475), (82, 7493),

Gene: Donkey_11 Start: 8176, Stop: 8463, Start Num: 41
Candidate Starts for Donkey_11:
(Start: 41 @8176 has 90 MA's), (57, 8272), (80, 8368),

Gene: DonkeyMan_10 Start: 7146, Stop: 7430, Start Num: 34
Candidate Starts for DonkeyMan_10:
(16, 6927), (28, 7095), (Start: 34 @7146 has 15 MA's), (53, 7209),

Gene: DrManhattan_11 Start: 8706, Stop: 9014, Start Num: 40
Candidate Starts for DrManhattan_11:
(Start: 40 @8706 has 12 MA's), (53, 8769), (55, 8781), (59, 8814), (76, 8904), (91, 8994),

Gene: DrParker_9 Start: 6467, Stop: 6757, Start Num: 39
Candidate Starts for DrParker_9:
(Start: 39 @6467 has 69 MA's), (43, 6479), (45, 6485), (48, 6497), (51, 6515), (52, 6518), (53, 6533), (54, 6542), (55, 6545), (57, 6566), (60, 6590), (69, 6632), (72, 6644), (75, 6668), (86, 6728),

Gene: DrSierra_11 Start: 8737, Stop: 9042, Start Num: 41
Candidate Starts for DrSierra_11:
(Start: 41 @8737 has 90 MA's), (51, 8779),

Gene: DumpsterDude_12 Start: 8073, Stop: 8348, Start Num: 39
Candidate Starts for DumpsterDude_12:
(17, 7845), (Start: 39 @8073 has 69 MA's), (55, 8148), (66, 8223),

Gene: Elener_12 Start: 9320, Stop: 9589, Start Num: 41
Candidate Starts for Elener_12:
(Start: 41 @9320 has 90 MA's), (47, 9341), (55, 9395), (71, 9464), (78, 9488), (80, 9494), (91, 9572),

Gene: Elezi_11 Start: 8714, Stop: 9019, Start Num: 41
Candidate Starts for Elezi_11:
(13, 8444), (Start: 41 @8714 has 90 MA's), (51, 8756), (59, 8819), (71, 8870), (76, 8909),

Gene: Elva_11 Start: 7965, Stop: 8225, Start Num: 38
Candidate Starts for Elva_11:
(Start: 38 @7965 has 1 MA's), (47, 7989), (68, 8118),

Gene: Emotion_10 Start: 7073, Stop: 7354, Start Num: 41
Candidate Starts for Emotion_10:
(Start: 41 @7073 has 90 MA's), (49, 7106), (51, 7115), (71, 7229), (78, 7256),

Gene: Enochoraptor_9 Start: 6463, Stop: 6753, Start Num: 39
Candidate Starts for Enochoraptor_9:

(Start: 39 @6463 has 69 MA's), (43, 6475), (45, 6481), (48, 6493), (51, 6511), (52, 6514), (53, 6529), (54, 6538), (55, 6541), (60, 6586), (69, 6628), (72, 6640),

Gene: Enoki_9 Start: 6448, Stop: 6738, Start Num: 39
Candidate Starts for Enoki_9:
(Start: 39 @6448 has 69 MA's), (43, 6460), (45, 6466), (48, 6478), (51, 6496), (52, 6499), (53, 6514), (54, 6523), (55, 6526), (60, 6571), (69, 6613), (72, 6625), (75, 6649),

Gene: Eraser_11 Start: 8714, Stop: 9019, Start Num: 41
Candidate Starts for Eraser_11:
(13, 8444), (Start: 41 @8714 has 90 MA's), (51, 8756), (59, 8819), (71, 8870), (76, 8909),

Gene: Exile_10 Start: 8625, Stop: 8930, Start Num: 41
Candidate Starts for Exile_10:
(Start: 41 @8625 has 90 MA's), (49, 8661), (51, 8670), (64, 8763), (80, 8835),

Gene: Eyes_10 Start: 7217, Stop: 7507, Start Num: 35
Candidate Starts for Eyes_10:
(Start: 35 @7217 has 21 MA's), (52, 7265), (57, 7313), (66, 7367), (78, 7409), (84, 7439), (91, 7493),

Gene: FiveHead_10 Start: 7008, Stop: 7286, Start Num: 41
Candidate Starts for FiveHead_10:
(Start: 41 @7008 has 90 MA's), (49, 7041), (51, 7050),

Gene: Floof_10 Start: 7504, Stop: 7794, Start Num: 41
Candidate Starts for Floof_10:
(21, 7414), (Start: 41 @7504 has 90 MA's), (57, 7600), (61, 7624), (78, 7693),

Gene: Flutur_11 Start: 8734, Stop: 9042, Start Num: 41
Candidate Starts for Flutur_11:
(Start: 41 @8734 has 90 MA's), (51, 8776),

Gene: Forester_10 Start: 9056, Stop: 9346, Start Num: 41
Candidate Starts for Forester_10:
(Start: 41 @9056 has 90 MA's), (55, 9131), (57, 9152), (78, 9245),

Gene: Francois_15 Start: 9346, Stop: 9627, Start Num: 37
Candidate Starts for Francois_15:
(Start: 37 @9346 has 3 MA's), (Start: 39 @9349 has 69 MA's), (59, 9460), (66, 9502), (79, 9547), (84, 9562), (90, 9610),

Gene: GEazy_10 Start: 7219, Stop: 7509, Start Num: 35
Candidate Starts for GEazy_10:
(Start: 32 @7213 has 3 MA's), (Start: 35 @7219 has 21 MA's), (49, 7255), (57, 7315), (84, 7441), (91, 7495),

Gene: Gallop_11 Start: 6976, Stop: 7275, Start Num: 36
Candidate Starts for Gallop_11:
(36, 6976), (46, 7003), (50, 7024), (52, 7033), (59, 7090), (63, 7114), (65, 7123), (75, 7159), (77, 7165), (78, 7168), (83, 7192),

Gene: Gambol_11 Start: 8176, Stop: 8463, Start Num: 41
Candidate Starts for Gambol_11:

(Start: 41 @8176 has 90 MA's), (57, 8272), (80, 8368),

Gene: GardenState_10 Start: 8171, Stop: 8461, Start Num: 41
Candidate Starts for GardenState_10:
(Start: 41 @8171 has 90 MA's), (57, 8264),

Gene: Giorgio_11 Start: 8269, Stop: 8556, Start Num: 41
Candidate Starts for Giorgio_11:
(Start: 41 @8269 has 90 MA's), (67, 8419), (78, 8455), (80, 8461),

Gene: GrandSlam_15 Start: 9368, Stop: 9646, Start Num: 39
Candidate Starts for GrandSlam_15:
(Start: 37 @9365 has 3 MA's), (Start: 39 @9368 has 69 MA's), (59, 9479), (66, 9521), (71, 9539), (79, 9566),

Gene: GreenHearts_13 Start: 10230, Stop: 10520, Start Num: 39
Candidate Starts for GreenHearts_13:
(Start: 39 @10230 has 69 MA's), (47, 10254), (57, 10329), (58, 10338), (61, 10356), (78, 10437),

Gene: Greenhouse_13 Start: 10155, Stop: 10445, Start Num: 39
Candidate Starts for Greenhouse_13:
(Start: 39 @10155 has 69 MA's), (47, 10179), (53, 10221), (57, 10254), (58, 10263), (61, 10281), (78, 10362),

Gene: Gretchen_10 Start: 9050, Stop: 9340, Start Num: 41
Candidate Starts for Gretchen_10:
(Start: 41 @9050 has 90 MA's), (55, 9125), (57, 9146), (78, 9239),

Gene: Grist_10 Start: 7694, Stop: 7957, Start Num: 34
Candidate Starts for Grist_10:
(9, 7322), (31, 7685), (Start: 34 @7694 has 15 MA's),

Gene: Gumpizza_11 Start: 8268, Stop: 8555, Start Num: 41
Candidate Starts for Gumpizza_11:
(Start: 41 @8268 has 90 MA's), (67, 8418), (78, 8454), (80, 8460),

Gene: Gustav_9 Start: 6894, Stop: 7172, Start Num: 35
Candidate Starts for Gustav_9:
(Start: 35 @6894 has 21 MA's), (49, 6930), (57, 6987), (63, 7020), (66, 7032), (67, 7038), (79, 7077), (86, 7125),

Gene: Halsey_11 Start: 8267, Stop: 8554, Start Num: 41
Candidate Starts for Halsey_11:
(Start: 41 @8267 has 90 MA's), (67, 8417), (78, 8453), (80, 8459),

Gene: Hamood_15 Start: 9368, Stop: 9646, Start Num: 39
Candidate Starts for Hamood_15:
(Start: 37 @9365 has 3 MA's), (Start: 39 @9368 has 69 MA's), (59, 9479), (66, 9521), (71, 9539), (79, 9566),

Gene: HannahD_10 Start: 7213, Stop: 7509, Start Num: 32
Candidate Starts for HannahD_10:

(Start: 32 @7213 has 3 MA's), (Start: 35 @7219 has 21 MA's), (49, 7255), (57, 7315), (84, 7441), (91, 7495),

Gene: Hedwig_11 Start: 7580, Stop: 7870, Start Num: 35
Candidate Starts for Hedwig_11:
(Start: 35 @7580 has 21 MA's), (66, 7730),

Gene: Heinz_10 Start: 7185, Stop: 7466, Start Num: 34
Candidate Starts for Heinz_10:
(6, 6783), (16, 6966), (28, 7134), (Start: 34 @7185 has 15 MA's), (52, 7233), (55, 7260),

Gene: Hibiscus_10 Start: 7156, Stop: 7443, Start Num: 34
Candidate Starts for Hibiscus_10:
(16, 6937), (28, 7105), (Start: 34 @7156 has 15 MA's), (55, 7234),

Gene: Honk_9 Start: 7045, Stop: 7326, Start Num: 41
Candidate Starts for Honk_9:
(13, 6799), (21, 6955), (Start: 41 @7045 has 90 MA's), (49, 7072), (55, 7111),

Gene: IAmGroot_10 Start: 8815, Stop: 9105, Start Num: 41
Candidate Starts for IAmGroot_10:
(Start: 41 @8815 has 90 MA's), (57, 8908),

Gene: IUFootball_10 Start: 7184, Stop: 7495, Start Num: 41
Candidate Starts for IUFootball_10:
(Start: 41 @7184 has 90 MA's), (59, 7289), (83, 7412),

Gene: IdentityCrisis_11 Start: 8164, Stop: 8412, Start Num: 37
Candidate Starts for IdentityCrisis_11:
(Start: 37 @8164 has 3 MA's), (Start: 41 @8170 has 90 MA's), (66, 8281), (93, 8398),

Gene: IndyLu_10 Start: 7694, Stop: 7957, Start Num: 34
Candidate Starts for IndyLu_10:
(31, 7685), (Start: 34 @7694 has 15 MA's),

Gene: Iter_11 Start: 8748, Stop: 9053, Start Num: 41
Candidate Starts for Iter_11:
(Start: 41 @8748 has 90 MA's), (51, 8790), (59, 8853),

Gene: IttyBittyPiggy_11 Start: 8739, Stop: 9041, Start Num: 41
Candidate Starts for IttyBittyPiggy_11:
(Start: 41 @8739 has 90 MA's), (51, 8781), (59, 8844), (76, 8931),

Gene: Janeemi_12 Start: 9825, Stop: 10130, Start Num: 41
Candidate Starts for Janeemi_12:
(Start: 41 @9825 has 90 MA's), (51, 9867), (59, 9930), (61, 9942), (71, 9981), (76, 10020),

Gene: JasmineDragon_10 Start: 7008, Stop: 7289, Start Num: 41
Candidate Starts for JasmineDragon_10:
(Start: 41 @7008 has 90 MA's), (49, 7041), (51, 7050), (71, 7164), (87, 7245),

Gene: Jecs_10 Start: 7541, Stop: 7831, Start Num: 35
Candidate Starts for Jecs_10:

(Start: 35 @7541 has 21 MA's), (52, 7589), (57, 7637), (66, 7691), (78, 7733), (84, 7763), (91, 7817),

Gene: Joann_13 Start: 10133, Stop: 10423, Start Num: 39
Candidate Starts for Joann_13:
(2, 9647), (3, 9689), (7, 9734), (Start: 39 @10133 has 69 MA's), (47, 10157), (57, 10232), (58, 10241), (61, 10259), (78, 10340),

Gene: Joemato_11 Start: 8735, Stop: 9040, Start Num: 41
Candidate Starts for Joemato_11:
(Start: 41 @8735 has 90 MA's), (51, 8777),

Gene: JohnDoe_11 Start: 8733, Stop: 9038, Start Num: 41
Candidate Starts for JohnDoe_11:
(Start: 41 @8733 has 90 MA's), (51, 8775),

Gene: JohnThicc_10 Start: 7008, Stop: 7286, Start Num: 41
Candidate Starts for JohnThicc_10:
(Start: 41 @7008 has 90 MA's), (49, 7041), (51, 7050),

Gene: Jojo24_10 Start: 7151, Stop: 7438, Start Num: 34
Candidate Starts for Jojo24_10:
(16, 6932), (28, 7100), (Start: 34 @7151 has 15 MA's), (55, 7229),

Gene: Jstan_11 Start: 8714, Stop: 9019, Start Num: 41
Candidate Starts for Jstan_11:
(13, 8444), (Start: 41 @8714 has 90 MA's), (51, 8756), (59, 8819), (71, 8870), (76, 8909),

Gene: JuneStar_11 Start: 8833, Stop: 9135, Start Num: 41
Candidate Starts for JuneStar_11:
(Start: 41 @8833 has 90 MA's), (51, 8875), (59, 8938), (71, 8989), (76, 9025),

Gene: Kalimba_11 Start: 8176, Stop: 8463, Start Num: 41
Candidate Starts for Kalimba_11:
(Start: 41 @8176 has 90 MA's), (57, 8272), (80, 8368),

Gene: Kate33_10 Start: 7693, Stop: 7956, Start Num: 34
Candidate Starts for Kate33_10:
(31, 7684), (Start: 34 @7693 has 15 MA's),

Gene: Kaylissa_11 Start: 8736, Stop: 9041, Start Num: 41
Candidate Starts for Kaylissa_11:
(Start: 41 @8736 has 90 MA's), (51, 8778),

Gene: KeAlii_11 Start: 8765, Stop: 9073, Start Num: 41
Candidate Starts for KeAlii_11:
(Start: 41 @8765 has 90 MA's), (49, 8798), (51, 8807), (83, 8993), (91, 9053),

Gene: Keiki_9 Start: 6460, Stop: 6750, Start Num: 39
Candidate Starts for Keiki_9:
(Start: 39 @6460 has 69 MA's), (43, 6472), (45, 6478), (48, 6490), (51, 6508), (52, 6511), (53, 6526), (54, 6535), (55, 6538), (57, 6559), (60, 6583), (69, 6625), (72, 6637), (74, 6652), (75, 6661),

Gene: Kiko_11 Start: 7416, Stop: 7706, Start Num: 35

Candidate Starts for Kiko_11:
(15, 7176), (Start: 32 @7410 has 3 MA's), (Start: 35 @7416 has 21 MA's), (60, 7536), (78, 7608),

Gene: Kubed_9 Start: 6450, Stop: 6740, Start Num: 39
Candidate Starts for Kubed_9:
(Start: 39 @6450 has 69 MA's), (43, 6462), (45, 6468), (48, 6480), (51, 6498), (52, 6501), (53, 6516), (54, 6525), (55, 6528), (60, 6573), (69, 6615), (72, 6627), (74, 6642), (75, 6651),

Gene: LadyAstra_10 Start: 7008, Stop: 7286, Start Num: 41
Candidate Starts for LadyAstra_10:
(Start: 41 @7008 has 90 MA's), (49, 7041), (51, 7050),

Gene: Lakshmi_13 Start: 10160, Stop: 10450, Start Num: 39
Candidate Starts for Lakshmi_13:
(Start: 39 @10160 has 69 MA's), (47, 10184), (57, 10259), (58, 10268), (61, 10286), (78, 10367),

Gene: Lauchelly_9 Start: 6445, Stop: 6735, Start Num: 39
Candidate Starts for Lauchelly_9:
(Start: 39 @6445 has 69 MA's), (43, 6457), (45, 6463), (48, 6475), (51, 6493), (52, 6496), (53, 6511), (54, 6520), (55, 6523), (60, 6568), (69, 6610), (72, 6622), (75, 6646),

Gene: Lego_11 Start: 8734, Stop: 9042, Start Num: 41
Candidate Starts for Lego_11:
(Start: 41 @8734 has 90 MA's), (51, 8776), (53, 8794),

Gene: Leviosa_9 Start: 6466, Stop: 6756, Start Num: 39
Candidate Starts for Leviosa_9:
(Start: 39 @6466 has 69 MA's), (45, 6484), (48, 6496), (51, 6514), (52, 6517), (53, 6532), (54, 6541), (55, 6544), (57, 6565), (60, 6589), (69, 6631), (72, 6643), (75, 6667), (86, 6727),

Gene: Liebe_10 Start: 7184, Stop: 7495, Start Num: 41
Candidate Starts for Liebe_10:
(Start: 41 @7184 has 90 MA's), (59, 7289), (83, 7412),

Gene: LilBandit_9 Start: 6450, Stop: 6740, Start Num: 39
Candidate Starts for LilBandit_9:
(Start: 39 @6450 has 69 MA's), (43, 6462), (45, 6468), (48, 6480), (51, 6498), (52, 6501), (53, 6516), (54, 6525), (55, 6528), (57, 6549), (60, 6573), (69, 6615), (72, 6627),

Gene: Lizalica_11 Start: 8720, Stop: 9028, Start Num: 41
Candidate Starts for Lizalica_11:
(13, 8450), (Start: 41 @8720 has 90 MA's), (51, 8762),

Gene: London_11 Start: 8714, Stop: 9019, Start Num: 41
Candidate Starts for London_11:
(13, 8444), (Start: 41 @8714 has 90 MA's), (51, 8756), (59, 8819), (71, 8870), (76, 8909),

Gene: MEAK_9 Start: 6452, Stop: 6742, Start Num: 39
Candidate Starts for MEAK_9:
(Start: 39 @6452 has 69 MA's), (43, 6464), (45, 6470), (48, 6482), (51, 6500), (52, 6503), (53, 6518), (54, 6527), (55, 6530), (60, 6575), (69, 6617), (72, 6629), (75, 6653), (86, 6713),

Gene: MaGuCo_10 Start: 7043, Stop: 7435, Start Num: 41

Candidate Starts for MaGuCo_10:
(Start: 41 @7043 has 90 MA's), (42, 7049), (57, 7136), (59, 7148), (83, 7271),

Gene: Mabodamaca_10 Start: 8271, Stop: 8558, Start Num: 41
Candidate Starts for Mabodamaca_10:
(Start: 41 @8271 has 90 MA's), (87, 8505), (91, 8535),

Gene: MagicMan_10 Start: 7547, Stop: 7837, Start Num: 35
Candidate Starts for MagicMan_10:
(Start: 35 @7547 has 21 MA's), (52, 7595), (57, 7643), (66, 7697), (84, 7769), (91, 7823),

Gene: Mahdia_9 Start: 6893, Stop: 7174, Start Num: 35
Candidate Starts for Mahdia_9:
(Start: 35 @6893 has 21 MA's), (49, 6932), (66, 7034), (67, 7040), (79, 7079),

Gene: MakCheese_13 Start: 7880, Stop: 8155, Start Num: 39
Candidate Starts for MakCheese_13:
(17, 7652), (Start: 39 @7880 has 69 MA's), (54, 7952), (65, 8027), (79, 8075), (80, 8078),

Gene: Malibo_10 Start: 7477, Stop: 7743, Start Num: 40
Candidate Starts for Malibo_10:
(Start: 40 @7477 has 12 MA's), (54, 7537), (60, 7573), (66, 7603), (67, 7609), (78, 7645), (83, 7669), (91, 7729),

Gene: Maureen_10 Start: 7184, Stop: 7495, Start Num: 41
Candidate Starts for Maureen_10:
(Start: 41 @7184 has 90 MA's), (59, 7289), (83, 7412),

Gene: Michkear_13 Start: 10646, Stop: 10927, Start Num: 41
Candidate Starts for Michkear_13:
(21, 10544), (Start: 41 @10646 has 90 MA's), (51, 10688), (59, 10751), (78, 10829), (80, 10835),

Gene: MiniMommy_9 Start: 7008, Stop: 7289, Start Num: 41
Candidate Starts for MiniMommy_9:
(Start: 41 @7008 has 90 MA's), (49, 7041), (71, 7164), (87, 7245),

Gene: MissSwiss_11 Start: 8710, Stop: 9018, Start Num: 40
Candidate Starts for MissSwiss_11:
(Start: 40 @8710 has 12 MA's), (53, 8773), (73, 8890), (76, 8908), (91, 8998),

Gene: Moonflower_11 Start: 7612, Stop: 7881, Start Num: 40
Candidate Starts for Moonflower_11:
(Start: 40 @7612 has 12 MA's), (55, 7678), (66, 7741), (67, 7747), (78, 7783), (82, 7801),

Gene: Morrissey_9 Start: 6870, Stop: 7154, Start Num: 35
Candidate Starts for Morrissey_9:
(Start: 35 @6870 has 21 MA's), (49, 6909), (54, 6942), (57, 6966), (66, 7014), (79, 7059),

Gene: Moss_11 Start: 8267, Stop: 8554, Start Num: 41
Candidate Starts for Moss_11:
(Start: 41 @8267 has 90 MA's), (67, 8417), (78, 8453), (80, 8459),

Gene: Moyashi_9 Start: 6470, Stop: 6760, Start Num: 39

Candidate Starts for Moyashi_9:
(Start: 39 @6470 has 69 MA's), (43, 6482), (45, 6488), (51, 6518), (52, 6521), (53, 6536), (54, 6545), (55, 6548), (60, 6593), (72, 6647), (75, 6671),

Gene: MrAK_9 Start: 6479, Stop: 6769, Start Num: 39
Candidate Starts for MrAK_9:
(Start: 39 @6479 has 69 MA's), (43, 6491), (45, 6497), (48, 6509), (51, 6527), (52, 6530), (53, 6545), (54, 6554), (55, 6557), (60, 6602), (72, 6656), (75, 6680), (86, 6740),

Gene: Mudpuppy_11 Start: 8734, Stop: 9042, Start Num: 41
Candidate Starts for Mudpuppy_11:
(Start: 41 @8734 has 90 MA's), (51, 8776), (53, 8794), (71, 8890),

Gene: Mulch_15 Start: 9335, Stop: 9613, Start Num: 39
Candidate Starts for Mulch_15:
(Start: 37 @9332 has 3 MA's), (Start: 39 @9335 has 69 MA's), (55, 9413), (59, 9446), (60, 9458), (66, 9488), (79, 9533), (84, 9548),

Gene: Mysterium_11 Start: 8268, Stop: 8555, Start Num: 41
Candidate Starts for Mysterium_11:
(Start: 41 @8268 has 90 MA's), (67, 8418), (78, 8454), (80, 8460),

Gene: NaLuna_10 Start: 7213, Stop: 7509, Start Num: 32
Candidate Starts for NaLuna_10:
(Start: 32 @7213 has 3 MA's), (Start: 35 @7219 has 21 MA's), (49, 7255), (57, 7315), (84, 7441), (91, 7495),

Gene: Nadeem_15 Start: 9335, Stop: 9613, Start Num: 39
Candidate Starts for Nadeem_15:
(Start: 37 @9332 has 3 MA's), (Start: 39 @9335 has 69 MA's), (55, 9413), (59, 9446), (60, 9458), (66, 9488), (79, 9533), (84, 9548),

Gene: NancyRae_15 Start: 9335, Stop: 9613, Start Num: 39
Candidate Starts for NancyRae_15:
(Start: 37 @9332 has 3 MA's), (Start: 39 @9335 has 69 MA's), (55, 9413), (59, 9446), (60, 9458), (66, 9488), (79, 9533), (84, 9548),

Gene: Niobe_11 Start: 8714, Stop: 9019, Start Num: 41
Candidate Starts for Niobe_11:
(13, 8444), (Start: 41 @8714 has 90 MA's), (51, 8756), (59, 8819), (71, 8870), (76, 8909),

Gene: Nitro_11 Start: 8737, Stop: 9042, Start Num: 41
Candidate Starts for Nitro_11:
(13, 8461), (Start: 41 @8737 has 90 MA's), (51, 8779), (53, 8797), (59, 8842), (76, 8932),

Gene: Nubia_13 Start: 10120, Stop: 10410, Start Num: 39
Candidate Starts for Nubia_13:
(33, 10108), (Start: 39 @10120 has 69 MA's), (47, 10144), (53, 10186), (57, 10219), (58, 10228), (61, 10246), (78, 10327),

Gene: ObiToo_11 Start: 8917, Stop: 9225, Start Num: 41
Candidate Starts for ObiToo_11:
(Start: 41 @8917 has 90 MA's), (59, 9022), (61, 9034), (76, 9112),

Gene: Olliecat_10 Start: 7885, Stop: 8151, Start Num: 35
Candidate Starts for Olliecat_10:
(31, 7873), (Start: 35 @7885 has 21 MA's), (45, 7909), (57, 7990), (65, 8032), (78, 8068), (81, 8083),

Gene: Opie_10 Start: 7562, Stop: 7852, Start Num: 35
Candidate Starts for Opie_10:
(Start: 35 @7562 has 21 MA's), (49, 7598), (57, 7658), (78, 7754), (86, 7805),

Gene: Origami_10 Start: 7008, Stop: 7286, Start Num: 41
Candidate Starts for Origami_10:
(Start: 41 @7008 has 90 MA's), (49, 7041), (51, 7050),

Gene: Ouroboros_9 Start: 6453, Stop: 6743, Start Num: 39
Candidate Starts for Ouroboros_9:
(Start: 39 @6453 has 69 MA's), (43, 6465), (45, 6471), (48, 6483), (51, 6501), (52, 6504), (53, 6519), (54, 6528), (55, 6531), (57, 6552), (60, 6576), (69, 6618), (72, 6630), (75, 6654), (86, 6714),

Gene: Oxynfrius_13 Start: 10133, Stop: 10423, Start Num: 39
Candidate Starts for Oxynfrius_13:
(Start: 39 @10133 has 69 MA's), (47, 10157), (57, 10232), (58, 10241), (61, 10259), (78, 10340),

Gene: P1.1_9 Start: 6453, Stop: 6743, Start Num: 39
Candidate Starts for P1.1_9:
(Start: 39 @6453 has 69 MA's), (43, 6465), (45, 6471), (48, 6483), (51, 6501), (52, 6504), (53, 6519), (54, 6528), (55, 6531), (60, 6576), (72, 6630), (86, 6714),

Gene: P100.1_9 Start: 6443, Stop: 6733, Start Num: 39
Candidate Starts for P100.1_9:
(Start: 39 @6443 has 69 MA's), (43, 6455), (45, 6461), (48, 6473), (51, 6491), (52, 6494), (53, 6509), (54, 6518), (55, 6521), (57, 6542), (60, 6566), (69, 6608), (72, 6620), (75, 6644), (86, 6704),

Gene: P100A_9 Start: 6464, Stop: 6754, Start Num: 39
Candidate Starts for P100A_9:
(26, 6392), (36, 6458), (Start: 39 @6464 has 69 MA's), (43, 6476), (45, 6482), (48, 6494), (51, 6512), (52, 6515), (53, 6530), (54, 6539), (55, 6542), (57, 6563), (60, 6587), (69, 6629), (72, 6641), (75, 6665), (86, 6725),

Gene: P100D_9 Start: 6447, Stop: 6737, Start Num: 39
Candidate Starts for P100D_9:
(Start: 39 @6447 has 69 MA's), (43, 6459), (45, 6465), (48, 6477), (51, 6495), (52, 6498), (53, 6513), (54, 6522), (55, 6525), (60, 6570), (69, 6612), (72, 6624), (75, 6648),

Gene: P101A_9 Start: 6446, Stop: 6736, Start Num: 39
Candidate Starts for P101A_9:
(Start: 39 @6446 has 69 MA's), (43, 6458), (45, 6464), (48, 6476), (51, 6494), (52, 6497), (53, 6512), (54, 6521), (55, 6524), (57, 6545), (60, 6569), (69, 6611), (72, 6623), (75, 6647), (86, 6707),

Gene: P104A_9 Start: 6448, Stop: 6738, Start Num: 39
Candidate Starts for P104A_9:
(Start: 39 @6448 has 69 MA's), (43, 6460), (45, 6466), (48, 6478), (51, 6496), (52, 6499), (53, 6514), (54, 6523), (55, 6526), (60, 6571), (69, 6613), (72, 6625), (75, 6649), (86, 6709),

Gene: P104B_9 Start: 6452, Stop: 6742, Start Num: 39
Candidate Starts for P104B_9:
(Start: 39 @6452 has 69 MA's), (43, 6464), (45, 6470), (48, 6482), (51, 6500), (52, 6503), (53, 6518), (54, 6527), (55, 6530), (57, 6551), (60, 6575), (69, 6617), (72, 6629),

Gene: P105_9 Start: 6442, Stop: 6732, Start Num: 39
Candidate Starts for P105_9:
(Start: 39 @6442 has 69 MA's), (43, 6454), (45, 6460), (48, 6472), (51, 6490), (52, 6493), (53, 6508), (54, 6517), (55, 6520), (57, 6541), (60, 6565), (69, 6607), (72, 6619), (75, 6643), (86, 6703),

Gene: P106A_9 Start: 6470, Stop: 6760, Start Num: 39
Candidate Starts for P106A_9:
(Start: 39 @6470 has 69 MA's), (43, 6482), (45, 6488), (48, 6500), (51, 6518), (52, 6521), (53, 6536), (54, 6545), (55, 6548), (60, 6593), (86, 6731),

Gene: P106C_9 Start: 6470, Stop: 6760, Start Num: 39
Candidate Starts for P106C_9:
(Start: 39 @6470 has 69 MA's), (43, 6482), (45, 6488), (48, 6500), (51, 6518), (52, 6521), (53, 6536), (54, 6545), (55, 6548), (60, 6593), (86, 6731),

Gene: P106I_9 Start: 6470, Stop: 6760, Start Num: 39
Candidate Starts for P106I_9:
(Start: 39 @6470 has 69 MA's), (43, 6482), (45, 6488), (48, 6500), (51, 6518), (52, 6521), (53, 6536), (54, 6545), (55, 6548), (60, 6593), (86, 6731),

Gene: P106L_9 Start: 6470, Stop: 6760, Start Num: 39
Candidate Starts for P106L_9:
(Start: 39 @6470 has 69 MA's), (43, 6482), (45, 6488), (48, 6500), (51, 6518), (52, 6521), (53, 6536), (54, 6545), (55, 6548), (60, 6593), (86, 6731),

Gene: P106M_9 Start: 6470, Stop: 6760, Start Num: 39
Candidate Starts for P106M_9:
(Start: 39 @6470 has 69 MA's), (43, 6482), (45, 6488), (48, 6500), (51, 6518), (52, 6521), (53, 6536), (54, 6545), (55, 6548), (60, 6593), (86, 6731),

Gene: P107A_9 Start: 6456, Stop: 6746, Start Num: 39
Candidate Starts for P107A_9:
(Start: 39 @6456 has 69 MA's), (43, 6468), (45, 6474), (48, 6486), (51, 6504), (52, 6507), (53, 6522), (54, 6531), (55, 6534), (57, 6555), (60, 6579), (69, 6621), (70, 6627), (72, 6633), (75, 6657), (86, 6717),

Gene: P107C_9 Start: 6452, Stop: 6742, Start Num: 39
Candidate Starts for P107C_9:
(Start: 39 @6452 has 69 MA's), (43, 6464), (45, 6470), (48, 6482), (51, 6500), (52, 6503), (53, 6518), (54, 6527), (55, 6530), (60, 6575), (69, 6617), (72, 6629), (86, 6713),

Gene: P108C_9 Start: 6456, Stop: 6746, Start Num: 39
Candidate Starts for P108C_9:
(Start: 39 @6456 has 69 MA's), (43, 6468), (45, 6474), (48, 6486), (51, 6504), (52, 6507), (53, 6522), (54, 6531), (55, 6534), (60, 6579), (69, 6621), (72, 6633),

Gene: P14.4_9 Start: 6447, Stop: 6737, Start Num: 39
Candidate Starts for P14.4_9:

(Start: 39 @6447 has 69 MA's), (43, 6459), (45, 6465), (48, 6477), (51, 6495), (52, 6498), (53, 6513), (54, 6522), (55, 6525), (60, 6570), (69, 6612), (72, 6624),

Gene: P9.1_9 Start: 6445, Stop: 6735, Start Num: 39
Candidate Starts for P9.1_9:
(Start: 39 @6445 has 69 MA's), (43, 6457), (45, 6463), (48, 6475), (51, 6493), (52, 6496), (53, 6511), (54, 6520), (55, 6523), (60, 6568), (69, 6610), (72, 6622),

Gene: PA6_9 Start: 6455, Stop: 6745, Start Num: 39
Candidate Starts for PA6_9:
(Start: 39 @6455 has 69 MA's), (43, 6467), (45, 6473), (48, 6485), (51, 6503), (52, 6506), (53, 6521), (54, 6530), (55, 6533), (57, 6554), (69, 6620), (72, 6632), (74, 6647), (75, 6656), (86, 6716),

Gene: PAD20_9 Start: 6453, Stop: 6743, Start Num: 39
Candidate Starts for PAD20_9:
(Start: 39 @6453 has 69 MA's), (43, 6465), (45, 6471), (48, 6483), (51, 6501), (52, 6504), (53, 6519), (54, 6528), (55, 6531), (60, 6576), (69, 6618), (72, 6630), (86, 6714),

Gene: PAS50_9 Start: 6450, Stop: 6740, Start Num: 39
Candidate Starts for PAS50_9:
(Start: 39 @6450 has 69 MA's), (43, 6462), (45, 6468), (48, 6480), (51, 6498), (52, 6501), (53, 6516), (54, 6525), (55, 6528), (60, 6573), (69, 6615), (72, 6627), (75, 6651),

Gene: PHL010M04_09 Start: 6444, Stop: 6734, Start Num: 39
Candidate Starts for PHL010M04_09:
(36, 6438), (Start: 39 @6444 has 69 MA's), (43, 6456), (45, 6462), (48, 6474), (51, 6492), (52, 6495), (53, 6510), (54, 6519), (55, 6522), (60, 6567), (69, 6609), (72, 6621), (75, 6645), (86, 6705),

Gene: PHL037M02_09 Start: 6444, Stop: 6740, Start Num: 36
Candidate Starts for PHL037M02_09:
(36, 6444), (Start: 39 @6450 has 69 MA's), (43, 6462), (45, 6468), (51, 6498), (52, 6501), (53, 6516), (54, 6525), (55, 6528), (69, 6615), (72, 6627), (86, 6711),

Gene: PHL060L00_09 Start: 6443, Stop: 6733, Start Num: 39
Candidate Starts for PHL060L00_09:
(Start: 39 @6443 has 69 MA's), (43, 6455), (45, 6461), (48, 6473), (51, 6491), (52, 6494), (53, 6509), (54, 6518), (55, 6521), (60, 6566), (69, 6608), (72, 6620), (75, 6644),

Gene: PHL067M10_09 Start: 6447, Stop: 6737, Start Num: 39
Candidate Starts for PHL067M10_09:
(Start: 39 @6447 has 69 MA's), (43, 6459), (45, 6465), (48, 6477), (51, 6495), (52, 6498), (53, 6513), (54, 6522), (55, 6525), (60, 6570), (69, 6612), (72, 6624), (75, 6648),

Gene: PHL071N05_09 Start: 6449, Stop: 6739, Start Num: 39
Candidate Starts for PHL071N05_09:
(Start: 39 @6449 has 69 MA's), (43, 6461), (45, 6467), (48, 6479), (51, 6497), (52, 6500), (53, 6515), (54, 6524), (55, 6527), (60, 6572), (69, 6614), (72, 6626),

Gene: PHL111M01_09 Start: 6453, Stop: 6743, Start Num: 39
Candidate Starts for PHL111M01_09:
(Start: 39 @6453 has 69 MA's), (43, 6465), (45, 6471), (48, 6483), (51, 6501), (52, 6504), (53, 6519), (54, 6528), (55, 6531), (60, 6576), (69, 6618), (72, 6630),

Gene: PHL112N00_09 Start: 6453, Stop: 6743, Start Num: 39
Candidate Starts for PHL112N00_09:
(Start: 39 @6453 has 69 MA's), (43, 6465), (45, 6471), (48, 6483), (51, 6501), (52, 6504), (53, 6519), (54, 6528), (55, 6531), (60, 6576), (69, 6618), (72, 6630), (74, 6645), (75, 6654),

Gene: PHL113M01_09 Start: 6453, Stop: 6743, Start Num: 39
Candidate Starts for PHL113M01_09:
(Start: 39 @6453 has 69 MA's), (43, 6465), (45, 6471), (47, 6477), (48, 6483), (51, 6501), (52, 6504), (53, 6519), (54, 6528), (55, 6531), (60, 6576), (69, 6618), (72, 6630), (75, 6654), (86, 6714),

Gene: PHL114L00_09 Start: 6452, Stop: 6742, Start Num: 39
Candidate Starts for PHL114L00_09:
(Start: 39 @6452 has 69 MA's), (43, 6464), (45, 6470), (51, 6500), (53, 6518), (54, 6527), (55, 6530), (57, 6551), (60, 6575), (69, 6617), (72, 6629), (75, 6653), (86, 6713),

Gene: PandaPo_11 Start: 8710, Stop: 9018, Start Num: 40
Candidate Starts for PandaPo_11:
(Start: 40 @8710 has 12 MA's), (53, 8773), (73, 8890), (76, 8908), (91, 8998),

Gene: Parada_15 Start: 9335, Stop: 9613, Start Num: 39
Candidate Starts for Parada_15:
(Start: 37 @9332 has 3 MA's), (Start: 39 @9335 has 69 MA's), (55, 9413), (59, 9446), (60, 9458), (66, 9488), (79, 9533), (84, 9548),

Gene: PatriciaStar_10 Start: 7252, Stop: 7494, Start Num: 49
Candidate Starts for PatriciaStar_10:
(Start: 40 @7225 has 12 MA's), (49, 7252), (66, 7354), (67, 7360), (78, 7396), (82, 7414),

Gene: Percival_10 Start: 8884, Stop: 9174, Start Num: 41
Candidate Starts for Percival_10:
(Start: 41 @8884 has 90 MA's), (55, 8959), (57, 8980), (78, 9073),

Gene: Phives_12 Start: 9819, Stop: 10124, Start Num: 41
Candidate Starts for Phives_12:
(13, 9549), (Start: 41 @9819 has 90 MA's), (51, 9861), (61, 9936),

Gene: Pimento_16 Start: 9539, Stop: 9817, Start Num: 39
Candidate Starts for Pimento_16:
(11, 9194), (Start: 37 @9536 has 3 MA's), (Start: 39 @9539 has 69 MA's), (55, 9617), (59, 9650), (60, 9662), (66, 9692), (79, 9737), (84, 9752),

Gene: Pirate_9 Start: 6445, Stop: 6735, Start Num: 39
Candidate Starts for Pirate_9:
(Start: 39 @6445 has 69 MA's), (43, 6457), (45, 6463), (48, 6475), (51, 6493), (52, 6496), (53, 6511), (54, 6520), (55, 6523), (60, 6568), (69, 6610), (72, 6622),

Gene: Pixelle_11 Start: 8762, Stop: 9067, Start Num: 41
Candidate Starts for Pixelle_11:
(13, 8492), (Start: 41 @8762 has 90 MA's), (51, 8804), (61, 8879),

Gene: Powerpuff_11 Start: 8785, Stop: 9093, Start Num: 41
Candidate Starts for Powerpuff_11:
(Start: 41 @8785 has 90 MA's), (51, 8827), (71, 8941),

Gene: Procrass1_9 Start: 6452, Stop: 6742, Start Num: 39
Candidate Starts for Procrass1_9:
(Start: 39 @6452 has 69 MA's), (43, 6464), (45, 6470), (48, 6482), (51, 6500), (52, 6503), (53, 6518), (54, 6527), (55, 6530), (60, 6575), (69, 6617), (72, 6629), (75, 6653), (86, 6713),

Gene: Pumpkins_11 Start: 8839, Stop: 9144, Start Num: 41
Candidate Starts for Pumpkins_11:
(Start: 41 @8839 has 90 MA's), (51, 8881), (59, 8944), (76, 9034),

Gene: Puppers_9 Start: 6807, Stop: 7094, Start Num: 35
Candidate Starts for Puppers_9:
(22, 6720), (30, 6783), (Start: 35 @6807 has 21 MA's), (57, 6909), (66, 6954), (67, 6960), (79, 6999), (86, 7047), (91, 7080),

Gene: QueenBey_9 Start: 6446, Stop: 6736, Start Num: 39
Candidate Starts for QueenBey_9:
(Start: 39 @6446 has 69 MA's), (45, 6464), (48, 6476), (51, 6494), (52, 6497), (53, 6512), (54, 6521), (55, 6524), (60, 6569), (69, 6611), (72, 6623), (75, 6647), (86, 6707),

Gene: RayTheFireFly_11 Start: 7613, Stop: 7882, Start Num: 40
Candidate Starts for RayTheFireFly_11:
(Start: 40 @7613 has 12 MA's), (55, 7679), (66, 7742), (67, 7748), (78, 7784), (82, 7802),

Gene: Reedo_11 Start: 8786, Stop: 9091, Start Num: 41
Candidate Starts for Reedo_11:
(Start: 41 @8786 has 90 MA's), (51, 8828), (56, 8861), (91, 9071),

Gene: Reyja_11 Start: 7295, Stop: 7579, Start Num: 34
Candidate Starts for Reyja_11:
(28, 7244), (Start: 34 @7295 has 15 MA's), (55, 7370),

Gene: Rileysaurus_9 Start: 6441, Stop: 6731, Start Num: 39
Candidate Starts for Rileysaurus_9:
(Start: 39 @6441 has 69 MA's), (43, 6453), (45, 6459), (48, 6471), (51, 6489), (53, 6507), (54, 6516), (55, 6519), (60, 6564), (69, 6606), (72, 6618), (75, 6642),

Gene: RockScotty_11 Start: 8267, Stop: 8554, Start Num: 41
Candidate Starts for RockScotty_11:
(Start: 41 @8267 has 90 MA's), (67, 8417), (78, 8453), (80, 8459),

Gene: Ruthy_12 Start: 8144, Stop: 8419, Start Num: 39
Candidate Starts for Ruthy_12:
(17, 7916), (Start: 39 @8144 has 69 MA's), (55, 8219), (79, 8339),

Gene: SKKY_9 Start: 6477, Stop: 6767, Start Num: 39
Candidate Starts for SKKY_9:
(Start: 39 @6477 has 69 MA's), (43, 6489), (45, 6495), (48, 6507), (51, 6525), (52, 6528), (53, 6543), (54, 6552), (55, 6555), (60, 6600),

Gene: Sabourin_11 Start: 8176, Stop: 8463, Start Num: 41
Candidate Starts for Sabourin_11:
(Start: 41 @8176 has 90 MA's), (57, 8272), (80, 8368),

Gene: Santhid_10 Start: 7160, Stop: 7447, Start Num: 34
Candidate Starts for Santhid_10:
(28, 7109), (Start: 34 @7160 has 15 MA's), (55, 7238),

Gene: Schaffner_11 Start: 8830, Stop: 9132, Start Num: 41
Candidate Starts for Schaffner_11:
(Start: 41 @8830 has 90 MA's), (51, 8872), (59, 8935), (71, 8986), (76, 9022),

Gene: Schnabeltier_10 Start: 7548, Stop: 7838, Start Num: 35
Candidate Starts for Schnabeltier_10:
(Start: 35 @7548 has 21 MA's), (52, 7596), (57, 7644), (66, 7698), (84, 7770), (91, 7824),

Gene: ShakeItOph_10 Start: 7008, Stop: 7289, Start Num: 41
Candidate Starts for ShakeItOph_10:
(Start: 41 @7008 has 90 MA's), (49, 7041), (51, 7050), (71, 7164), (87, 7245),

Gene: Shayna_9 Start: 7487, Stop: 7753, Start Num: 34
Candidate Starts for Shayna_9:
(31, 7478), (Start: 34 @7487 has 15 MA's), (45, 7511), (47, 7517), (57, 7592), (65, 7634), (77, 7667), (88, 7733),

Gene: Simpson_12 Start: 8735, Stop: 9040, Start Num: 41
Candidate Starts for Simpson_12:
(Start: 41 @8735 has 90 MA's), (51, 8777),

Gene: Skelbel_11 Start: 8714, Stop: 9019, Start Num: 41
Candidate Starts for Skelbel_11:
(13, 8444), (Start: 41 @8714 has 90 MA's), (51, 8756), (59, 8819), (71, 8870), (76, 8909),

Gene: Snek_11 Start: 7822, Stop: 8127, Start Num: 40
Candidate Starts for Snek_11:
(Start: 40 @7822 has 12 MA's), (51, 7861), (69, 7972), (87, 8077), (91, 8107),

Gene: Solid_9 Start: 6453, Stop: 6743, Start Num: 39
Candidate Starts for Solid_9:
(Start: 39 @6453 has 69 MA's), (43, 6465), (45, 6471), (48, 6483), (51, 6501), (52, 6504), (53, 6519), (54, 6528), (55, 6531), (60, 6576), (69, 6618), (72, 6630), (75, 6654), (86, 6714),

Gene: Soondubu_10 Start: 8626, Stop: 8931, Start Num: 41
Candidate Starts for Soondubu_10:
(Start: 41 @8626 has 90 MA's), (49, 8662), (51, 8671), (73, 8806), (80, 8836),

Gene: Sooty_11 Start: 8177, Stop: 8464, Start Num: 41
Candidate Starts for Sooty_11:
(Start: 41 @8177 has 90 MA's), (57, 8273), (80, 8369),

Gene: Spartan_10 Start: 6974, Stop: 7273, Start Num: 36
Candidate Starts for Spartan_10:
(36, 6974), (50, 7022), (52, 7031), (59, 7088), (63, 7112), (65, 7121), (77, 7163), (78, 7166), (83, 7190), (90, 7244),

Gene: SpecialK_11 Start: 8174, Stop: 8461, Start Num: 41

Candidate Starts for SpecialK_11:
(Start: 41 @8174 has 90 MA's), (67, 8324), (78, 8360), (80, 8366),

Gene: Sprinklemunch_11 Start: 7920, Stop: 8195, Start Num: 39
Candidate Starts for Sprinklemunch_11:
(17, 7692), (Start: 39 @7920 has 69 MA's), (65, 8067), (79, 8115), (80, 8118),

Gene: Squircle_10 Start: 7884, Stop: 8150, Start Num: 35
Candidate Starts for Squircle_10:
(31, 7872), (Start: 35 @7884 has 21 MA's), (45, 7908), (57, 7989), (65, 8031), (78, 8067), (81, 8082),

Gene: Stormborn_9 Start: 6448, Stop: 6738, Start Num: 39
Candidate Starts for Stormborn_9:
(Start: 39 @6448 has 69 MA's), (43, 6460), (45, 6466), (48, 6478), (51, 6496), (52, 6499), (53, 6514), (54, 6523), (55, 6526), (60, 6571), (69, 6613), (72, 6625), (75, 6649), (86, 6709),

Gene: Stuu_11 Start: 8267, Stop: 8554, Start Num: 41
Candidate Starts for Stuu_11:
(Start: 41 @8267 has 90 MA's), (67, 8417), (78, 8453), (80, 8459),

Gene: SuMoo_9 Start: 7231, Stop: 7518, Start Num: 41
Candidate Starts for SuMoo_9:
(Start: 41 @7231 has 90 MA's), (87, 7465), (91, 7495),

Gene: Subaru_11 Start: 8714, Stop: 9019, Start Num: 41
Candidate Starts for Subaru_11:
(13, 8444), (Start: 41 @8714 has 90 MA's), (51, 8756), (59, 8819), (71, 8870), (76, 8909),

Gene: Sue2_11 Start: 8727, Stop: 9035, Start Num: 40
Candidate Starts for Sue2_11:
(Start: 40 @8727 has 12 MA's), (51, 8772), (83, 8958),

Gene: SunnyD_9 Start: 7487, Stop: 7753, Start Num: 34
Candidate Starts for SunnyD_9:
(31, 7478), (Start: 34 @7487 has 15 MA's), (45, 7511), (47, 7517), (65, 7634), (77, 7667), (88, 7733),

Gene: SuperHands_10 Start: 9056, Stop: 9346, Start Num: 41
Candidate Starts for SuperHands_10:
(Start: 41 @9056 has 90 MA's), (55, 9131), (57, 9152), (78, 9245),

Gene: Supernova_9 Start: 6445, Stop: 6735, Start Num: 39
Candidate Starts for Supernova_9:
(Start: 39 @6445 has 69 MA's), (43, 6457), (45, 6463), (51, 6493), (52, 6496), (53, 6511), (54, 6520), (55, 6523), (57, 6544), (60, 6568), (69, 6610), (72, 6622), (75, 6646), (86, 6706),

Gene: SussRoloMann_15 Start: 9332, Stop: 9613, Start Num: 37
Candidate Starts for SussRoloMann_15:
(Start: 37 @9332 has 3 MA's), (Start: 39 @9335 has 69 MA's), (55, 9413), (59, 9446), (60, 9458), (66, 9488), (79, 9533), (84, 9548),

Gene: Tallboi_11 Start: 8748, Stop: 9050, Start Num: 41
Candidate Starts for Tallboi_11:
(13, 8478), (Start: 41 @8748 has 90 MA's), (51, 8790), (59, 8853), (71, 8904),

Gene: TaronosaurasRx_10 Start: 7561, Stop: 7851, Start Num: 35
Candidate Starts for TaronosaurasRx_10:
(Start: 35 @7561 has 21 MA's), (49, 7597), (57, 7657), (66, 7711), (84, 7783), (86, 7804),

Gene: Tarzan_10 Start: 7151, Stop: 7435, Start Num: 34
Candidate Starts for Tarzan_10:
(16, 6932), (28, 7100), (Start: 34 @7151 has 15 MA's), (53, 7214),

Gene: Tbone_11 Start: 8728, Stop: 9036, Start Num: 41
Candidate Starts for Tbone_11:
(Start: 41 @8728 has 90 MA's), (51, 8770), (53, 8788), (59, 8833), (71, 8884),

Gene: Teagster_9 Start: 7487, Stop: 7753, Start Num: 34
Candidate Starts for Teagster_9:
(31, 7478), (Start: 34 @7487 has 15 MA's), (45, 7511), (47, 7517), (57, 7592), (65, 7634), (77, 7667), (88, 7733),

Gene: TforTroy_11 Start: 8862, Stop: 9164, Start Num: 41
Candidate Starts for TforTroy_11:
(Start: 41 @8862 has 90 MA's), (51, 8904), (59, 8967), (71, 9018), (76, 9054),

Gene: ThursdayNight_10 Start: 7234, Stop: 7530, Start Num: 40
Candidate Starts for ThursdayNight_10:
(Start: 40 @7234 has 12 MA's), (91, 7516),

Gene: Tian_11 Start: 8759, Stop: 9064, Start Num: 41
Candidate Starts for Tian_11:
(13, 8489), (Start: 41 @8759 has 90 MA's), (51, 8801), (61, 8876),

Gene: Trine_9 Start: 6815, Stop: 7090, Start Num: 35
Candidate Starts for Trine_9:
(14, 6551), (18, 6641), (20, 6716), (23, 6728), (Start: 35 @6815 has 21 MA's), (57, 6911), (67, 6956), (79, 6995), (80, 6998),

Gene: Tuck_12 Start: 9774, Stop: 10079, Start Num: 41
Candidate Starts for Tuck_12:
(Start: 41 @9774 has 90 MA's), (51, 9816), (59, 9879), (61, 9891), (76, 9969),

Gene: Turab_11 Start: 8743, Stop: 9048, Start Num: 41
Candidate Starts for Turab_11:
(13, 8473), (Start: 41 @8743 has 90 MA's), (51, 8785), (59, 8848), (76, 8938),

Gene: Tutumahutu_11 Start: 8785, Stop: 9093, Start Num: 41
Candidate Starts for Tutumahutu_11:
(Start: 41 @8785 has 90 MA's), (51, 8827), (71, 8941),

Gene: Tweety19_11 Start: 7821, Stop: 8126, Start Num: 40
Candidate Starts for Tweety19_11:
(Start: 40 @7821 has 12 MA's), (51, 7860), (69, 7971), (87, 8076), (91, 8106),

Gene: Upyo_9 Start: 6827, Stop: 7114, Start Num: 32
Candidate Starts for Upyo_9:

(1, 6347), (8, 6449), (10, 6473), (22, 6746), (25, 6767), (Start: 32 @6827 has 3 MA's), (36, 6833), (44, 6854), (67, 6980), (78, 7016), (79, 7019), (89, 7088), (91, 7100), (92, 7103),

Gene: UtzChips_9 Start: 7926, Stop: 8207, Start Num: 41
Candidate Starts for UtzChips_9:
(Start: 41 @7926 has 90 MA's), (61, 8040),

Gene: VResidence_11 Start: 8797, Stop: 9105, Start Num: 41
Candidate Starts for VResidence_11:
(13, 8530), (21, 8698), (Start: 41 @8797 has 90 MA's), (91, 9088),

Gene: VroomVroom_10 Start: 7020, Stop: 7301, Start Num: 41
Candidate Starts for VroomVroom_10:
(Start: 41 @7020 has 90 MA's), (49, 7053), (51, 7062), (53, 7080), (71, 7176),

Gene: WST1_11 Start: 8173, Stop: 8415, Start Num: 41
Candidate Starts for WST1_11:
(Start: 37 @8167 has 3 MA's), (Start: 41 @8173 has 90 MA's), (66, 8284), (93, 8401),

Gene: Warda_11 Start: 8731, Stop: 9039, Start Num: 41
Candidate Starts for Warda_11:
(Start: 41 @8731 has 90 MA's), (51, 8773), (53, 8791), (71, 8887),

Gene: WheatThin_15 Start: 9332, Stop: 9613, Start Num: 37
Candidate Starts for WheatThin_15:
(Start: 37 @9332 has 3 MA's), (Start: 39 @9335 has 69 MA's), (55, 9413), (59, 9446), (60, 9458), (66, 9488), (79, 9533), (84, 9548),

Gene: Widow_9 Start: 6798, Stop: 7085, Start Num: 35
Candidate Starts for Widow_9:
(30, 6774), (Start: 35 @6798 has 21 MA's), (57, 6900), (66, 6945), (67, 6951), (79, 6990), (86, 7038), (91, 7071),

Gene: Wildwest_12 Start: 9644, Stop: 9949, Start Num: 41
Candidate Starts for Wildwest_12:
(Start: 41 @9644 has 90 MA's), (48, 9668), (51, 9686), (91, 9929), (94, 9938),

Gene: Wizzo_9 Start: 6457, Stop: 6747, Start Num: 39
Candidate Starts for Wizzo_9:
(Start: 39 @6457 has 69 MA's), (43, 6469), (45, 6475), (48, 6487), (51, 6505), (52, 6508), (53, 6523), (54, 6532), (55, 6535), (69, 6622), (72, 6634),

Gene: WorMMAs_9 Start: 6739, Stop: 7023, Start Num: 32
Candidate Starts for WorMMAs_9:
(22, 6658), (Start: 32 @6739 has 3 MA's), (Start: 35 @6745 has 21 MA's), (55, 6817), (66, 6883), (67, 6889), (78, 6925), (79, 6928), (86, 6976), (91, 7009), (92, 7012),

Gene: Yang_11 Start: 8832, Stop: 9134, Start Num: 41
Candidate Starts for Yang_11:
(Start: 41 @8832 has 90 MA's), (51, 8874), (59, 8937), (71, 8988), (76, 9024),

Gene: YesChef_11 Start: 8785, Stop: 9093, Start Num: 41
Candidate Starts for YesChef_11:

(Start: 41 @8785 has 90 MA's), (51, 8827), (71, 8941),

Gene: ZAYM_10 Start: 7554, Stop: 7844, Start Num: 35
Candidate Starts for ZAYM_10:
(Start: 35 @7554 has 21 MA's), (57, 7650), (66, 7704), (84, 7776), (86, 7797), (91, 7830),

Gene: Zeta1847_9 Start: 7022, Stop: 7303, Start Num: 41
Candidate Starts for Zeta1847_9:
(21, 6935), (Start: 41 @7022 has 90 MA's), (49, 7049),

Gene: Zodiariah_11 Start: 7870, Stop: 8145, Start Num: 39
Candidate Starts for Zodiariah_11:
(Start: 39 @7870 has 69 MA's), (65, 8017), (66, 8020), (79, 8065), (80, 8068),