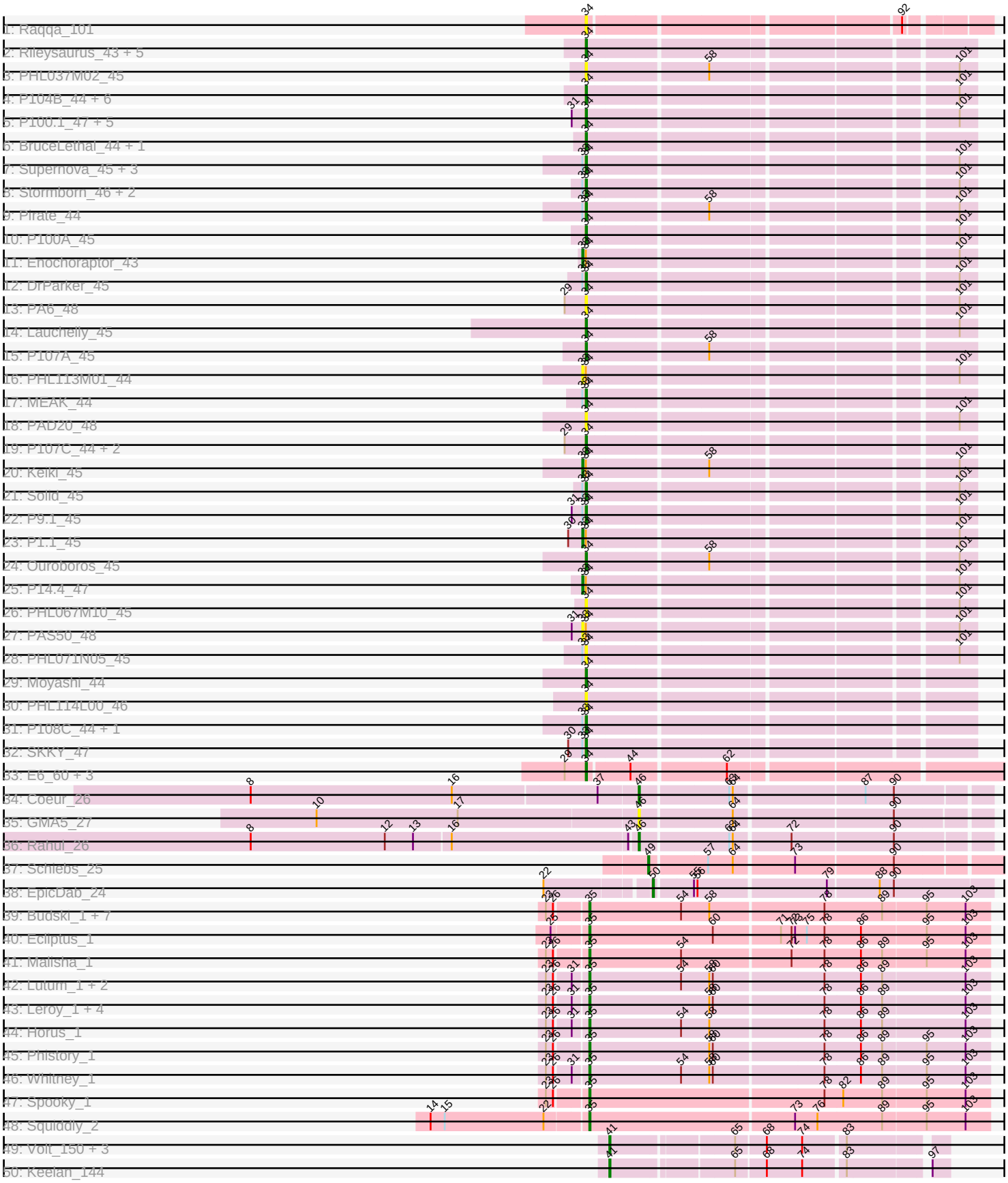
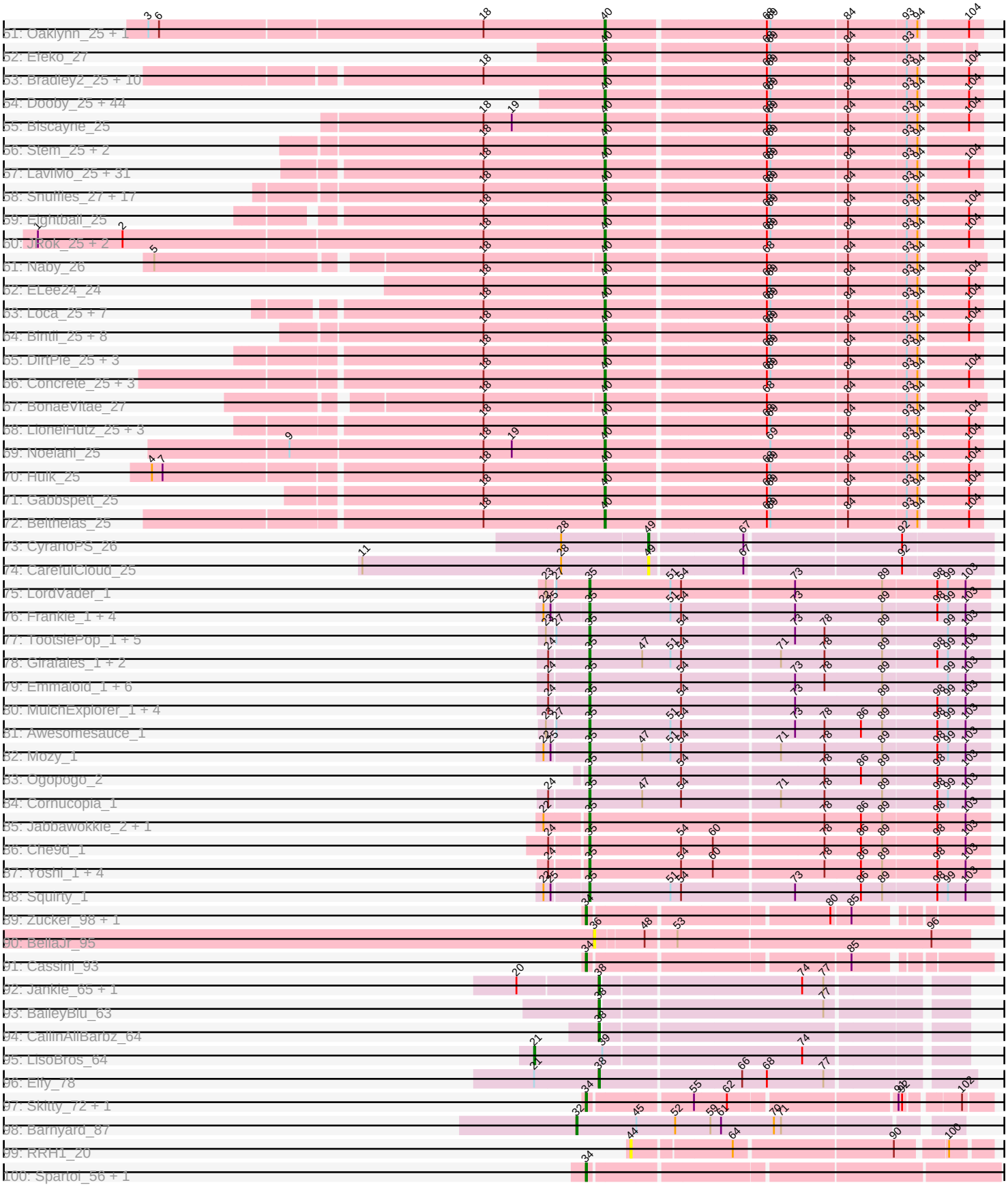
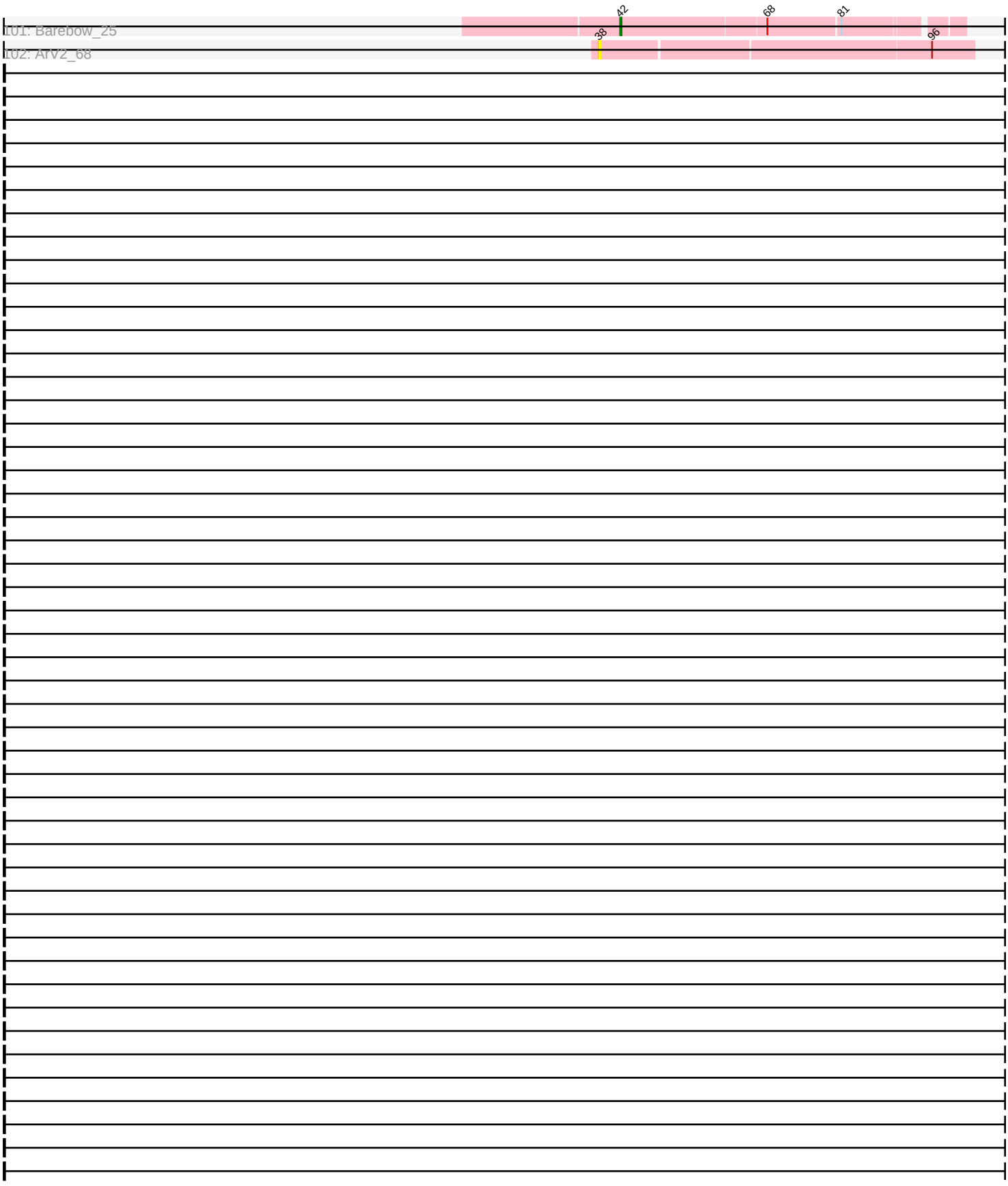
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1: Raqqa_101
2: Rileysaurus_43 + 5
3: PHL037M02_45
4: P104B_44 + 6
5: P100.1_47 + 5
6: BruceLethal_44 + 1
7: Supernova_45 + 3
8: Stormborn_46 + 2
9: Pirate_44
10: P100A_45
11: Enochoraptor_43
12: DrParker_45
13: PA6_48
14: Lauchelly_45
15: P107A_45
16: PHL113M01_44
17: MEAK_44
18: PAD20_48
19: P107C_44 + 2
20: Keiki_45
21: Solid_45
22: P9.1_45
23: P1.1_45
24: Ouroboros_45
25: P14.4_47
26: PHL067M10_45
27: PAS50_48
28: PHL071N05_45
29: Moyashi_44
30: PHL114L00_46
31: P108C_44 + 1
32: SKKY_47
33: E6_60 + 3
34: Coeur_26
35: GMA5_27
36: Rahul_26
37: Schiebs_25
38: EpicDab_24
39: Budski_1 + 7
40: Ecliptus_1
41: Malisha_1
42: Lutum_1 + 2
43: Leroy_1 + 4
44: Horus_1
45: Phistory_1
46: Whitney_1
47: Spooky_1
48: Squiddly_2
49: Volt_150 + 3
50: Keelan_144

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51: Oaklynn_25 + 1
52: Efeko_27
53: Bradley2_25 + 10
54: Dooby_25 + 44
55: Biscayne_25
56: Stem_25 + 2
57: LaviMo_25 + 31
58: Snuffles_27 + 17
59: Eightball_25
60: JRok_25 + 2
61: Naby_26
62: ELee24_24
63: Loca_25 + 7
64: Bintil_25 + 8
65: DirtPie_25 + 3
66: Concrete_25 + 3
67: BonaeVitae_27
68: LionelHutz_25 + 3
69: Noelani_25
70: Hulk_25
71: Gabbspett_25
72: Belthelas_25
73: CyranoPS_26
74: CarefulCloud_25
75: LordVader_1
76: Frankie_1 + 4
77: TootsiePop_1 + 5
78: Giraffales_1 + 2
79: Emmaloid_1 + 6
80: MulchExplorer_1 + 4
81: Awesomesauce_1
82: Mozy_1
83: Ogopogo_2
84: Cornucopia_1
85: Jabbawokkie_2 + 1
86: Che9d_1
87: Yoshi_1 + 4
88: Squirty_1
89: Zucker_98 + 1
90: BellaJr_95
91: Cassini_93
92: Jankie_65 + 1
93: BaileyBlu_63
94: CallinAllBarbz_64
95: LisoBros_64
96: Elly_78
97: Skitty_72 + 1
98: Barnyard_87
99: RRH1_20
100: Spartoi_56 + 1

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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 347168 Report

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

Pham number 347168 has 307 members, 28 are drafts.

Phages represented in each track:
• Track 1 : Raqqa_101
• Track 2 : Rileysaurus_43, Leviosa_44, PHL112N00_46, Aquarius_48, P101A_47, PHL060L00_46
• Track 3 : PHL037M02_45
• Track 4 : P104B_44, P104A_45, Procrass1_45, P100D_47, Kubed_44, Enoki_45, LilBandit_45
• Track 5 : P100.1_47, P106C_46, P106A_45, P106M_45, P106L_45, P106I_46
• Track 6 : BruceLethal_44, PHL010M04_45
• Track 7 : Supernova_45, Wizzo_44, PHL111M01_45, Cota_45
• Track 8 : Stormborn_46, QueenBey_43, Attacne_45
• Track 9 : Pirate_44
• Track 10 : P100A_45
• Track 11 : Enochoraptor_43
• Track 12 : DrParker_45
• Track 13 : PA6_48
• Track 14 : Lauchelly_45
• Track 15 : P107A_45
• Track 16 : PHL113M01_44
• Track 17 : MEAK_44
• Track 18 : PAD20_48
• Track 19 : P107C_44, ATCC29399BC_46, ATCC29399BT_46
• Track 20 : Keiki_45
• Track 21 : Solid_45
• Track 22 : P9.1_45
• Track 23 : P1.1_45
• Track 24 : Ouroboros_45
• Track 25 : P14.4_47
• Track 26 : PHL067M10_45
• Track 27 : PAS50_48
• Track 28 : PHL071N05_45
• Track 29 : Moyashi_44
• Track 30 : PHL114L00_46
• Track 31 : P108C_44, P105_45
• Track 32 : SKKY_47
• Track 33 : E6_60, G4_69, B22_61, Doucette_61
• Track 34 : Coeur_26
• Track 35 : GMA5_27

• Track 36 : Rahul_26
• Track 37 : Schiebs_25
• Track 38 : EpicDab_24
• Track 39 : Budski_1, CheeseTouch_1, ODay_1, BotCity_1, Holliday_1, LitninMcQueen_1, Kamaru_1, Phabuloso_1
• Track 40 : Ecliptus_1
• Track 41 : Malisha_1
• Track 42 : Lutum_1, Periwinkle_1, Kenna_1
• Track 43 : Leroy_1, BENtherdunthat_1, Asapag_1, Getalong_1, Frickyeah_1
• Track 44 : Horus_1
• Track 45 : Phistory_1
• Track 46 : Whitney_1
• Track 47 : Spooky_1
• Track 48 : Squiddly_2
• Track 49 : Volt_150, Fryberger_144, Guey18_149, Ronaldo_147
• Track 50 : Keelan_144
• Track 51 : Oaklynn_25, Azizam_25
• Track 52 : Efeko_27
• Track 53 : Bradley2_25, KyriosFaba_25, Lola20_25, Jahseh_25, Baine_25, Yasuo_25, Danimal_25, Anseraureola_25, Gillker_25, Cayde6_25, EdElric_25
• Track 54 : Dooby_25, Picnic_25, Majesty_25, BarBear_25, Goobery_25, JaimeB_25, Ciel_25, NeumannU_25, Chatham_25, Aztec_25, Pondwater_25, Jannah_25, JoBros_25, BinkBonk_25, Witch_25, Goulash_25, Erin_25, Yubaba_25, Minima_25, Myram_25, Horacetta_25, Gardevoir_25, SeaWolves_25, Slentz_25, Jella_27, YertPhresh_25, Hernandez44_25, Alucard_25, GoldenBlanche_25, BurtonThePup_25, ManAs_25, Dongwon_25, Luxx_25, Sara_25, Owens_25, Scrunchy_25, Astro16_25, Octopus_25, Duggle_26, Tyrellus_25, PaoPu_25, Sachet_25, Picconator_25, LemonPepper_25, Puddles3_25
• Track 55 : Biscayne_25
• Track 56 : Stem_25, Niffler_25, Nobel_25
• Track 57 : LaviMo_25, Kaijohn_25, Bodhi17_25, Aries55_25, Danno_25, Avvas_25, KayPaulus_25, Scamander_25, OdetoJoy_25, Kojax4_25, Josuke_25, Madebyisha_25, Otwor_25, Vanisius_25, MrGreen_25, Jerky_25, SantasSleigh_25, Maneater_25, Zahlia_25, Godfather_25, Sage7_25, Rhysand_25, Grayscar_25, RoscoWindex_25, Cheesecake_25, TimoTea_25, Sippinontea_25, VitulaEligans_25, Wolfpack_25, Charbie_25, Burgy_25, Toxicola_27
• Track 58 : Snuffles_27, TinyTruffula_25, MauiIvory_24, IzzyPants24_25, Clownery_25, Trireme_25, Rira_25, Trackstar_25, Publix_26, Yami_25, Bullzi2019_26, Slizam_25, TomBrady12_26, Lunatic_25, Miaurora_25, Cazares_25, Namsahir_27, PuffyCat_25
• Track 59 : Eightball_25
• Track 60 : JRok_25, McShie_25, BrokMonster_25
• Track 61 : Naby_26
• Track 62 : ELee24_24
• Track 63 : Loca_25, Quaker_25, Leafy_25, Abelaine_26, Kevanna_25, MelBee03_25, Douggie_25, Livingwater_25
• Track 64 : Bintii_25, MirimarMandM_25, JooneeDee_25, Elspeth_26, HarperAnne_26, Upsilon_25, Ekko14_26, PoRanda_25, TlaliMex_27
• Track 65 : DirtPie_25, Marichuy_26, MasterPitts_25, DaftyDuck_25
• Track 66 : Concrete_25, KillerTomato_25, BoomRoasted_25, Bri160_25
• Track 67 : BonaeVitae_27
• Track 68 : LionelHutz_25, HeadMave_25, TeddyBoy_25, Rhogar_25
• Track 69 : Noelani_25

• Track 70 : Hulk_25
• Track 71 : Gabbspett_25
• Track 72 : Belthelas_25
• Track 73 : CyranoPS_26
• Track 74 : CarefulCloud_25
• Track 75 : LordVader_1
• Track 76 : Frankie_1, Doomslug_1, Flathead_1, Brushbloom_1, Hegedechwinu_1
• Track 77 : TootsiePop_1, DocMcStuffins_1, Aloeri_1, Piper2020_1, Misha28_1, ChickenDinner_1
• Track 78 : Girafales_1, Tchotchke_1, Quico_1
• Track 79 : Emmaloid_1, Rialto_1, Slim_1, LittleShirley_1, Mova_1, Starcevich_1, Totinger_1
• Track 80 : MulchExplorer_1, Plumbus_1, Kimberlium_1, Job42_1, Juice456_1
• Track 81 : Awesomesauce_1
• Track 82 : Mozy_1
• Track 83 : Ogopogo_2
• Track 84 : Cornucopia_1
• Track 85 : Jabbawokkie_2, Zapner_2
• Track 86 : Che9d_1
• Track 87 : Yoshi_1, SilverChicken_1, Soul22_1, Avani_1, Demsculpinboyz_1
• Track 88 : Squirty_1
• Track 89 : Zucker_98, BlackSpider_85
• Track 90 : BellaJr_95
• Track 91 : Cassini_93
• Track 92 : Jankie_65, GrimEater_64
• Track 93 : BaileyBlu_63
• Track 94 : CallinAllBarbz_64
• Track 95 : LisoBros_64
• Track 96 : Elfy_78
• Track 97 : Skitty_72, MrSmee_79
• Track 98 : Barnyard_87
• Track 99 : RRH1_20
• Track 100 : Spartoi_56, MrAK_46
• Track 101 : Barebow_25
• Track 102 : ArV2_68

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

The start number called the most often in the published annotations is 40, it was called in 146 of the 279 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Abelaine_26, Alucard_25, Anseraureola_25, Aries55_25, Astro16_25, Avvas_25, Azizam_25, Aztec_25, Baine_25, BarBear_25, Belthelas_25, BinkBonk_25, Bintii_25, Biscayne_25, Bodhi17_25, BonaeVitae_27, BoomRoasted_25, Bradley2_25, Bri160_25, BrokMonster_25, Bullzi2019_26, Burgy_25, BurtonThePup_25, Cayde6_25, Cazares_25, Charbie_25, Chatham_25, Cheesecake_25, Ciel_25, Clownery_25, Concrete_25, DaftyDuck_25, Danimal_25, Danno_25, DirtPie_25, Dongwon_25, Dooby_25, Douggie_25, Duggle_26, ELee24_24, EdElric_25, Efeko_27, Eightball_25, Ekko14_26, Elspeth_26, Erin_25, Gabbspett_25,

Gardevoir_25, Gillker_25, Godfather_25, GoldenBlanche_25, Goobery_25, Goulash_25, Grayscar_25, HarperAnne_26, HeadMave_25, Hernandez44_25, Horacetta_25, Hulk_25, IzzyPants24_25, JRok_25, Jahseh_25, JaimeB_25, Jannah_25, Jella_27, Jerky_25, JoBros_25, JooneeDee_25, Josuke_25, Kaijohn_25, KayPaulus_25, Kevanna_25, KillerTomato_25, Kojax4_25, KyriosFaba_25, LaviMo_25, Leafy_25, LemonPepper_25, LionelHutz_25, Livingwater_25, Loca_25, Lola20_25, Lunatic_25, Luxx_25, Madebyisha_25, Majesty_25, ManAs_25, Maneater_25, Marichuy_26, MasterPitts_25, MauiIvory_24, McShie_25, MelBee03_25, Miaurora_25, Minima_25, MirimarMandM_25, MrGreen_25, Myram_25, Naby_26, Namsahir_27, NeumannU_25, Niffler_25, Nobel_25, Noelani_25, Oaklynn_25, Octopus_25, OdetoJoy_25, Otwor_25, Owens_25, PaoPu_25, Picconator_25, Picnic_25, PoRanda_25, Pondwater_25, Publix_26, Puddles3_25, PuffyCat_25, Quaker_25, Rhogar_25, Rhysand_25, Rira_25, RoscoWindex_25, Sachet_25, Sage7_25, SantasSleigh_25, Sara_25, Scamander_25, Scrunchy_25, SeaWolves_25, Sippinontea_25, Slentz_25, Slizam_25, Snuffles_27, Stem_25, TeddyBoy_25, TimoTea_25, TinyTruffula_25, TlaliMex_27, TomBrady12_26, Toxicola_27, Trackstar_25, Trireme_25, Tyrellus_25, Upsilon_25, Vanisius_25, VitulaEligans_25, Witch_25, Wolfpack_25, Yami_25, Yasuo_25, YertPhresh_25, Yubaba_25, Zahlia_25,

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

Genes that do not have the "Most Annotated" start:
• ATCC29399BC_46, ATCC29399BT_46, Aloeri_1, Aquarius_48, ArV2_68, Asapag_1, Attacne_45, Avani_1, Awesomesauce_1, B22_61, BENtherdunthat_1, BaileyBlu_63, Barebow_25, Barnyard_87, BellaJr_95, BlackSpider_85, BotCity_1, BruceLethal_44, Brushbloom_1, Budski_1, CallinAllBarbz_64, CarefulCloud_25, Cassini_93, Che9d_1, CheeseTouch_1, ChickenDinner_1, Coeur_26, Cornucopia_1, Cota_45, CyranoPS_26, Demsculpinboyz_1, DocMcStuffins_1, Doomslug_1, Doucette_61, DrParker_45, E6_60, Ecliptus_1, Elfy_78, Emmaloid_1, Enochoraptor_43, Enoki_45, EpicDab_24, Flathead_1, Frankie_1, Frickyeah_1, Fryberger_144, G4_69, GMA5_27, Getalong_1, Girafales_1, GrimEater_64, Guey18_149, Hegedechwinu_1, Holliday_1, Horus_1, Jabbawokkie_2, Jankie_65, Job42_1, Juice456_1, Kamaru_1, Keelan_144, Keiki_45, Kenna_1, Kimberlium_1, Kubed_44, Lauchelly_45, Leroy_1, Leviosa_44, LilBandit_45, LisoBros_64, LitninMcQueen_1, LittleShirley_1, LordVader_1, Lutum_1, MEAK_44, Malisha_1, Misha28_1, Mova_1, Moyashi_44, Mozy_1, MrAK_46, MrSmee_79, MulchExplorer_1, ODay_1, Ogopogo_2, Ouroboros_45, P1.1_45, P100.1_47, P100A_45, P100D_47, P101A_47, P104A_45, P104B_44, P105_45, P106A_45, P106C_46, P106I_46, P106L_45, P106M_45, P107A_45, P107C_44, P108C_44, P14.4_47, P9.1_45, PA6_48, PAD20_48, PAS50_48, PHL010M04_45, PHL037M02_45, PHL060L00_46, PHL067M10_45, PHL071N05_45, PHL111M01_45, PHL112N00_46, PHL113M01_44, PHL114L00_46, Periwinkle_1, Phabuloso_1, Phistory_1, Piper2020_1, Pirate_44, Plumbus_1, Procrass1_45, QueenBey_43, Quico_1, RRH1_20, Rahul_26, Raqqa_101, Rialto_1, Rileysaurus_43, Ronaldo_147, SKKY_47, Schiebs_25, SilverChicken_1, Skitty_72, Slim_1, Solid_45, Soul22_1, Spartoi_56, Spooky_1, Squiddly_2, Squirty_1, Starcevich_1, Stormborn_46, Supernova_45, Tchotchke_1, TootsiePop_1, Totinger_1, Volt_150, Whitney_1, Wizzo_44, Yoshi_1, Zapner_2, Zucker_98,

Summary by start number:

Start 21:
• Found in 2 of 307 (0.7%) of genes in pham
• Manual Annotations of this start: 1 of 279
• Called 50.0% of time when present
• Phage (with cluster) where this start called: LisoBros_64 (FP),

Start 32:
• Found in 1 of 307 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 279
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Barnyard_87 (H2),

Start 33:
• Found in 22 of 307 (7.2%) of genes in pham
• Manual Annotations of this start: 4 of 279
• Called 27.3% of time when present
• Phage (with cluster) where this start called: Enochoraptor_43 (BU), Keiki_45 (BU), P1.1_45 (BU), P14.4_47 (BU), PAS50_48 (BU), PHL113M01_44 (BU),

Start 34:
• Found in 68 of 307 (22.1%) of genes in pham
• Manual Annotations of this start: 51 of 279
• Called 91.2% of time when present
• Phage (with cluster) where this start called: ATCC29399BC_46 (BU), ATCC29399BT_46 (BU), Aquarius_48 (BU), Attacne_45 (BU), B22_61 (BW), BlackSpider_85 (FN), BruceLethal_44 (BU), Cassini_93 (FN), Cota_45 (BU), Doucette_61 (BW), DrParker_45 (BU), E6_60 (BW), Enoki_45 (BU), G4_69 (BW), Kubed_44 (BU), Lauchelly_45 (BU), Leviosa_44 (BU), LilBandit_45 (BU), MEAK_44 (BU), Moyashi_44 (BU), MrAK_46 (BU), MrSmee_79 (FQ1), Ouroboros_45 (BU), P100.1_47 (BU), P100A_45 (BU), P100D_47 (BU), P101A_47 (BU), P104A_45 (BU), P104B_44 (BU), P105_45 (BU), P106A_45 (BU), P106C_46 (BU), P106I_46 (BU), P106L_45 (BU), P106M_45 (BU), P107A_45 (BU), P107C_44 (BU), P108C_44 (BU), P9.1_45 (BU), PA6_48 (BU), PAD20_48 (BU), PHL010M04_45 (BU), PHL037M02_45 (BU), PHL060L00_46 (BU), PHL067M10_45 (BU), PHL071N05_45 (BU), PHL111M01_45 (BU), PHL112N00_46 (BU), PHL114L00_46 (BU), Pirate_44 (BU), Procrass1_45 (BU), QueenBey_43 (BU), Raqqa_101 (AY), Rileysaurus_43 (BU), SKKY_47 (BU), Skitty_72 (FQ1), Solid_45 (BU), Spartoi_56 (singleton), Stormborn_46 (BU), Supernova_45 (BU), Wizzo_44 (BU), Zucker_98 (FN),

Start 35:
• Found in 63 of 307 (20.5%) of genes in pham
• Manual Annotations of this start: 60 of 279
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Aloeri_1 (F1), Asapag_1 (DN1), Avani_1 (F2), Awesomesauce_1 (F1), BENtherdunthat_1 (DN1), BotCity_1 (DN), Brushbloom_1 (F1), Budski_1 (DN), Che9d_1 (F2), CheeseTouch_1 (DN1), ChickenDinner_1 (F1), Cornucopia_1 (F1), Demsculpinboyz_1 (F2), DocMcStuffins_1 (F1), Doomslug_1 (F), Ecliptus_1 (DN), Emmaloid_1 (F1), Flathead_1 (F1), Frankie_1 (F1), Frickyeah_1 (DN1), Getalong_1 (DN1), Girafales_1 (F1), Hegedechwinu_1 (F1), Holliday_1 (DN1), Horus_1 (DN1), Jabbawokkie_2 (F2), Job42_1 (F1), Juice456_1 (F1), Kamaru_1 (DN1), Kenna_1 (DN1), Kimberlium_1 (F1), Leroy_1 (DN1), LitninMcQueen_1 (DN1), LittleShirley_1 (F1), LordVader_1 (F), Lutum_1 (DN1), Malisha_1 (DN), Misha28_1 (F1), Mova_1 (F1), Mozy_1 (F1), MulchExplorer_1 (F1),

ODay_1 (DN), Ogopogo_2 (F1), Periwinkle_1 (DN1), Phabuloso_1 (DN1), Phistory_1 (DN1), Piper2020_1 (F1), Plumbus_1 (F1), Quico_1 (F1), Rialto_1 (F1), SilverChicken_1 (F2), Slim_1 (F1), Soul22_1 (F2), Spooky_1 (DN2), Squiddly_2 (DN2), Squirty_1 (F3), Starcevich_1 (F1), Tchotchke_1 (F1), TootsiePop_1 (F1), Totinger_1 (F1), Whitney_1 (DN1), Yoshi_1 (F2), Zapner_2 (F2),

Start 36:
• Found in 1 of 307 (0.3%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BellaJr_95 (FN),

Start 38:
• Found in 6 of 307 (2.0%) of genes in pham
• Manual Annotations of this start: 5 of 279
• Called 100.0% of time when present
• Phage (with cluster) where this start called: ArV2_68 (singleton), BaileyBlu_63 (FP), CallinAllBarbz_64 (FP), Elfy_78 (FP), GrimEater_64 (FP), Jankie_65 (FP),

Start 40:
• Found in 153 of 307 (49.8%) of genes in pham
• Manual Annotations of this start: 146 of 279
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Abelaine_26 (EE), Alucard_25 (EE), Anseraureola_25 (EE), Aries55_25 (EE), Astro16_25 (EE), Avvas_25 (EE), Azizam_25 (EE), Aztec_25 (EE), Baine_25 (EE), BarBear_25 (EE), Belthelas_25 (EE), BinkBonk_25 (EE), Bintii_25 (EE), Biscayne_25 (EE), Bodhi17_25 (EE), BonaeVitae_27 (EE), BoomRoasted_25 (EE), Bradley2_25 (EE), Bri160_25 (EE), BrokMonster_25 (EE), Bullzi2019_26 (EE), Burgy_25 (EE), BurtonThePup_25 (EE), Cayde6_25 (EE), Cazares_25 (EE), Charbie_25 (EE), Chatham_25 (EE), Cheesecake_25 (EE), Ciel_25 (EE), Clownery_25 (EE), Concrete_25 (EE), DaftyDuck_25 (EE), Danimal_25 (EE), Danno_25 (EE), DirtPie_25 (EE), Dongwon_25 (EE), Dooby_25 (EE), Douggie_25 (EE), Duggle_26 (EE), ELee24_24 (EE), EdElric_25 (EE), Efeko_27 (EE), Eightball_25 (EE), Ekko14_26 (EE), Elspeth_26 (EE), Erin_25 (EE), Gabbspett_25 (EE), Gardevoir_25 (EE), Gillker_25 (EE), Godfather_25 (EE), GoldenBlanche_25 (EE), Goobery_25 (EE), Goulash_25 (EE), Grayscar_25 (EE), HarperAnne_26 (EE), HeadMave_25 (EE), Hernandez44_25 (EE), Horacetta_25 (EE), Hulk_25 (EE), IzzyPants24_25 (EE), JRok_25 (EE), Jahseh_25 (EE), JaimeB_25 (EE), Jannah_25 (EE), Jella_27 (EE), Jerky_25 (EE), JoBros_25 (EE), JooneeDee_25 (EE), Josuke_25 (EE), Kaijohn_25 (EE), KayPaulus_25 (EE), Kevanna_25 (EE), KillerTomato_25 (EE), Kojax4_25 (EE), KyriosFaba_25 (EE), LaviMo_25 (EE), Leafy_25 (EE), LemonPepper_25 (EE), LionelHutz_25 (EE), Livingwater_25 (EE), Loca_25 (EE), Lola20_25 (EE), Lunatic_25 (EE), Luxx_25 (EE), Madebyisha_25 (EE), Majesty_25 (EE), ManAs_25 (EE), Maneater_25 (EE), Marichuy_26 (EE), MasterPitts_25 (EE), MauiIvory_24 (EE), McShie_25 (EE), MelBee03_25 (EE), Miaurora_25 (EE), Minima_25 (EE), MirimarMandM_25 (EE), MrGreen_25 (EE), Myram_25 (EE), Naby_26 (EE), Namsahir_27 (EE), NeumannU_25 (EE), Niffler_25 (EE), Nobel_25 (EE), Noelani_25 (EE), Oaklynn_25 (EE), Octopus_25 (EE), OdetoJoy_25 (EE), Otwor_25 (EE), Owens_25 (EE), PaoPu_25 (EE), Picconator_25 (EE), Picnic_25 (EE), PoRanda_25 (EE), Pondwater_25 (EE), Publix_26 (EE), Puddles3_25 (EE), PuffyCat_25 (EE), Quaker_25 (EE), Rhogar_25 (EE), Rhysand_25 (EE), Rira_25 (EE), RoscoWindex_25 (EE), Sachet_25 (EE), Sage7_25 (EE), SantasSleigh_25 (EE),

Sara_25 (EE), Scamander_25 (EE), Scrunchy_25 (EE), SeaWolves_25 (EE), Sippinontea_25 (EE), Slentz_25 (EE), Slizam_25 (EE), Snuffles_27 (EE), Stem_25 (EE), TeddyBoy_25 (EE), TimoTea_25 (EE), TinyTruffula_25 (EE), TlaliMex_27 (EE), TomBrady12_26 (EE), Toxicola_27 (EE), Trackstar_25 (EE), Trireme_25 (EE), Tyrellus_25 (EE), Upsilon_25 (EE), Vanisius_25 (EE), VitulaEligans_25 (EE), Witch_25 (EE), Wolfpack_25 (EE), Yami_25 (EE), Yasuo_25 (EE), YertPhresh_25 (EE), Yubaba_25 (EE), Zahlia_25 (EE),

Start 41:
• Found in 5 of 307 (1.6%) of genes in pham
• Manual Annotations of this start: 5 of 279
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Fryberger_144 (DP), Guey18_149 (DP), Keelan_144 (DP), Ronaldo_147 (DP), Volt_150 (DP),

Start 42:
• Found in 1 of 307 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 279
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Barebow_25 (singleton),

Start 44:
• Found in 5 of 307 (1.6%) of genes in pham
• No Manual Annotations of this start.
• Called 20.0% of time when present
• Phage (with cluster) where this start called: RRH1_20 (singleton),

Start 46:
• Found in 3 of 307 (1.0%) of genes in pham
• Manual Annotations of this start: 2 of 279
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Coeur_26 (CW2), GMA5_27 (CW2), Rahul_26 (CW2),

Start 49:
• Found in 3 of 307 (1.0%) of genes in pham
• Manual Annotations of this start: 2 of 279
• Called 100.0% of time when present
• Phage (with cluster) where this start called: CarefulCloud_25 (ER), CyranoPS_26 (ER), Schiebs_25 (CW3),

Start 50:
• Found in 1 of 307 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 279
• Called 100.0% of time when present
• Phage (with cluster) where this start called: EpicDab_24 (DM),

Summary by clusters:

There are 21 clusters represented in this pham: DN, F1, F2, DM, F, EE, CW3, CW2, FQ1, singleton, FP, BW, BU, F3, DN1, DP, DN2, AY, H2, FN, ER,

Info for manual annotations of cluster BU:
•Start number 33 was manually annotated 4 times for cluster BU.
•Start number 34 was manually annotated 41 times for cluster BU.

Info for manual annotations of cluster BW:
•Start number 34 was manually annotated 4 times for cluster BW.

Info for manual annotations of cluster CW2:
•Start number 46 was manually annotated 2 times for cluster CW2.

Info for manual annotations of cluster CW3:
•Start number 49 was manually annotated 1 time for cluster CW3.

Info for manual annotations of cluster DM:
•Start number 50 was manually annotated 1 time for cluster DM.

Info for manual annotations of cluster DN:
•Start number 35 was manually annotated 5 times for cluster DN.

Info for manual annotations of cluster DN1:
•Start number 35 was manually annotated 15 times for cluster DN1.

Info for manual annotations of cluster DN2:
•Start number 35 was manually annotated 2 times for cluster DN2.

Info for manual annotations of cluster DP:
•Start number 41 was manually annotated 5 times for cluster DP.

Info for manual annotations of cluster EE:
•Start number 40 was manually annotated 146 times for cluster EE.

Info for manual annotations of cluster ER:
•Start number 49 was manually annotated 1 time for cluster ER.

Info for manual annotations of cluster F:
•Start number 35 was manually annotated 1 time for cluster F.

Info for manual annotations of cluster F1:
•Start number 35 was manually annotated 29 times for cluster F1.

Info for manual annotations of cluster F2:
•Start number 35 was manually annotated 7 times for cluster F2.

Info for manual annotations of cluster F3:
•Start number 35 was manually annotated 1 time for cluster F3.

Info for manual annotations of cluster FN:
•Start number 34 was manually annotated 3 times for cluster FN.

Info for manual annotations of cluster FP:
•Start number 21 was manually annotated 1 time for cluster FP.
•Start number 38 was manually annotated 5 times for cluster FP.

Info for manual annotations of cluster FQ1:
•Start number 34 was manually annotated 2 times for cluster FQ1.

Info for manual annotations of cluster H2:
•Start number 32 was manually annotated 1 time for cluster H2.

Gene Information:

Gene: ATCC29399BC_46 Start: 29152, Stop: 29454, Start Num: 34
Candidate Starts for ATCC29399BC_46:
(29, 29134), (Start: 34 @29152 has 51 MA's),

Gene: ATCC29399BT_46 Start: 29152, Stop: 29454, Start Num: 34
Candidate Starts for ATCC29399BT_46:
(29, 29134), (Start: 34 @29152 has 51 MA's),

Gene: Abelaine_26 Start: 17034, Stop: 17333, Start Num: 40
Candidate Starts for Abelaine_26:
(18, 16932), (Start: 40 @17034 has 146 MA's), (68, 17163), (69, 17166), (84, 17229), (93, 17277), (94, 17286), (104, 17322),

Gene: Aloeri_1 Start: 42, Stop: 374, Start Num: 35
Candidate Starts for Aloeri_1:
(23, 9), (27, 15), (Start: 35 @42 has 60 MA's), (54, 120), (73, 213), (78, 237), (89, 285), (99, 339), (103, 354),

Gene: Alucard_25 Start: 16990, Stop: 17289, Start Num: 40
Candidate Starts for Alucard_25:
(Start: 40 @16990 has 146 MA's), (68, 17119), (69, 17122), (84, 17185), (93, 17233), (94, 17242), (104, 17278),

Gene: Anseraureola_25 Start: 17052, Stop: 17351, Start Num: 40
Candidate Starts for Anseraureola_25:
(18, 16950), (Start: 40 @17052 has 146 MA's), (68, 17181), (69, 17184), (84, 17247), (93, 17295), (94, 17304), (104, 17340),

Gene: Aquarius_48 Start: 29747, Stop: 30049, Start Num: 34
Candidate Starts for Aquarius_48:
(Start: 34 @29747 has 51 MA's),

Gene: ArV2_68 Start: 37011, Stop: 37319, Start Num: 38
Candidate Starts for ArV2_68:
(Start: 38 @37011 has 5 MA's), (96, 37284),

Gene: Aries55_25 Start: 17079, Stop: 17378, Start Num: 40
Candidate Starts for Aries55_25:
(18, 16977), (Start: 40 @17079 has 146 MA's), (68, 17208), (69, 17211), (84, 17274), (93, 17322), (94, 17331), (104, 17367),

Gene: Asapag_1 Start: 39, Stop: 371, Start Num: 35
Candidate Starts for Asapag_1:

(23, 9), (26, 15), (31, 27), (Start: 35 @39 has 60 MA's), (58, 141), (60, 144), (78, 234), (86, 264), (89, 282), (103, 351),

Gene: Astro16_25 Start: 17072, Stop: 17371, Start Num: 40
Candidate Starts for Astro16_25:
(Start: 40 @17072 has 146 MA's), (68, 17201), (69, 17204), (84, 17267), (93, 17315), (94, 17324), (104, 17360),

Gene: Attacne_45 Start: 28511, Stop: 28813, Start Num: 34
Candidate Starts for Attacne_45:
(Start: 33 @28508 has 4 MA's), (Start: 34 @28511 has 51 MA's), (101, 28799),

Gene: Avani_1 Start: 38, Stop: 370, Start Num: 35
Candidate Starts for Avani_1:
(24, 11), (Start: 35 @38 has 60 MA's), (54, 116), (60, 143), (78, 233), (86, 263), (89, 281), (98, 326), (103, 350),

Gene: Avvas_25 Start: 17079, Stop: 17378, Start Num: 40
Candidate Starts for Avvas_25:
(18, 16977), (Start: 40 @17079 has 146 MA's), (68, 17208), (69, 17211), (84, 17274), (93, 17322), (94, 17331), (104, 17367),

Gene: Awesomesauce_1 Start: 42, Stop: 374, Start Num: 35
Candidate Starts for Awesomesauce_1:
(23, 9), (27, 15), (Start: 35 @42 has 60 MA's), (51, 111), (54, 120), (73, 213), (78, 237), (86, 267), (89, 285), (98, 330), (99, 339), (103, 354),

Gene: Azizam_25 Start: 17012, Stop: 17311, Start Num: 40
Candidate Starts for Azizam_25:
(3, 16631), (6, 16640), (18, 16910), (Start: 40 @17012 has 146 MA's), (68, 17141), (69, 17144), (84, 17207), (93, 17255), (94, 17264), (104, 17300),

Gene: Aztec_25 Start: 16995, Stop: 17294, Start Num: 40
Candidate Starts for Aztec_25:
(Start: 40 @16995 has 146 MA's), (68, 17124), (69, 17127), (84, 17190), (93, 17238), (94, 17247), (104, 17283),

Gene: B22_61 Start: 36822, Stop: 37160, Start Num: 34
Candidate Starts for B22_61:
(29, 36804), (Start: 34 @36822 has 51 MA's), (44, 36855), (62, 36930),

Gene: BENtherdunthat_1 Start: 39, Stop: 371, Start Num: 35
Candidate Starts for BENtherdunthat_1:
(23, 9), (26, 15), (31, 27), (Start: 35 @39 has 60 MA's), (58, 141), (60, 144), (78, 234), (86, 264), (89, 282), (103, 351),

Gene: BaileyBlu_63 Start: 40002, Stop: 40289, Start Num: 38
Candidate Starts for BaileyBlu_63:
(Start: 38 @40002 has 5 MA's), (77, 40182),

Gene: Baine_25 Start: 17015, Stop: 17314, Start Num: 40
Candidate Starts for Baine_25:

(18, 16913), (Start: 40 @17015 has 146 MA's), (68, 17144), (69, 17147), (84, 17210), (93, 17258), (94, 17267), (104, 17303),

Gene: BarBear_25 Start: 17072, Stop: 17371, Start Num: 40
Candidate Starts for BarBear_25:
(Start: 40 @17072 has 146 MA's), (68, 17201), (69, 17204), (84, 17267), (93, 17315), (94, 17324), (104, 17360),

Gene: Barebow_25 Start: 17435, Stop: 17701, Start Num: 42
Candidate Starts for Barebow_25:
(Start: 42 @17435 has 1 MA's), (68, 17552), (81, 17612),

Gene: Barnyard_87 Start: 60478, Stop: 60789, Start Num: 32
Candidate Starts for Barnyard_87:
(Start: 32 @60478 has 1 MA's), (45, 60529), (52, 60562), (59, 60592), (61, 60601), (70, 60646), (71, 60652),

Gene: BellaJr_95 Start: 51784, Stop: 52089, Start Num: 36
Candidate Starts for BellaJr_95:
(36, 51784), (48, 51823), (53, 51847), (96, 52057),

Gene: Belthelas_25 Start: 17128, Stop: 17427, Start Num: 40
Candidate Starts for Belthelas_25:
(18, 17026), (Start: 40 @17128 has 146 MA's), (68, 17257), (69, 17260), (84, 17323), (93, 17371), (94, 17380), (104, 17416),

Gene: BinkBonk_25 Start: 17072, Stop: 17371, Start Num: 40
Candidate Starts for BinkBonk_25:
(Start: 40 @17072 has 146 MA's), (68, 17201), (69, 17204), (84, 17267), (93, 17315), (94, 17324), (104, 17360),

Gene: Bintii_25 Start: 17094, Stop: 17393, Start Num: 40
Candidate Starts for Bintii_25:
(18, 16992), (Start: 40 @17094 has 146 MA's), (68, 17223), (69, 17226), (84, 17289), (93, 17337), (94, 17346), (104, 17382),

Gene: Biscayne_25 Start: 17155, Stop: 17454, Start Num: 40
Candidate Starts for Biscayne_25:
(18, 17053), (19, 17077), (Start: 40 @17155 has 146 MA's), (68, 17284), (69, 17287), (84, 17350), (93, 17398), (94, 17407), (104, 17443),

Gene: BlackSpider_85 Start: 50168, Stop: 50473, Start Num: 34
Candidate Starts for BlackSpider_85:
(Start: 34 @50168 has 51 MA's), (80, 50357), (85, 50372),

Gene: Bodhi17_25 Start: 17109, Stop: 17408, Start Num: 40
Candidate Starts for Bodhi17_25:
(18, 17007), (Start: 40 @17109 has 146 MA's), (68, 17238), (69, 17241), (84, 17304), (93, 17352), (94, 17361), (104, 17397),

Gene: BonaeVitae_27 Start: 17082, Stop: 17384, Start Num: 40
Candidate Starts for BonaeVitae_27:
(18, 16983), (Start: 40 @17082 has 146 MA's), (68, 17211), (84, 17277), (93, 17325), (94, 17334),

Gene: BoomRoasted_25 Start: 17082, Stop: 17381, Start Num: 40
Candidate Starts for BoomRoasted_25:
(18, 16980), (Start: 40 @17082 has 146 MA's), (68, 17211), (69, 17214), (84, 17277), (93, 17325), (94, 17334), (104, 17370),

Gene: BotCity_1 Start: 39, Stop: 371, Start Num: 35
Candidate Starts for BotCity_1:
(23, 9), (26, 15), (Start: 35 @39 has 60 MA's), (54, 117), (58, 141), (78, 234), (89, 282), (95, 318), (103, 351),

Gene: Bradley2_25 Start: 16994, Stop: 17293, Start Num: 40
Candidate Starts for Bradley2_25:
(18, 16892), (Start: 40 @16994 has 146 MA's), (68, 17123), (69, 17126), (84, 17189), (93, 17237), (94, 17246), (104, 17282),

Gene: Bri160_25 Start: 17069, Stop: 17368, Start Num: 40
Candidate Starts for Bri160_25:
(18, 16967), (Start: 40 @17069 has 146 MA's), (68, 17198), (69, 17201), (84, 17264), (93, 17312), (94, 17321), (104, 17357),

Gene: BrokMonster_25 Start: 17060, Stop: 17359, Start Num: 40
Candidate Starts for BrokMonster_25:
(1, 16586), (2, 16658), (18, 16958), (Start: 40 @17060 has 146 MA's), (68, 17189), (69, 17192), (84, 17255), (93, 17303), (94, 17312), (104, 17348),

Gene: BruceLethal_44 Start: 28884, Stop: 29186, Start Num: 34
Candidate Starts for BruceLethal_44:
(Start: 34 @28884 has 51 MA's),

Gene: Brushbloom_1 Start: 40, Stop: 372, Start Num: 35
Candidate Starts for Brushbloom_1:
(22, 7), (25, 13), (Start: 35 @40 has 60 MA's), (51, 109), (54, 118), (73, 211), (89, 283), (98, 328), (99, 337), (103, 352),

Gene: Budski_1 Start: 39, Stop: 371, Start Num: 35
Candidate Starts for Budski_1:
(23, 9), (26, 15), (Start: 35 @39 has 60 MA's), (54, 117), (58, 141), (78, 234), (89, 282), (95, 318), (103, 351),

Gene: Bullzi2019_26 Start: 16770, Stop: 17069, Start Num: 40
Candidate Starts for Bullzi2019_26:
(18, 16668), (Start: 40 @16770 has 146 MA's), (68, 16899), (69, 16902), (84, 16965), (93, 17013), (94, 17022),

Gene: Burgy_25 Start: 17080, Stop: 17379, Start Num: 40
Candidate Starts for Burgy_25:
(18, 16978), (Start: 40 @17080 has 146 MA's), (68, 17209), (69, 17212), (84, 17275), (93, 17323), (94, 17332), (104, 17368),

Gene: BurtonThePup_25 Start: 17072, Stop: 17371, Start Num: 40
Candidate Starts for BurtonThePup_25:

(Start: 40 @17072 has 146 MA's), (68, 17201), (69, 17204), (84, 17267), (93, 17315), (94, 17324), (104, 17360),

Gene: CallinAllBarbz_64 Start: 40753, Stop: 41040, Start Num: 38
Candidate Starts for CallinAllBarbz_64:
(Start: 38 @40753 has 5 MA's),

Gene: CarefulCloud_25 Start: 14576, Stop: 14851, Start Num: 49
Candidate Starts for CarefulCloud_25:
(11, 14336), (28, 14504), (Start: 49 @14576 has 2 MA's), (67, 14651), (92, 14777),

Gene: Cassini_93 Start: 51244, Stop: 51549, Start Num: 34
Candidate Starts for Cassini_93:
(Start: 34 @51244 has 51 MA's), (85, 51448),

Gene: Cayde6_25 Start: 17015, Stop: 17314, Start Num: 40
Candidate Starts for Cayde6_25:
(18, 16913), (Start: 40 @17015 has 146 MA's), (68, 17144), (69, 17147), (84, 17210), (93, 17258), (94, 17267), (104, 17303),

Gene: Cazares_25 Start: 16542, Stop: 16841, Start Num: 40
Candidate Starts for Cazares_25:
(18, 16440), (Start: 40 @16542 has 146 MA's), (68, 16671), (69, 16674), (84, 16737), (93, 16785), (94, 16794),

Gene: Charbie_25 Start: 17055, Stop: 17354, Start Num: 40
Candidate Starts for Charbie_25:
(18, 16953), (Start: 40 @17055 has 146 MA's), (68, 17184), (69, 17187), (84, 17250), (93, 17298), (94, 17307), (104, 17343),

Gene: Chatham_25 Start: 16989, Stop: 17288, Start Num: 40
Candidate Starts for Chatham_25:
(Start: 40 @16989 has 146 MA's), (68, 17118), (69, 17121), (84, 17184), (93, 17232), (94, 17241), (104, 17277),

Gene: Che9d_1 Start: 48, Stop: 380, Start Num: 35
Candidate Starts for Che9d_1:
(24, 21), (Start: 35 @48 has 60 MA's), (54, 126), (60, 153), (78, 243), (86, 273), (89, 291), (98, 336), (103, 360),

Gene: CheeseTouch_1 Start: 39, Stop: 371, Start Num: 35
Candidate Starts for CheeseTouch_1:
(23, 9), (26, 15), (Start: 35 @39 has 60 MA's), (54, 117), (58, 141), (78, 234), (89, 282), (95, 318), (103, 351),

Gene: Cheesecake_25 Start: 17080, Stop: 17379, Start Num: 40
Candidate Starts for Cheesecake_25:
(18, 16978), (Start: 40 @17080 has 146 MA's), (68, 17209), (69, 17212), (84, 17275), (93, 17323), (94, 17332), (104, 17368),

Gene: ChickenDinner_1 Start: 42, Stop: 374, Start Num: 35
Candidate Starts for ChickenDinner_1:

(23, 9), (27, 15), (Start: 35 @42 has 60 MA's), (54, 120), (73, 213), (78, 237), (89, 285), (99, 339), (103, 354),

Gene: Ciel_25 Start: 17072, Stop: 17371, Start Num: 40
Candidate Starts for Ciel_25:
(Start: 40 @17072 has 146 MA's), (68, 17201), (69, 17204), (84, 17267), (93, 17315), (94, 17324), (104, 17360),

Gene: Clownery_25 Start: 16668, Stop: 16967, Start Num: 40
Candidate Starts for Clownery_25:
(18, 16566), (Start: 40 @16668 has 146 MA's), (68, 16797), (69, 16800), (84, 16863), (93, 16911), (94, 16920),

Gene: Coeur_26 Start: 15840, Stop: 16118, Start Num: 46
Candidate Starts for Coeur_26:
(8, 15516), (16, 15687), (37, 15807), (Start: 46 @15840 has 2 MA's), (63, 15912), (64, 15915), (87, 16020), (90, 16044),

Gene: Concrete_25 Start: 17059, Stop: 17358, Start Num: 40
Candidate Starts for Concrete_25:
(18, 16957), (Start: 40 @17059 has 146 MA's), (68, 17188), (69, 17191), (84, 17254), (93, 17302), (94, 17311), (104, 17347),

Gene: Cornucopia_1 Start: 41, Stop: 373, Start Num: 35
Candidate Starts for Cornucopia_1:
(24, 11), (Start: 35 @41 has 60 MA's), (47, 86), (54, 119), (71, 200), (78, 236), (89, 284), (98, 329), (99, 338), (103, 353),

Gene: Cota_45 Start: 29185, Stop: 29487, Start Num: 34
Candidate Starts for Cota_45:
(Start: 33 @29182 has 4 MA's), (Start: 34 @29185 has 51 MA's), (101, 29473),

Gene: CyranoPS_26 Start: 14576, Stop: 14851, Start Num: 49
Candidate Starts for CyranoPS_26:
(28, 14504), (Start: 49 @14576 has 2 MA's), (67, 14651), (92, 14777),

Gene: DaftyDuck_25 Start: 17012, Stop: 17311, Start Num: 40
Candidate Starts for DaftyDuck_25:
(18, 16910), (Start: 40 @17012 has 146 MA's), (68, 17141), (69, 17144), (84, 17207), (93, 17255), (94, 17264),

Gene: Danimal_25 Start: 16991, Stop: 17290, Start Num: 40
Candidate Starts for Danimal_25:
(18, 16889), (Start: 40 @16991 has 146 MA's), (68, 17120), (69, 17123), (84, 17186), (93, 17234), (94, 17243), (104, 17279),

Gene: Danno_25 Start: 17079, Stop: 17378, Start Num: 40
Candidate Starts for Danno_25:
(18, 16977), (Start: 40 @17079 has 146 MA's), (68, 17208), (69, 17211), (84, 17274), (93, 17322), (94, 17331), (104, 17367),

Gene: Demsculpinboyz_1 Start: 38, Stop: 370, Start Num: 35
Candidate Starts for Demsculpinboyz_1:

(24, 11), (Start: 35 @38 has 60 MA's), (54, 116), (60, 143), (78, 233), (86, 263), (89, 281), (98, 326), (103, 350),

Gene: DirtPie_25 Start: 17105, Stop: 17404, Start Num: 40
Candidate Starts for DirtPie_25:
(18, 17003), (Start: 40 @17105 has 146 MA's), (68, 17234), (69, 17237), (84, 17300), (93, 17348), (94, 17357),

Gene: DocMcStuffins_1 Start: 42, Stop: 374, Start Num: 35
Candidate Starts for DocMcStuffins_1:
(23, 9), (27, 15), (Start: 35 @42 has 60 MA's), (54, 120), (73, 213), (78, 237), (89, 285), (99, 339), (103, 354),

Gene: Dongwon_25 Start: 16989, Stop: 17288, Start Num: 40
Candidate Starts for Dongwon_25:
(Start: 40 @16989 has 146 MA's), (68, 17118), (69, 17121), (84, 17184), (93, 17232), (94, 17241), (104, 17277),

Gene: Dooby_25 Start: 16989, Stop: 17288, Start Num: 40
Candidate Starts for Dooby_25:
(Start: 40 @16989 has 146 MA's), (68, 17118), (69, 17121), (84, 17184), (93, 17232), (94, 17241), (104, 17277),

Gene: Doomslug_1 Start: 40, Stop: 372, Start Num: 35
Candidate Starts for Doomslug_1:
(22, 7), (25, 13), (Start: 35 @40 has 60 MA's), (51, 109), (54, 118), (73, 211), (89, 283), (98, 328), (99, 337), (103, 352),

Gene: Doucette_61 Start: 37032, Stop: 37370, Start Num: 34
Candidate Starts for Doucette_61:
(29, 37014), (Start: 34 @37032 has 51 MA's), (44, 37065), (62, 37140),

Gene: Douggie_25 Start: 17065, Stop: 17364, Start Num: 40
Candidate Starts for Douggie_25:
(18, 16963), (Start: 40 @17065 has 146 MA's), (68, 17194), (69, 17197), (84, 17260), (93, 17308), (94, 17317), (104, 17353),

Gene: DrParker_45 Start: 29378, Stop: 29680, Start Num: 34
Candidate Starts for DrParker_45:
(Start: 33 @29375 has 4 MA's), (Start: 34 @29378 has 51 MA's), (101, 29666),

Gene: Duggle_26 Start: 16989, Stop: 17288, Start Num: 40
Candidate Starts for Duggle_26:
(Start: 40 @16989 has 146 MA's), (68, 17118), (69, 17121), (84, 17184), (93, 17232), (94, 17241), (104, 17277),

Gene: E6_60 Start: 37670, Stop: 38008, Start Num: 34
Candidate Starts for E6_60:
(29, 37652), (Start: 34 @37670 has 51 MA's), (44, 37703), (62, 37778),

Gene: ELee24_24 Start: 16858, Stop: 17157, Start Num: 40
Candidate Starts for ELee24_24:

(18, 16756), (Start: 40 @16858 has 146 MA's), (68, 16987), (69, 16990), (84, 17053), (93, 17101), (94, 17110), (104, 17146),

Gene: Ecliptus_1 Start: 40, Stop: 372, Start Num: 35
Candidate Starts for Ecliptus_1:
(25, 13), (Start: 35 @40 has 60 MA's), (60, 145), (71, 199), (72, 208), (73, 211), (75, 220), (78, 235), (86, 265), (95, 319), (103, 352),

Gene: EdElric_25 Start: 16989, Stop: 17288, Start Num: 40
Candidate Starts for EdElric_25:
(18, 16887), (Start: 40 @16989 has 146 MA's), (68, 17118), (69, 17121), (84, 17184), (93, 17232), (94, 17241), (104, 17277),

Gene: Efeko_27 Start: 16867, Stop: 17157, Start Num: 40
Candidate Starts for Efeko_27:
(Start: 40 @16867 has 146 MA's), (68, 16996), (69, 16999), (84, 17062), (93, 17110),

Gene: Eightball_25 Start: 17066, Stop: 17365, Start Num: 40
Candidate Starts for Eightball_25:
(18, 16964), (Start: 40 @17066 has 146 MA's), (68, 17195), (69, 17198), (84, 17261), (93, 17309), (94, 17318), (104, 17354),

Gene: Ekko14_26 Start: 16744, Stop: 17043, Start Num: 40
Candidate Starts for Ekko14_26:
(18, 16642), (Start: 40 @16744 has 146 MA's), (68, 16873), (69, 16876), (84, 16939), (93, 16987), (94, 16996), (104, 17032),

Gene: Elfy_78 Start: 43714, Stop: 44013, Start Num: 38
Candidate Starts for Elfy_78:
(Start: 21 @43660 has 1 MA's), (Start: 38 @43714 has 5 MA's), (66, 43831), (68, 43852), (77, 43900),

Gene: Elspeth_26 Start: 16744, Stop: 17043, Start Num: 40
Candidate Starts for Elspeth_26:
(18, 16642), (Start: 40 @16744 has 146 MA's), (68, 16873), (69, 16876), (84, 16939), (93, 16987), (94, 16996), (104, 17032),

Gene: Emmaloid_1 Start: 41, Stop: 373, Start Num: 35
Candidate Starts for Emmaloid_1:
(24, 11), (Start: 35 @41 has 60 MA's), (54, 119), (73, 212), (78, 236), (89, 284), (99, 338), (103, 353),

Gene: Enochoraptor_43 Start: 29132, Stop: 29437, Start Num: 33
Candidate Starts for Enochoraptor_43:
(Start: 33 @29132 has 4 MA's), (Start: 34 @29135 has 51 MA's), (101, 29423),

Gene: Enoki_45 Start: 28982, Stop: 29284, Start Num: 34
Candidate Starts for Enoki_45:
(Start: 34 @28982 has 51 MA's), (101, 29270),

Gene: EpicDab_24 Start: 16340, Stop: 16612, Start Num: 50
Candidate Starts for EpicDab_24:
(22, 16259), (Start: 50 @16340 has 1 MA's), (55, 16370), (56, 16373), (79, 16478), (88, 16520), (90, 16532),

Gene: Erin_25 Start: 16987, Stop: 17286, Start Num: 40
Candidate Starts for Erin_25:
(Start: 40 @16987 has 146 MA's), (68, 17116), (69, 17119), (84, 17182), (93, 17230), (94, 17239), (104, 17275),

Gene: Flathead_1 Start: 40, Stop: 372, Start Num: 35
Candidate Starts for Flathead_1:
(22, 7), (25, 13), (Start: 35 @40 has 60 MA's), (51, 109), (54, 118), (73, 211), (89, 283), (98, 328), (99, 337), (103, 352),

Gene: Frankie_1 Start: 40, Stop: 372, Start Num: 35
Candidate Starts for Frankie_1:
(22, 7), (25, 13), (Start: 35 @40 has 60 MA's), (51, 109), (54, 118), (73, 211), (89, 283), (98, 328), (99, 337), (103, 352),

Gene: Frickyeah_1 Start: 39, Stop: 371, Start Num: 35
Candidate Starts for Frickyeah_1:
(23, 9), (26, 15), (31, 27), (Start: 35 @39 has 60 MA's), (58, 141), (60, 144), (78, 234), (86, 264), (89, 282), (103, 351),

Gene: Fryberger_144 Start: 66223, Stop: 66480, Start Num: 41
Candidate Starts for Fryberger_144:
(Start: 41 @66223 has 5 MA's), (65, 66319), (68, 66343), (74, 66373), (83, 66406),

Gene: G4_69 Start: 38158, Stop: 38496, Start Num: 34
Candidate Starts for G4_69:
(29, 38140), (Start: 34 @38158 has 51 MA's), (44, 38191), (62, 38266),

Gene: GMA5_27 Start: 17062, Stop: 17340, Start Num: 46
Candidate Starts for GMA5_27:
(10, 16792), (17, 16912), (Start: 46 @17062 has 2 MA's), (64, 17137), (90, 17266),

Gene: Gabbspett_25 Start: 17109, Stop: 17408, Start Num: 40
Candidate Starts for Gabbspett_25:
(18, 17007), (Start: 40 @17109 has 146 MA's), (68, 17238), (69, 17241), (84, 17304), (93, 17352), (94, 17361), (104, 17397),

Gene: Gardevoir_25 Start: 17023, Stop: 17322, Start Num: 40
Candidate Starts for Gardevoir_25:
(Start: 40 @17023 has 146 MA's), (68, 17152), (69, 17155), (84, 17218), (93, 17266), (94, 17275), (104, 17311),

Gene: Getalong_1 Start: 39, Stop: 371, Start Num: 35
Candidate Starts for Getalong_1:
(23, 9), (26, 15), (31, 27), (Start: 35 @39 has 60 MA's), (58, 141), (60, 144), (78, 234), (86, 264), (89, 282), (103, 351),

Gene: Gillker_25 Start: 16988, Stop: 17287, Start Num: 40
Candidate Starts for Gillker_25:
(18, 16886), (Start: 40 @16988 has 146 MA's), (68, 17117), (69, 17120), (84, 17183), (93, 17231), (94, 17240), (104, 17276),

Gene: Girafales_1 Start: 41, Stop: 373, Start Num: 35

Candidate Starts for Girafales_1:
(24, 11), (Start: 35 @41 has 60 MA's), (47, 86), (51, 110), (54, 119), (71, 200), (78, 236), (89, 284), (98, 329), (99, 338), (103, 353),

Gene: Godfather_25 Start: 17079, Stop: 17378, Start Num: 40
Candidate Starts for Godfather_25:
(18, 16977), (Start: 40 @17079 has 146 MA's), (68, 17208), (69, 17211), (84, 17274), (93, 17322), (94, 17331), (104, 17367),

Gene: GoldenBlanche_25 Start: 16989, Stop: 17288, Start Num: 40
Candidate Starts for GoldenBlanche_25:
(Start: 40 @16989 has 146 MA's), (68, 17118), (69, 17121), (84, 17184), (93, 17232), (94, 17241), (104, 17277),

Gene: Goobery_25 Start: 17072, Stop: 17371, Start Num: 40
Candidate Starts for Goobery_25:
(Start: 40 @17072 has 146 MA's), (68, 17201), (69, 17204), (84, 17267), (93, 17315), (94, 17324), (104, 17360),

Gene: Goulash_25 Start: 16989, Stop: 17288, Start Num: 40
Candidate Starts for Goulash_25:
(Start: 40 @16989 has 146 MA's), (68, 17118), (69, 17121), (84, 17184), (93, 17232), (94, 17241), (104, 17277),

Gene: Grayscar_25 Start: 17080, Stop: 17379, Start Num: 40
Candidate Starts for Grayscar_25:
(18, 16978), (Start: 40 @17080 has 146 MA's), (68, 17209), (69, 17212), (84, 17275), (93, 17323), (94, 17332), (104, 17368),

Gene: GrimEater_64 Start: 41105, Stop: 41392, Start Num: 38
Candidate Starts for GrimEater_64:
(20, 41039), (Start: 38 @41105 has 5 MA's), (74, 41267), (77, 41285),

Gene: Guey18_149 Start: 67884, Stop: 68141, Start Num: 41
Candidate Starts for Guey18_149:
(Start: 41 @67884 has 5 MA's), (65, 67980), (68, 68004), (74, 68034), (83, 68067),

Gene: HarperAnne_26 Start: 16743, Stop: 17042, Start Num: 40
Candidate Starts for HarperAnne_26:
(18, 16641), (Start: 40 @16743 has 146 MA's), (68, 16872), (69, 16875), (84, 16938), (93, 16986), (94, 16995), (104, 17031),

Gene: HeadMave_25 Start: 17075, Stop: 17374, Start Num: 40
Candidate Starts for HeadMave_25:
(18, 16973), (Start: 40 @17075 has 146 MA's), (68, 17204), (69, 17207), (84, 17270), (93, 17318), (94, 17327), (104, 17363),

Gene: Hegedechwinu_1 Start: 40, Stop: 372, Start Num: 35
Candidate Starts for Hegedechwinu_1:
(22, 7), (25, 13), (Start: 35 @40 has 60 MA's), (51, 109), (54, 118), (73, 211), (89, 283), (98, 328), (99, 337), (103, 352),

Gene: Hernandez44_25 Start: 17104, Stop: 17403, Start Num: 40

Candidate Starts for Hernandez44_25:
(Start: 40 @17104 has 146 MA's), (68, 17233), (69, 17236), (84, 17299), (93, 17347), (94, 17356), (104, 17392),

Gene: Holliday_1 Start: 39, Stop: 371, Start Num: 35
Candidate Starts for Holliday_1:
(23, 9), (26, 15), (Start: 35 @39 has 60 MA's), (54, 117), (58, 141), (78, 234), (89, 282), (95, 318), (103, 351),

Gene: Horacetta_25 Start: 16989, Stop: 17288, Start Num: 40
Candidate Starts for Horacetta_25:
(Start: 40 @16989 has 146 MA's), (68, 17118), (69, 17121), (84, 17184), (93, 17232), (94, 17241), (104, 17277),

Gene: Horus_1 Start: 39, Stop: 371, Start Num: 35
Candidate Starts for Horus_1:
(23, 9), (26, 15), (31, 27), (Start: 35 @39 has 60 MA's), (54, 117), (58, 141), (78, 234), (86, 264), (89, 282), (103, 351),

Gene: Hulk_25 Start: 17022, Stop: 17321, Start Num: 40
Candidate Starts for Hulk_25:
(4, 16653), (7, 16662), (18, 16920), (Start: 40 @17022 has 146 MA's), (68, 17151), (69, 17154), (84, 17217), (93, 17265), (94, 17274), (104, 17310),

Gene: IzzyPants24_25 Start: 16598, Stop: 16897, Start Num: 40
Candidate Starts for IzzyPants24_25:
(18, 16496), (Start: 40 @16598 has 146 MA's), (68, 16727), (69, 16730), (84, 16793), (93, 16841), (94, 16850),

Gene: JRok_25 Start: 17009, Stop: 17308, Start Num: 40
Candidate Starts for JRok_25:
(1, 16535), (2, 16607), (18, 16907), (Start: 40 @17009 has 146 MA's), (68, 17138), (69, 17141), (84, 17204), (93, 17252), (94, 17261), (104, 17297),

Gene: Jabbawokkie_2 Start: 561, Stop: 893, Start Num: 35
Candidate Starts for Jabbawokkie_2:
(22, 528), (Start: 35 @561 has 60 MA's), (78, 756), (86, 786), (89, 804), (98, 849), (103, 873),

Gene: Jahseh_25 Start: 16995, Stop: 17294, Start Num: 40
Candidate Starts for Jahseh_25:
(18, 16893), (Start: 40 @16995 has 146 MA's), (68, 17124), (69, 17127), (84, 17190), (93, 17238), (94, 17247), (104, 17283),

Gene: JaimeB_25 Start: 17072, Stop: 17371, Start Num: 40
Candidate Starts for JaimeB_25:
(Start: 40 @17072 has 146 MA's), (68, 17201), (69, 17204), (84, 17267), (93, 17315), (94, 17324), (104, 17360),

Gene: Jankie_65 Start: 41285, Stop: 41572, Start Num: 38
Candidate Starts for Jankie_65:
(20, 41219), (Start: 38 @41285 has 5 MA's), (74, 41447), (77, 41465),

Gene: Jannah_25 Start: 17055, Stop: 17354, Start Num: 40

Candidate Starts for Jannah_25:
(Start: 40 @17055 has 146 MA's), (68, 17184), (69, 17187), (84, 17250), (93, 17298), (94, 17307), (104, 17343),

Gene: Jella_27 Start: 17090, Stop: 17389, Start Num: 40
Candidate Starts for Jella_27:
(Start: 40 @17090 has 146 MA's), (68, 17219), (69, 17222), (84, 17285), (93, 17333), (94, 17342), (104, 17378),

Gene: Jerky_25 Start: 17154, Stop: 17453, Start Num: 40
Candidate Starts for Jerky_25:
(18, 17052), (Start: 40 @17154 has 146 MA's), (68, 17283), (69, 17286), (84, 17349), (93, 17397), (94, 17406), (104, 17442),

Gene: JoBros_25 Start: 16990, Stop: 17289, Start Num: 40
Candidate Starts for JoBros_25:
(Start: 40 @16990 has 146 MA's), (68, 17119), (69, 17122), (84, 17185), (93, 17233), (94, 17242), (104, 17278),

Gene: Job42_1 Start: 41, Stop: 373, Start Num: 35
Candidate Starts for Job42_1:
(24, 11), (Start: 35 @41 has 60 MA's), (54, 119), (73, 212), (89, 284), (98, 329), (99, 338), (103, 353),

Gene: JooneeDee_25 Start: 17094, Stop: 17393, Start Num: 40
Candidate Starts for JooneeDee_25:
(18, 16992), (Start: 40 @17094 has 146 MA's), (68, 17223), (69, 17226), (84, 17289), (93, 17337), (94, 17346), (104, 17382),

Gene: Josuke_25 Start: 17080, Stop: 17379, Start Num: 40
Candidate Starts for Josuke_25:
(18, 16978), (Start: 40 @17080 has 146 MA's), (68, 17209), (69, 17212), (84, 17275), (93, 17323), (94, 17332), (104, 17368),

Gene: Juice456_1 Start: 41, Stop: 373, Start Num: 35
Candidate Starts for Juice456_1:
(24, 11), (Start: 35 @41 has 60 MA's), (54, 119), (73, 212), (89, 284), (98, 329), (99, 338), (103, 353),

Gene: Kaijohn_25 Start: 17052, Stop: 17351, Start Num: 40
Candidate Starts for Kaijohn_25:
(18, 16950), (Start: 40 @17052 has 146 MA's), (68, 17181), (69, 17184), (84, 17247), (93, 17295), (94, 17304), (104, 17340),

Gene: Kamaru_1 Start: 39, Stop: 371, Start Num: 35
Candidate Starts for Kamaru_1:
(23, 9), (26, 15), (Start: 35 @39 has 60 MA's), (54, 117), (58, 141), (78, 234), (89, 282), (95, 318), (103, 351),

Gene: KayPaulus_25 Start: 17082, Stop: 17381, Start Num: 40
Candidate Starts for KayPaulus_25:
(18, 16980), (Start: 40 @17082 has 146 MA's), (68, 17211), (69, 17214), (84, 17277), (93, 17325), (94, 17334), (104, 17370),

Gene: Keelan_144 Start: 66560, Stop: 66817, Start Num: 41

Candidate Starts for Keelan_144:
(Start: 41 @66560 has 5 MA's), (65, 66656), (68, 66680), (74, 66710), (83, 66743), (97, 66803),

Gene: Keiki_45 Start: 28972, Stop: 29277, Start Num: 33
Candidate Starts for Keiki_45:
(Start: 33 @28972 has 4 MA's), (Start: 34 @28975 has 51 MA's), (58, 29071), (101, 29263),

Gene: Kenna_1 Start: 39, Stop: 371, Start Num: 35
Candidate Starts for Kenna_1:
(23, 9), (26, 15), (31, 27), (Start: 35 @39 has 60 MA's), (54, 117), (58, 141), (60, 144), (78, 234), (86, 264), (89, 282), (103, 351),

Gene: Kevanna_25 Start: 17068, Stop: 17367, Start Num: 40
Candidate Starts for Kevanna_25:
(18, 16966), (Start: 40 @17068 has 146 MA's), (68, 17197), (69, 17200), (84, 17263), (93, 17311), (94, 17320), (104, 17356),

Gene: KillerTomato_25 Start: 17069, Stop: 17368, Start Num: 40
Candidate Starts for KillerTomato_25:
(18, 16967), (Start: 40 @17069 has 146 MA's), (68, 17198), (69, 17201), (84, 17264), (93, 17312), (94, 17321), (104, 17357),

Gene: Kimberlium_1 Start: 41, Stop: 373, Start Num: 35
Candidate Starts for Kimberlium_1:
(24, 11), (Start: 35 @41 has 60 MA's), (54, 119), (73, 212), (89, 284), (98, 329), (99, 338), (103, 353),

Gene: Kojax4_25 Start: 17079, Stop: 17378, Start Num: 40
Candidate Starts for Kojax4_25:
(18, 16977), (Start: 40 @17079 has 146 MA's), (68, 17208), (69, 17211), (84, 17274), (93, 17322), (94, 17331), (104, 17367),

Gene: Kubed_44 Start: 29097, Stop: 29399, Start Num: 34
Candidate Starts for Kubed_44:
(Start: 34 @29097 has 51 MA's), (101, 29385),

Gene: KyriosFaba_25 Start: 16989, Stop: 17288, Start Num: 40
Candidate Starts for KyriosFaba_25:
(18, 16887), (Start: 40 @16989 has 146 MA's), (68, 17118), (69, 17121), (84, 17184), (93, 17232), (94, 17241), (104, 17277),

Gene: Lauchelly_45 Start: 29153, Stop: 29455, Start Num: 34
Candidate Starts for Lauchelly_45:
(Start: 34 @29153 has 51 MA's), (101, 29441),

Gene: LaviMo_25 Start: 17080, Stop: 17379, Start Num: 40
Candidate Starts for LaviMo_25:
(18, 16978), (Start: 40 @17080 has 146 MA's), (68, 17209), (69, 17212), (84, 17275), (93, 17323), (94, 17332), (104, 17368),

Gene: Leafy_25 Start: 17034, Stop: 17333, Start Num: 40
Candidate Starts for Leafy_25:
(18, 16932), (Start: 40 @17034 has 146 MA's), (68, 17163), (69, 17166), (84, 17229), (93, 17277), (94, 17286), (104, 17322),

Gene: LemonPepper_25 Start: 16989, Stop: 17288, Start Num: 40
Candidate Starts for LemonPepper_25:
(Start: 40 @16989 has 146 MA's), (68, 17118), (69, 17121), (84, 17184), (93, 17232), (94, 17241), (104, 17277),

Gene: Leroy_1 Start: 39, Stop: 371, Start Num: 35
Candidate Starts for Leroy_1:
(23, 9), (26, 15), (31, 27), (Start: 35 @39 has 60 MA's), (58, 141), (60, 144), (78, 234), (86, 264), (89, 282), (103, 351),

Gene: Leviosa_44 Start: 29089, Stop: 29391, Start Num: 34
Candidate Starts for Leviosa_44:
(Start: 34 @29089 has 51 MA's),

Gene: LilBandit_45 Start: 28677, Stop: 28979, Start Num: 34
Candidate Starts for LilBandit_45:
(Start: 34 @28677 has 51 MA's), (101, 28965),

Gene: LionelHutz_25 Start: 17075, Stop: 17374, Start Num: 40
Candidate Starts for LionelHutz_25:
(18, 16973), (Start: 40 @17075 has 146 MA's), (68, 17204), (69, 17207), (84, 17270), (93, 17318), (94, 17327), (104, 17363),

Gene: LisoBros_64 Start: 44198, Stop: 44542, Start Num: 21
Candidate Starts for LisoBros_64:
(Start: 21 @44198 has 1 MA's), (39, 44255), (74, 44417),

Gene: LitninMcQueen_1 Start: 39, Stop: 371, Start Num: 35
Candidate Starts for LitninMcQueen_1:
(23, 9), (26, 15), (Start: 35 @39 has 60 MA's), (54, 117), (58, 141), (78, 234), (89, 282), (95, 318), (103, 351),

Gene: LittleShirley_1 Start: 41, Stop: 373, Start Num: 35
Candidate Starts for LittleShirley_1:
(24, 11), (Start: 35 @41 has 60 MA's), (54, 119), (73, 212), (78, 236), (89, 284), (99, 338), (103, 353),

Gene: Livingwater_25 Start: 17077, Stop: 17376, Start Num: 40
Candidate Starts for Livingwater_25:
(18, 16975), (Start: 40 @17077 has 146 MA's), (68, 17206), (69, 17209), (84, 17272), (93, 17320), (94, 17329), (104, 17365),

Gene: Loca_25 Start: 17102, Stop: 17401, Start Num: 40
Candidate Starts for Loca_25:
(18, 17000), (Start: 40 @17102 has 146 MA's), (68, 17231), (69, 17234), (84, 17297), (93, 17345), (94, 17354), (104, 17390),

Gene: Lola20_25 Start: 17015, Stop: 17314, Start Num: 40
Candidate Starts for Lola20_25:
(18, 16913), (Start: 40 @17015 has 146 MA's), (68, 17144), (69, 17147), (84, 17210), (93, 17258), (94, 17267), (104, 17303),

Gene: LordVader_1 Start: 42, Stop: 374, Start Num: 35

Candidate Starts for LordVader_1:
(23, 9), (27, 15), (Start: 35 @42 has 60 MA's), (51, 111), (54, 120), (73, 213), (89, 285), (98, 330), (99, 339), (103, 354),

Gene: Lunatic_25 Start: 16542, Stop: 16841, Start Num: 40
Candidate Starts for Lunatic_25:
(18, 16440), (Start: 40 @16542 has 146 MA's), (68, 16671), (69, 16674), (84, 16737), (93, 16785), (94, 16794),

Gene: Lutum_1 Start: 39, Stop: 371, Start Num: 35
Candidate Starts for Lutum_1:
(23, 9), (26, 15), (31, 27), (Start: 35 @39 has 60 MA's), (54, 117), (58, 141), (60, 144), (78, 234), (86, 264), (89, 282), (103, 351),

Gene: Luxx_25 Start: 17090, Stop: 17389, Start Num: 40
Candidate Starts for Luxx_25:
(Start: 40 @17090 has 146 MA's), (68, 17219), (69, 17222), (84, 17285), (93, 17333), (94, 17342), (104, 17378),

Gene: MEAK_44 Start: 28859, Stop: 29161, Start Num: 34
Candidate Starts for MEAK_44:
(Start: 33 @28856 has 4 MA's), (Start: 34 @28859 has 51 MA's),

Gene: Madebyisha_25 Start: 17154, Stop: 17453, Start Num: 40
Candidate Starts for Madebyisha_25:
(18, 17052), (Start: 40 @17154 has 146 MA's), (68, 17283), (69, 17286), (84, 17349), (93, 17397), (94, 17406), (104, 17442),

Gene: Majesty_25 Start: 17071, Stop: 17370, Start Num: 40
Candidate Starts for Majesty_25:
(Start: 40 @17071 has 146 MA's), (68, 17200), (69, 17203), (84, 17266), (93, 17314), (94, 17323), (104, 17359),

Gene: Malisha_1 Start: 39, Stop: 371, Start Num: 35
Candidate Starts for Malisha_1:
(23, 9), (26, 15), (Start: 35 @39 has 60 MA's), (54, 117), (72, 207), (78, 234), (86, 264), (89, 282), (95, 318), (103, 351),

Gene: ManAs_25 Start: 16989, Stop: 17288, Start Num: 40
Candidate Starts for ManAs_25:
(Start: 40 @16989 has 146 MA's), (68, 17118), (69, 17121), (84, 17184), (93, 17232), (94, 17241), (104, 17277),

Gene: Maneater_25 Start: 17054, Stop: 17353, Start Num: 40
Candidate Starts for Maneater_25:
(18, 16952), (Start: 40 @17054 has 146 MA's), (68, 17183), (69, 17186), (84, 17249), (93, 17297), (94, 17306), (104, 17342),

Gene: Marichuy_26 Start: 17105, Stop: 17404, Start Num: 40
Candidate Starts for Marichuy_26:
(18, 17003), (Start: 40 @17105 has 146 MA's), (68, 17234), (69, 17237), (84, 17300), (93, 17348), (94, 17357),

Gene: MasterPitts_25 Start: 17012, Stop: 17311, Start Num: 40
Candidate Starts for MasterPitts_25:
(18, 16910), (Start: 40 @17012 has 146 MA's), (68, 17141), (69, 17144), (84, 17207), (93, 17255), (94, 17264),

Gene: MauiIvory_24 Start: 16465, Stop: 16764, Start Num: 40
Candidate Starts for MauiIvory_24:
(18, 16363), (Start: 40 @16465 has 146 MA's), (68, 16594), (69, 16597), (84, 16660), (93, 16708), (94, 16717),

Gene: McShie_25 Start: 17061, Stop: 17360, Start Num: 40
Candidate Starts for McShie_25:
(1, 16587), (2, 16659), (18, 16959), (Start: 40 @17061 has 146 MA's), (68, 17190), (69, 17193), (84, 17256), (93, 17304), (94, 17313), (104, 17349),

Gene: MelBee03_25 Start: 17068, Stop: 17367, Start Num: 40
Candidate Starts for MelBee03_25:
(18, 16966), (Start: 40 @17068 has 146 MA's), (68, 17197), (69, 17200), (84, 17263), (93, 17311), (94, 17320), (104, 17356),

Gene: Miaurora_25 Start: 16659, Stop: 16958, Start Num: 40
Candidate Starts for Miaurora_25:
(18, 16557), (Start: 40 @16659 has 146 MA's), (68, 16788), (69, 16791), (84, 16854), (93, 16902), (94, 16911),

Gene: Minima_25 Start: 16989, Stop: 17288, Start Num: 40
Candidate Starts for Minima_25:
(Start: 40 @16989 has 146 MA's), (68, 17118), (69, 17121), (84, 17184), (93, 17232), (94, 17241), (104, 17277),

Gene: MirimarMandM_25 Start: 17137, Stop: 17436, Start Num: 40
Candidate Starts for MirimarMandM_25:
(18, 17035), (Start: 40 @17137 has 146 MA's), (68, 17266), (69, 17269), (84, 17332), (93, 17380), (94, 17389), (104, 17425),

Gene: Misha28_1 Start: 42, Stop: 374, Start Num: 35
Candidate Starts for Misha28_1:
(23, 9), (27, 15), (Start: 35 @42 has 60 MA's), (54, 120), (73, 213), (78, 237), (89, 285), (99, 339), (103, 354),

Gene: Mova_1 Start: 41, Stop: 373, Start Num: 35
Candidate Starts for Mova_1:
(24, 11), (Start: 35 @41 has 60 MA's), (54, 119), (73, 212), (78, 236), (89, 284), (99, 338), (103, 353),

Gene: Moyashi_44 Start: 28889, Stop: 29191, Start Num: 34
Candidate Starts for Moyashi_44:
(Start: 34 @28889 has 51 MA's),

Gene: Mozy_1 Start: 40, Stop: 372, Start Num: 35
Candidate Starts for Mozy_1:
(22, 7), (25, 13), (Start: 35 @40 has 60 MA's), (47, 85), (51, 109), (54, 118), (71, 199), (78, 235), (89, 283), (98, 328), (99, 337), (103, 352),

Gene: MrAK_46 Start: 29362, Stop: 29664, Start Num: 34
Candidate Starts for MrAK_46:
(Start: 34 @29362 has 51 MA's),

Gene: MrGreen_25 Start: 17048, Stop: 17347, Start Num: 40
Candidate Starts for MrGreen_25:
(18, 16946), (Start: 40 @17048 has 146 MA's), (68, 17177), (69, 17180), (84, 17243), (93, 17291), (94, 17300), (104, 17336),

Gene: MrSmee_79 Start: 40738, Stop: 41043, Start Num: 34
Candidate Starts for MrSmee_79:
(Start: 34 @40738 has 51 MA's), (55, 40819), (62, 40846), (91, 40978), (92, 40981), (102, 41020),

Gene: MulchExplorer_1 Start: 41, Stop: 373, Start Num: 35
Candidate Starts for MulchExplorer_1:
(24, 11), (Start: 35 @41 has 60 MA's), (54, 119), (73, 212), (89, 284), (98, 329), (99, 338), (103, 353),

Gene: Myram_25 Start: 16989, Stop: 17288, Start Num: 40
Candidate Starts for Myram_25:
(Start: 40 @16989 has 146 MA's), (68, 17118), (69, 17121), (84, 17184), (93, 17232), (94, 17241), (104, 17277),

Gene: Naby_26 Start: 17079, Stop: 17381, Start Num: 40
Candidate Starts for Naby_26:
(5, 16722), (18, 16980), (Start: 40 @17079 has 146 MA's), (68, 17208), (84, 17274), (93, 17322), (94, 17331),

Gene: Namsahir_27 Start: 16803, Stop: 17102, Start Num: 40
Candidate Starts for Namsahir_27:
(18, 16701), (Start: 40 @16803 has 146 MA's), (68, 16932), (69, 16935), (84, 16998), (93, 17046), (94, 17055),

Gene: NeumannU_25 Start: 17072, Stop: 17371, Start Num: 40
Candidate Starts for NeumannU_25:
(Start: 40 @17072 has 146 MA's), (68, 17201), (69, 17204), (84, 17267), (93, 17315), (94, 17324), (104, 17360),

Gene: Niffler_25 Start: 16650, Stop: 16949, Start Num: 40
Candidate Starts for Niffler_25:
(18, 16548), (Start: 40 @16650 has 146 MA's), (68, 16779), (69, 16782), (84, 16845), (93, 16893), (94, 16902),

Gene: Nobel_25 Start: 16676, Stop: 16975, Start Num: 40
Candidate Starts for Nobel_25:
(18, 16574), (Start: 40 @16676 has 146 MA's), (68, 16805), (69, 16808), (84, 16871), (93, 16919), (94, 16928),

Gene: Noelani_25 Start: 16975, Stop: 17274, Start Num: 40
Candidate Starts for Noelani_25:
(9, 16711), (18, 16873), (19, 16897), (Start: 40 @16975 has 146 MA's), (69, 17107), (84, 17170), (93, 17218), (94, 17227), (104, 17263),

Gene: ODay_1 Start: 39, Stop: 371, Start Num: 35

Candidate Starts for ODay_1:
(23, 9), (26, 15), (Start: 35 @39 has 60 MA's), (54, 117), (58, 141), (78, 234), (89, 282), (95, 318), (103, 351),

Gene: Oaklynn_25 Start: 17012, Stop: 17311, Start Num: 40
Candidate Starts for Oaklynn_25:
(3, 16631), (6, 16640), (18, 16910), (Start: 40 @17012 has 146 MA's), (68, 17141), (69, 17144), (84, 17207), (93, 17255), (94, 17264), (104, 17300),

Gene: Octopus_25 Start: 16995, Stop: 17294, Start Num: 40
Candidate Starts for Octopus_25:
(Start: 40 @16995 has 146 MA's), (68, 17124), (69, 17127), (84, 17190), (93, 17238), (94, 17247), (104, 17283),

Gene: OdetoJoy_25 Start: 17154, Stop: 17453, Start Num: 40
Candidate Starts for OdetoJoy_25:
(18, 17052), (Start: 40 @17154 has 146 MA's), (68, 17283), (69, 17286), (84, 17349), (93, 17397), (94, 17406), (104, 17442),

Gene: Ogopogo_2 Start: 299, Stop: 631, Start Num: 35
Candidate Starts for Ogopogo_2:
(Start: 35 @299 has 60 MA's), (54, 377), (78, 494), (86, 524), (89, 542), (98, 587), (103, 611),

Gene: Otwor_25 Start: 17081, Stop: 17380, Start Num: 40
Candidate Starts for Otwor_25:
(18, 16979), (Start: 40 @17081 has 146 MA's), (68, 17210), (69, 17213), (84, 17276), (93, 17324), (94, 17333), (104, 17369),

Gene: Ouroboros_45 Start: 29142, Stop: 29444, Start Num: 34
Candidate Starts for Ouroboros_45:
(Start: 34 @29142 has 51 MA's), (58, 29238), (101, 29430),

Gene: Owens_25 Start: 17072, Stop: 17371, Start Num: 40
Candidate Starts for Owens_25:
(Start: 40 @17072 has 146 MA's), (68, 17201), (69, 17204), (84, 17267), (93, 17315), (94, 17324), (104, 17360),

Gene: P1.1_45 Start: 28981, Stop: 29286, Start Num: 33
Candidate Starts for P1.1_45:
(30, 28969), (Start: 33 @28981 has 4 MA's), (Start: 34 @28984 has 51 MA's), (101, 29272),

Gene: P100.1_47 Start: 29248, Stop: 29550, Start Num: 34
Candidate Starts for P100.1_47:
(31, 29236), (Start: 34 @29248 has 51 MA's), (101, 29536),

Gene: P100A_45 Start: 29140, Stop: 29442, Start Num: 34
Candidate Starts for P100A_45:
(Start: 34 @29140 has 51 MA's), (101, 29428),

Gene: P100D_47 Start: 29142, Stop: 29444, Start Num: 34
Candidate Starts for P100D_47:
(Start: 34 @29142 has 51 MA's), (101, 29430),

Gene: P101A_47 Start: 29210, Stop: 29512, Start Num: 34
Candidate Starts for P101A_47:
(Start: 34 @29210 has 51 MA's),

Gene: P104A_45 Start: 29007, Stop: 29309, Start Num: 34
Candidate Starts for P104A_45:
(Start: 34 @29007 has 51 MA's), (101, 29295),

Gene: P104B_44 Start: 28966, Stop: 29268, Start Num: 34
Candidate Starts for P104B_44:
(Start: 34 @28966 has 51 MA's), (101, 29254),

Gene: P105_45 Start: 28838, Stop: 29140, Start Num: 34
Candidate Starts for P105_45:
(Start: 33 @28835 has 4 MA's), (Start: 34 @28838 has 51 MA's),

Gene: P106A_45 Start: 29190, Stop: 29492, Start Num: 34
Candidate Starts for P106A_45:
(31, 29178), (Start: 34 @29190 has 51 MA's), (101, 29478),

Gene: P106C_46 Start: 29277, Stop: 29579, Start Num: 34
Candidate Starts for P106C_46:
(31, 29265), (Start: 34 @29277 has 51 MA's), (101, 29565),

Gene: P106I_46 Start: 29106, Stop: 29408, Start Num: 34
Candidate Starts for P106I_46:
(31, 29094), (Start: 34 @29106 has 51 MA's), (101, 29394),

Gene: P106L_45 Start: 29277, Stop: 29579, Start Num: 34
Candidate Starts for P106L_45:
(31, 29265), (Start: 34 @29277 has 51 MA's), (101, 29565),

Gene: P106M_45 Start: 29277, Stop: 29579, Start Num: 34
Candidate Starts for P106M_45:
(31, 29265), (Start: 34 @29277 has 51 MA's), (101, 29565),

Gene: P107A_45 Start: 29101, Stop: 29403, Start Num: 34
Candidate Starts for P107A_45:
(Start: 34 @29101 has 51 MA's), (58, 29197),

Gene: P107C_44 Start: 29152, Stop: 29454, Start Num: 34
Candidate Starts for P107C_44:
(29, 29134), (Start: 34 @29152 has 51 MA's),

Gene: P108C_44 Start: 29130, Stop: 29432, Start Num: 34
Candidate Starts for P108C_44:
(Start: 33 @29127 has 4 MA's), (Start: 34 @29130 has 51 MA's),

Gene: P14.4_47 Start: 29362, Stop: 29667, Start Num: 33
Candidate Starts for P14.4_47:
(Start: 33 @29362 has 4 MA's), (Start: 34 @29365 has 51 MA's), (101, 29653),

Gene: P9.1_45 Start: 28850, Stop: 29152, Start Num: 34

Candidate Starts for P9.1_45:
(31, 28838), (Start: 33 @28847 has 4 MA's), (Start: 34 @28850 has 51 MA's), (101, 29138),

Gene: PA6_48 Start: 29388, Stop: 29690, Start Num: 34
Candidate Starts for PA6_48:
(29, 29370), (Start: 34 @29388 has 51 MA's), (101, 29676),

Gene: PAD20_48 Start: 28723, Stop: 29025, Start Num: 34
Candidate Starts for PAD20_48:
(Start: 34 @28723 has 51 MA's), (101, 29011),

Gene: PAS50_48 Start: 28663, Stop: 28968, Start Num: 33
Candidate Starts for PAS50_48:
(31, 28654), (Start: 33 @28663 has 4 MA's), (Start: 34 @28666 has 51 MA's), (101, 28954),

Gene: PHL010M04_45 Start: 29157, Stop: 29459, Start Num: 34
Candidate Starts for PHL010M04_45:
(Start: 34 @29157 has 51 MA's),

Gene: PHL037M02_45 Start: 29090, Stop: 29392, Start Num: 34
Candidate Starts for PHL037M02_45:
(Start: 34 @29090 has 51 MA's), (58, 29186), (101, 29378),

Gene: PHL060L00_46 Start: 29161, Stop: 29463, Start Num: 34
Candidate Starts for PHL060L00_46:
(Start: 34 @29161 has 51 MA's),

Gene: PHL067M10_45 Start: 29024, Stop: 29326, Start Num: 34
Candidate Starts for PHL067M10_45:
(Start: 34 @29024 has 51 MA's), (101, 29312),

Gene: PHL071N05_45 Start: 29114, Stop: 29416, Start Num: 34
Candidate Starts for PHL071N05_45:
(Start: 33 @29111 has 4 MA's), (Start: 34 @29114 has 51 MA's), (101, 29402),

Gene: PHL111M01_45 Start: 28787, Stop: 29089, Start Num: 34
Candidate Starts for PHL111M01_45:
(Start: 33 @28784 has 4 MA's), (Start: 34 @28787 has 51 MA's), (101, 29075),

Gene: PHL112N00_46 Start: 28913, Stop: 29215, Start Num: 34
Candidate Starts for PHL112N00_46:
(Start: 34 @28913 has 51 MA's),

Gene: PHL113M01_44 Start: 28844, Stop: 29149, Start Num: 33
Candidate Starts for PHL113M01_44:
(Start: 33 @28844 has 4 MA's), (Start: 34 @28847 has 51 MA's), (101, 29135),

Gene: PHL114L00_46 Start: 29111, Stop: 29413, Start Num: 34
Candidate Starts for PHL114L00_46:
(Start: 34 @29111 has 51 MA's),

Gene: PaoPu_25 Start: 16989, Stop: 17288, Start Num: 40
Candidate Starts for PaoPu_25:

(Start: 40 @16989 has 146 MA's), (68, 17118), (69, 17121), (84, 17184), (93, 17232), (94, 17241), (104, 17277),

Gene: Periwinkle_1 Start: 39, Stop: 371, Start Num: 35
Candidate Starts for Periwinkle_1:
(23, 9), (26, 15), (31, 27), (Start: 35 @39 has 60 MA's), (54, 117), (58, 141), (60, 144), (78, 234), (86, 264), (89, 282), (103, 351),

Gene: Phabuloso_1 Start: 39, Stop: 371, Start Num: 35
Candidate Starts for Phabuloso_1:
(23, 9), (26, 15), (Start: 35 @39 has 60 MA's), (54, 117), (58, 141), (78, 234), (89, 282), (95, 318), (103, 351),

Gene: Phistory_1 Start: 39, Stop: 371, Start Num: 35
Candidate Starts for Phistory_1:
(23, 9), (26, 15), (Start: 35 @39 has 60 MA's), (58, 141), (60, 144), (78, 234), (86, 264), (89, 282), (95, 318), (103, 351),

Gene: Picconator_25 Start: 17072, Stop: 17371, Start Num: 40
Candidate Starts for Picconator_25:
(Start: 40 @17072 has 146 MA's), (68, 17201), (69, 17204), (84, 17267), (93, 17315), (94, 17324), (104, 17360),

Gene: Picnic_25 Start: 16989, Stop: 17288, Start Num: 40
Candidate Starts for Picnic_25:
(Start: 40 @16989 has 146 MA's), (68, 17118), (69, 17121), (84, 17184), (93, 17232), (94, 17241), (104, 17277),

Gene: Piper2020_1 Start: 42, Stop: 374, Start Num: 35
Candidate Starts for Piper2020_1:
(23, 9), (27, 15), (Start: 35 @42 has 60 MA's), (54, 120), (73, 213), (78, 237), (89, 285), (99, 339), (103, 354),

Gene: Pirate_44 Start: 28960, Stop: 29262, Start Num: 34
Candidate Starts for Pirate_44:
(Start: 33 @28957 has 4 MA's), (Start: 34 @28960 has 51 MA's), (58, 29056), (101, 29248),

Gene: Plumbus_1 Start: 41, Stop: 373, Start Num: 35
Candidate Starts for Plumbus_1:
(24, 11), (Start: 35 @41 has 60 MA's), (54, 119), (73, 212), (89, 284), (98, 329), (99, 338), (103, 353),

Gene: PoRanda_25 Start: 17137, Stop: 17436, Start Num: 40
Candidate Starts for PoRanda_25:
(18, 17035), (Start: 40 @17137 has 146 MA's), (68, 17266), (69, 17269), (84, 17332), (93, 17380), (94, 17389), (104, 17425),

Gene: Pondwater_25 Start: 16989, Stop: 17288, Start Num: 40
Candidate Starts for Pondwater_25:
(Start: 40 @16989 has 146 MA's), (68, 17118), (69, 17121), (84, 17184), (93, 17232), (94, 17241), (104, 17277),

Gene: Procrass1_45 Start: 28983, Stop: 29285, Start Num: 34
Candidate Starts for Procrass1_45:

(Start: 34 @28983 has 51 MA's), (101, 29271),

Gene: Publix_26 Start: 16803, Stop: 17102, Start Num: 40
Candidate Starts for Publix_26:
(18, 16701), (Start: 40 @16803 has 146 MA's), (68, 16932), (69, 16935), (84, 16998), (93, 17046), (94, 17055),

Gene: Puddles3_25 Start: 16989, Stop: 17288, Start Num: 40
Candidate Starts for Puddles3_25:
(Start: 40 @16989 has 146 MA's), (68, 17118), (69, 17121), (84, 17184), (93, 17232), (94, 17241), (104, 17277),

Gene: PuffyCat_25 Start: 16593, Stop: 16892, Start Num: 40
Candidate Starts for PuffyCat_25:
(18, 16491), (Start: 40 @16593 has 146 MA's), (68, 16722), (69, 16725), (84, 16788), (93, 16836), (94, 16845),

Gene: Quaker_25 Start: 17077, Stop: 17376, Start Num: 40
Candidate Starts for Quaker_25:
(18, 16975), (Start: 40 @17077 has 146 MA's), (68, 17206), (69, 17209), (84, 17272), (93, 17320), (94, 17329), (104, 17365),

Gene: QueenBey_43 Start: 28974, Stop: 29276, Start Num: 34
Candidate Starts for QueenBey_43:
(Start: 33 @28971 has 4 MA's), (Start: 34 @28974 has 51 MA's), (101, 29262),

Gene: Quico_1 Start: 41, Stop: 373, Start Num: 35
Candidate Starts for Quico_1:
(24, 11), (Start: 35 @41 has 60 MA's), (47, 86), (51, 110), (54, 119), (71, 200), (78, 236), (89, 284), (98, 329), (99, 338), (103, 353),

Gene: RRH1_20 Start: 13909, Stop: 14184, Start Num: 44
Candidate Starts for RRH1_20:
(44, 13909), (64, 13987), (90, 14116), (100, 14152),

Gene: Rahul_26 Start: 15845, Stop: 16123, Start Num: 46
Candidate Starts for Rahul_26:
(8, 15524), (12, 15638), (13, 15662), (16, 15692), (43, 15839), (Start: 46 @15845 has 2 MA's), (63, 15917), (64, 15920), (72, 15965), (90, 16049),

Gene: Raqqa_101 Start: 53739, Stop: 54044, Start Num: 34
Candidate Starts for Raqqa_101:
(Start: 34 @53739 has 51 MA's), (92, 53982),

Gene: Rhogar_25 Start: 17075, Stop: 17374, Start Num: 40
Candidate Starts for Rhogar_25:
(18, 16973), (Start: 40 @17075 has 146 MA's), (68, 17204), (69, 17207), (84, 17270), (93, 17318), (94, 17327), (104, 17363),

Gene: Rhysand_25 Start: 17080, Stop: 17379, Start Num: 40
Candidate Starts for Rhysand_25:
(18, 16978), (Start: 40 @17080 has 146 MA's), (68, 17209), (69, 17212), (84, 17275), (93, 17323), (94, 17332), (104, 17368),

Gene: Rialto_1 Start: 41, Stop: 373, Start Num: 35
Candidate Starts for Rialto_1:
(24, 11), (Start: 35 @41 has 60 MA's), (54, 119), (73, 212), (78, 236), (89, 284), (99, 338), (103, 353),

Gene: Rileysaurus_43 Start: 29070, Stop: 29372, Start Num: 34
Candidate Starts for Rileysaurus_43:
(Start: 34 @29070 has 51 MA's),

Gene: Rira_25 Start: 16598, Stop: 16897, Start Num: 40
Candidate Starts for Rira_25:
(18, 16496), (Start: 40 @16598 has 146 MA's), (68, 16727), (69, 16730), (84, 16793), (93, 16841), (94, 16850),

Gene: Ronaldo_147 Start: 67378, Stop: 67635, Start Num: 41
Candidate Starts for Ronaldo_147:
(Start: 41 @67378 has 5 MA's), (65, 67474), (68, 67498), (74, 67528), (83, 67561),

Gene: RoscoWindex_25 Start: 17080, Stop: 17379, Start Num: 40
Candidate Starts for RoscoWindex_25:
(18, 16978), (Start: 40 @17080 has 146 MA's), (68, 17209), (69, 17212), (84, 17275), (93, 17323), (94, 17332), (104, 17368),

Gene: SKKY_47 Start: 29230, Stop: 29532, Start Num: 34
Candidate Starts for SKKY_47:
(30, 29215), (Start: 33 @29227 has 4 MA's), (Start: 34 @29230 has 51 MA's),

Gene: Sachet_25 Start: 16989, Stop: 17288, Start Num: 40
Candidate Starts for Sachet_25:
(Start: 40 @16989 has 146 MA's), (68, 17118), (69, 17121), (84, 17184), (93, 17232), (94, 17241), (104, 17277),

Gene: Sage7_25 Start: 17079, Stop: 17378, Start Num: 40
Candidate Starts for Sage7_25:
(18, 16977), (Start: 40 @17079 has 146 MA's), (68, 17208), (69, 17211), (84, 17274), (93, 17322), (94, 17331), (104, 17367),

Gene: SantasSleigh_25 Start: 17103, Stop: 17402, Start Num: 40
Candidate Starts for SantasSleigh_25:
(18, 17001), (Start: 40 @17103 has 146 MA's), (68, 17232), (69, 17235), (84, 17298), (93, 17346), (94, 17355), (104, 17391),

Gene: Sara_25 Start: 16989, Stop: 17288, Start Num: 40
Candidate Starts for Sara_25:
(Start: 40 @16989 has 146 MA's), (68, 17118), (69, 17121), (84, 17184), (93, 17232), (94, 17241), (104, 17277),

Gene: Scamander_25 Start: 17079, Stop: 17378, Start Num: 40
Candidate Starts for Scamander_25:
(18, 16977), (Start: 40 @17079 has 146 MA's), (68, 17208), (69, 17211), (84, 17274), (93, 17322), (94, 17331), (104, 17367),

Gene: Schiebs_25 Start: 14310, Stop: 14615, Start Num: 49

Candidate Starts for Schiebs_25:
(Start: 49 @14310 has 2 MA's), (57, 14355), (64, 14376), (73, 14424), (90, 14505),

Gene: Scrunchy_25 Start: 17072, Stop: 17371, Start Num: 40
Candidate Starts for Scrunchy_25:
(Start: 40 @17072 has 146 MA's), (68, 17201), (69, 17204), (84, 17267), (93, 17315), (94, 17324), (104, 17360),

Gene: SeaWolves_25 Start: 16989, Stop: 17288, Start Num: 40
Candidate Starts for SeaWolves_25:
(Start: 40 @16989 has 146 MA's), (68, 17118), (69, 17121), (84, 17184), (93, 17232), (94, 17241), (104, 17277),

Gene: SilverChicken_1 Start: 38, Stop: 370, Start Num: 35
Candidate Starts for SilverChicken_1:
(24, 11), (Start: 35 @38 has 60 MA's), (54, 116), (60, 143), (78, 233), (86, 263), (89, 281), (98, 326), (103, 350),

Gene: Sippinontea_25 Start: 17100, Stop: 17399, Start Num: 40
Candidate Starts for Sippinontea_25:
(18, 16998), (Start: 40 @17100 has 146 MA's), (68, 17229), (69, 17232), (84, 17295), (93, 17343), (94, 17352), (104, 17388),

Gene: Skitty_72 Start: 38994, Stop: 39299, Start Num: 34
Candidate Starts for Skitty_72:
(Start: 34 @38994 has 51 MA's), (55, 39075), (62, 39102), (91, 39234), (92, 39237), (102, 39276),

Gene: Slentz_25 Start: 17072, Stop: 17371, Start Num: 40
Candidate Starts for Slentz_25:
(Start: 40 @17072 has 146 MA's), (68, 17201), (69, 17204), (84, 17267), (93, 17315), (94, 17324), (104, 17360),

Gene: Slim_1 Start: 41, Stop: 373, Start Num: 35
Candidate Starts for Slim_1:
(24, 11), (Start: 35 @41 has 60 MA's), (54, 119), (73, 212), (78, 236), (89, 284), (99, 338), (103, 353),

Gene: Slizam_25 Start: 16598, Stop: 16897, Start Num: 40
Candidate Starts for Slizam_25:
(18, 16496), (Start: 40 @16598 has 146 MA's), (68, 16727), (69, 16730), (84, 16793), (93, 16841), (94, 16850),

Gene: Snuffles_27 Start: 16951, Stop: 17250, Start Num: 40
Candidate Starts for Snuffles_27:
(18, 16849), (Start: 40 @16951 has 146 MA's), (68, 17080), (69, 17083), (84, 17146), (93, 17194), (94, 17203),

Gene: Solid_45 Start: 29077, Stop: 29379, Start Num: 34
Candidate Starts for Solid_45:
(Start: 33 @29074 has 4 MA's), (Start: 34 @29077 has 51 MA's), (101, 29365),

Gene: Soul22_1 Start: 38, Stop: 370, Start Num: 35
Candidate Starts for Soul22_1:

(24, 11), (Start: 35 @38 has 60 MA's), (54, 116), (60, 143), (78, 233), (86, 263), (89, 281), (98, 326), (103, 350),

Gene: Spartoi_56 Start: 34706, Stop: 35032, Start Num: 34
Candidate Starts for Spartoi_56:
(Start: 34 @34706 has 51 MA's),

Gene: Spooky_1 Start: 39, Stop: 371, Start Num: 35
Candidate Starts for Spooky_1:
(23, 9), (26, 15), (Start: 35 @39 has 60 MA's), (78, 234), (82, 249), (89, 282), (95, 318), (103, 351),

Gene: Squiddly_2 Start: 730, Stop: 1062, Start Num: 35
Candidate Starts for Squiddly_2:
(14, 601), (15, 613), (22, 697), (Start: 35 @730 has 60 MA's), (73, 901), (76, 919), (89, 973), (95, 1009), (103, 1042),

Gene: Squirty_1 Start: 40, Stop: 372, Start Num: 35
Candidate Starts for Squirty_1:
(22, 7), (25, 13), (Start: 35 @40 has 60 MA's), (51, 109), (54, 118), (73, 211), (86, 265), (89, 283), (98, 328), (99, 337), (103, 352),

Gene: Starcevich_1 Start: 41, Stop: 373, Start Num: 35
Candidate Starts for Starcevich_1:
(24, 11), (Start: 35 @41 has 60 MA's), (54, 119), (73, 212), (78, 236), (89, 284), (99, 338), (103, 353),

Gene: Stem_25 Start: 16608, Stop: 16907, Start Num: 40
Candidate Starts for Stem_25:
(18, 16506), (Start: 40 @16608 has 146 MA's), (68, 16737), (69, 16740), (84, 16803), (93, 16851), (94, 16860),

Gene: Stormborn_46 Start: 28966, Stop: 29268, Start Num: 34
Candidate Starts for Stormborn_46:
(Start: 33 @28963 has 4 MA's), (Start: 34 @28966 has 51 MA's), (101, 29254),

Gene: Supernova_45 Start: 28853, Stop: 29155, Start Num: 34
Candidate Starts for Supernova_45:
(Start: 33 @28850 has 4 MA's), (Start: 34 @28853 has 51 MA's), (101, 29141),

Gene: Tchotchke_1 Start: 41, Stop: 373, Start Num: 35
Candidate Starts for Tchotchke_1:
(24, 11), (Start: 35 @41 has 60 MA's), (47, 86), (51, 110), (54, 119), (71, 200), (78, 236), (89, 284), (98, 329), (99, 338), (103, 353),

Gene: TeddyBoy_25 Start: 17076, Stop: 17375, Start Num: 40
Candidate Starts for TeddyBoy_25:
(18, 16974), (Start: 40 @17076 has 146 MA's), (68, 17205), (69, 17208), (84, 17271), (93, 17319), (94, 17328), (104, 17364),

Gene: TimoTea_25 Start: 17054, Stop: 17353, Start Num: 40
Candidate Starts for TimoTea_25:
(18, 16952), (Start: 40 @17054 has 146 MA's), (68, 17183), (69, 17186), (84, 17249), (93, 17297), (94, 17306), (104, 17342),

Gene: TinyTruffula_25 Start: 16677, Stop: 16976, Start Num: 40
Candidate Starts for TinyTruffula_25:
(18, 16575), (Start: 40 @16677 has 146 MA's), (68, 16806), (69, 16809), (84, 16872), (93, 16920), (94, 16929),

Gene: TlaliMex_27 Start: 17164, Stop: 17463, Start Num: 40
Candidate Starts for TlaliMex_27:
(18, 17062), (Start: 40 @17164 has 146 MA's), (68, 17293), (69, 17296), (84, 17359), (93, 17407), (94, 17416), (104, 17452),

Gene: TomBrady12_26 Start: 16780, Stop: 17079, Start Num: 40
Candidate Starts for TomBrady12_26:
(18, 16678), (Start: 40 @16780 has 146 MA's), (68, 16909), (69, 16912), (84, 16975), (93, 17023), (94, 17032),

Gene: TootsiePop_1 Start: 42, Stop: 374, Start Num: 35
Candidate Starts for TootsiePop_1:
(23, 9), (27, 15), (Start: 35 @42 has 60 MA's), (54, 120), (73, 213), (78, 237), (89, 285), (99, 339), (103, 354),

Gene: Totinger_1 Start: 41, Stop: 373, Start Num: 35
Candidate Starts for Totinger_1:
(24, 11), (Start: 35 @41 has 60 MA's), (54, 119), (73, 212), (78, 236), (89, 284), (99, 338), (103, 353),

Gene: Toxicola_27 Start: 16928, Stop: 17227, Start Num: 40
Candidate Starts for Toxicola_27:
(18, 16826), (Start: 40 @16928 has 146 MA's), (68, 17057), (69, 17060), (84, 17123), (93, 17171), (94, 17180), (104, 17216),

Gene: Trackstar_25 Start: 16660, Stop: 16959, Start Num: 40
Candidate Starts for Trackstar_25:
(18, 16558), (Start: 40 @16660 has 146 MA's), (68, 16789), (69, 16792), (84, 16855), (93, 16903), (94, 16912),

Gene: Trireme_25 Start: 16657, Stop: 16956, Start Num: 40
Candidate Starts for Trireme_25:
(18, 16555), (Start: 40 @16657 has 146 MA's), (68, 16786), (69, 16789), (84, 16852), (93, 16900), (94, 16909),

Gene: Tyrellus_25 Start: 17072, Stop: 17371, Start Num: 40
Candidate Starts for Tyrellus_25:
(Start: 40 @17072 has 146 MA's), (68, 17201), (69, 17204), (84, 17267), (93, 17315), (94, 17324), (104, 17360),

Gene: Upsilon_25 Start: 17137, Stop: 17436, Start Num: 40
Candidate Starts for Upsilon_25:
(18, 17035), (Start: 40 @17137 has 146 MA's), (68, 17266), (69, 17269), (84, 17332), (93, 17380), (94, 17389), (104, 17425),

Gene: Vanisius_25 Start: 17080, Stop: 17379, Start Num: 40
Candidate Starts for Vanisius_25:
(18, 16978), (Start: 40 @17080 has 146 MA's), (68, 17209), (69, 17212), (84, 17275), (93, 17323), (94, 17332), (104, 17368),

Gene: VitulaEligans_25 Start: 17161, Stop: 17460, Start Num: 40
Candidate Starts for VitulaEligans_25:
(18, 17059), (Start: 40 @17161 has 146 MA's), (68, 17290), (69, 17293), (84, 17356), (93, 17404), (94, 17413), (104, 17449),

Gene: Volt_150 Start: 67542, Stop: 67799, Start Num: 41
Candidate Starts for Volt_150:
(Start: 41 @67542 has 5 MA's), (65, 67638), (68, 67662), (74, 67692), (83, 67725),

Gene: Whitney_1 Start: 39, Stop: 371, Start Num: 35
Candidate Starts for Whitney_1:
(23, 9), (26, 15), (31, 27), (Start: 35 @39 has 60 MA's), (54, 117), (58, 141), (60, 144), (78, 234), (86, 264), (89, 282), (95, 318), (103, 351),

Gene: Witch_25 Start: 16990, Stop: 17289, Start Num: 40
Candidate Starts for Witch_25:
(Start: 40 @16990 has 146 MA's), (68, 17119), (69, 17122), (84, 17185), (93, 17233), (94, 17242), (104, 17278),

Gene: Wizzo_44 Start: 29099, Stop: 29401, Start Num: 34
Candidate Starts for Wizzo_44:
(Start: 33 @29096 has 4 MA's), (Start: 34 @29099 has 51 MA's), (101, 29387),

Gene: Wolfpack_25 Start: 17082, Stop: 17381, Start Num: 40
Candidate Starts for Wolfpack_25:
(18, 16980), (Start: 40 @17082 has 146 MA's), (68, 17211), (69, 17214), (84, 17277), (93, 17325), (94, 17334), (104, 17370),

Gene: Yami_25 Start: 16551, Stop: 16850, Start Num: 40
Candidate Starts for Yami_25:
(18, 16449), (Start: 40 @16551 has 146 MA's), (68, 16680), (69, 16683), (84, 16746), (93, 16794), (94, 16803),

Gene: Yasuo_25 Start: 17060, Stop: 17359, Start Num: 40
Candidate Starts for Yasuo_25:
(18, 16958), (Start: 40 @17060 has 146 MA's), (68, 17189), (69, 17192), (84, 17255), (93, 17303), (94, 17312), (104, 17348),

Gene: YertPhresh_25 Start: 16989, Stop: 17288, Start Num: 40
Candidate Starts for YertPhresh_25:
(Start: 40 @16989 has 146 MA's), (68, 17118), (69, 17121), (84, 17184), (93, 17232), (94, 17241), (104, 17277),

Gene: Yoshi_1 Start: 38, Stop: 370, Start Num: 35
Candidate Starts for Yoshi_1:
(24, 11), (Start: 35 @38 has 60 MA's), (54, 116), (60, 143), (78, 233), (86, 263), (89, 281), (98, 326), (103, 350),

Gene: Yubaba_25 Start: 17023, Stop: 17322, Start Num: 40
Candidate Starts for Yubaba_25:
(Start: 40 @17023 has 146 MA's), (68, 17152), (69, 17155), (84, 17218), (93, 17266), (94, 17275), (104, 17311),

Gene: Zahlia_25 Start: 17108, Stop: 17407, Start Num: 40
Candidate Starts for Zahlia_25:
(18, 17006), (Start: 40 @17108 has 146 MA's), (68, 17237), (69, 17240), (84, 17303), (93, 17351), (94, 17360), (104, 17396),

Gene: Zapner_2 Start: 562, Stop: 894, Start Num: 35
Candidate Starts for Zapner_2:
(22, 529), (Start: 35 @562 has 60 MA's), (78, 757), (86, 787), (89, 805), (98, 850), (103, 874),

Gene: Zucker_98 Start: 53075, Stop: 53380, Start Num: 34
Candidate Starts for Zucker_98:
(Start: 34 @53075 has 51 MA's), (80, 53264), (85, 53279),