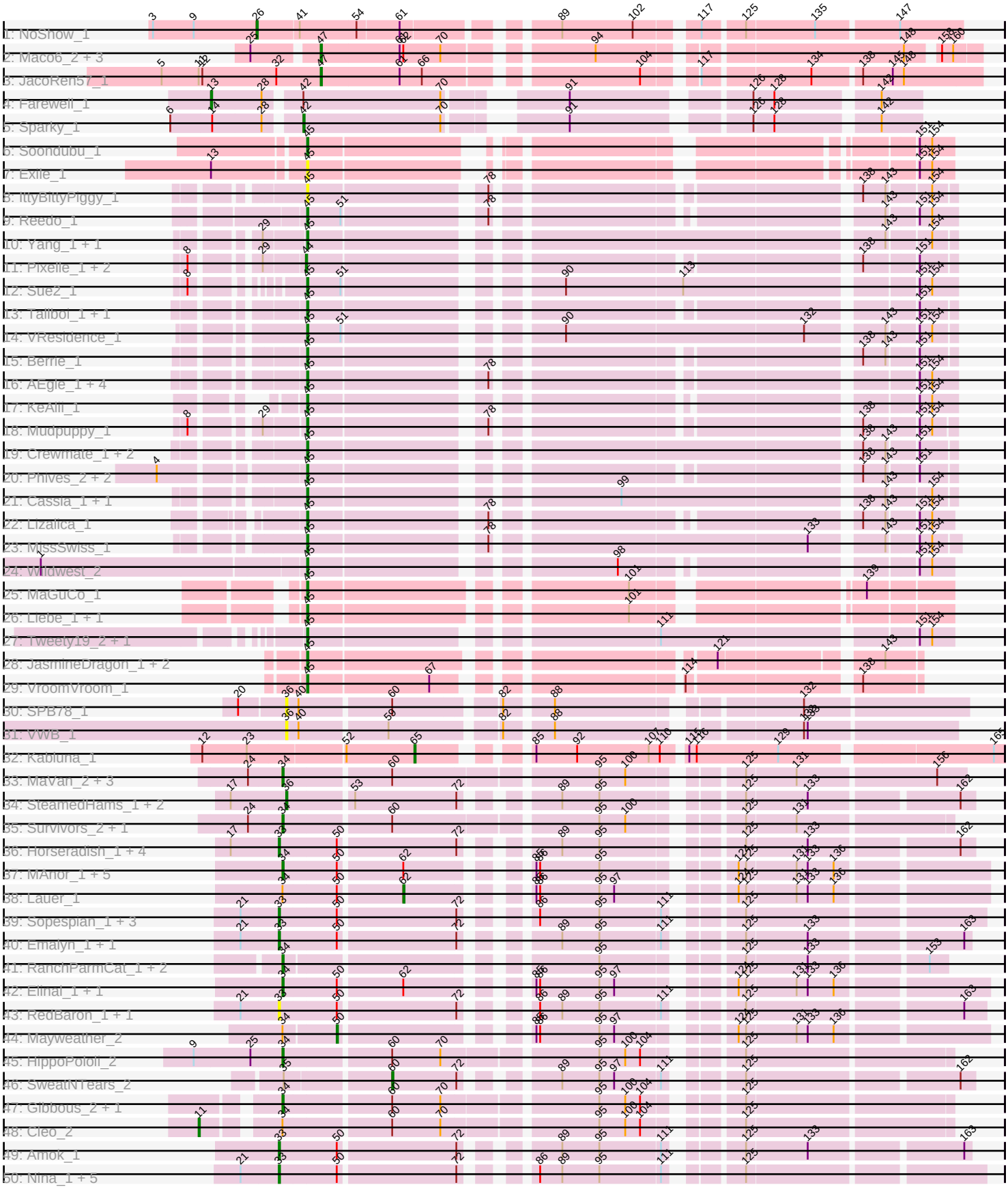
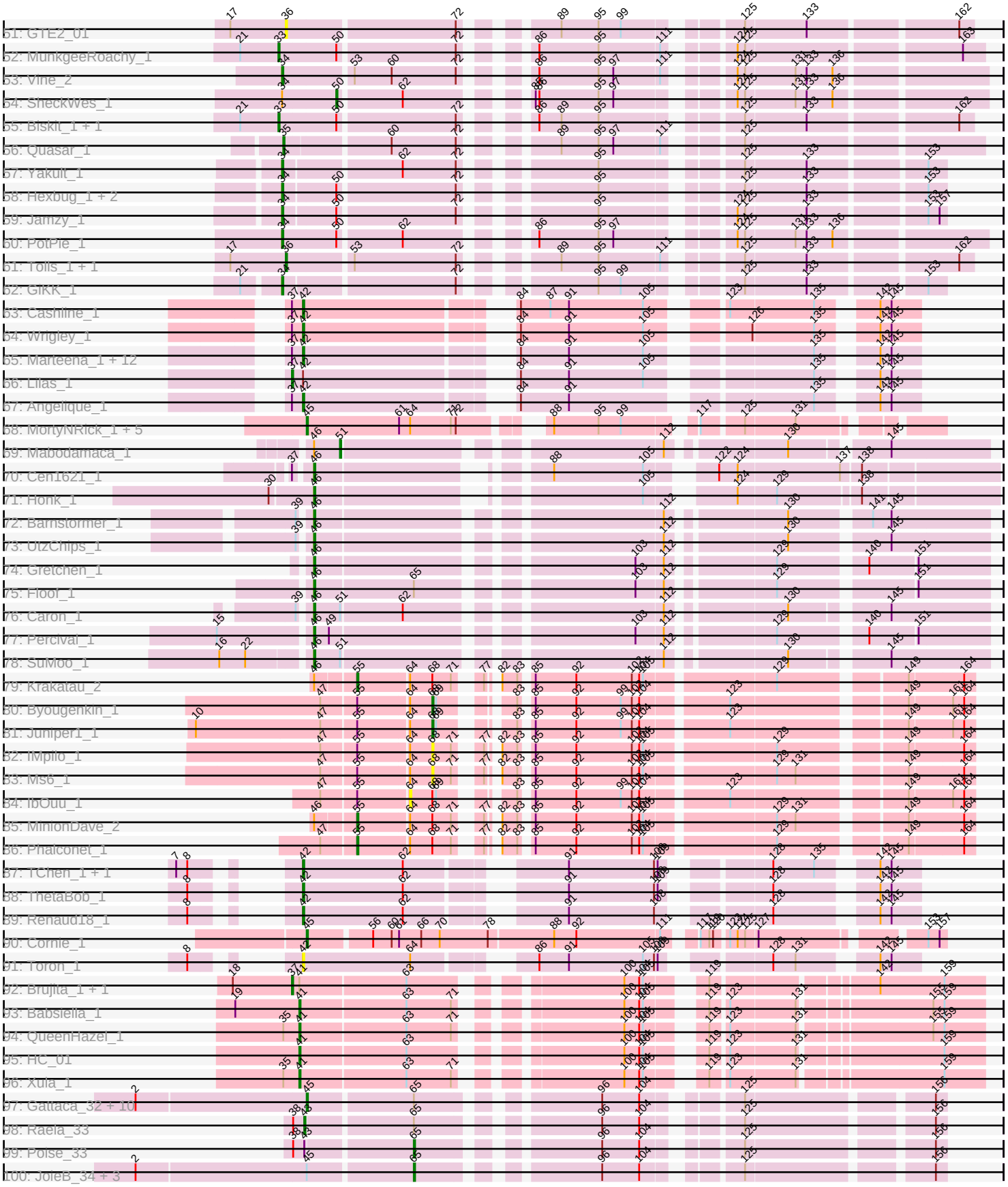
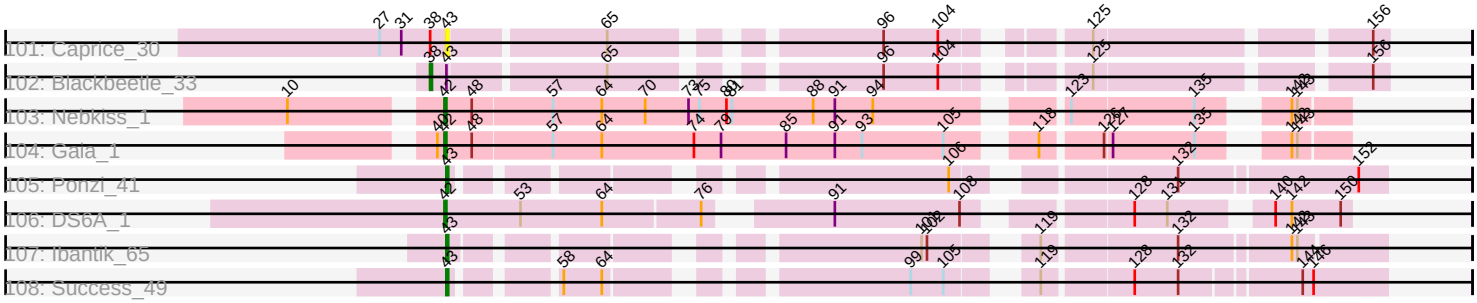
Pham 196307



Pham 196307


51: GTE2_01
52: MunkgeeRoachy_1
53: Vine_2
54: SheckWes_1
55: Biskit_1 + 1
56: Quasar_1
57: Yakult_1
58: Hexbug_1 + 2
59: Jamzy_1
60: PotPie_1
61: Tolls_1 + 1
62: GIKK_1
63: Cashline_1
64: Wrigley_1
65: Marteena_1 + 12
66: Lilas_1
67: Angelique_1
68: MortyNRick_1 + 5
69: Mabodamaca_1
70: Cen1621_1
71: Honk_1
72: Barnstormer_1
73: OtzChips_1
74: Gretchen_1
75: Floor_1
76: Caron_1
77: Percival_1
78: SuMoo_1
79: Krakatau_2
80: Byougenkin_1
81: Juniper1_1
82: Implo_1
83: Ms6_1
84: IbOuu_1
85: MinionDave_2
86: Phalconet_1
87: TChen_1 + 1
88: ThetaBob_1
89: Renaud18_1
90: Connie_1
91: Toron_1
92: Brujita_1 + 1
93: Babsiella_1
94: QueenHazel_1
95: HC_01
96: Xula_1
97: Gattaca_32 + 10
98: Raela_33
99: Poise_33
100: JolieB_34 + 3

Pham 196307


101: Caprice_30
102: Blackbeetle_33
103: Nebkiss_1
104: Gaia_1
105: Ponzi_41
106: DS6A_1
107: Ibanlik_65
108: Success_49

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 196307 Report

This analysis was run 12/09/24 on database version 580.

WARNING: Pham size does not match number of genes in report. Either unphamerated genes have been added (by you) or starterator has removed genes due to invalid start codon.

Pham number 196307 has 193 members, 30 are drafts.

Phages represented in each track:
- Track 1 : NoShow_1
- Track 2 : Maco6_2, FF47_04, Muddy_4, 8UZL_4
- Track 3 : JacoRen57_1
- Track 4 : Farewell_1
- Track 5 : Sparky_1
- Track 6 : Soondubu_1
- Track 7 : Exile_1
- Track 8 : IttyBittyPiggy_1
- Track 9 : Reedo_1
- Track 10 : Yang_1, JuneStar_1
- Track 11 : Pixelle_1, Amyev_1, Tian_1
- Track 12 : Sue2_1
- Track 13 : Tallboi_1, DrSierra_1
- Track 14 : VResidence_1
- Track 15 : Berrie_1
- Track 16 : AEgle_1, DrManhattan_1, Turab_1, Adolin_1, Adumb2043_1
- Track 17 : KeAlii_1
- Track 18 : Mudpuppy_1
- Track 19 : Crewmate_1, Iter_1, Ascela_1
- Track 20 : Phives_2, Community_2, Tuck_2
- Track 21 : Cassia_1, Pumpkins_1
- Track 22 : Lizalica_1
- Track 23 : MissSwiss_1
- Track 24 : Wildwest_2
- Track 25 : MaGuCo_1
- Track 26 : Liebe_1, Maureen_1
- Track 27 : Tweety19_2, Snek_2
- Track 28 : JasmineDragon_1, ShakeItOph_1, MiniMommy_1
- Track 29 : VroomVroom_1
- Track 30 : SPB78_1
- Track 31 : VWB_1
- Track 32 : Kabluna_1
- Track 33 : MaVan_2, Zareef_2, Azira_2, Nibbles_2

• Track 34 : SteamedHams_1, AndPeggy_1, BillDoor_1
• Track 35 : Survivors_2, Fribs8_2
• Track 36 : Horseradish_1, Troje_1, MScarn_1, Buttrmlkdreams_1, Yummy_1
• Track 37 : MAnor_1, BigChungus_1, Feastonyeet_1, SummitAcademy_1, Pons_1, CherryonLim_1
• Track 38 : Lauer_1
• Track 39 : Sopespian_1, PsychoKiller_1, Burnsey_1, Eliott_1
• Track 40 : Emalyn_1, AikoCarson_1
• Track 41 : RanchParmCat_1, Button_1, Margaret_1
• Track 42 : Elinal_1, KayGee_1
• Track 43 : RedBaron_1, Carsonalex_1
• Track 44 : Mayweather_2
• Track 45 : HippoPololi_2
• Track 46 : SweatNTears_2
• Track 47 : Gibbous_2, Dre3_2
• Track 48 : Cleo_2
• Track 49 : Amok_1
• Track 50 : Nina_1, Cozz_1, Agatha_1, Typhonomachy_1, GoldHunter_1, Axym_1
• Track 51 : GTE2_01
• Track 52 : MunkgeeRoachy_1
• Track 53 : Vine_2
• Track 54 : SheckWes_1
• Track 55 : Biskit_1, SketchMex_1
• Track 56 : Quasar_1
• Track 57 : Yakult_1
• Track 58 : Hexbug_1, Orla_1, Nodigi_1
• Track 59 : Jamzy_1
• Track 60 : PotPie_1
• Track 61 : Tolls_1, Yarn_1
• Track 62 : GiKK_1
• Track 63 : Cashline_1
• Track 64 : Wrigley_1
• Track 65 : Marteena_1, EnalisNailo_1, Jablanski_1, Posh_1, BritBrat_1, BeeGee_1, Confidence_1, Bradissa_1, EMsquaredA_1, LonelyBoi_1, Pytheas_1, Pollux_1, Floral_1
• Track 66 : Lilas_1
• Track 67 : Angelique_1
• Track 68 : MortyNRick_1, BearBQ_1, Kuwabara_1, Crater_1, Apricot_1, Birdsong_1
• Track 69 : Mabodamaca_1
• Track 70 : Cen1621_1
• Track 71 : Honk_1
• Track 72 : Barnstormer_1
• Track 73 : UtzChips_1
• Track 74 : Gretchen_1
• Track 75 : Floof_1
• Track 76 : Caron_1
• Track 77 : Percival_1
• Track 78 : SuMoo_1
• Track 79 : Krakatau_2
• Track 80 : Byougenkin_1
• Track 81 : Juniper1_1
• Track 82 : IMpilo_1
• Track 83 : Ms6_1

• Track 84 : IbOuu_1
• Track 85 : MinionDave_2
• Track 86 : Phalconet_1
• Track 87 : TChen_1, LunaStella_1
• Track 88 : ThetaBob_1
• Track 89 : Renaud18_1
• Track 90 : Cornie_1
• Track 91 : Toron_1
• Track 92 : Brujita_1, Island3_1
• Track 93 : Babsiella_1
• Track 94 : QueenHazel_1
• Track 95 : HC_01
• Track 96 : Xula_1
• Track 97 : Gattaca_32, RedRaider77_33, Huphlepuff_35, Tesla_32, Pringar_33, Lilbit_34, LittleLaf_33, Corazon_31, VasuNzinga_33, FeliMaine_33, Clarkson_34
• Track 98 : Raela_33
• Track 99 : Poise_33
• Track 100 : JoieB_34, Marvin_31, MosMoris_31, Beelzebub_37
• Track 101 : Caprice_30
• Track 102 : Blackbeetle_33
• Track 103 : Nebkiss_1
• Track 104 : Gaia_1
• Track 105 : Ponzi_41
• Track 106 : DS6A_1
• Track 107 : Ibantik_65
• Track 108 : Success_49

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

The start number called the most often in the published annotations is 45, it was called in 46 of the 163 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• AEgle_1, Adolin_1, Adumb2043_1, Apricot_1, Ascela_1, BearBQ_1, Berrie_1, Birdsong_1, Cassia_1, Clarkson_34, Community_2, Corazon_31, Cornie_1, Crater_1, Crewmate_1, DrManhattan_1, DrSierra_1, Exile_1, FeliMaine_33, Gattaca_32, Huphlepuff_35, Iter_1, IttyBittyPiggy_1, JasmineDragon_1, JuneStar_1, KeAlii_1, Kuwabara_1, Liebe_1, Lilbit_34, LittleLaf_33, Lizalica_1, MaGuCo_1, Maureen_1, MiniMommy_1, MissSwiss_1, MortyNRick_1, Mudpuppy_1, Phives_2, Pringar_33, Pumpkins_1, RedRaider77_33, Reedo_1, ShakeItOph_1, Snek_2, Soondubu_1, Sue2_1, Tallboi_1, Tesla_32, Tuck_2, Turab_1, Tweety19_2, VResidence_1, VasuNzinga_33, VroomVroom_1, Wildwest_2, Yang_1,

Genes that have the "Most Annotated" start but do not call it:
• Beelzebub_37, JoieB_34, Marvin_31, MosMoris_31,

Genes that do not have the "Most Annotated" start:
• 8UZL_4, Agatha_1, AikoCarson_1, Amok_1, Amyev_1, AndPeggy_1, Angelique_1, Axym_1, Azira_2, Babsiella_1, Barnstormer_1, BeeGee_1, BigChungus_1, BillDoor_1, Biskit_1, Blackbeetle_33, Bradissa_1, BritBrat_1, Brujita_1, Burnsey_1,

Button_1, Buttrmlkdreams_1, Byougenkin_1, Caprice_30, Caron_1, Carsonalex_1, Cashline_1, Cen1621_1, CherryonLim_1, Cleo_2, Confidence_1, Cozz_1, DS6A_1, Dre3_2, EMsquaredA_1, Elinal_1, Eliott_1, Emalyn_1, EnalisNailo_1, FF47_04, Farewell_1, Feastonyeet_1, Floof_1, Floral_1, Fribs8_2, GTE2_01, Gaia_1, GiKK_1, Gibbous_2, GoldHunter_1, Gretchen_1, HC_01, Hexbug_1, HippoPololi_2, Honk_1, Horseradish_1, IMpilo_1, IbOuu_1, Ibantik_65, Island3_1, Jablanski_1, JacoRen57_1, Jamzy_1, Juniper1_1, Kabluna_1, KayGee_1, Krakatau_2, Lauer_1, Lilas_1, LonelyBoi_1, LunaStella_1, MAnor_1, MScarn_1, MaVan_2, Mabodamaca_1, Maco6_2, Margaret_1, Marteena_1, Mayweather_2, MinionDave_2, Ms6_1, Muddy_4, MunkgeeRoachy_1, Nebkiss_1, Nibbles_2, Nina_1, NoShow_1, Nodigi_1, Orla_1, Percival_1, Phalconet_1, Pixelle_1, Poise_33, Pollux_1, Pons_1, Ponzi_41, Posh_1, PotPie_1, PsychoKiller_1, Pytheas_1, Quasar_1, QueenHazel_1, Raela_33, RanchParmCat_1, RedBaron_1, Renaud18_1, SPB78_1, SheckWes_1, SketchMex_1, Sopespian_1, Sparky_1, SteamedHams_1, SuMoo_1, Success_49, SummitAcademy_1, Survivors_2, SweatNTears_2, TChen_1, ThetaBob_1, Tian_1, Tolls_1, Toron_1, Troje_1, Typhonomachy_1, UtzChips_1, VWB_1, Vine_2, Wrigley_1, Xula_1, Yakult_1, Yarn_1, Yummy_1, Zareef_2,

Summary by start number:

Start 11:
• Found in 2 of 193 (1.0%) of genes in pham
• Manual Annotations of this start: 1 of 163
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Cleo_2 (CT),

Start 13:
• Found in 2 of 193 (1.0%) of genes in pham
• Manual Annotations of this start: 1 of 163
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Farewell_1 (AF),

Start 26:
• Found in 1 of 193 (0.5%) of genes in pham
• Manual Annotations of this start: 1 of 163
• Called 100.0% of time when present
• Phage (with cluster) where this start called: NoShow_1 (AB),

Start 33:
• Found in 23 of 193 (11.9%) of genes in pham
• Manual Annotations of this start: 16 of 163
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Agatha_1 (CT), AikoCarson_1 (CT), Amok_1 (CT), Axym_1 (CT), Biskit_1 (CT), Burnsey_1 (CT), Buttrmlkdreams_1 (CT), Carsonalex_1 (CT), Cozz_1 (CT), Eliott_1 (CT), Emalyn_1 (CT), GoldHunter_1 (CT), Horseradish_1 (CT), MScarn_1 (CT), MunkgeeRoachy_1 (CT), Nina_1 (CT), PsychoKiller_1 (CT), RedBaron_1 (CT), SketchMex_1 (CT), Sopespian_1 (CT), Troje_1 (CT), Typhonomachy_1 (CT), Yummy_1 (CT),

Start 34:
• Found in 32 of 193 (16.6%) of genes in pham
• Manual Annotations of this start: 26 of 163
• Called 87.5% of time when present

• Phage (with cluster) where this start called: Azira_2 (CT), BigChungus_1 (CT), Button_1 (CT), CherryonLim_1 (CT), Dre3_2 (CT), Elinal_1 (CT), Feastonyeet_1 (CT), Fribs8_2 (CT), GiKK_1 (CT), Gibbous_2 (CT), Hexbug_1 (CT), HippoPololi_2 (CT), Jamzy_1 (CT), KayGee_1 (CT), MAnor_1 (CT), MaVan_2 (CT), Margaret_1 (CT), Nibbles_2 (CT), Nodigi_1 (CT), Orla_1 (CT), Pons_1 (CT), PotPie_1 (CT), RanchParmCat_1 (CT), SummitAcademy_1 (CT), Survivors_2 (CT), Vine_2 (CT), Yakult_1 (CT), Zareef_2 (CT),

Start 35:
• Found in 4 of 193 (2.1%) of genes in pham
• Manual Annotations of this start: 1 of 163
• Called 25.0% of time when present
• Phage (with cluster) where this start called: Quasar_1 (CT),

Start 36:
• Found in 8 of 193 (4.1%) of genes in pham
• Manual Annotations of this start: 5 of 163
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AndPeggy_1 (CT), BillDoor_1 (CT), GTE2_01 (CT), SPB78_1 (BA), SteamedHams_1 (CT), Tolls_1 (CT), VWB_1 (BA), Yarn_1 (CT),

Start 37:
• Found in 20 of 193 (10.4%) of genes in pham
• Manual Annotations of this start: 3 of 163
• Called 15.0% of time when present
• Phage (with cluster) where this start called: Brujita_1 (I1), Island3_1 (I1), Lilas_1 (CY1),

Start 38:
• Found in 4 of 193 (2.1%) of genes in pham
• Manual Annotations of this start: 1 of 163
• Called 25.0% of time when present
• Phage (with cluster) where this start called: Blackbeetle_33 (S),

Start 41:
• Found in 7 of 193 (3.6%) of genes in pham
• Manual Annotations of this start: 4 of 163
• Called 57.1% of time when present
• Phage (with cluster) where this start called: Babsiella_1 (I1), HC_01 (I1), QueenHazel_1 (I1), Xula_1 (I1),

Start 42:
• Found in 27 of 193 (14.0%) of genes in pham
• Manual Annotations of this start: 24 of 163
• Called 92.6% of time when present
• Phage (with cluster) where this start called: Angelique_1 (CY1), BeeGee_1 (CY), Bradissa_1 (CY1), BritBrat_1 (CY2), Cashline_1 (CY), Confidence_1 (CY1), DS6A_1 (singleton), EMsquaredA_1 (CY1), EnalisNailo_1 (CY1), Floral_1 (CY1), Gaia_1 (X), Jablanski_1 (CY), LonelyBoi_1 (CY), LunaStella_1 (F4), Marteena_1 (CY1), Nebkiss_1 (X), Pollux_1 (CY1), Posh_1 (CY), Pytheas_1 (CY), Renaud18_1 (F4), Sparky_1 (AF), TChen_1 (F4), ThetaBob_1 (F4), Toron_1 (F6), Wrigley_1 (CY),

Start 43:
• Found in 7 of 193 (3.6%) of genes in pham
• Manual Annotations of this start: 4 of 163
• Called 71.4% of time when present
• Phage (with cluster) where this start called: Caprice_30 (S), Ibantik_65 (singleton), Ponzi_41 (singleton), Raela_33 (S), Success_49 (singleton),

Start 44:
• Found in 3 of 193 (1.6%) of genes in pham
• Manual Annotations of this start: 2 of 163
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Amyev_1 (AZ1), Pixelle_1 (AZ1), Tian_1 (AZ1),

Start 45:
• Found in 60 of 193 (31.1%) of genes in pham
• Manual Annotations of this start: 46 of 163
• Called 93.3% of time when present
• Phage (with cluster) where this start called: AEgle_1 (AZ1), Adolin_1 (AZ1), Adumb2043_1 (AZ1), Apricot_1 (DN3), Ascela_1 (AZ1), BearBQ_1 (DN), Berrie_1 (AZ1), Birdsong_1 (DN), Cassia_1 (AZ1), Clarkson_34 (S), Community_2 (AZ1), Corazon_31 (S), Cornie_1 (F5), Crater_1 (DN3), Crewmate_1 (AZ1), DrManhattan_1 (AZ1), DrSierra_1 (AZ1), Exile_1 (AZ), FeliMaine_33 (S), Gattaca_32 (S), Huphlepuff_35 (S), Iter_1 (AZ1), IttyBittyPiggy_1 (AZ1), JasmineDragon_1 (AZ4), JuneStar_1 (AZ1), KeAlii_1 (AZ1), Kuwabara_1 (DN4), Liebe_1 (AZ2), Lilbit_34 (S), LittleLaf_33 (S), Lizalica_1 (AZ1), MaGuCo_1 (AZ2), Maureen_1 (AZ2), MiniMommy_1 (AZ4), MissSwiss_1 (AZ1), MortyNRick_1 (DN), Mudpuppy_1 (AZ1), Phives_2 (AZ1), Pringar_33 (S), Pumpkins_1 (AZ1), RedRaider77_33 (S), Reedo_1 (AZ1), ShakeItOph_1 (AZ4), Snek_2 (AZ3), Soondubu_1 (AZ), Sue2_1 (AZ1), Tallboi_1 (AZ1), Tesla_32 (S), Tuck_2 (AZ1), Turab_1 (AZ1), Tweety19_2 (AZ3), VResidence_1 (AZ1), VasuNzinga_33 (S), VroomVroom_1 (AZ4), Wildwest_2 (AZ1), Yang_1 (AZ1),

Start 46:
• Found in 12 of 193 (6.2%) of genes in pham
• Manual Annotations of this start: 9 of 163
• Called 75.0% of time when present
• Phage (with cluster) where this start called: Barnstormer_1 (EH), Caron_1 (EH), Cen1621_1 (EH), Floof_1 (EH), Gretchen_1 (EH), Honk_1 (EH), Percival_1 (EH), SuMoo_1 (EH), UtzChips_1 (EH),

Start 47:
• Found in 11 of 193 (5.7%) of genes in pham
• Manual Annotations of this start: 3 of 163
• Called 45.5% of time when present
• Phage (with cluster) where this start called: 8UZL_4 (AB), FF47_04 (AB), JacoRen57_1 (AB), Maco6_2 (AB), Muddy_4 (AB),

Start 50:
• Found in 39 of 193 (20.2%) of genes in pham
• Manual Annotations of this start: 2 of 163
• Called 5.1% of time when present
• Phage (with cluster) where this start called: Mayweather_2 (CT), SheckWes_1 (CT),

Start 51:
• Found in 6 of 193 (3.1%) of genes in pham
• Manual Annotations of this start: 1 of 163
• Called 16.7% of time when present
• Phage (with cluster) where this start called: Mabodamaca_1 (EH),

Start 55:
• Found in 8 of 193 (4.1%) of genes in pham
• Manual Annotations of this start: 3 of 163
• Called 37.5% of time when present
• Phage (with cluster) where this start called: Krakatau_2 (F1), MinionDave_2 (F1), Phalconet_1 (F1),

Start 60:
• Found in 15 of 193 (7.8%) of genes in pham
• Manual Annotations of this start: 1 of 163
• Called 6.7% of time when present
• Phage (with cluster) where this start called: SweatNTears_2 (CT),

Start 62:
• Found in 21 of 193 (10.9%) of genes in pham
• Manual Annotations of this start: 1 of 163
• Called 4.8% of time when present
• Phage (with cluster) where this start called: Lauer_1 (CT),

Start 64:
• Found in 19 of 193 (9.8%) of genes in pham
• No Manual Annotations of this start.
• Called 5.3% of time when present
• Phage (with cluster) where this start called: IbOuu_1 (F1),

Start 65:
• Found in 21 of 193 (10.9%) of genes in pham
• Manual Annotations of this start: 6 of 163
• Called 28.6% of time when present
• Phage (with cluster) where this start called: Beelzebub_37 (S), JoieB_34 (S), Kabluna_1 (CR2), Marvin_31 (S), MosMoris_31 (S), Poise_33 (S),

Start 68:
• Found in 8 of 193 (4.1%) of genes in pham
• Manual Annotations of this start: 2 of 163
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Byougenkin_1 (F1), IMpilo_1 (F1), Juniper1_1 (F1), Ms6_1 (F1),

Summary by clusters:

There are 25 clusters represented in this pham: DN, singleton, BA, I1, DN4, DN3, CY2, CY1, AB, EH, AF, CY, X, AZ, CT, CR2, F1, F4, F5, F6, S, AZ1, AZ2, AZ3, AZ4,

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

•Start number 47 was manually annotated 3 times for cluster AB.

Info for manual annotations of cluster AF:
•Start number 13 was manually annotated 1 time for cluster AF.
•Start number 42 was manually annotated 1 time for cluster AF.

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

Info for manual annotations of cluster AZ1:
•Start number 44 was manually annotated 2 times for cluster AZ1.
•Start number 45 was manually annotated 23 times for cluster AZ1.

Info for manual annotations of cluster AZ2:
•Start number 45 was manually annotated 3 times for cluster AZ2.

Info for manual annotations of cluster AZ3:
•Start number 45 was manually annotated 2 times for cluster AZ3.

Info for manual annotations of cluster AZ4:
•Start number 45 was manually annotated 2 times for cluster AZ4.

Info for manual annotations of cluster CR2:
•Start number 65 was manually annotated 1 time for cluster CR2.

Info for manual annotations of cluster CT:
•Start number 11 was manually annotated 1 time for cluster CT.
•Start number 33 was manually annotated 16 times for cluster CT.
•Start number 34 was manually annotated 26 times for cluster CT.
•Start number 35 was manually annotated 1 time for cluster CT.
•Start number 36 was manually annotated 5 times for cluster CT.
•Start number 50 was manually annotated 2 times for cluster CT.
•Start number 60 was manually annotated 1 time for cluster CT.
•Start number 62 was manually annotated 1 time for cluster CT.

Info for manual annotations of cluster CY:
•Start number 42 was manually annotated 7 times for cluster CY.

Info for manual annotations of cluster CY1:
•Start number 37 was manually annotated 1 time for cluster CY1.
•Start number 42 was manually annotated 8 times for cluster CY1.

Info for manual annotations of cluster CY2:
•Start number 42 was manually annotated 1 time for cluster CY2.

Info for manual annotations of cluster DN:
•Start number 45 was manually annotated 2 times for cluster DN.

Info for manual annotations of cluster DN3:
•Start number 45 was manually annotated 2 times for cluster DN3.

Info for manual annotations of cluster DN4:

•Start number 45 was manually annotated 1 time for cluster DN4.

Info for manual annotations of cluster EH:
•Start number 46 was manually annotated 9 times for cluster EH.
•Start number 51 was manually annotated 1 time for cluster EH.

Info for manual annotations of cluster F1:
•Start number 55 was manually annotated 3 times for cluster F1.
•Start number 68 was manually annotated 2 times for cluster F1.

Info for manual annotations of cluster F4:
•Start number 42 was manually annotated 4 times for cluster F4.

Info for manual annotations of cluster F5:
•Start number 45 was manually annotated 1 time for cluster F5.

Info for manual annotations of cluster I1:
•Start number 37 was manually annotated 2 times for cluster I1.
•Start number 41 was manually annotated 4 times for cluster I1.

Info for manual annotations of cluster S:
•Start number 38 was manually annotated 1 time for cluster S.
•Start number 43 was manually annotated 1 time for cluster S.
•Start number 45 was manually annotated 9 times for cluster S.
•Start number 65 was manually annotated 5 times for cluster S.

Info for manual annotations of cluster X:
•Start number 42 was manually annotated 2 times for cluster X.

Gene Information:

Gene: 8UZL_4 Start: 1322, Stop: 1795, Start Num: 47
Candidate Starts for 8UZL_4:
(25, 1274), (Start: 47 @1322 has 3 MA's), (61, 1385), (Start: 62 @1388 has 1 MA's), (70, 1418), (94, 1520), (148, 1745), (158, 1766), (160, 1775),

Gene: AEgle_1 Start: 85, Stop: 540, Start Num: 45
Candidate Starts for AEgle_1:
(Start: 45 @85 has 46 MA's), (78, 214), (151, 511), (154, 520),

Gene: Adolin_1 Start: 85, Stop: 537, Start Num: 45
Candidate Starts for Adolin_1:
(Start: 45 @85 has 46 MA's), (78, 214), (151, 508), (154, 517),

Gene: Adumb2043_1 Start: 85, Stop: 540, Start Num: 45
Candidate Starts for Adumb2043_1:
(Start: 45 @85 has 46 MA's), (78, 214), (151, 511), (154, 520),

Gene: Agatha_1 Start: 52, Stop: 543, Start Num: 33
Candidate Starts for Agatha_1:

(21, 22), (Start: 33 @52 has 16 MA's), (Start: 50 @97 has 2 MA's), (72, 187), (86, 223), (89, 241), (95, 271), (111, 319), (125, 364),

Gene: AikoCarson_1 Start: 52, Stop: 531, Start Num: 33
Candidate Starts for AikoCarson_1:
(21, 22), (Start: 33 @52 has 16 MA's), (Start: 50 @97 has 2 MA's), (72, 187), (89, 241), (95, 271), (111, 319), (125, 364), (133, 412), (163, 526),

Gene: Amok_1 Start: 53, Stop: 532, Start Num: 33
Candidate Starts for Amok_1:
(Start: 33 @53 has 16 MA's), (Start: 50 @98 has 2 MA's), (72, 188), (89, 242), (95, 272), (111, 320), (125, 365), (133, 413), (163, 527),

Gene: Amyev_1 Start: 84, Stop: 536, Start Num: 44
Candidate Starts for Amyev_1:
(8, 12), (29, 54), (Start: 44 @84 has 2 MA's), (138, 471), (151, 510),

Gene: AndPeggy_1 Start: 59, Stop: 535, Start Num: 36
Candidate Starts for AndPeggy_1:
(17, 14), (Start: 36 @59 has 5 MA's), (53, 107), (72, 188), (89, 242), (95, 272), (125, 365), (133, 413), (162, 524),

Gene: Angelique_1 Start: 82, Stop: 504, Start Num: 42
Candidate Starts for Angelique_1:
(Start: 37 @73 has 3 MA's), (Start: 42 @82 has 24 MA's), (84, 226), (91, 265), (135, 436), (142, 472), (145, 481),

Gene: Apricot_1 Start: 50, Stop: 484, Start Num: 45
Candidate Starts for Apricot_1:
(Start: 45 @50 has 46 MA's), (61, 125), (64, 134), (71, 167), (72, 170), (88, 218), (95, 254), (99, 272), (117, 317), (125, 347), (131, 386),

Gene: Ascela_1 Start: 85, Stop: 537, Start Num: 45
Candidate Starts for Ascela_1:
(Start: 45 @85 has 46 MA's), (138, 472), (143, 490), (151, 511),

Gene: Axym_1 Start: 52, Stop: 543, Start Num: 33
Candidate Starts for Axym_1:
(21, 22), (Start: 33 @52 has 16 MA's), (Start: 50 @97 has 2 MA's), (72, 187), (86, 223), (89, 241), (95, 271), (111, 319), (125, 364),

Gene: Azira_2 Start: 425, Stop: 922, Start Num: 34
Candidate Starts for Azira_2:
(24, 398), (Start: 34 @425 has 26 MA's), (Start: 60 @506 has 1 MA's), (95, 659), (100, 680), (125, 752), (131, 791), (156, 899),

Gene: Babsiella_1 Start: 67, Stop: 540, Start Num: 41
Candidate Starts for Babsiella_1:
(19, 16), (Start: 41 @67 has 4 MA's), (63, 151), (71, 187), (100, 292), (104, 304), (105, 307), (119, 340), (123, 352), (131, 403), (155, 499), (159, 508),

Gene: Barnstormer_1 Start: 114, Stop: 596, Start Num: 46
Candidate Starts for Barnstormer_1:

(39, 108), (Start: 46 @114 has 9 MA's), (112, 363), (130, 447), (141, 504), (145, 519),

Gene: BearBQ_1 Start: 50, Stop: 484, Start Num: 45
Candidate Starts for BearBQ_1:
(Start: 45 @50 has 46 MA's), (61, 125), (64, 134), (71, 167), (72, 170), (88, 218), (95, 254), (99, 272), (117, 317), (125, 347), (131, 386),

Gene: BeeGee_1 Start: 82, Stop: 504, Start Num: 42
Candidate Starts for BeeGee_1:
(Start: 37 @73 has 3 MA's), (Start: 42 @82 has 24 MA's), (84, 226), (91, 265), (105, 325), (135, 436), (142, 472), (145, 481),

Gene: Beelzebub_37 Start: 10803, Stop: 11156, Start Num: 65
Candidate Starts for Beelzebub_37:
(2, 10587), (Start: 45 @10722 has 46 MA's), (Start: 65 @10803 has 6 MA's), (96, 10923), (104, 10953), (125, 11013), (156, 11148),

Gene: Berrie_1 Start: 83, Stop: 535, Start Num: 45
Candidate Starts for Berrie_1:
(Start: 45 @83 has 46 MA's), (138, 470), (143, 488), (151, 509),

Gene: BigChungus_1 Start: 56, Stop: 547, Start Num: 34
Candidate Starts for BigChungus_1:
(Start: 34 @56 has 26 MA's), (Start: 50 @98 has 2 MA's), (Start: 62 @146 has 1 MA's), (85, 221), (86, 224), (95, 272), (124, 359), (125, 365), (131, 404), (133, 413), (136, 434),

Gene: BillDoor_1 Start: 59, Stop: 535, Start Num: 36
Candidate Starts for BillDoor_1:
(17, 14), (Start: 36 @59 has 5 MA's), (53, 107), (72, 188), (89, 242), (95, 272), (125, 365), (133, 413), (162, 524),

Gene: Birdsong_1 Start: 50, Stop: 484, Start Num: 45
Candidate Starts for Birdsong_1:
(Start: 45 @50 has 46 MA's), (61, 125), (64, 134), (71, 167), (72, 170), (88, 218), (95, 254), (99, 272), (117, 317), (125, 347), (131, 386),

Gene: Biskit_1 Start: 52, Stop: 534, Start Num: 33
Candidate Starts for Biskit_1:
(21, 22), (Start: 33 @52 has 16 MA's), (Start: 50 @97 has 2 MA's), (72, 187), (86, 223), (89, 241), (95, 271), (125, 364), (133, 412), (162, 523),

Gene: Blackbeetle_33 Start: 9732, Stop: 10175, Start Num: 38
Candidate Starts for Blackbeetle_33:
(Start: 38 @9732 has 1 MA's), (Start: 43 @9741 has 4 MA's), (Start: 65 @9822 has 6 MA's), (96, 9942), (104, 9972), (125, 10032), (156, 10167),

Gene: Bradissa_1 Start: 82, Stop: 504, Start Num: 42
Candidate Starts for Bradissa_1:
(Start: 37 @73 has 3 MA's), (Start: 42 @82 has 24 MA's), (84, 226), (91, 265), (105, 325), (135, 436), (142, 472), (145, 481),

Gene: BritBrat_1 Start: 82, Stop: 504, Start Num: 42
Candidate Starts for BritBrat_1:

(Start: 37 @73 has 3 MA's), (Start: 42 @82 has 24 MA's), (84, 226), (91, 265), (105, 325), (135, 436), (142, 472), (145, 481),

Gene: Brujita_1 Start: 62, Stop: 541, Start Num: 37
Candidate Starts for Brujita_1:
(18, 14), (Start: 37 @62 has 3 MA's), (Start: 41 @68 has 4 MA's), (63, 152), (100, 293), (104, 305), (105, 308), (119, 341), (142, 458), (159, 509),

Gene: Burnsey_1 Start: 52, Stop: 543, Start Num: 33
Candidate Starts for Burnsey_1:
(21, 22), (Start: 33 @52 has 16 MA's), (Start: 50 @97 has 2 MA's), (72, 187), (86, 223), (95, 271), (111, 319), (125, 364),

Gene: Button_1 Start: 50, Stop: 505, Start Num: 34
Candidate Starts for Button_1:
(Start: 34 @50 has 26 MA's), (95, 263), (125, 356), (133, 404), (153, 491),

Gene: Buttrmlkdreams_1 Start: 53, Stop: 535, Start Num: 33
Candidate Starts for Buttrmlkdreams_1:
(17, 14), (Start: 33 @53 has 16 MA's), (Start: 50 @98 has 2 MA's), (72, 188), (89, 242), (95, 272), (125, 365), (133, 413), (162, 524),

Gene: Byougenkin_1 Start: 193, Stop: 564, Start Num: 68
Candidate Starts for Byougenkin_1:
(Start: 47 @109 has 3 MA's), (Start: 55 @136 has 3 MA's), (64, 175), (Start: 68 @193 has 2 MA's), (69, 196), (83, 235), (85, 241), (92, 274), (99, 310), (102, 319), (104, 325), (123, 388), (149, 514), (161, 547), (164, 556),

Gene: Caprice_30 Start: 9811, Stop: 10245, Start Num: 43
Candidate Starts for Caprice_30:
(27, 9775), (31, 9787), (Start: 38 @9802 has 1 MA's), (Start: 43 @9811 has 4 MA's), (Start: 65 @9892 has 6 MA's), (96, 10012), (104, 10042), (125, 10102), (156, 10237),

Gene: Caron_1 Start: 114, Stop: 593, Start Num: 46
Candidate Starts for Caron_1:
(39, 108), (Start: 46 @114 has 9 MA's), (Start: 51 @135 has 1 MA's), (Start: 62 @183 has 1 MA's), (112, 363), (130, 447), (145, 516),

Gene: Carsonalex_1 Start: 52, Stop: 543, Start Num: 33
Candidate Starts for Carsonalex_1:
(21, 22), (Start: 33 @52 has 16 MA's), (Start: 50 @97 has 2 MA's), (72, 187), (86, 223), (89, 241), (95, 271), (111, 319), (125, 364), (163, 526),

Gene: Cashline_1 Start: 82, Stop: 504, Start Num: 42
Candidate Starts for Cashline_1:
(Start: 37 @73 has 3 MA's), (Start: 42 @82 has 24 MA's), (84, 226), (87, 250), (91, 265), (105, 325), (123, 370), (135, 436), (142, 472), (145, 481),

Gene: Cassia_1 Start: 86, Stop: 550, Start Num: 45
Candidate Starts for Cassia_1:
(Start: 45 @86 has 46 MA's), (99, 305), (143, 503), (154, 533),

Gene: Cen1621_1 Start: 100, Stop: 576, Start Num: 46

Candidate Starts for Cen1621_1:
(Start: 37 @88 has 3 MA's), (Start: 46 @100 has 9 MA's), (88, 250), (105, 322), (122, 361), (124, 376), (137, 457), (138, 472),

Gene: CherryonLim_1 Start: 56, Stop: 547, Start Num: 34
Candidate Starts for CherryonLim_1:
(Start: 34 @56 has 26 MA's), (Start: 50 @98 has 2 MA's), (Start: 62 @146 has 1 MA's), (85, 221), (86, 224), (95, 272), (124, 359), (125, 365), (131, 404), (133, 413), (136, 434),

Gene: Clarkson_34 Start: 10423, Stop: 10857, Start Num: 45
Candidate Starts for Clarkson_34:
(2, 10288), (Start: 45 @10423 has 46 MA's), (Start: 65 @10504 has 6 MA's), (96, 10624), (104, 10654), (125, 10714), (156, 10849),

Gene: Cleo_2 Start: 447, Stop: 983, Start Num: 11
Candidate Starts for Cleo_2:
(Start: 11 @447 has 1 MA's), (Start: 34 @498 has 26 MA's), (Start: 60 @579 has 1 MA's), (70, 618), (95, 732), (100, 753), (104, 765), (125, 825),

Gene: Community_2 Start: 1157, Stop: 1609, Start Num: 45
Candidate Starts for Community_2:
(4, 1052), (Start: 45 @1157 has 46 MA's), (138, 1544), (143, 1562), (151, 1583),

Gene: Confidence_1 Start: 82, Stop: 504, Start Num: 42
Candidate Starts for Confidence_1:
(Start: 37 @73 has 3 MA's), (Start: 42 @82 has 24 MA's), (84, 226), (91, 265), (105, 325), (135, 436), (142, 472), (145, 481),

Gene: Corazon_31 Start: 10376, Stop: 10810, Start Num: 45
Candidate Starts for Corazon_31:
(2, 10241), (Start: 45 @10376 has 46 MA's), (Start: 65 @10457 has 6 MA's), (96, 10577), (104, 10607), (125, 10667), (156, 10802),

Gene: Cornie_1 Start: 85, Stop: 549, Start Num: 45
Candidate Starts for Cornie_1:
(Start: 45 @85 has 46 MA's), (56, 133), (Start: 60 @148 has 1 MA's), (61, 154), (66, 172), (70, 187), (78, 226), (88, 277), (92, 295), (111, 361), (117, 379), (119, 385), (120, 388), (123, 397), (124, 403), (125, 409), (127, 418), (153, 535), (157, 544),

Gene: Cozz_1 Start: 52, Stop: 543, Start Num: 33
Candidate Starts for Cozz_1:
(21, 22), (Start: 33 @52 has 16 MA's), (Start: 50 @97 has 2 MA's), (72, 187), (86, 223), (89, 241), (95, 271), (111, 319), (125, 364),

Gene: Crater_1 Start: 50, Stop: 484, Start Num: 45
Candidate Starts for Crater_1:
(Start: 45 @50 has 46 MA's), (61, 125), (64, 134), (71, 167), (72, 170), (88, 218), (95, 254), (99, 272), (117, 317), (125, 347), (131, 386),

Gene: Crewmate_1 Start: 85, Stop: 549, Start Num: 45
Candidate Starts for Crewmate_1:
(Start: 45 @85 has 46 MA's), (138, 484), (143, 502), (151, 523),

Gene: DS6A_1 Start: 246, Stop: 680, Start Num: 42
Candidate Starts for DS6A_1:
(Start: 42 @246 has 24 MA's), (53, 288), (64, 333), (76, 384), (91, 435), (108, 504), (128, 576), (131, 594), (140, 639), (142, 648), (150, 675),

Gene: DrManhattan_1 Start: 85, Stop: 537, Start Num: 45
Candidate Starts for DrManhattan_1:
(Start: 45 @85 has 46 MA's), (78, 214), (151, 508), (154, 517),

Gene: DrSierra_1 Start: 87, Stop: 551, Start Num: 45
Candidate Starts for DrSierra_1:
(Start: 45 @87 has 46 MA's), (151, 525),

Gene: Dre3_2 Start: 442, Stop: 927, Start Num: 34
Candidate Starts for Dre3_2:
(Start: 34 @442 has 26 MA's), (Start: 60 @523 has 1 MA's), (70, 562), (95, 676), (100, 697), (104, 709), (125, 769),

Gene: EMsquaredA_1 Start: 82, Stop: 504, Start Num: 42
Candidate Starts for EMsquaredA_1:
(Start: 37 @73 has 3 MA's), (Start: 42 @82 has 24 MA's), (84, 226), (91, 265), (105, 325), (135, 436), (142, 472), (145, 481),

Gene: Elinal_1 Start: 56, Stop: 547, Start Num: 34
Candidate Starts for Elinal_1:
(Start: 34 @56 has 26 MA's), (Start: 50 @98 has 2 MA's), (Start: 62 @146 has 1 MA's), (85, 221), (86, 224), (95, 272), (97, 284), (124, 359), (125, 365), (131, 404), (133, 413), (136, 434),

Gene: Eliott_1 Start: 52, Stop: 543, Start Num: 33
Candidate Starts for Eliott_1:
(21, 22), (Start: 33 @52 has 16 MA's), (Start: 50 @97 has 2 MA's), (72, 187), (86, 223), (95, 271), (111, 319), (125, 364),

Gene: Emalyn_1 Start: 52, Stop: 531, Start Num: 33
Candidate Starts for Emalyn_1:
(21, 22), (Start: 33 @52 has 16 MA's), (Start: 50 @97 has 2 MA's), (72, 187), (89, 241), (95, 271), (111, 319), (125, 364), (133, 412), (163, 526),

Gene: EnalisNailo_1 Start: 82, Stop: 504, Start Num: 42
Candidate Starts for EnalisNailo_1:
(Start: 37 @73 has 3 MA's), (Start: 42 @82 has 24 MA's), (84, 226), (91, 265), (105, 325), (135, 436), (142, 472), (145, 481),

Gene: Exile_1 Start: 140, Stop: 571, Start Num: 45
Candidate Starts for Exile_1:
(Start: 13 @71 has 1 MA's), (Start: 45 @140 has 46 MA's), (151, 545), (154, 554),

Gene: FF47_04 Start: 1302, Stop: 1775, Start Num: 47
Candidate Starts for FF47_04:
(25, 1254), (Start: 47 @1302 has 3 MA's), (61, 1365), (Start: 62 @1368 has 1 MA's), (70, 1398), (94, 1500), (148, 1725), (158, 1746), (160, 1755),

Gene: Farewell_1 Start: 34, Stop: 528, Start Num: 13

Candidate Starts for Farewell_1:
(Start: 13 @34 has 1 MA's), (28, 73), (Start: 42 @97 has 24 MA's), (70, 208), (91, 280), (126, 406), (128, 421), (142, 496),

Gene: Feastonyeet_1 Start: 56, Stop: 547, Start Num: 34
Candidate Starts for Feastonyeet_1:
(Start: 34 @56 has 26 MA's), (Start: 50 @98 has 2 MA's), (Start: 62 @146 has 1 MA's), (85, 221), (86, 224), (95, 272), (124, 359), (125, 365), (131, 404), (133, 413), (136, 434),

Gene: FeliMaine_33 Start: 10424, Stop: 10858, Start Num: 45
Candidate Starts for FeliMaine_33:
(2, 10289), (Start: 45 @10424 has 46 MA's), (Start: 65 @10505 has 6 MA's), (96, 10625), (104, 10655), (125, 10715), (156, 10850),

Gene: Floof_1 Start: 122, Stop: 601, Start Num: 46
Candidate Starts for Floof_1:
(Start: 46 @122 has 9 MA's), (Start: 65 @200 has 6 MA's), (103, 350), (112, 371), (129, 446), (151, 545),

Gene: Floral_1 Start: 82, Stop: 504, Start Num: 42
Candidate Starts for Floral_1:
(Start: 37 @73 has 3 MA's), (Start: 42 @82 has 24 MA's), (84, 226), (91, 265), (105, 325), (135, 436), (142, 472), (145, 481),

Gene: Fribs8_2 Start: 426, Stop: 911, Start Num: 34
Candidate Starts for Fribs8_2:
(24, 399), (Start: 34 @426 has 26 MA's), (Start: 60 @507 has 1 MA's), (95, 660), (100, 681), (125, 753), (131, 792),

Gene: GTE2_01 Start: 59, Stop: 535, Start Num: 36
Candidate Starts for GTE2_01:
(17, 14), (Start: 36 @59 has 5 MA's), (72, 188), (89, 242), (95, 272), (99, 290), (125, 365), (133, 413), (162, 524),

Gene: Gaia_1 Start: 129, Stop: 578, Start Num: 42
Candidate Starts for Gaia_1:
(40, 126), (Start: 42 @129 has 24 MA's), (48, 144), (57, 186), (64, 213), (74, 264), (79, 279), (85, 315), (91, 342), (93, 357), (105, 402), (118, 438), (126, 468), (127, 471), (135, 516), (142, 549), (143, 552),

Gene: Gattaca_32 Start: 9603, Stop: 10037, Start Num: 45
Candidate Starts for Gattaca_32:
(2, 9468), (Start: 45 @9603 has 46 MA's), (Start: 65 @9684 has 6 MA's), (96, 9804), (104, 9834), (125, 9894), (156, 10029),

Gene: GiKK_1 Start: 49, Stop: 504, Start Num: 34
Candidate Starts for GiKK_1:
(21, 22), (Start: 34 @49 has 26 MA's), (72, 178), (95, 262), (99, 280), (125, 355), (133, 403), (153, 490),

Gene: Gibbous_2 Start: 442, Stop: 927, Start Num: 34
Candidate Starts for Gibbous_2:
(Start: 34 @442 has 26 MA's), (Start: 60 @523 has 1 MA's), (70, 562), (95, 676), (100, 697), (104, 709), (125, 769),

Gene: GoldHunter_1 Start: 52, Stop: 543, Start Num: 33
Candidate Starts for GoldHunter_1:
(21, 22), (Start: 33 @52 has 16 MA's), (Start: 50 @97 has 2 MA's), (72, 187), (86, 223), (89, 241), (95, 271), (111, 319), (125, 364),

Gene: Gretchen_1 Start: 128, Stop: 607, Start Num: 46
Candidate Starts for Gretchen_1:
(Start: 46 @128 has 9 MA's), (103, 356), (112, 377), (129, 452), (140, 515), (151, 551),

Gene: HC_01 Start: 67, Stop: 540, Start Num: 41
Candidate Starts for HC_01:
(Start: 41 @67 has 4 MA's), (63, 151), (100, 292), (104, 304), (105, 307), (119, 340), (123, 352), (131, 403), (159, 508),

Gene: Hexbug_1 Start: 50, Stop: 505, Start Num: 34
Candidate Starts for Hexbug_1:
(Start: 34 @50 has 26 MA's), (Start: 50 @89 has 2 MA's), (72, 179), (95, 263), (125, 356), (133, 404), (153, 491),

Gene: HippoPololi_2 Start: 449, Stop: 934, Start Num: 34
Candidate Starts for HippoPololi_2:
(9, 380), (25, 425), (Start: 34 @449 has 26 MA's), (Start: 60 @530 has 1 MA's), (70, 569), (95, 683), (100, 704), (104, 716), (125, 776),

Gene: Honk_1 Start: 161, Stop: 634, Start Num: 46
Candidate Starts for Honk_1:
(30, 128), (Start: 46 @161 has 9 MA's), (105, 383), (124, 437), (129, 467), (138, 530),

Gene: Horseradish_1 Start: 53, Stop: 535, Start Num: 33
Candidate Starts for Horseradish_1:
(17, 14), (Start: 33 @53 has 16 MA's), (Start: 50 @98 has 2 MA's), (72, 188), (89, 242), (95, 272), (125, 365), (133, 413), (162, 524),

Gene: Huphlepuff_35 Start: 10228, Stop: 10662, Start Num: 45
Candidate Starts for Huphlepuff_35:
(2, 10093), (Start: 45 @10228 has 46 MA's), (Start: 65 @10309 has 6 MA's), (96, 10429), (104, 10459), (125, 10519), (156, 10654),

Gene: IMpilo_1 Start: 194, Stop: 565, Start Num: 68
Candidate Starts for IMpilo_1:
(Start: 47 @110 has 3 MA's), (Start: 55 @137 has 3 MA's), (64, 176), (Start: 68 @194 has 2 MA's), (71, 209), (77, 221), (82, 224), (83, 236), (85, 242), (92, 275), (102, 320), (104, 326), (105, 329), (129, 425), (149, 515), (164, 557),

Gene: IbOuu_1 Start: 174, Stop: 563, Start Num: 64
Candidate Starts for IbOuu_1:
(Start: 47 @108 has 3 MA's), (Start: 55 @135 has 3 MA's), (64, 174), (Start: 68 @192 has 2 MA's), (69, 195), (83, 234), (85, 240), (92, 273), (99, 309), (102, 318), (104, 324), (123, 387), (149, 513), (161, 546), (164, 555),

Gene: Ibantik_65 Start: 27614, Stop: 28042, Start Num: 43
Candidate Starts for Ibantik_65:

(Start: 43 @27614 has 4 MA's), (101, 27824), (102, 27827), (119, 27869), (132, 27938), (142, 27995), (143, 27998),

Gene: Island3_1 Start: 62, Stop: 541, Start Num: 37
Candidate Starts for Island3_1:
(18, 14), (Start: 37 @62 has 3 MA's), (Start: 41 @68 has 4 MA's), (63, 152), (100, 293), (104, 305), (105, 308), (119, 341), (142, 458), (159, 509),

Gene: Iter_1 Start: 85, Stop: 537, Start Num: 45
Candidate Starts for Iter_1:
(Start: 45 @85 has 46 MA's), (138, 472), (143, 490), (151, 511),

Gene: IttyBittyPiggy_1 Start: 86, Stop: 538, Start Num: 45
Candidate Starts for IttyBittyPiggy_1:
(Start: 45 @86 has 46 MA's), (78, 215), (138, 473), (143, 491), (154, 521),

Gene: Jablanski_1 Start: 82, Stop: 504, Start Num: 42
Candidate Starts for Jablanski_1:
(Start: 37 @73 has 3 MA's), (Start: 42 @82 has 24 MA's), (84, 226), (91, 265), (105, 325), (135, 436), (142, 472), (145, 481),

Gene: JacoRen57_1 Start: 190, Stop: 669, Start Num: 47
Candidate Starts for JacoRen57_1:
(5, 61), (Start: 11 @91 has 1 MA's), (12, 94), (32, 154), (Start: 47 @190 has 3 MA's), (61, 253), (66, 271), (104, 424), (117, 457), (134, 538), (138, 574), (145, 598), (148, 607),

Gene: Jamzy_1 Start: 49, Stop: 504, Start Num: 34
Candidate Starts for Jamzy_1:
(Start: 34 @49 has 26 MA's), (Start: 50 @88 has 2 MA's), (72, 178), (95, 262), (124, 349), (125, 355), (133, 403), (153, 490), (157, 499),

Gene: JasmineDragon_1 Start: 132, Stop: 560, Start Num: 45
Candidate Starts for JasmineDragon_1:
(Start: 45 @132 has 46 MA's), (121, 417), (143, 534),

Gene: JoieB_34 Start: 10528, Stop: 10881, Start Num: 65
Candidate Starts for JoieB_34:
(2, 10312), (Start: 45 @10447 has 46 MA's), (Start: 65 @10528 has 6 MA's), (96, 10648), (104, 10678), (125, 10738), (156, 10873),

Gene: JuneStar_1 Start: 84, Stop: 548, Start Num: 45
Candidate Starts for JuneStar_1:
(29, 54), (Start: 45 @84 has 46 MA's), (143, 501), (154, 531),

Gene: Juniper1_1 Start: 192, Stop: 563, Start Num: 68
Candidate Starts for Juniper1_1:
(10, 9), (Start: 47 @108 has 3 MA's), (Start: 55 @135 has 3 MA's), (64, 174), (Start: 68 @192 has 2 MA's), (69, 195), (83, 234), (85, 240), (92, 273), (99, 309), (102, 318), (104, 324), (123, 387), (149, 513), (161, 546), (164, 555),

Gene: Kabluna_1 Start: 289, Stop: 708, Start Num: 65
Candidate Starts for Kabluna_1:

(12, 124), (23, 160), (52, 235), (Start: 65 @289 has 6 MA's), (85, 355), (92, 388), (107, 445), (110, 454), (115, 469), (116, 475), (129, 541), (165, 700),

Gene: KayGee_1 Start: 56, Stop: 547, Start Num: 34
Candidate Starts for KayGee_1:
(Start: 34 @56 has 26 MA's), (Start: 50 @98 has 2 MA's), (Start: 62 @146 has 1 MA's), (85, 221), (86, 224), (95, 272), (97, 284), (124, 359), (125, 365), (131, 404), (133, 413), (136, 434),

Gene: KeAlii_1 Start: 69, Stop: 521, Start Num: 45
Candidate Starts for KeAlii_1:
(Start: 45 @69 has 46 MA's), (151, 492), (154, 501),

Gene: Krakatau_2 Start: 784, Stop: 1212, Start Num: 55
Candidate Starts for Krakatau_2:
(Start: 46 @754 has 9 MA's), (Start: 55 @784 has 3 MA's), (64, 823), (Start: 68 @841 has 2 MA's), (71, 856), (77, 868), (82, 871), (83, 883), (85, 889), (92, 922), (102, 967), (104, 973), (105, 976), (129, 1072), (149, 1162), (164, 1204),

Gene: Kuwabara_1 Start: 50, Stop: 484, Start Num: 45
Candidate Starts for Kuwabara_1:
(Start: 45 @50 has 46 MA's), (61, 125), (64, 134), (71, 167), (72, 170), (88, 218), (95, 254), (99, 272), (117, 317), (125, 347), (131, 386),

Gene: Lauer_1 Start: 146, Stop: 547, Start Num: 62
Candidate Starts for Lauer_1:
(Start: 34 @56 has 26 MA's), (Start: 50 @98 has 2 MA's), (Start: 62 @146 has 1 MA's), (85, 221), (86, 224), (95, 272), (97, 284), (124, 359), (125, 365), (131, 404), (133, 413), (136, 434),

Gene: Liebe_1 Start: 80, Stop: 535, Start Num: 45
Candidate Starts for Liebe_1:
(Start: 45 @80 has 46 MA's), (101, 311),

Gene: Lilas_1 Start: 73, Stop: 504, Start Num: 37
Candidate Starts for Lilas_1:
(Start: 37 @73 has 3 MA's), (Start: 42 @82 has 24 MA's), (84, 226), (91, 265), (105, 325), (135, 436), (142, 472), (145, 481),

Gene: Lilbit_34 Start: 10424, Stop: 10858, Start Num: 45
Candidate Starts for Lilbit_34:
(2, 10289), (Start: 45 @10424 has 46 MA's), (Start: 65 @10505 has 6 MA's), (96, 10625), (104, 10655), (125, 10715), (156, 10850),

Gene: LittleLaf_33 Start: 10153, Stop: 10587, Start Num: 45
Candidate Starts for LittleLaf_33:
(2, 10018), (Start: 45 @10153 has 46 MA's), (Start: 65 @10234 has 6 MA's), (96, 10354), (104, 10384), (125, 10444), (156, 10579),

Gene: Lizalica_1 Start: 85, Stop: 534, Start Num: 45
Candidate Starts for Lizalica_1:
(Start: 45 @85 has 46 MA's), (78, 214), (138, 469), (143, 487), (151, 508), (154, 517),

Gene: LonelyBoi_1 Start: 82, Stop: 504, Start Num: 42
Candidate Starts for LonelyBoi_1:

(Start: 37 @73 has 3 MA's), (Start: 42 @82 has 24 MA's), (84, 226), (91, 265), (105, 325), (135, 436), (142, 472), (145, 481),

Gene: LunaStella_1 Start: 55, Stop: 477, Start Num: 42
Candidate Starts for LunaStella_1:
(7, 7), (8, 16), (Start: 42 @55 has 24 MA's), (Start: 62 @136 has 1 MA's), (91, 238), (108, 307), (109, 310), (128, 376), (135, 409), (142, 445), (145, 454),

Gene: MAnor_1 Start: 56, Stop: 547, Start Num: 34
Candidate Starts for MAnor_1:
(Start: 34 @56 has 26 MA's), (Start: 50 @98 has 2 MA's), (Start: 62 @146 has 1 MA's), (85, 221), (86, 224), (95, 272), (124, 359), (125, 365), (131, 404), (133, 413), (136, 434),

Gene: MScarn_1 Start: 53, Stop: 535, Start Num: 33
Candidate Starts for MScarn_1:
(17, 14), (Start: 33 @53 has 16 MA's), (Start: 50 @98 has 2 MA's), (72, 188), (89, 242), (95, 272), (125, 365), (133, 413), (162, 524),

Gene: MaGuCo_1 Start: 80, Stop: 535, Start Num: 45
Candidate Starts for MaGuCo_1:
(Start: 45 @80 has 46 MA's), (101, 311), (139, 473),

Gene: MaVan_2 Start: 426, Stop: 923, Start Num: 34
Candidate Starts for MaVan_2:
(24, 399), (Start: 34 @426 has 26 MA's), (Start: 60 @507 has 1 MA's), (95, 660), (100, 681), (125, 753), (131, 792), (156, 900),

Gene: Mabodamaca_1 Start: 146, Stop: 604, Start Num: 51
Candidate Starts for Mabodamaca_1:
(Start: 46 @125 has 9 MA's), (Start: 51 @146 has 1 MA's), (112, 374), (130, 458), (145, 527),

Gene: Maco6_2 Start: 581, Stop: 1054, Start Num: 47
Candidate Starts for Maco6_2:
(25, 533), (Start: 47 @581 has 3 MA's), (61, 644), (Start: 62 @647 has 1 MA's), (70, 677), (94, 779), (148, 1004), (158, 1025), (160, 1034),

Gene: Margaret_1 Start: 49, Stop: 504, Start Num: 34
Candidate Starts for Margaret_1:
(Start: 34 @49 has 26 MA's), (95, 262), (125, 355), (133, 403), (153, 490),

Gene: Marteena_1 Start: 82, Stop: 504, Start Num: 42
Candidate Starts for Marteena_1:
(Start: 37 @73 has 3 MA's), (Start: 42 @82 has 24 MA's), (84, 226), (91, 265), (105, 325), (135, 436), (142, 472), (145, 481),

Gene: Marvin_31 Start: 10504, Stop: 10857, Start Num: 65
Candidate Starts for Marvin_31:
(2, 10288), (Start: 45 @10423 has 46 MA's), (Start: 65 @10504 has 6 MA's), (96, 10624), (104, 10654), (125, 10714), (156, 10849),

Gene: Maureen_1 Start: 80, Stop: 535, Start Num: 45
Candidate Starts for Maureen_1:
(Start: 45 @80 has 46 MA's), (101, 311),

Gene: Mayweather_2 Start: 513, Stop: 962, Start Num: 50
Candidate Starts for Mayweather_2:
(Start: 34 @474 has 26 MA's), (Start: 50 @513 has 2 MA's), (85, 636), (86, 639), (95, 687), (97, 699), (124, 774), (125, 780), (131, 819), (133, 828), (136, 849),

Gene: MiniMommy_1 Start: 132, Stop: 560, Start Num: 45
Candidate Starts for MiniMommy_1:
(Start: 45 @132 has 46 MA's), (121, 417), (143, 534),

Gene: MinionDave_2 Start: 784, Stop: 1212, Start Num: 55
Candidate Starts for MinionDave_2:
(Start: 46 @754 has 9 MA's), (Start: 55 @784 has 3 MA's), (64, 823), (Start: 68 @841 has 2 MA's), (71, 856), (77, 868), (82, 871), (83, 883), (85, 889), (92, 922), (102, 967), (104, 973), (105, 976), (129, 1072), (131, 1087), (149, 1162), (164, 1204),

Gene: MissSwiss_1 Start: 87, Stop: 554, Start Num: 45
Candidate Starts for MissSwiss_1:
(Start: 45 @87 has 46 MA's), (78, 216), (133, 453), (143, 504), (151, 525), (154, 534),

Gene: MortyNRick_1 Start: 50, Stop: 484, Start Num: 45
Candidate Starts for MortyNRick_1:
(Start: 45 @50 has 46 MA's), (61, 125), (64, 134), (71, 167), (72, 170), (88, 218), (95, 254), (99, 272), (117, 317), (125, 347), (131, 386),

Gene: MosMoris_31 Start: 9684, Stop: 10037, Start Num: 65
Candidate Starts for MosMoris_31:
(2, 9468), (Start: 45 @9603 has 46 MA's), (Start: 65 @9684 has 6 MA's), (96, 9804), (104, 9834), (125, 9894), (156, 10029),

Gene: Ms6_1 Start: 193, Stop: 564, Start Num: 68
Candidate Starts for Ms6_1:
(Start: 47 @109 has 3 MA's), (Start: 55 @136 has 3 MA's), (64, 175), (Start: 68 @193 has 2 MA's), (71, 208), (77, 220), (82, 223), (83, 235), (85, 241), (92, 274), (102, 319), (104, 325), (105, 328), (129, 424), (131, 439), (149, 514), (164, 556),

Gene: Muddy_4 Start: 1535, Stop: 2008, Start Num: 47
Candidate Starts for Muddy_4:
(25, 1487), (Start: 47 @1535 has 3 MA's), (61, 1598), (Start: 62 @1601 has 1 MA's), (70, 1631), (94, 1733), (148, 1958), (158, 1979), (160, 1988),

Gene: Mudpuppy_1 Start: 84, Stop: 536, Start Num: 45
Candidate Starts for Mudpuppy_1:
(8, 12), (29, 54), (Start: 45 @84 has 46 MA's), (78, 213), (138, 471), (151, 510), (154, 519),

Gene: MunkgeeRoachy_1 Start: 52, Stop: 543, Start Num: 33
Candidate Starts for MunkgeeRoachy_1:
(21, 22), (Start: 33 @52 has 16 MA's), (Start: 50 @97 has 2 MA's), (72, 187), (86, 223), (95, 271), (111, 319), (124, 358), (125, 364), (163, 526),

Gene: Nebkiss_1 Start: 130, Stop: 579, Start Num: 42
Candidate Starts for Nebkiss_1:

(10, 58), (Start: 42 @130 has 24 MA's), (48, 145), (57, 187), (64, 214), (70, 238), (73, 262), (75, 268), (80, 283), (81, 286), (88, 331), (91, 343), (94, 364), (123, 451), (135, 517), (142, 550), (143, 553),

Gene: Nibbles_2 Start: 426, Stop: 923, Start Num: 34
Candidate Starts for Nibbles_2:
(24, 399), (Start: 34 @426 has 26 MA's), (Start: 60 @507 has 1 MA's), (95, 660), (100, 681), (125, 753), (131, 792), (156, 900),

Gene: Nina_1 Start: 52, Stop: 543, Start Num: 33
Candidate Starts for Nina_1:
(21, 22), (Start: 33 @52 has 16 MA's), (Start: 50 @97 has 2 MA's), (72, 187), (86, 223), (89, 241), (95, 271), (111, 319), (125, 364),

Gene: NoShow_1 Start: 166, Stop: 675, Start Num: 26
Candidate Starts for NoShow_1:
(3, 82), (9, 115), (Start: 26 @166 has 1 MA's), (Start: 41 @199 has 4 MA's), (54, 244), (61, 277), (89, 379), (102, 436), (117, 478), (125, 508), (135, 562), (147, 625),

Gene: Nodigi_1 Start: 50, Stop: 505, Start Num: 34
Candidate Starts for Nodigi_1:
(Start: 34 @50 has 26 MA's), (Start: 50 @89 has 2 MA's), (72, 179), (95, 263), (125, 356), (133, 404), (153, 491),

Gene: Orla_1 Start: 49, Stop: 504, Start Num: 34
Candidate Starts for Orla_1:
(Start: 34 @49 has 26 MA's), (Start: 50 @88 has 2 MA's), (72, 178), (95, 262), (125, 355), (133, 403), (153, 490),

Gene: Percival_1 Start: 128, Stop: 607, Start Num: 46
Candidate Starts for Percival_1:
(15, 56), (Start: 46 @128 has 9 MA's), (49, 140), (103, 356), (112, 377), (129, 452), (140, 515), (151, 551),

Gene: Phalconet_1 Start: 136, Stop: 564, Start Num: 55
Candidate Starts for Phalconet_1:
(Start: 47 @109 has 3 MA's), (Start: 55 @136 has 3 MA's), (64, 175), (Start: 68 @193 has 2 MA's), (71, 208), (77, 220), (82, 223), (83, 235), (85, 241), (92, 274), (102, 319), (104, 325), (105, 328), (129, 424), (149, 514), (164, 556),

Gene: Phives_2 Start: 1157, Stop: 1609, Start Num: 45
Candidate Starts for Phives_2:
(4, 1052), (Start: 45 @1157 has 46 MA's), (138, 1544), (143, 1562), (151, 1583),

Gene: Pixelle_1 Start: 84, Stop: 536, Start Num: 44
Candidate Starts for Pixelle_1:
(8, 12), (29, 54), (Start: 44 @84 has 2 MA's), (138, 471), (151, 510),

Gene: Poise_33 Start: 9822, Stop: 10175, Start Num: 65
Candidate Starts for Poise_33:
(Start: 38 @9732 has 1 MA's), (Start: 43 @9741 has 4 MA's), (Start: 65 @9822 has 6 MA's), (96, 9942), (104, 9972), (125, 10032), (156, 10167),

Gene: Pollux_1 Start: 82, Stop: 504, Start Num: 42

Candidate Starts for Pollux_1:
(Start: 37 @73 has 3 MA's), (Start: 42 @82 has 24 MA's), (84, 226), (91, 265), (105, 325), (135, 436), (142, 472), (145, 481),

Gene: Pons_1 Start: 56, Stop: 547, Start Num: 34
Candidate Starts for Pons_1:
(Start: 34 @56 has 26 MA's), (Start: 50 @98 has 2 MA's), (Start: 62 @146 has 1 MA's), (85, 221), (86, 224), (95, 272), (124, 359), (125, 365), (131, 404), (133, 413), (136, 434),

Gene: Ponzi_41 Start: 22312, Stop: 22740, Start Num: 43
Candidate Starts for Ponzi_41:
(Start: 43 @22312 has 4 MA's), (106, 22534), (132, 22633), (152, 22726),

Gene: Posh_1 Start: 82, Stop: 504, Start Num: 42
Candidate Starts for Posh_1:
(Start: 37 @73 has 3 MA's), (Start: 42 @82 has 24 MA's), (84, 226), (91, 265), (105, 325), (135, 436), (142, 472), (145, 481),

Gene: PotPie_1 Start: 56, Stop: 547, Start Num: 34
Candidate Starts for PotPie_1:
(Start: 34 @56 has 26 MA's), (Start: 50 @98 has 2 MA's), (Start: 62 @146 has 1 MA's), (86, 224), (95, 272), (97, 284), (124, 359), (125, 365), (131, 404), (133, 413), (136, 434),

Gene: Pringar_33 Start: 10053, Stop: 10487, Start Num: 45
Candidate Starts for Pringar_33:
(2, 9918), (Start: 45 @10053 has 46 MA's), (Start: 65 @10134 has 6 MA's), (96, 10254), (104, 10284), (125, 10344), (156, 10479),

Gene: PsychoKiller_1 Start: 52, Stop: 543, Start Num: 33
Candidate Starts for PsychoKiller_1:
(21, 22), (Start: 33 @52 has 16 MA's), (Start: 50 @97 has 2 MA's), (72, 187), (86, 223), (95, 271), (111, 319), (125, 364),

Gene: Pumpkins_1 Start: 86, Stop: 550, Start Num: 45
Candidate Starts for Pumpkins_1:
(Start: 45 @86 has 46 MA's), (99, 305), (143, 503), (154, 533),

Gene: Pytheas_1 Start: 82, Stop: 504, Start Num: 42
Candidate Starts for Pytheas_1:
(Start: 37 @73 has 3 MA's), (Start: 42 @82 has 24 MA's), (84, 226), (91, 265), (105, 325), (135, 436), (142, 472), (145, 481),

Gene: Quasar_1 Start: 679, Stop: 1164, Start Num: 35
Candidate Starts for Quasar_1:
(Start: 35 @679 has 1 MA's), (Start: 60 @757 has 1 MA's), (72, 808), (89, 862), (95, 892), (97, 904), (111, 940), (125, 985),

Gene: QueenHazel_1 Start: 67, Stop: 540, Start Num: 41
Candidate Starts for QueenHazel_1:
(Start: 35 @55 has 1 MA's), (Start: 41 @67 has 4 MA's), (63, 151), (71, 187), (100, 292), (104, 304), (105, 307), (119, 340), (123, 352), (131, 403), (155, 499), (159, 508),

Gene: Raela_33 Start: 10296, Stop: 10730, Start Num: 43

Candidate Starts for Raela_33:
(Start: 38 @10287 has 1 MA's), (Start: 43 @10296 has 4 MA's), (Start: 65 @10377 has 6 MA's), (96, 10497), (104, 10527), (125, 10587), (156, 10722),

Gene: RanchParmCat_1 Start: 49, Stop: 504, Start Num: 34
Candidate Starts for RanchParmCat_1:
(Start: 34 @49 has 26 MA's), (95, 262), (125, 355), (133, 403), (153, 490),

Gene: RedBaron_1 Start: 52, Stop: 543, Start Num: 33
Candidate Starts for RedBaron_1:
(21, 22), (Start: 33 @52 has 16 MA's), (Start: 50 @97 has 2 MA's), (72, 187), (86, 223), (89, 241), (95, 271), (111, 319), (125, 364), (163, 526),

Gene: RedRaider77_33 Start: 10197, Stop: 10631, Start Num: 45
Candidate Starts for RedRaider77_33:
(2, 10062), (Start: 45 @10197 has 46 MA's), (Start: 65 @10278 has 6 MA's), (96, 10398), (104, 10428), (125, 10488), (156, 10623),

Gene: Reedo_1 Start: 95, Stop: 547, Start Num: 45
Candidate Starts for Reedo_1:
(Start: 45 @95 has 46 MA's), (Start: 51 @122 has 1 MA's), (78, 224), (143, 497), (151, 518), (154, 527),

Gene: Renaud18_1 Start: 55, Stop: 477, Start Num: 42
Candidate Starts for Renaud18_1:
(8, 16), (Start: 42 @55 has 24 MA's), (Start: 62 @136 has 1 MA's), (91, 238), (108, 307), (128, 376), (142, 445), (145, 454),

Gene: SPB78_1 Start: 51220, Stop: 426, Start Num: 36
Candidate Starts for SPB78_1:
(20, 51184), (Start: 36 @51220 has 5 MA's), (40, 51229), (Start: 60 @51298 has 1 MA's), (82, 51373), (88, 51406), (132, 51580),

Gene: ShakeItOph_1 Start: 132, Stop: 560, Start Num: 45
Candidate Starts for ShakeItOph_1:
(Start: 45 @132 has 46 MA's), (121, 417), (143, 534),

Gene: SheckWes_1 Start: 98, Stop: 547, Start Num: 50
Candidate Starts for SheckWes_1:
(Start: 34 @56 has 26 MA's), (Start: 50 @98 has 2 MA's), (Start: 62 @146 has 1 MA's), (85, 221), (86, 224), (95, 272), (97, 284), (124, 359), (125, 365), (131, 404), (133, 413), (136, 434),

Gene: SketchMex_1 Start: 52, Stop: 534, Start Num: 33
Candidate Starts for SketchMex_1:
(21, 22), (Start: 33 @52 has 16 MA's), (Start: 50 @97 has 2 MA's), (72, 187), (86, 223), (89, 241), (95, 271), (125, 364), (133, 412), (162, 523),

Gene: Snek_2 Start: 958, Stop: 1422, Start Num: 45
Candidate Starts for Snek_2:
(Start: 45 @958 has 46 MA's), (111, 1207), (151, 1396), (154, 1405),

Gene: Soondubu_1 Start: 140, Stop: 571, Start Num: 45
Candidate Starts for Soondubu_1:

(Start: 45 @140 has 46 MA's), (151, 545), (154, 554),

Gene: Sopespian_1 Start: 52, Stop: 543, Start Num: 33
Candidate Starts for Sopespian_1:
(21, 22), (Start: 33 @52 has 16 MA's), (Start: 50 @97 has 2 MA's), (72, 187), (86, 223), (95, 271), (111, 319), (125, 364),

Gene: Sparky_1 Start: 98, Stop: 529, Start Num: 42
Candidate Starts for Sparky_1:
(6, 2), (14, 35), (28, 74), (Start: 42 @98 has 24 MA's), (70, 209), (91, 281), (126, 407), (128, 422), (142, 497),

Gene: SteamedHams_1 Start: 59, Stop: 535, Start Num: 36
Candidate Starts for SteamedHams_1:
(17, 14), (Start: 36 @59 has 5 MA's), (53, 107), (72, 188), (89, 242), (95, 272), (125, 365), (133, 413), (162, 524),

Gene: SuMoo_1 Start: 124, Stop: 603, Start Num: 46
Candidate Starts for SuMoo_1:
(16, 58), (22, 79), (Start: 46 @124 has 9 MA's), (Start: 51 @145 has 1 MA's), (112, 373), (130, 457), (145, 526),

Gene: Success_49 Start: 25367, Stop: 25792, Start Num: 43
Candidate Starts for Success_49:
(Start: 43 @25367 has 4 MA's), (58, 25412), (64, 25433), (99, 25568), (105, 25586), (119, 25619), (128, 25664), (132, 25688), (144, 25748), (146, 25754),

Gene: Sue2_1 Start: 75, Stop: 542, Start Num: 45
Candidate Starts for Sue2_1:
(8, 12), (Start: 45 @75 has 46 MA's), (Start: 51 @102 has 1 MA's), (90, 249), (113, 342), (151, 513), (154, 522),

Gene: SummitAcademy_1 Start: 56, Stop: 547, Start Num: 34
Candidate Starts for SummitAcademy_1:
(Start: 34 @56 has 26 MA's), (Start: 50 @98 has 2 MA's), (Start: 62 @146 has 1 MA's), (85, 221), (86, 224), (95, 272), (124, 359), (125, 365), (131, 404), (133, 413), (136, 434),

Gene: Survivors_2 Start: 426, Stop: 911, Start Num: 34
Candidate Starts for Survivors_2:
(24, 399), (Start: 34 @426 has 26 MA's), (Start: 60 @507 has 1 MA's), (95, 660), (100, 681), (125, 753), (131, 792),

Gene: SweatNTears_2 Start: 757, Stop: 1155, Start Num: 60
Candidate Starts for SweatNTears_2:
(Start: 35 @679 has 1 MA's), (Start: 60 @757 has 1 MA's), (72, 808), (89, 862), (95, 892), (97, 904), (111, 940), (125, 985), (162, 1144),

Gene: TChen_1 Start: 55, Stop: 477, Start Num: 42
Candidate Starts for TChen_1:
(7, 7), (8, 16), (Start: 42 @55 has 24 MA's), (Start: 62 @136 has 1 MA's), (91, 238), (108, 307), (109, 310), (128, 376), (135, 409), (142, 445), (145, 454),

Gene: Tallboi_1 Start: 85, Stop: 537, Start Num: 45

Candidate Starts for Tallboi_1:
(Start: 45 @85 has 46 MA's), (151, 511),

Gene: Tesla_32 Start: 10046, Stop: 10480, Start Num: 45
Candidate Starts for Tesla_32:
(2, 9911), (Start: 45 @10046 has 46 MA's), (Start: 65 @10127 has 6 MA's), (96, 10247), (104, 10277), (125, 10337), (156, 10472),

Gene: ThetaBob_1 Start: 55, Stop: 477, Start Num: 42
Candidate Starts for ThetaBob_1:
(8, 16), (Start: 42 @55 has 24 MA's), (Start: 62 @136 has 1 MA's), (91, 238), (108, 307), (109, 310), (128, 376), (142, 445), (145, 454),

Gene: Tian_1 Start: 84, Stop: 536, Start Num: 44
Candidate Starts for Tian_1:
(8, 12), (29, 54), (Start: 44 @84 has 2 MA's), (138, 471), (151, 510),

Gene: Tolls_1 Start: 59, Stop: 535, Start Num: 36
Candidate Starts for Tolls_1:
(17, 14), (Start: 36 @59 has 5 MA's), (53, 107), (72, 188), (89, 242), (95, 272), (111, 320), (125, 365), (133, 413), (162, 524),

Gene: Toron_1 Start: 55, Stop: 477, Start Num: 42
Candidate Starts for Toron_1:
(8, 16), (Start: 42 @55 has 24 MA's), (64, 142), (86, 214), (91, 238), (105, 298), (108, 307), (109, 310), (128, 376), (131, 394), (142, 445), (145, 454),

Gene: Troje_1 Start: 53, Stop: 535, Start Num: 33
Candidate Starts for Troje_1:
(17, 14), (Start: 33 @53 has 16 MA's), (Start: 50 @98 has 2 MA's), (72, 188), (89, 242), (95, 272), (125, 365), (133, 413), (162, 524),

Gene: Tuck_2 Start: 1145, Stop: 1597, Start Num: 45
Candidate Starts for Tuck_2:
(4, 1040), (Start: 45 @1145 has 46 MA's), (138, 1532), (143, 1550), (151, 1571),

Gene: Turab_1 Start: 85, Stop: 540, Start Num: 45
Candidate Starts for Turab_1:
(Start: 45 @85 has 46 MA's), (78, 214), (151, 511), (154, 520),

Gene: Tweety19_2 Start: 958, Stop: 1422, Start Num: 45
Candidate Starts for Tweety19_2:
(Start: 45 @958 has 46 MA's), (111, 1207), (151, 1396), (154, 1405),

Gene: Typhonomachy_1 Start: 52, Stop: 543, Start Num: 33
Candidate Starts for Typhonomachy_1:
(21, 22), (Start: 33 @52 has 16 MA's), (Start: 50 @97 has 2 MA's), (72, 187), (86, 223), (89, 241), (95, 271), (111, 319), (125, 364),

Gene: UtzChips_1 Start: 114, Stop: 596, Start Num: 46
Candidate Starts for UtzChips_1:
(39, 108), (Start: 46 @114 has 9 MA's), (112, 363), (130, 447), (145, 519),

Gene: VResidence_1 Start: 140, Stop: 604, Start Num: 45
Candidate Starts for VResidence_1:
(Start: 45 @140 has 46 MA's), (Start: 51 @167 has 1 MA's), (90, 314), (132, 503), (143, 557), (151, 578), (154, 587),

Gene: VWB_1 Start: 1, Stop: 480, Start Num: 36
Candidate Starts for VWB_1:
(Start: 36 @1 has 5 MA's), (40, 10), (59, 76), (82, 154), (88, 187), (132, 361), (133, 364),

Gene: VasuNzinga_33 Start: 9630, Stop: 10064, Start Num: 45
Candidate Starts for VasuNzinga_33:
(2, 9495), (Start: 45 @9630 has 46 MA's), (Start: 65 @9711 has 6 MA's), (96, 9831), (104, 9861), (125, 9921), (156, 10056),

Gene: Vine_2 Start: 681, Stop: 1172, Start Num: 34
Candidate Starts for Vine_2:
(Start: 34 @681 has 26 MA's), (53, 732), (Start: 60 @762 has 1 MA's), (72, 813), (86, 849), (95, 897), (97, 909), (111, 945), (124, 984), (125, 990), (131, 1029), (133, 1038), (136, 1059),

Gene: VroomVroom_1 Start: 132, Stop: 563, Start Num: 45
Candidate Starts for VroomVroom_1:
(Start: 45 @132 has 46 MA's), (67, 228), (114, 393), (138, 519),

Gene: Wildwest_2 Start: 1032, Stop: 1481, Start Num: 45
Candidate Starts for Wildwest_2:
(1, 825), (Start: 45 @1032 has 46 MA's), (98, 1248), (151, 1455), (154, 1464),

Gene: Wrigley_1 Start: 82, Stop: 504, Start Num: 42
Candidate Starts for Wrigley_1:
(Start: 37 @73 has 3 MA's), (Start: 42 @82 has 24 MA's), (84, 226), (91, 265), (105, 325), (126, 388), (135, 436), (142, 472), (145, 481),

Gene: Xula_1 Start: 67, Stop: 540, Start Num: 41
Candidate Starts for Xula_1:
(Start: 35 @55 has 1 MA's), (Start: 41 @67 has 4 MA's), (63, 151), (71, 187), (100, 292), (104, 304), (105, 307), (119, 340), (123, 352), (131, 403), (159, 508),

Gene: Yakult_1 Start: 48, Stop: 503, Start Num: 34
Candidate Starts for Yakult_1:
(Start: 34 @48 has 26 MA's), (Start: 62 @135 has 1 MA's), (72, 177), (95, 261), (125, 354), (133, 402), (153, 489),

Gene: Yang_1 Start: 84, Stop: 548, Start Num: 45
Candidate Starts for Yang_1:
(29, 54), (Start: 45 @84 has 46 MA's), (143, 501), (154, 531),

Gene: Yarn_1 Start: 59, Stop: 535, Start Num: 36
Candidate Starts for Yarn_1:
(17, 14), (Start: 36 @59 has 5 MA's), (53, 107), (72, 188), (89, 242), (95, 272), (111, 320), (125, 365), (133, 413), (162, 524),

Gene: Yummy_1 Start: 53, Stop: 535, Start Num: 33
Candidate Starts for Yummy_1:

(17, 14), (Start: 33 @53 has 16 MA's), (Start: 50 @98 has 2 MA's), (72, 188), (89, 242), (95, 272), (125, 365), (133, 413), (162, 524),

Gene: Zareef_2 Start: 426, Stop: 923, Start Num: 34
Candidate Starts for Zareef_2:
(24, 399), (Start: 34 @426 has 26 MA's), (Start: 60 @507 has 1 MA's), (95, 660), (100, 681), (125, 753), (131, 792), (156, 900),