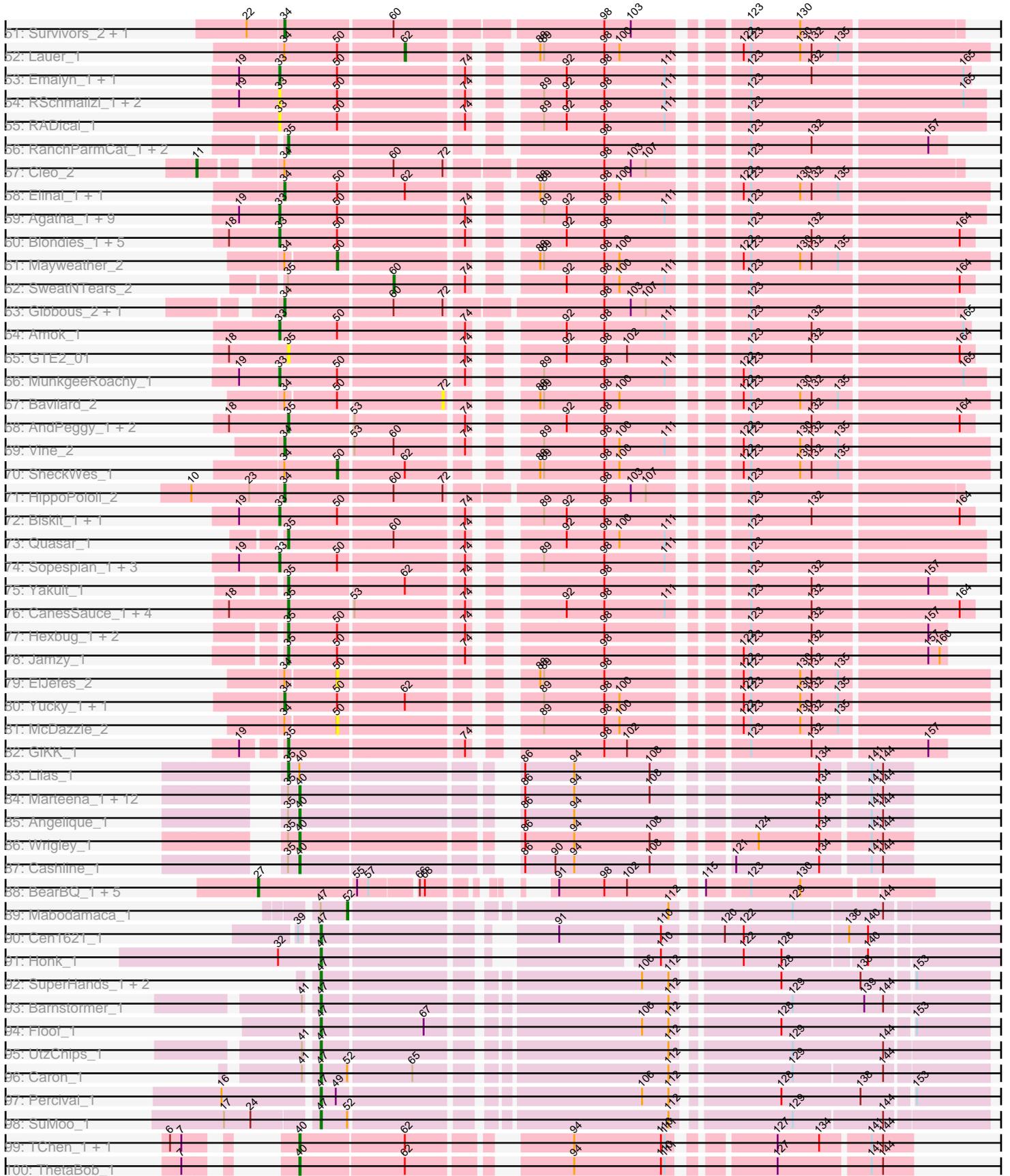
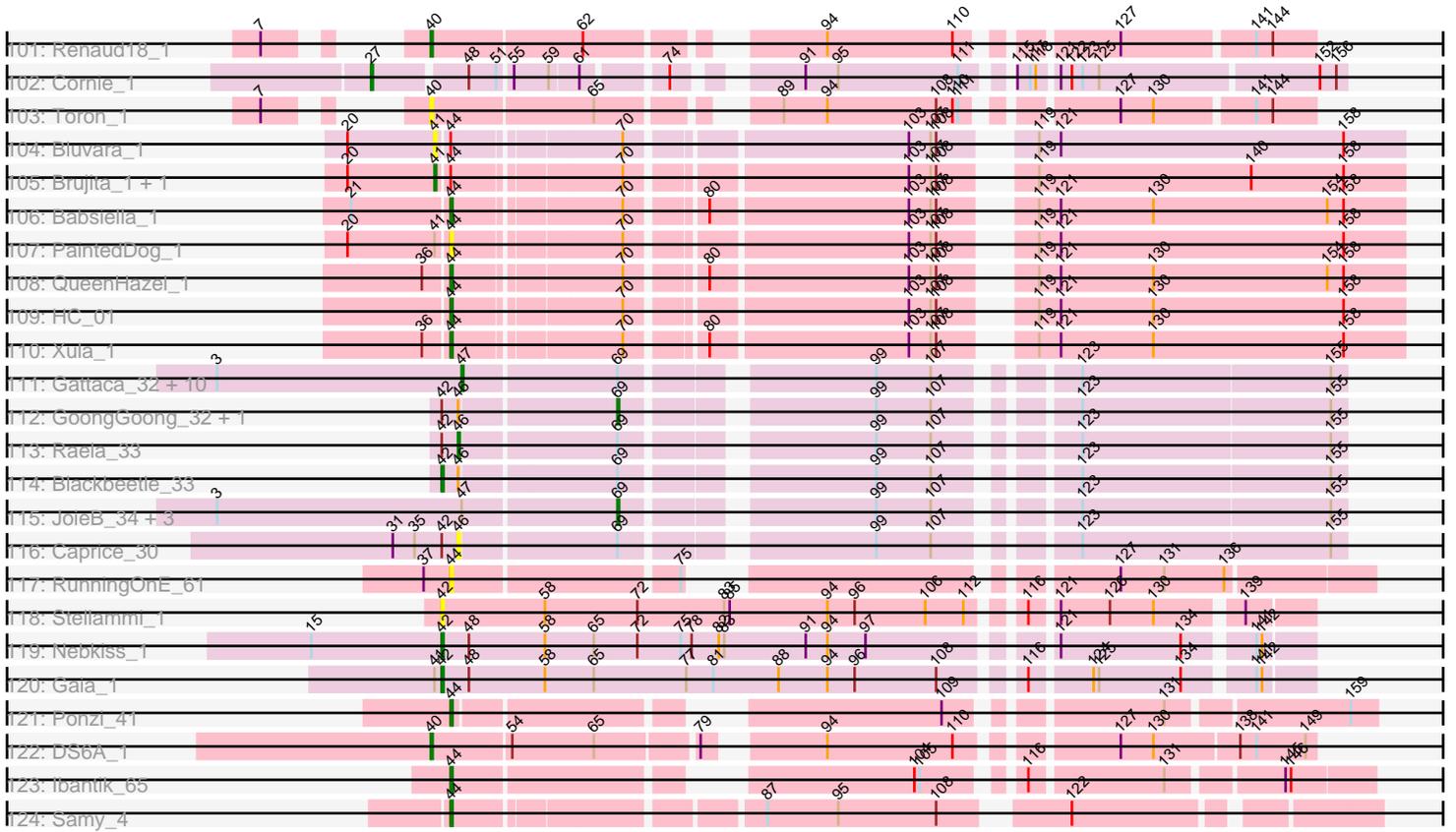


Pham 290793



Pham 290793



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 290793 Report

This analysis was run 03/28/26 on database version 641.

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 290793 has 264 members, 55 are drafts.

Phages represented in each track:

- Track 1 : NoShow_1
- Track 2 : FF47_04, Muddy_4, LongHai_5, 8UZL_4, Maco6_2, Salvus_5
- Track 3 : JacoRen57_1
- Track 4 : Farewell_1
- Track 5 : Sparky_1
- Track 6 : ThursdayNight_1
- Track 7 : Schaffner_1
- Track 8 : Janeemi_2
- Track 9 : IttyBittyPiggy_1
- Track 10 : Reedo_1
- Track 11 : London_1, Eraser_1, Subaru_1, Elezi_1, Lizalica_1, Skelbel_1, Niobe_1, Jstan_1
- Track 12 : Yang_1, JuneStar_1
- Track 13 : Joemato_1, Warda_1, Cyan_1, YesChef_1, Flutur_1, Tbone_1, JohnDoe_1, Kaylissa_1, Tutumahutu_1, Simpson_1, Lego_1, Powerpuff_1
- Track 14 : Pixelle_1, Amyev_1, Tian_1
- Track 15 : AEgle_1, DrManhattan_1, Amploria_1, Adolin_1, Turab_1, Adumb2043_1
- Track 16 : Sue2_1
- Track 17 : Tallboi_1, DrSierra_1, ObiToo_1
- Track 18 : VResidence_1
- Track 19 : Berrie_1
- Track 20 : Nitro_1
- Track 21 : KeAlii_1
- Track 22 : Mudpuppy_1
- Track 23 : Crewmate_1, Iter_1, Ascela_1
- Track 24 : Phives_2, Community_2, Tuck_2
- Track 25 : Cassia_1, Pumpkins_1
- Track 26 : MissSwiss_1
- Track 27 : Asa16_1
- Track 28 : Wildwest_2
- Track 29 : TforTroy_1
- Track 30 : MaGuCo_1
- Track 31 : IUFootball_1, Liebe_1, Maureen_1

- Track 32 : Tweety19_2, Snek_2
- Track 33 : JasmineDragon_1, ShakeltOph_1, MiniMommy_1
- Track 34 : Origami_1, FiveHead_1, JohnThicc_1, LadyAstra_1
- Track 35 : VroomVroom_1
- Track 36 : Emotion_1
- Track 37 : Gumpizza_1, Giorgio_1, Moss_1, Mysterium_1, Halsey_1, Beaupre_1, Stuu_1, Ashes_1, RockScotty_1, SpecialK_1
- Track 38 : Cappuccino_1, Sabourin_1, Donkey_1, Kalimba_1, Gambol_1
- Track 39 : Sooty_1
- Track 40 : Soondubu_1
- Track 41 : Exile_1
- Track 42 : AinMach_1
- Track 43 : SPB78_1
- Track 44 : VWB_1
- Track 45 : Spooks_48
- Track 46 : Bimmel_46
- Track 47 : Success_49
- Track 48 : MaVan_2, Wolfwood_2, Azira_2, Zareef_2, Nibbles_2
- Track 49 : CocoaPuff_1, MAnor_1, Feastonyeet_1, SummitAcademy_1, CherryonLim_1, BigChungus_1, Pons_1
- Track 50 : Tarnish_1, Balloona_1
- Track 51 : Survivors_2, Fribs8_2
- Track 52 : Lauer_1
- Track 53 : Emalyn_1, AikoCarson_1
- Track 54 : RSchmailzl_1, RedBaron_1, Carsonalex_1
- Track 55 : RADical_1
- Track 56 : RanchParmCat_1, Button_1, Margaret_1
- Track 57 : Cleo_2
- Track 58 : Elinal_1, KayGee_1
- Track 59 : Agatha_1, Cozz_1, Nina_1, ChickenTender_1, Bubble_1, Typhonomachy_1, GoldHunter_1, Socotra_1, Starburst_1, Axym_1
- Track 60 : Blondies_1, Horseradish_1, Troje_1, MScarn_1, Buttrmilkdreams_1, Yummy_1
- Track 61 : Mayweather_2
- Track 62 : SweatNTears_2
- Track 63 : Gibbous_2, Dre3_2
- Track 64 : Amok_1
- Track 65 : GTE2_01
- Track 66 : MunkgeeRoachy_1
- Track 67 : Bavidard_2
- Track 68 : AndPeggy_1, SteamedHams_1, BillDoor_1
- Track 69 : Vine_2
- Track 70 : SheckWes_1
- Track 71 : HippoPololi_2
- Track 72 : Biskit_1, SketchMex_1
- Track 73 : Quasar_1
- Track 74 : Sopespian_1, PsychoKiller_1, Burnsey_1, Elliott_1
- Track 75 : Yakult_1
- Track 76 : CanesSauce_1, Tolls_1, ChocoMunchkin_1, CaramelLatte_1, Yarn_1
- Track 77 : Hexbug_1, Orla_1, Nodigi_1
- Track 78 : Jamzy_1
- Track 79 : ElJefes_2
- Track 80 : Yucky_1, PotPie_1

- Track 81 : McDazzle_2
- Track 82 : GiKK_1
- Track 83 : Lilas_1
- Track 84 : Marteena_1, EnalisNailo_1, Jablanski_1, Posh_1, BritBrat_1, BeeGee_1, Confidence_1, Bradissa_1, EMSquaredA_1, Pytheas_1, Pollux_1, LonelyBoi_1, Floral_1
- Track 85 : Angelique_1
- Track 86 : Wrigley_1
- Track 87 : Cashline_1
- Track 88 : BearBQ_1, MortyNRick_1, Kuwabara_1, Crater_1, Apricot_1, Birdsong_1
- Track 89 : Mabodamaca_1
- Track 90 : Cen1621_1
- Track 91 : Honk_1
- Track 92 : SuperHands_1, Forester_2, Gretchen_1
- Track 93 : Barnstormer_1
- Track 94 : Floof_1
- Track 95 : UtzChips_1
- Track 96 : Caron_1
- Track 97 : Percival_1
- Track 98 : SuMoo_1
- Track 99 : TChen_1, LunaStella_1
- Track 100 : ThetaBob_1
- Track 101 : Renaud18_1
- Track 102 : Cornie_1
- Track 103 : Toron_1
- Track 104 : Bluvara_1
- Track 105 : Brujita_1, Island3_1
- Track 106 : Babsiella_1
- Track 107 : PaintedDog_1
- Track 108 : QueenHazel_1
- Track 109 : HC_01
- Track 110 : Xula_1
- Track 111 : Gattaca_32, RedRaider77_33, Huphlepuuff_35, Tesla_32, Pringar_33, Lilbit_32, LittleLaf_33, Corazon_31, VasuNzinga_33, FeliMaine_35, Clarkson_34
- Track 112 : GoongGoong_32, Poise_33
- Track 113 : Raela_33
- Track 114 : Blackbeetle_33
- Track 115 : JoieB_34, Marvin_31, MosMoris_31, Beelzebub_37
- Track 116 : Caprice_30
- Track 117 : RunningOnE_61
- Track 118 : Stellammi_1
- Track 119 : Nebkiss_1
- Track 120 : Gaia_1
- Track 121 : Ponzi_41
- Track 122 : DS6A_1
- Track 123 : Ibantik_65
- Track 124 : Samy_4

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

The start number called the most often in the published annotations is 44, it was called in 65 of the 209 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AEgle_1, Adolin_1, Adumb2043_1, AinMach_1, Amploria_1, Asa16_1, Ascela_1, Babsiella_1, Berrie_1, Bimmel_46, Cassia_1, Community_2, Crewmate_1, Cyan_1, DrManhattan_1, DrSierra_1, Elezi_1, Emotion_1, Eraser_1, Exile_1, FiveHead_1, Flutur_1, HC_01, IUFootball_1, Ibantik_65, Iter_1, IttyBittyPiggy_1, Janeemi_2, JasmineDragon_1, Joemato_1, JohnDoe_1, JohnThicc_1, Jstan_1, JuneStar_1, Kaylissa_1, KeAlii_1, LadyAstra_1, Lego_1, Liebe_1, Lizalica_1, London_1, MaGuCo_1, Maureen_1, MiniMommy_1, MissSwiss_1, Mudpuppy_1, Niobe_1, Nitro_1, ŌbiToo_1, Origami_1, PaintedDog_1, Phives_2, Ponzi_41, Powerpuff_1, Pumpkins_1, QueenHazel_1, Reedo_1, RunningOnE_61, Samy_4, Schaffner_1, ShakeltOph_1, Simpson_1, Skelbel_1, Snek_2, Soondubu_1, Spooks_48, Subaru_1, Success_49, Sue2_1, Tallboi_1, Tbone_1, TforTroy_1, ThursdayNight_1, Tuck_2, Turab_1, Tutumahutu_1, Tweety19_2, VResidence_1, VroomVroom_1, Warda_1, Wildwest_2, Xula_1, Yang_1, YesChef_1,

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

- Bluvara_1, Brujita_1, Island3_1,

Genes that do not have the "Most Annotated" start:

- 8UZL_4, Agatha_1, AikoCarson_1, Amok_1, Amyev_1, AndPeggy_1, Angelique_1, Apricot_1, Ashes_1, Axym_1, Azira_2, Balloona_1, Barnstormer_1, Bavailard_2, BearBQ_1, Beaupre_1, BeeGee_1, Beelzebub_37, BigChungus_1, BillDoor_1, Birdsong_1, Biskit_1, Blackbeetle_33, Blondies_1, Bradissa_1, BritBrat_1, Bubble_1, Burnsey_1, Button_1, Buttrmlkdreams_1, CanesSauce_1, Cappuccino_1, Caprice_30, CaramelLatte_1, Caron_1, Carsonalex_1, Cashline_1, Cen1621_1, CherryonLim_1, ChickenTender_1, ChocoMunchkin_1, Clarkson_34, Cleo_2, CocoaPuff_1, Confidence_1, Corazon_31, Cornie_1, Cozz_1, Crater_1, DS6A_1, Donkey_1, Dre3_2, EMSquaredA_1, ElJefes_2, Elinal_1, Elliott_1, Emalyn_1, EnalisNailo_1, FF47_04, Farewell_1, Feastonyeet_1, FeliMaine_35, Floof_1, Floral_1, Forester_2, Fribs8_2, GTE2_01, Gaia_1, Gambol_1, Gattaca_32, GiKK_1, Gibbous_2, Giorgio_1, GoldHunter_1, GoongGoong_32, Gretchen_1, Gumpizza_1, Halsey_1, Hexbug_1, HippoPololi_2, Honk_1, Horseradish_1, Huphlepuuff_35, Jablanski_1, JacoRen57_1, Jamzy_1, JoieB_34, Kalimba_1, KayGee_1, Kuwabara_1, Lauer_1, Lilas_1, Lilbit_32, LittleLaf_33, LonelyBoi_1, LongHai_5, LunaStella_1, MAnor_1, MScarn_1, MaVan_2, Mabodamaca_1, Maco6_2, Margaret_1, Marteenaa_1, Marvin_31, Mayweather_2, McDazzle_2, MortyNRick_1, MosMoris_31, Moss_1, Muddy_4, MunkgeeRoachy_1, Mysterium_1, Nebkiss_1, Nibbles_2, Nina_1, NoShow_1, Nodigi_1, Orla_1, Percival_1, Pixelle_1, Poise_33, Pollux_1, Pons_1, Posh_1, PotPie_1, Pringar_33, PsychoKiller_1, Pytheas_1, Quasar_1, RADical_1, RSchmailzl_1, Raela_33, RanchParmCat_1, RedBaron_1, RedRaider77_33, Renaud18_1, RockScotty_1, SPB78_1, Sabourin_1, Salvus_5, SheckWes_1, SketchMex_1, Socotra_1, Sooty_1, Sopespian_1, Sparky_1, SpecialK_1, Starburst_1, SteamedHams_1, Stellammi_1, Stuu_1, SuMoo_1, SummitAcademy_1, SuperHands_1, Survivors_2, SweatNTears_2, TChen_1, Tarnish_1, Tesla_32, ThetaBob_1, Tian_1, Tolls_1, Toron_1, Troje_1, Typhonomachy_1, UtzChips_1, VWB_1, VasuNzinga_33, Vine_2, Wolfwood_2, Wrigley_1, Yakult_1, Yarn_1, Yucky_1, Yummy_1, Zareef_2,

Summary by start number:

Start 11:

- Found in 1 of 264 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 209
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cleo_2 (CT),

Start 12:

- Found in 1 of 264 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 209
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Farewell_1 (AF),

Start 24:

- Found in 2 of 264 (0.8%) of genes in pham
- Manual Annotations of this start: 1 of 209
- Called 50.0% of time when present
- Phage (with cluster) where this start called: NoShow_1 (AB),

Start 27:

- Found in 9 of 264 (3.4%) of genes in pham
- Manual Annotations of this start: 7 of 209
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Apricot_1 (DN3), BearBQ_1 (DN), Birdsong_1 (DN), Cornie_1 (F5), Crater_1 (DN3), Kuwabara_1 (DN4), MortyNRick_1 (DN), SPB78_1 (BA), VWB_1 (BA),

Start 33:

- Found in 30 of 264 (11.4%) of genes in pham
- Manual Annotations of this start: 19 of 209
- 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), Blondies_1 (CT), Bubble_1 (CT), Burnsey_1 (CT), Buttrmilkdreams_1 (CT), Carsonalex_1 (CT), ChickenTender_1 (CT), Cozz_1 (CT), Elliott_1 (CT), Emalyn_1 (CT), GoldHunter_1 (CT), Horseradish_1 (CT), MScarn_1 (CT), MunkgeeRoachy_1 (CT), Nina_1 (CT), PsychoKiller_1 (CT), RADical_1 (CT), RSchmailzl_1 (CT), RedBaron_1 (CT), SketchMex_1 (CT), Socotra_1 (CT), Sopespian_1 (CT), Starburst_1 (CT), Troje_1 (CT), Typhonomachy_1 (CT), Yummy_1 (CT),

Start 34:

- Found in 31 of 264 (11.7%) of genes in pham
- Manual Annotations of this start: 20 of 209
- Called 71.0% of time when present
- Phage (with cluster) where this start called: Azira_2 (CT), BigChungus_1 (CT), CherryonLim_1 (CT), CocoaPuff_1 (CT), Dre3_2 (CT), Elinal_1 (CT), Feastonyeet_1 (CT), Fribs8_2 (CT), Gibbous_2 (CT), HippoPololi_2 (CT), KayGee_1 (CT), MAnor_1 (CT), MaVan_2 (CT), Nibbles_2 (CT), Pons_1 (CT), PotPie_1 (CT), SummitAcademy_1 (CT), Survivors_2 (CT), Vine_2 (CT), Wolfwood_2 (CT), Yucky_1 (CT), Zareef_2 (CT),

Start 35:

- Found in 38 of 264 (14.4%) of genes in pham
- Manual Annotations of this start: 16 of 209

- Called 52.6% of time when present
- Phage (with cluster) where this start called: AndPeggy_1 (CT), BillDoor_1 (CT), Button_1 (CT), CanesSauce_1 (CT), CaramelLatte_1 (CT), ChocoMunchkin_1 (CT), GTE2_01 (CT), GiKK_1 (CT), Hexbug_1 (CT), Jamzy_1 (CT), Lilas_1 (CY1), Margaret_1 (CT), Nodigi_1 (CT), Orla_1 (CT), Quasar_1 (CT), RanchParmCat_1 (CT), SteamedHams_1 (CT), Tolls_1 (CT), Yakult_1 (CT), Yarn_1 (CT),

Start 40:

- Found in 25 of 264 (9.5%) of genes in pham
- Manual Annotations of this start: 22 of 209
- Called 92.0% of time when present
- Phage (with cluster) where this start called: Angelique_1 (CY1), BeeGee_1 (CY5), Bradissa_1 (CY1), BritBrat_1 (CY2), Cashline_1 (CY6), Confidence_1 (CY1), DS6A_1 (singleton), EMSquaredA_1 (CY1), EnalisNailo_1 (CY1), Floral_1 (CY1), Jablanski_1 (CY3), LonelyBoi_1 (CY7), LunaStella_1 (F4), Marteena_1 (CY1), Pollux_1 (CY1), Posh_1 (CY4), Pytheas_1 (CY3), Renaud18_1 (F4), Sparky_1 (AF), TChen_1 (F4), ThetaBob_1 (F4), Toron_1 (F6), Wrigley_1 (CY4),

Start 41:

- Found in 8 of 264 (3.0%) of genes in pham
- Manual Annotations of this start: 2 of 209
- Called 37.5% of time when present
- Phage (with cluster) where this start called: Bluvara_1 (I), Brujita_1 (I1), Island3_1 (I1),

Start 42:

- Found in 8 of 264 (3.0%) of genes in pham
- Manual Annotations of this start: 3 of 209
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Blackbeetle_33 (S), Gaia_1 (X), Nebkiss_1 (X), Stellammi_1 (UNK),

Start 43:

- Found in 3 of 264 (1.1%) of genes in pham
- Manual Annotations of this start: 2 of 209
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Amyev_1 (AZ1), Pixelle_1 (AZ1), Tian_1 (AZ1),

Start 44:

- Found in 87 of 264 (33.0%) of genes in pham
- Manual Annotations of this start: 65 of 209
- Called 96.6% of time when present
- Phage (with cluster) where this start called: AEgle_1 (AZ1), Adolin_1 (AZ1), Adumb2043_1 (AZ1), AinMach_1 (AZ7), Amploria_1 (AZ1), Asa16_1 (AZ1), Ascela_1 (AZ1), Babsiella_1 (I1), Berrie_1 (AZ1), Bimmel_46 (BT), Cassia_1 (AZ1), Community_2 (AZ1), Crewmate_1 (AZ1), Cyan_1 (AZ1), DrManhattan_1 (AZ1), DrSierra_1 (AZ1), Elezi_1 (AZ1), Emotion_1 (AZ4), Eraser_1 (AZ1), Exile_1 (AZ6), FiveHead_1 (AZ4), Flutur_1 (AZ), HC_01 (I1), IUFootball_1 (AZ2), Ibantik_65 (singleton), Iter_1 (AZ1), IttyBittyPiggy_1 (AZ1), Janeemi_2 (AZ1), JasmineDragon_1 (AZ4), Joemato_1 (AZ1), JohnDoe_1 (AZ1), JohnThicc_1 (AZ4), Jstan_1 (AZ1), JuneStar_1 (AZ1), Kaylissa_1 (AZ1), KeAlii_1 (AZ1), LadyAstra_1 (AZ4), Lego_1 (AZ1), Liebe_1 (AZ2), Lizalica_1 (AZ1), London_1 (AZ1), MaGuCo_1 (AZ2),

Maureen_1 (AZ2), MiniMommy_1 (AZ4), MissSwiss_1 (AZ1), Mudpuppy_1 (AZ1), Niobe_1 (AZ1), Nitro_1 (AZ1), ObiToo_1 (AZ1), Origami_1 (AZ4), PaintedDog_1 (I1), Phives_2 (AZ1), Ponzi_41 (singleton), Powerpuff_1 (AZ1), Pumpkins_1 (AZ1), QueenHazel_1 (I1), Reedo_1 (AZ1), RunningOnE_61 (UNK), Samy_4 (singleton), Schaffner_1 (AZ1), ShakeltOph_1 (AZ4), Simpson_1 (AZ1), Skelbel_1 (AZ1), Snek_2 (AZ3), Soondubu_1 (AZ6), Spooks_48 (BT), Subaru_1 (AZ1), Success_49 (BT), Sue2_1 (AZ1), Tallboi_1 (AZ1), Tbone_1 (AZ1), TforTroy_1 (AZ1), ThursdayNight_1 (AZ), Tuck_2 (AZ1), Turab_1 (AZ1), Tutumahutu_1 (AZ1), Tweety19_2 (AZ3), VResidence_1 (AZ1), VroomVroom_1 (AZ4), Warda_1 (AZ1), Wildwest_2 (AZ1), Xula_1 (I1), Yang_1 (AZ1), YesChef_1 (AZ1),

Start 45:

- Found in 7 of 264 (2.7%) of genes in pham
- Manual Annotations of this start: 3 of 209
- Called 100.0% of time when present
- Phage (with cluster) where this start called: 8UZL_4 (AB), FF47_04 (AB), JacoRen57_1 (AB), LongHai_5 (AB), Maco6_2 (AB), Muddy_4 (AB), Salvus_5 (AB),

Start 46:

- Found in 5 of 264 (1.9%) of genes in pham
- Manual Annotations of this start: 1 of 209
- Called 40.0% of time when present
- Phage (with cluster) where this start called: Caprice_30 (S), Raela_33 (S),

Start 47:

- Found in 43 of 264 (16.3%) of genes in pham
- Manual Annotations of this start: 36 of 209
- Called 88.4% of time when present
- Phage (with cluster) where this start called: Ashes_1 (AZ5), Barnstormer_1 (EH), Beaupre_1 (AZ5), Cappuccino_1 (AZ5), Caron_1 (EH), Cen1621_1 (EH), Clarkson_34 (S), Corazon_31 (S), Donkey_1 (AZ5), FeliMaine_35 (S), Floop_1 (EH), Forester_2 (EH), Gambol_1 (AZ5), Gattaca_32 (S), Giorgio_1 (AZ5), Gretchen_1 (EH), Gumpizza_1 (AZ5), Halsey_1 (AZ5), Honk_1 (EH), Huphlepuuff_35 (S), Kalimba_1 (AZ5), Lilbit_32 (S), LittleLaf_33 (S), Moss_1 (AZ5), Mysterium_1 (AZ5), Percival_1 (EH), Pringar_33 (S), RedRaider77_33 (S), RockScotty_1 (AZ5), Sabourin_1 (AZ5), Sooty_1 (AZ5), SpecialK_1 (AZ5), Stuu_1 (AZ5), SuMoo_1 (EH), SuperHands_1 (EH), Tesla_32 (S), UtzChips_1 (EH), VasuNzinga_33 (S),

Start 50:

- Found in 53 of 264 (20.1%) of genes in pham
- Manual Annotations of this start: 2 of 209
- Called 11.3% of time when present
- Phage (with cluster) where this start called: Balloona_1 (CT), ElJefes_2 (CT), Mayweather_2 (CT), McDazzle_2 (CT), SheckWes_1 (CT), Tarnish_1 (CT),

Start 52:

- Found in 7 of 264 (2.7%) of genes in pham
- Manual Annotations of this start: 1 of 209
- Called 14.3% of time when present
- Phage (with cluster) where this start called: Mabodamaca_1 (EH),

Start 60:

- Found in 14 of 264 (5.3%) of genes in pham

- Manual Annotations of this start: 1 of 209
- Called 7.1% of time when present
- Phage (with cluster) where this start called: SweatNTears_2 (CT),

Start 62:

- Found in 23 of 264 (8.7%) of genes in pham
- Manual Annotations of this start: 1 of 209
- Called 4.3% of time when present
- Phage (with cluster) where this start called: Lauer_1 (CT),

Start 69:

- Found in 20 of 264 (7.6%) of genes in pham
- Manual Annotations of this start: 5 of 209
- Called 30.0% of time when present
- Phage (with cluster) where this start called: Beelzebub_37 (S), GoongGoong_32 (S), JoieB_34 (S), Marvin_31 (S), MosMoris_31 (S), Poise_33 (S),

Start 72:

- Found in 26 of 264 (9.8%) of genes in pham
- No Manual Annotations of this start.
- Called 3.8% of time when present
- Phage (with cluster) where this start called: Bavidard_2 (CT),

Summary by clusters:

There are 33 clusters represented in this pham: DN, singleton, BA, BT, CY6, UNK, I1, CY4, DN4, DN3, CY3, CY2, CY1, AB, CY7, EH, CY5, AF, I, S, X, AZ, CT, F4, F5, F6, AZ1, AZ2, AZ3, AZ4, AZ5, AZ6, AZ7,

Info for manual annotations of cluster AB:

- Start number 24 was manually annotated 1 time for cluster AB.
- Start number 45 was manually annotated 3 times for cluster AB.

Info for manual annotations of cluster AF:

- Start number 12 was manually annotated 1 time for cluster AF.
- Start number 40 was manually annotated 1 time for cluster AF.

Info for manual annotations of cluster AZ1:

- Start number 43 was manually annotated 2 times for cluster AZ1.
- Start number 44 was manually annotated 44 times for cluster AZ1.

Info for manual annotations of cluster AZ2:

- Start number 44 was manually annotated 3 times for cluster AZ2.

Info for manual annotations of cluster AZ3:

- Start number 44 was manually annotated 2 times for cluster AZ3.

Info for manual annotations of cluster AZ4:

- Start number 44 was manually annotated 5 times for cluster AZ4.

Info for manual annotations of cluster AZ5:

- Start number 47 was manually annotated 16 times for cluster AZ5.

Info for manual annotations of cluster AZ6:

- Start number 44 was manually annotated 1 time for cluster AZ6.

Info for manual annotations of cluster BT:

- Start number 44 was manually annotated 3 times for cluster BT.

Info for manual annotations of cluster CT:

- Start number 11 was manually annotated 1 time for cluster CT.
- Start number 33 was manually annotated 19 times for cluster CT.
- Start number 34 was manually annotated 20 times for cluster CT.
- Start number 35 was manually annotated 15 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 CY1:

- Start number 35 was manually annotated 1 time for cluster CY1.
- Start number 40 was manually annotated 8 times for cluster CY1.

Info for manual annotations of cluster CY2:

- Start number 40 was manually annotated 1 time for cluster CY2.

Info for manual annotations of cluster CY3:

- Start number 40 was manually annotated 2 times for cluster CY3.

Info for manual annotations of cluster CY4:

- Start number 40 was manually annotated 2 times for cluster CY4.

Info for manual annotations of cluster CY5:

- Start number 40 was manually annotated 1 time for cluster CY5.

Info for manual annotations of cluster CY6:

- Start number 40 was manually annotated 1 time for cluster CY6.

Info for manual annotations of cluster CY7:

- Start number 40 was manually annotated 1 time for cluster CY7.

Info for manual annotations of cluster DN:

- Start number 27 was manually annotated 3 times for cluster DN.

Info for manual annotations of cluster DN3:

- Start number 27 was manually annotated 2 times for cluster DN3.

Info for manual annotations of cluster DN4:

- Start number 27 was manually annotated 1 time for cluster DN4.

Info for manual annotations of cluster EH:

- Start number 47 was manually annotated 9 times for cluster EH.
- Start number 52 was manually annotated 1 time for cluster EH.

Info for manual annotations of cluster F4:

- Start number 40 was manually annotated 4 times for cluster F4.

Info for manual annotations of cluster F5:

- Start number 27 was manually annotated 1 time for cluster F5.

Info for manual annotations of cluster I1:

- Start number 41 was manually annotated 2 times for cluster I1.
- Start number 44 was manually annotated 4 times for cluster I1.

Info for manual annotations of cluster S:

- Start number 42 was manually annotated 1 time for cluster S.
- Start number 46 was manually annotated 1 time for cluster S.
- Start number 47 was manually annotated 11 times for cluster S.
- Start number 69 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: 45

Candidate Starts for 8UZL_4:

(25, 1274), (Start: 45 @1322 has 3 MA's), (61, 1385), (63, 1388), (73, 1418), (97, 1520), (151, 1745), (161, 1766), (163, 1775),

Gene: AEgle_1 Start: 85, Stop: 540, Start Num: 44

Candidate Starts for AEgle_1:

(Start: 44 @85 has 65 MA's), (84, 214), (153, 511), (157, 520),

Gene: Adolin_1 Start: 85, Stop: 537, Start Num: 44

Candidate Starts for Adolin_1:

(Start: 44 @85 has 65 MA's), (84, 214), (153, 508), (157, 517),

Gene: Adumb2043_1 Start: 85, Stop: 540, Start Num: 44

Candidate Starts for Adumb2043_1:

(Start: 44 @85 has 65 MA's), (84, 214), (153, 511), (157, 520),

Gene: Agatha_1 Start: 52, Stop: 543, Start Num: 33

Candidate Starts for Agatha_1:

(19, 22), (Start: 33 @52 has 19 MA's), (Start: 50 @97 has 2 MA's), (74, 187), (89, 223), (92, 241), (98, 271), (111, 319), (123, 364),

Gene: AikoCarson_1 Start: 52, Stop: 531, Start Num: 33

Candidate Starts for AikoCarson_1:

(19, 22), (Start: 33 @52 has 19 MA's), (Start: 50 @97 has 2 MA's), (74, 187), (92, 241), (98, 271), (111, 319), (123, 364), (132, 412), (165, 526),

Gene: AinMach_1 Start: 140, Stop: 574, Start Num: 44

Candidate Starts for AinMach_1:

(Start: 44 @140 has 65 MA's), (Start: 52 @167 has 1 MA's), (64, 212), (72, 239), (88, 281), (105, 359), (131, 473), (137, 509), (138, 512),

Gene: Amok_1 Start: 53, Stop: 532, Start Num: 33

Candidate Starts for Amok_1:

(Start: 33 @53 has 19 MA's), (Start: 50 @98 has 2 MA's), (74, 188), (92, 242), (98, 272), (111, 320), (123, 365), (132, 413), (165, 527),

Gene: Amploria_1 Start: 85, Stop: 540, Start Num: 44

Candidate Starts for Amploria_1:

(Start: 44 @85 has 65 MA's), (84, 214), (153, 511), (157, 520),

Gene: Amyev_1 Start: 84, Stop: 536, Start Num: 43

Candidate Starts for Amyev_1:

(10, 12), (29, 54), (Start: 43 @84 has 2 MA's), (137, 471), (153, 510),

Gene: AndPeggy_1 Start: 59, Stop: 535, Start Num: 35

Candidate Starts for AndPeggy_1:

(18, 14), (Start: 35 @59 has 16 MA's), (53, 107), (74, 188), (92, 242), (98, 272), (123, 365), (132, 413), (164, 524),

Gene: Angelique_1 Start: 82, Stop: 504, Start Num: 40

Candidate Starts for Angelique_1:

(Start: 35 @73 has 16 MA's), (Start: 40 @82 has 22 MA's), (86, 226), (94, 265), (134, 436), (141, 472), (144, 481),

Gene: Apricot_1 Start: 50, Stop: 484, Start Num: 27

Candidate Starts for Apricot_1:

(Start: 27 @50 has 7 MA's), (55, 125), (57, 134), (66, 167), (68, 170), (91, 218), (98, 254), (102, 272), (115, 317), (123, 347), (130, 386),

Gene: Asa16_1 Start: 84, Stop: 536, Start Num: 44

Candidate Starts for Asa16_1:

(Start: 44 @84 has 65 MA's), (84, 213), (137, 471), (143, 489), (153, 510), (157, 519),

Gene: Ascela_1 Start: 85, Stop: 537, Start Num: 44

Candidate Starts for Ascela_1:

(Start: 44 @85 has 65 MA's), (137, 472), (143, 490), (153, 511),

Gene: Ashes_1 Start: 139, Stop: 579, Start Num: 47

Candidate Starts for Ashes_1:

(Start: 47 @139 has 36 MA's), (72, 232),

Gene: Axym_1 Start: 52, Stop: 543, Start Num: 33

Candidate Starts for Axym_1:

(19, 22), (Start: 33 @52 has 19 MA's), (Start: 50 @97 has 2 MA's), (74, 187), (89, 223), (92, 241), (98, 271), (111, 319), (123, 364),

Gene: Azira_2 Start: 425, Stop: 922, Start Num: 34

Candidate Starts for Azira_2:

(22, 398), (Start: 34 @425 has 20 MA's), (Start: 60 @506 has 1 MA's), (98, 659), (103, 680), (123, 752), (130, 791), (162, 899),

Gene: Babsiella_1 Start: 67, Stop: 540, Start Num: 44

Candidate Starts for Babsiella_1:

(21, 16), (Start: 44 @67 has 65 MA's), (70, 151), (80, 187), (103, 292), (107, 304), (108, 307), (119, 340), (121, 352), (130, 403), (154, 499), (158, 508),

Gene: Balloona_1 Start: 98, Stop: 547, Start Num: 50

Candidate Starts for Balloona_1:

(Start: 34 @56 has 20 MA's), (Start: 50 @98 has 2 MA's), (Start: 62 @146 has 1 MA's), (88, 221), (89, 224), (98, 272), (122, 359), (123, 365), (130, 404), (132, 413), (135, 434),

Gene: Barnstormer_1 Start: 114, Stop: 596, Start Num: 47

Candidate Starts for Barnstormer_1:

(Start: 41 @108 has 2 MA's), (Start: 47 @114 has 36 MA's), (112, 363), (129, 447), (139, 504), (144, 519),

Gene: Bavilard_2 Start: 592, Stop: 963, Start Num: 72

Candidate Starts for Bavilard_2:

(Start: 34 @475 has 20 MA's), (Start: 50 @514 has 2 MA's), (72, 592), (88, 637), (89, 640), (98, 688), (100, 700), (122, 775), (123, 781), (130, 820), (132, 829), (135, 850),

Gene: BearBQ_1 Start: 50, Stop: 484, Start Num: 27

Candidate Starts for BearBQ_1:

(Start: 27 @50 has 7 MA's), (55, 125), (57, 134), (66, 167), (68, 170), (91, 218), (98, 254), (102, 272), (115, 317), (123, 347), (130, 386),

Gene: Beaupre_1 Start: 139, Stop: 579, Start Num: 47

Candidate Starts for Beaupre_1:

(Start: 47 @139 has 36 MA's), (72, 232),

Gene: BeeGee_1 Start: 82, Stop: 504, Start Num: 40

Candidate Starts for BeeGee_1:

(Start: 35 @73 has 16 MA's), (Start: 40 @82 has 22 MA's), (86, 226), (94, 265), (108, 325), (134, 436), (141, 472), (144, 481),

Gene: Beelzebub_37 Start: 10803, Stop: 11156, Start Num: 69

Candidate Starts for Beelzebub_37:

(3, 10587), (Start: 47 @10722 has 36 MA's), (Start: 69 @10803 has 5 MA's), (99, 10923), (107, 10953), (123, 11013), (155, 11148),

Gene: Berrie_1 Start: 83, Stop: 535, Start Num: 44

Candidate Starts for Berrie_1:

(Start: 44 @83 has 65 MA's), (137, 470), (143, 488), (153, 509),

Gene: BigChungus_1 Start: 56, Stop: 547, Start Num: 34

Candidate Starts for BigChungus_1:

(Start: 34 @56 has 20 MA's), (Start: 50 @98 has 2 MA's), (Start: 62 @146 has 1 MA's), (88, 221), (89, 224), (98, 272), (122, 359), (123, 365), (130, 404), (132, 413), (135, 434),

Gene: BillDoor_1 Start: 59, Stop: 535, Start Num: 35

Candidate Starts for BillDoor_1:

(18, 14), (Start: 35 @59 has 16 MA's), (53, 107), (74, 188), (92, 242), (98, 272), (123, 365), (132, 413), (164, 524),

Gene: Bimmel_46 Start: 24939, Stop: 25364, Start Num: 44

Candidate Starts for Bimmel_46:

(Start: 44 @24939 has 65 MA's), (58, 24984), (Start: 62 @25005 has 1 MA's), (108, 25158), (116, 25191), (131, 25260), (148, 25320), (150, 25326),

Gene: Birdsong_1 Start: 50, Stop: 484, Start Num: 27

Candidate Starts for Birdsong_1:

(Start: 27 @50 has 7 MA's), (55, 125), (57, 134), (66, 167), (68, 170), (91, 218), (98, 254), (102, 272), (115, 317), (123, 347), (130, 386),

Gene: Biskit_1 Start: 52, Stop: 534, Start Num: 33

Candidate Starts for Biskit_1:

(19, 22), (Start: 33 @52 has 19 MA's), (Start: 50 @97 has 2 MA's), (74, 187), (89, 223), (92, 241), (98, 271), (123, 364), (132, 412), (164, 523),

Gene: Blackbeetle_33 Start: 9732, Stop: 10175, Start Num: 42

Candidate Starts for Blackbeetle_33:

(Start: 42 @9732 has 3 MA's), (Start: 46 @9741 has 1 MA's), (Start: 69 @9822 has 5 MA's), (99, 9942), (107, 9972), (123, 10032), (155, 10167),

Gene: Blondies_1 Start: 53, Stop: 535, Start Num: 33

Candidate Starts for Blondies_1:

(18, 14), (Start: 33 @53 has 19 MA's), (Start: 50 @98 has 2 MA's), (74, 188), (92, 242), (98, 272), (123, 365), (132, 413), (164, 524),

Gene: Bluvara_1 Start: 62, Stop: 541, Start Num: 41

Candidate Starts for Bluvara_1:

(20, 14), (Start: 41 @62 has 2 MA's), (Start: 44 @68 has 65 MA's), (70, 152), (103, 293), (107, 305), (108, 308), (119, 341), (121, 353), (158, 509),

Gene: Bradissa_1 Start: 82, Stop: 504, Start Num: 40

Candidate Starts for Bradissa_1:

(Start: 35 @73 has 16 MA's), (Start: 40 @82 has 22 MA's), (86, 226), (94, 265), (108, 325), (134, 436), (141, 472), (144, 481),

Gene: BritBrat_1 Start: 82, Stop: 504, Start Num: 40

Candidate Starts for BritBrat_1:

(Start: 35 @73 has 16 MA's), (Start: 40 @82 has 22 MA's), (86, 226), (94, 265), (108, 325), (134, 436), (141, 472), (144, 481),

Gene: Brujita_1 Start: 62, Stop: 541, Start Num: 41

Candidate Starts for Brujita_1:

(20, 14), (Start: 41 @62 has 2 MA's), (Start: 44 @68 has 65 MA's), (70, 152), (103, 293), (107, 305), (108, 308), (119, 341), (140, 458), (158, 509),

Gene: Bubble_1 Start: 52, Stop: 543, Start Num: 33

Candidate Starts for Bubble_1:

(19, 22), (Start: 33 @52 has 19 MA's), (Start: 50 @97 has 2 MA's), (74, 187), (89, 223), (92, 241), (98, 271), (111, 319), (123, 364),

Gene: Burnsey_1 Start: 52, Stop: 543, Start Num: 33

Candidate Starts for Burnsey_1:

(19, 22), (Start: 33 @52 has 19 MA's), (Start: 50 @97 has 2 MA's), (74, 187), (89, 223), (98, 271), (111, 319), (123, 364),

Gene: Button_1 Start: 50, Stop: 505, Start Num: 35

Candidate Starts for Button_1:

(Start: 35 @50 has 16 MA's), (98, 263), (123, 356), (132, 404), (157, 491),

Gene: Buttrmlkdreams_1 Start: 53, Stop: 535, Start Num: 33

Candidate Starts for Buttrmlkdreams_1:

(18, 14), (Start: 33 @53 has 19 MA's), (Start: 50 @98 has 2 MA's), (74, 188), (92, 242), (98, 272), (123, 365), (132, 413), (164, 524),

Gene: CanesSauce_1 Start: 59, Stop: 535, Start Num: 35

Candidate Starts for CanesSauce_1:

(18, 14), (Start: 35 @59 has 16 MA's), (53, 107), (74, 188), (92, 242), (98, 272), (111, 320), (123, 365), (132, 413), (164, 524),

Gene: Cappuccino_1 Start: 138, Stop: 578, Start Num: 47

Candidate Starts for Cappuccino_1:

(Start: 47 @138 has 36 MA's), (72, 231),

Gene: Caprice_30 Start: 9811, Stop: 10245, Start Num: 46

Candidate Starts for Caprice_30:

(31, 9775), (Start: 35 @9787 has 16 MA's), (Start: 42 @9802 has 3 MA's), (Start: 46 @9811 has 1 MA's), (Start: 69 @9892 has 5 MA's), (99, 10012), (107, 10042), (123, 10102), (155, 10237),

Gene: Caramellatte_1 Start: 59, Stop: 535, Start Num: 35

Candidate Starts for Caramellatte_1:

(18, 14), (Start: 35 @59 has 16 MA's), (53, 107), (74, 188), (92, 242), (98, 272), (111, 320), (123, 365), (132, 413), (164, 524),

Gene: Caron_1 Start: 114, Stop: 593, Start Num: 47

Candidate Starts for Caron_1:

(Start: 41 @108 has 2 MA's), (Start: 47 @114 has 36 MA's), (Start: 52 @135 has 1 MA's), (65, 183), (112, 363), (129, 447), (144, 516),

Gene: Carsonalex_1 Start: 52, Stop: 543, Start Num: 33

Candidate Starts for Carsonalex_1:

(19, 22), (Start: 33 @52 has 19 MA's), (Start: 50 @97 has 2 MA's), (74, 187), (89, 223), (92, 241), (98, 271), (111, 319), (123, 364), (165, 526),

Gene: Cashline_1 Start: 82, Stop: 504, Start Num: 40

Candidate Starts for Cashline_1:

(Start: 35 @73 has 16 MA's), (Start: 40 @82 has 22 MA's), (86, 226), (90, 250), (94, 265), (108, 325), (121, 370), (134, 436), (141, 472), (144, 481),

Gene: Cassia_1 Start: 86, Stop: 550, Start Num: 44

Candidate Starts for Cassia_1:

(Start: 44 @86 has 65 MA's), (102, 305), (143, 503), (157, 533),

Gene: Cen1621_1 Start: 100, Stop: 576, Start Num: 47

Candidate Starts for Cen1621_1:

(39, 88), (Start: 47 @100 has 36 MA's), (91, 250), (110, 322), (120, 361), (122, 376), (136, 457), (140, 472),

Gene: CherryonLim_1 Start: 56, Stop: 547, Start Num: 34

Candidate Starts for CherryonLim_1:

(Start: 34 @56 has 20 MA's), (Start: 50 @98 has 2 MA's), (Start: 62 @146 has 1 MA's), (88, 221), (89, 224), (98, 272), (122, 359), (123, 365), (130, 404), (132, 413), (135, 434),

Gene: ChickenTender_1 Start: 52, Stop: 543, Start Num: 33

Candidate Starts for ChickenTender_1:

(19, 22), (Start: 33 @52 has 19 MA's), (Start: 50 @97 has 2 MA's), (74, 187), (89, 223), (92, 241), (98, 271), (111, 319), (123, 364),

Gene: ChocoMunchkin_1 Start: 59, Stop: 535, Start Num: 35

Candidate Starts for ChocoMunchkin_1:

(18, 14), (Start: 35 @59 has 16 MA's), (53, 107), (74, 188), (92, 242), (98, 272), (111, 320), (123, 365), (132, 413), (164, 524),

Gene: Clarkson_34 Start: 10423, Stop: 10857, Start Num: 47

Candidate Starts for Clarkson_34:

(3, 10288), (Start: 47 @10423 has 36 MA's), (Start: 69 @10504 has 5 MA's), (99, 10624), (107, 10654), (123, 10714), (155, 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 20 MA's), (Start: 60 @579 has 1 MA's), (72, 618), (98, 732), (103, 753), (107, 765), (123, 825),

Gene: CocoaPuff_1 Start: 56, Stop: 547, Start Num: 34

Candidate Starts for CocoaPuff_1:

(Start: 34 @56 has 20 MA's), (Start: 50 @98 has 2 MA's), (Start: 62 @146 has 1 MA's), (88, 221), (89, 224), (98, 272), (122, 359), (123, 365), (130, 404), (132, 413), (135, 434),

Gene: Community_2 Start: 1157, Stop: 1609, Start Num: 44

Candidate Starts for Community_2:

(3, 1052), (Start: 44 @1157 has 65 MA's), (137, 1544), (143, 1562), (153, 1583),

Gene: Confidence_1 Start: 82, Stop: 504, Start Num: 40

Candidate Starts for Confidence_1:

(Start: 35 @73 has 16 MA's), (Start: 40 @82 has 22 MA's), (86, 226), (94, 265), (108, 325), (134, 436), (141, 472), (144, 481),

Gene: Corazon_31 Start: 10376, Stop: 10810, Start Num: 47

Candidate Starts for Corazon_31:

(3, 10241), (Start: 47 @10376 has 36 MA's), (Start: 69 @10457 has 5 MA's), (99, 10577), (107, 10607), (123, 10667), (155, 10802),

Gene: Cornie_1 Start: 85, Stop: 549, Start Num: 27

Candidate Starts for Cornie_1:

(Start: 27 @85 has 7 MA's), (48, 133), (51, 148), (55, 154), (59, 172), (61, 187), (74, 226), (91, 277), (95, 295), (111, 361), (115, 379), (117, 385), (118, 388), (121, 397), (122, 403), (123, 409), (125, 418), (152, 535), (156, 544),

Gene: Cozz_1 Start: 52, Stop: 543, Start Num: 33

Candidate Starts for Cozz_1:

(19, 22), (Start: 33 @52 has 19 MA's), (Start: 50 @97 has 2 MA's), (74, 187), (89, 223), (92, 241), (98, 271), (111, 319), (123, 364),

Gene: Crater_1 Start: 50, Stop: 484, Start Num: 27

Candidate Starts for Crater_1:

(Start: 27 @50 has 7 MA's), (55, 125), (57, 134), (66, 167), (68, 170), (91, 218), (98, 254), (102, 272), (115, 317), (123, 347), (130, 386),

Gene: Crewmate_1 Start: 85, Stop: 549, Start Num: 44

Candidate Starts for Crewmate_1:

(Start: 44 @85 has 65 MA's), (137, 484), (143, 502), (153, 523),

Gene: Cyan_1 Start: 84, Stop: 536, Start Num: 44

Candidate Starts for Cyan_1:

(29, 54), (Start: 44 @84 has 65 MA's), (84, 213), (137, 471), (153, 510), (157, 519),

Gene: DS6A_1 Start: 246, Stop: 680, Start Num: 40

Candidate Starts for DS6A_1:

(Start: 40 @246 has 22 MA's), (54, 288), (65, 333), (79, 384), (94, 435), (110, 504), (127, 576), (130, 594), (138, 639), (141, 648), (149, 675),

Gene: Donkey_1 Start: 138, Stop: 578, Start Num: 47

Candidate Starts for Donkey_1:

(Start: 47 @138 has 36 MA's), (72, 231),

Gene: DrManhattan_1 Start: 85, Stop: 537, Start Num: 44

Candidate Starts for DrManhattan_1:

(Start: 44 @85 has 65 MA's), (84, 214), (153, 508), (157, 517),

Gene: DrSierra_1 Start: 87, Stop: 551, Start Num: 44

Candidate Starts for DrSierra_1:

(Start: 44 @87 has 65 MA's), (153, 525),

Gene: Dre3_2 Start: 442, Stop: 927, Start Num: 34

Candidate Starts for Dre3_2:

(Start: 34 @442 has 20 MA's), (Start: 60 @523 has 1 MA's), (72, 562), (98, 676), (103, 697), (107, 709), (123, 769),

Gene: EMSquaredA_1 Start: 82, Stop: 504, Start Num: 40

Candidate Starts for EMSquaredA_1:

(Start: 35 @73 has 16 MA's), (Start: 40 @82 has 22 MA's), (86, 226), (94, 265), (108, 325), (134, 436), (141, 472), (144, 481),

Gene: ElJefes_2 Start: 514, Stop: 963, Start Num: 50

Candidate Starts for ElJefes_2:

(Start: 34 @475 has 20 MA's), (Start: 50 @514 has 2 MA's), (88, 637), (89, 640), (98, 688), (122, 775), (123, 781), (130, 820), (132, 829), (135, 850),

Gene: Elezi_1 Start: 85, Stop: 537, Start Num: 44

Candidate Starts for Elezi_1:

(Start: 44 @85 has 65 MA's), (84, 214), (137, 472), (143, 490), (153, 511), (157, 520),

Gene: Elinal_1 Start: 56, Stop: 547, Start Num: 34

Candidate Starts for Elinal_1:

(Start: 34 @56 has 20 MA's), (Start: 50 @98 has 2 MA's), (Start: 62 @146 has 1 MA's), (88, 221), (89, 224), (98, 272), (100, 284), (122, 359), (123, 365), (130, 404), (132, 413), (135, 434),

Gene: Elliott_1 Start: 52, Stop: 543, Start Num: 33

Candidate Starts for Elliott_1:

(19, 22), (Start: 33 @52 has 19 MA's), (Start: 50 @97 has 2 MA's), (74, 187), (89, 223), (98, 271), (111, 319), (123, 364),

Gene: Emalyn_1 Start: 52, Stop: 531, Start Num: 33

Candidate Starts for Emalyn_1:

(19, 22), (Start: 33 @52 has 19 MA's), (Start: 50 @97 has 2 MA's), (74, 187), (92, 241), (98, 271), (111, 319), (123, 364), (132, 412), (165, 526),

Gene: Emotion_1 Start: 130, Stop: 558, Start Num: 44

Candidate Starts for Emotion_1:

(Start: 44 @130 has 65 MA's), (94, 310), (120, 415),

Gene: EnalisNailo_1 Start: 82, Stop: 504, Start Num: 40

Candidate Starts for EnalisNailo_1:

(Start: 35 @73 has 16 MA's), (Start: 40 @82 has 22 MA's), (86, 226), (94, 265), (108, 325), (134, 436), (141, 472), (144, 481),

Gene: Eraser_1 Start: 85, Stop: 537, Start Num: 44

Candidate Starts for Eraser_1:

(Start: 44 @85 has 65 MA's), (84, 214), (137, 472), (143, 490), (153, 511), (157, 520),

Gene: Exile_1 Start: 140, Stop: 571, Start Num: 44

Candidate Starts for Exile_1:

(15, 71), (Start: 44 @140 has 65 MA's), (153, 545), (157, 554),

Gene: FF47_04 Start: 1302, Stop: 1775, Start Num: 45

Candidate Starts for FF47_04:

(25, 1254), (Start: 45 @1302 has 3 MA's), (61, 1365), (63, 1368), (73, 1398), (97, 1500), (151, 1725), (161, 1746), (163, 1755),

Gene: Farewell_1 Start: 34, Stop: 528, Start Num: 12

Candidate Starts for Farewell_1:

(Start: 12 @34 has 1 MA's), (26, 73), (Start: 40 @97 has 22 MA's), (72, 208), (94, 280), (124, 406), (127, 421), (141, 496),

Gene: Feastonyeet_1 Start: 56, Stop: 547, Start Num: 34

Candidate Starts for Feastonyeet_1:

(Start: 34 @56 has 20 MA's), (Start: 50 @98 has 2 MA's), (Start: 62 @146 has 1 MA's), (88, 221), (89, 224), (98, 272), (122, 359), (123, 365), (130, 404), (132, 413), (135, 434),

Gene: FeliMaine_35 Start: 10424, Stop: 10858, Start Num: 47

Candidate Starts for FeliMaine_35:

(3, 10289), (Start: 47 @10424 has 36 MA's), (Start: 69 @10505 has 5 MA's), (99, 10625), (107, 10655), (123, 10715), (155, 10850),

Gene: FiveHead_1 Start: 132, Stop: 563, Start Num: 44

Candidate Starts for FiveHead_1:

(Start: 44 @132 has 65 MA's), (71, 228), (137, 519),

Gene: Floof_1 Start: 122, Stop: 601, Start Num: 47

Candidate Starts for Floof_1:

(Start: 47 @122 has 36 MA's), (67, 200), (106, 350), (112, 371), (128, 446), (153, 545),

Gene: Floral_1 Start: 82, Stop: 504, Start Num: 40

Candidate Starts for Floral_1:

(Start: 35 @73 has 16 MA's), (Start: 40 @82 has 22 MA's), (86, 226), (94, 265), (108, 325), (134, 436), (141, 472), (144, 481),

Gene: Flutur_1 Start: 84, Stop: 536, Start Num: 44

Candidate Starts for Flutur_1:

(29, 54), (Start: 44 @84 has 65 MA's), (84, 213), (137, 471), (153, 510), (157, 519),

Gene: Forester_2 Start: 128, Stop: 607, Start Num: 47

Candidate Starts for Forester_2:

(Start: 47 @128 has 36 MA's), (106, 356), (112, 377), (128, 452), (138, 515), (153, 551),

Gene: Fribs8_2 Start: 426, Stop: 911, Start Num: 34

Candidate Starts for Fribs8_2:

(22, 399), (Start: 34 @426 has 20 MA's), (Start: 60 @507 has 1 MA's), (98, 660), (103, 681), (123, 753), (130, 792),

Gene: GTE2_01 Start: 59, Stop: 535, Start Num: 35

Candidate Starts for GTE2_01:

(18, 14), (Start: 35 @59 has 16 MA's), (74, 188), (92, 242), (98, 272), (102, 290), (123, 365), (132, 413), (164, 524),

Gene: Gaia_1 Start: 129, Stop: 578, Start Num: 42

Candidate Starts for Gaia_1:

(Start: 41 @126 has 2 MA's), (Start: 42 @129 has 3 MA's), (48, 144), (58, 186), (65, 213), (77, 264), (81, 279), (88, 315), (94, 342), (96, 357), (108, 402), (116, 438), (124, 468), (125, 471), (134, 516), (141, 549), (142, 552),

Gene: Gambol_1 Start: 138, Stop: 578, Start Num: 47

Candidate Starts for Gambol_1:

(Start: 47 @138 has 36 MA's), (72, 231),

Gene: Gattaca_32 Start: 9603, Stop: 10037, Start Num: 47

Candidate Starts for Gattaca_32:

(3, 9468), (Start: 47 @9603 has 36 MA's), (Start: 69 @9684 has 5 MA's), (99, 9804), (107, 9834), (123, 9894), (155, 10029),

Gene: GiKK_1 Start: 49, Stop: 504, Start Num: 35

Candidate Starts for GiKK_1:

(19, 22), (Start: 35 @49 has 16 MA's), (74, 178), (98, 262), (102, 280), (123, 355), (132, 403), (157, 490),

Gene: Gibbous_2 Start: 442, Stop: 927, Start Num: 34

Candidate Starts for Gibbous_2:

(Start: 34 @442 has 20 MA's), (Start: 60 @523 has 1 MA's), (72, 562), (98, 676), (103, 697), (107, 709), (123, 769),

Gene: Giorgio_1 Start: 139, Stop: 579, Start Num: 47

Candidate Starts for Giorgio_1:

(Start: 47 @139 has 36 MA's), (72, 232),

Gene: GoldHunter_1 Start: 52, Stop: 543, Start Num: 33

Candidate Starts for GoldHunter_1:

(19, 22), (Start: 33 @52 has 19 MA's), (Start: 50 @97 has 2 MA's), (74, 187), (89, 223), (92, 241), (98, 271), (111, 319), (123, 364),

Gene: GoongGoong_32 Start: 9724, Stop: 10077, Start Num: 69

Candidate Starts for GoongGoong_32:

(Start: 42 @9634 has 3 MA's), (Start: 46 @9643 has 1 MA's), (Start: 69 @9724 has 5 MA's), (99, 9844), (107, 9874), (123, 9934), (155, 10069),

Gene: Gretchen_1 Start: 128, Stop: 607, Start Num: 47

Candidate Starts for Gretchen_1:

(Start: 47 @128 has 36 MA's), (106, 356), (112, 377), (128, 452), (138, 515), (153, 551),

Gene: Gumpizza_1 Start: 139, Stop: 579, Start Num: 47

Candidate Starts for Gumpizza_1:

(Start: 47 @139 has 36 MA's), (72, 232),

Gene: HC_01 Start: 67, Stop: 540, Start Num: 44

Candidate Starts for HC_01:

(Start: 44 @67 has 65 MA's), (70, 151), (103, 292), (107, 304), (108, 307), (119, 340), (121, 352), (130, 403), (158, 508),

Gene: Halsey_1 Start: 139, Stop: 579, Start Num: 47

Candidate Starts for Halsey_1:

(Start: 47 @139 has 36 MA's), (72, 232),

Gene: Hexbug_1 Start: 50, Stop: 505, Start Num: 35

Candidate Starts for Hexbug_1:

(Start: 35 @50 has 16 MA's), (Start: 50 @89 has 2 MA's), (74, 179), (98, 263), (123, 356), (132, 404), (157, 491),

Gene: HippoPololi_2 Start: 449, Stop: 934, Start Num: 34

Candidate Starts for HippoPololi_2:

(10, 380), (23, 425), (Start: 34 @449 has 20 MA's), (Start: 60 @530 has 1 MA's), (72, 569), (98, 683), (103, 704), (107, 716), (123, 776),

Gene: Honk_1 Start: 161, Stop: 634, Start Num: 47

Candidate Starts for Honk_1:

(32, 128), (Start: 47 @161 has 36 MA's), (110, 383), (122, 437), (128, 467), (140, 530),

Gene: Horseradish_1 Start: 53, Stop: 535, Start Num: 33

Candidate Starts for Horseradish_1:

(18, 14), (Start: 33 @53 has 19 MA's), (Start: 50 @98 has 2 MA's), (74, 188), (92, 242), (98, 272), (123, 365), (132, 413), (164, 524),

Gene: Huphlepuuff_35 Start: 10228, Stop: 10662, Start Num: 47

Candidate Starts for Huphlepuuff_35:

(3, 10093), (Start: 47 @10228 has 36 MA's), (Start: 69 @10309 has 5 MA's), (99, 10429), (107, 10459), (123, 10519), (155, 10654),

Gene: IUFootball_1 Start: 80, Stop: 535, Start Num: 44

Candidate Starts for IUFootball_1:

(Start: 44 @80 has 65 MA's), (104, 311),

Gene: lbantik_65 Start: 27614, Stop: 28042, Start Num: 44

Candidate Starts for lbantik_65:

(Start: 44 @27614 has 65 MA's), (104, 27824), (105, 27827), (116, 27869), (131, 27938), (145, 27995), (146, 27998),

Gene: Island3_1 Start: 62, Stop: 541, Start Num: 41

Candidate Starts for Island3_1:

(20, 14), (Start: 41 @62 has 2 MA's), (Start: 44 @68 has 65 MA's), (70, 152), (103, 293), (107, 305), (108, 308), (119, 341), (140, 458), (158, 509),

Gene: lter_1 Start: 85, Stop: 537, Start Num: 44

Candidate Starts for lter_1:

(Start: 44 @85 has 65 MA's), (137, 472), (143, 490), (153, 511),

Gene: ltyBittyPiggy_1 Start: 86, Stop: 538, Start Num: 44

Candidate Starts for ltyBittyPiggy_1:

(Start: 44 @86 has 65 MA's), (84, 215), (137, 473), (143, 491), (157, 521),

Gene: Jablanski_1 Start: 82, Stop: 504, Start Num: 40

Candidate Starts for Jablanski_1:

(Start: 35 @73 has 16 MA's), (Start: 40 @82 has 22 MA's), (86, 226), (94, 265), (108, 325), (134, 436), (141, 472), (144, 481),

Gene: JacoRen57_1 Start: 190, Stop: 669, Start Num: 45

Candidate Starts for JacoRen57_1:

(2, 61), (8, 91), (9, 94), (28, 154), (Start: 45 @190 has 3 MA's), (61, 253), (68, 271), (107, 424), (115, 457), (133, 538), (140, 574), (147, 598), (151, 607),

Gene: Jamzy_1 Start: 49, Stop: 504, Start Num: 35

Candidate Starts for Jamzy_1:

(Start: 35 @49 has 16 MA's), (Start: 50 @88 has 2 MA's), (74, 178), (98, 262), (122, 349), (123, 355), (132, 403), (157, 490), (160, 499),

Gene: Janeemi_2 Start: 1168, Stop: 1620, Start Num: 44

Candidate Starts for Janeemi_2:

(Start: 44 @1168 has 65 MA's), (137, 1555), (143, 1573), (153, 1594),

Gene: JasmineDragon_1 Start: 132, Stop: 560, Start Num: 44

Candidate Starts for JasmineDragon_1:

(Start: 44 @132 has 65 MA's), (120, 417), (143, 534),

Gene: Joemato_1 Start: 84, Stop: 536, Start Num: 44

Candidate Starts for Joemato_1:

(29, 54), (Start: 44 @84 has 65 MA's), (84, 213), (137, 471), (153, 510), (157, 519),

Gene: JohnDoe_1 Start: 84, Stop: 536, Start Num: 44

Candidate Starts for JohnDoe_1:

(29, 54), (Start: 44 @84 has 65 MA's), (84, 213), (137, 471), (153, 510), (157, 519),

Gene: JohnThicc_1 Start: 132, Stop: 563, Start Num: 44

Candidate Starts for JohnThicc_1:

(Start: 44 @132 has 65 MA's), (71, 228), (137, 519),

Gene: JoieB_34 Start: 10528, Stop: 10881, Start Num: 69

Candidate Starts for JoieB_34:

(3, 10312), (Start: 47 @10447 has 36 MA's), (Start: 69 @10528 has 5 MA's), (99, 10648), (107, 10678), (123, 10738), (155, 10873),

Gene: Jstan_1 Start: 85, Stop: 537, Start Num: 44

Candidate Starts for Jstan_1:

(Start: 44 @85 has 65 MA's), (84, 214), (137, 472), (143, 490), (153, 511), (157, 520),

Gene: JuneStar_1 Start: 84, Stop: 548, Start Num: 44

Candidate Starts for JuneStar_1:

(29, 54), (Start: 44 @84 has 65 MA's), (143, 501), (157, 531),

Gene: Kalimba_1 Start: 138, Stop: 578, Start Num: 47

Candidate Starts for Kalimba_1:

(Start: 47 @138 has 36 MA's), (72, 231),

Gene: KayGee_1 Start: 56, Stop: 547, Start Num: 34

Candidate Starts for KayGee_1:

(Start: 34 @56 has 20 MA's), (Start: 50 @98 has 2 MA's), (Start: 62 @146 has 1 MA's), (88, 221), (89, 224), (98, 272), (100, 284), (122, 359), (123, 365), (130, 404), (132, 413), (135, 434),

Gene: Kaylissa_1 Start: 84, Stop: 536, Start Num: 44

Candidate Starts for Kaylissa_1:

(29, 54), (Start: 44 @84 has 65 MA's), (84, 213), (137, 471), (153, 510), (157, 519),

Gene: KeAlii_1 Start: 69, Stop: 521, Start Num: 44

Candidate Starts for KeAlii_1:

(Start: 44 @69 has 65 MA's), (153, 492), (157, 501),

Gene: Kuwabara_1 Start: 50, Stop: 484, Start Num: 27

Candidate Starts for Kuwabara_1:

(Start: 27 @50 has 7 MA's), (55, 125), (57, 134), (66, 167), (68, 170), (91, 218), (98, 254), (102, 272), (115, 317), (123, 347), (130, 386),

Gene: LadyAstra_1 Start: 132, Stop: 563, Start Num: 44

Candidate Starts for LadyAstra_1:

(Start: 44 @132 has 65 MA's), (71, 228), (137, 519),

Gene: Lauer_1 Start: 146, Stop: 547, Start Num: 62

Candidate Starts for Lauer_1:

(Start: 34 @56 has 20 MA's), (Start: 50 @98 has 2 MA's), (Start: 62 @146 has 1 MA's), (88, 221), (89, 224), (98, 272), (100, 284), (122, 359), (123, 365), (130, 404), (132, 413), (135, 434),

Gene: Lego_1 Start: 84, Stop: 536, Start Num: 44

Candidate Starts for Lego_1:

(29, 54), (Start: 44 @84 has 65 MA's), (84, 213), (137, 471), (153, 510), (157, 519),

Gene: Liebe_1 Start: 80, Stop: 535, Start Num: 44

Candidate Starts for Liebe_1:

(Start: 44 @80 has 65 MA's), (104, 311),

Gene: Lilas_1 Start: 73, Stop: 504, Start Num: 35

Candidate Starts for Lilas_1:

(Start: 35 @73 has 16 MA's), (Start: 40 @82 has 22 MA's), (86, 226), (94, 265), (108, 325), (134, 436), (141, 472), (144, 481),

Gene: Lilbit_32 Start: 10424, Stop: 10858, Start Num: 47

Candidate Starts for Lilbit_32:

(3, 10289), (Start: 47 @10424 has 36 MA's), (Start: 69 @10505 has 5 MA's), (99, 10625), (107, 10655), (123, 10715), (155, 10850),

Gene: LittleLaf_33 Start: 10153, Stop: 10587, Start Num: 47

Candidate Starts for LittleLaf_33:

(3, 10018), (Start: 47 @10153 has 36 MA's), (Start: 69 @10234 has 5 MA's), (99, 10354), (107, 10384), (123, 10444), (155, 10579),

Gene: Lizalica_1 Start: 85, Stop: 534, Start Num: 44

Candidate Starts for Lizalica_1:

(Start: 44 @85 has 65 MA's), (84, 214), (137, 469), (143, 487), (153, 508), (157, 517),

Gene: London_1 Start: 85, Stop: 537, Start Num: 44

Candidate Starts for London_1:

(Start: 44 @85 has 65 MA's), (84, 214), (137, 472), (143, 490), (153, 511), (157, 520),

Gene: LonelyBoi_1 Start: 82, Stop: 504, Start Num: 40

Candidate Starts for LonelyBoi_1:

(Start: 35 @73 has 16 MA's), (Start: 40 @82 has 22 MA's), (86, 226), (94, 265), (108, 325), (134, 436), (141, 472), (144, 481),

Gene: LongHai_5 Start: 1624, Stop: 2100, Start Num: 45

Candidate Starts for LongHai_5:

(25, 1576), (Start: 45 @1624 has 3 MA's), (61, 1687), (63, 1690), (73, 1720), (97, 1822), (151, 2047), (161, 2068), (163, 2077),

Gene: LunaStella_1 Start: 55, Stop: 477, Start Num: 40

Candidate Starts for LunaStella_1:

(6, 7), (7, 16), (Start: 40 @55 has 22 MA's), (Start: 62 @136 has 1 MA's), (94, 238), (110, 307), (111, 310), (127, 376), (134, 409), (141, 445), (144, 454),

Gene: MAnor_1 Start: 56, Stop: 547, Start Num: 34

Candidate Starts for MAnor_1:

(Start: 34 @56 has 20 MA's), (Start: 50 @98 has 2 MA's), (Start: 62 @146 has 1 MA's), (88, 221), (89, 224), (98, 272), (122, 359), (123, 365), (130, 404), (132, 413), (135, 434),

Gene: MScarn_1 Start: 53, Stop: 535, Start Num: 33

Candidate Starts for MScarn_1:

(18, 14), (Start: 33 @53 has 19 MA's), (Start: 50 @98 has 2 MA's), (74, 188), (92, 242), (98, 272), (123, 365), (132, 413), (164, 524),

Gene: MaGuCo_1 Start: 80, Stop: 535, Start Num: 44

Candidate Starts for MaGuCo_1:

(Start: 44 @80 has 65 MA's), (104, 311), (138, 473),

Gene: MaVan_2 Start: 426, Stop: 923, Start Num: 34

Candidate Starts for MaVan_2:

(22, 399), (Start: 34 @426 has 20 MA's), (Start: 60 @507 has 1 MA's), (98, 660), (103, 681), (123, 753), (130, 792), (162, 900),

Gene: Mabodamaca_1 Start: 146, Stop: 604, Start Num: 52

Candidate Starts for Mabodamaca_1:

(Start: 47 @125 has 36 MA's), (Start: 52 @146 has 1 MA's), (112, 374), (129, 458), (144, 527),

Gene: Maco6_2 Start: 581, Stop: 1054, Start Num: 45

Candidate Starts for Maco6_2:

(25, 533), (Start: 45 @581 has 3 MA's), (61, 644), (63, 647), (73, 677), (97, 779), (151, 1004), (161, 1025), (163, 1034),

Gene: Margaret_1 Start: 49, Stop: 504, Start Num: 35

Candidate Starts for Margaret_1:

(Start: 35 @49 has 16 MA's), (98, 262), (123, 355), (132, 403), (157, 490),

Gene: Marteena_1 Start: 82, Stop: 504, Start Num: 40

Candidate Starts for Marteena_1:

(Start: 35 @73 has 16 MA's), (Start: 40 @82 has 22 MA's), (86, 226), (94, 265), (108, 325), (134, 436), (141, 472), (144, 481),

Gene: Marvin_31 Start: 10504, Stop: 10857, Start Num: 69

Candidate Starts for Marvin_31:

(3, 10288), (Start: 47 @10423 has 36 MA's), (Start: 69 @10504 has 5 MA's), (99, 10624), (107, 10654), (123, 10714), (155, 10849),

Gene: Maureen_1 Start: 80, Stop: 535, Start Num: 44

Candidate Starts for Maureen_1:

(Start: 44 @80 has 65 MA's), (104, 311),

Gene: Mayweather_2 Start: 513, Stop: 962, Start Num: 50

Candidate Starts for Mayweather_2:

(Start: 34 @474 has 20 MA's), (Start: 50 @513 has 2 MA's), (88, 636), (89, 639), (98, 687), (100, 699), (122, 774), (123, 780), (130, 819), (132, 828), (135, 849),

Gene: McDazzle_2 Start: 514, Stop: 963, Start Num: 50

Candidate Starts for McDazzle_2:

(Start: 34 @475 has 20 MA's), (Start: 50 @514 has 2 MA's), (89, 640), (98, 688), (100, 700), (122, 775), (123, 781), (130, 820), (132, 829), (135, 850),

Gene: MiniMommy_1 Start: 132, Stop: 560, Start Num: 44

Candidate Starts for MiniMommy_1:

(Start: 44 @132 has 65 MA's), (120, 417), (143, 534),

Gene: MissSwiss_1 Start: 87, Stop: 554, Start Num: 44

Candidate Starts for MissSwiss_1:

(Start: 44 @87 has 65 MA's), (84, 216), (132, 453), (143, 504), (153, 525), (157, 534),

Gene: MortyNRick_1 Start: 50, Stop: 484, Start Num: 27

Candidate Starts for MortyNRick_1:

(Start: 27 @50 has 7 MA's), (55, 125), (57, 134), (66, 167), (68, 170), (91, 218), (98, 254), (102, 272), (115, 317), (123, 347), (130, 386),

Gene: MosMoris_31 Start: 9684, Stop: 10037, Start Num: 69

Candidate Starts for MosMoris_31:

(3, 9468), (Start: 47 @9603 has 36 MA's), (Start: 69 @9684 has 5 MA's), (99, 9804), (107, 9834), (123, 9894), (155, 10029),

Gene: Moss_1 Start: 139, Stop: 579, Start Num: 47

Candidate Starts for Moss_1:

(Start: 47 @139 has 36 MA's), (72, 232),

Gene: Muddy_4 Start: 1535, Stop: 2008, Start Num: 45

Candidate Starts for Muddy_4:

(25, 1487), (Start: 45 @1535 has 3 MA's), (61, 1598), (63, 1601), (73, 1631), (97, 1733), (151, 1958), (161, 1979), (163, 1988),

Gene: Mudpuppy_1 Start: 84, Stop: 536, Start Num: 44

Candidate Starts for Mudpuppy_1:

(10, 12), (29, 54), (Start: 44 @84 has 65 MA's), (84, 213), (137, 471), (153, 510), (157, 519),

Gene: MunkgeeRoachy_1 Start: 52, Stop: 543, Start Num: 33

Candidate Starts for MunkgeeRoachy_1:

(19, 22), (Start: 33 @52 has 19 MA's), (Start: 50 @97 has 2 MA's), (74, 187), (89, 223), (98, 271), (111, 319), (122, 358), (123, 364), (165, 526),

Gene: Mysterium_1 Start: 139, Stop: 579, Start Num: 47

Candidate Starts for Mysterium_1:

(Start: 47 @139 has 36 MA's), (72, 232),

Gene: Nebkiss_1 Start: 130, Stop: 579, Start Num: 42

Candidate Starts for Nebkiss_1:

(15, 58), (Start: 42 @130 has 3 MA's), (48, 145), (58, 187), (65, 214), (72, 238), (75, 262), (78, 268), (82, 283), (83, 286), (91, 331), (94, 343), (97, 364), (121, 451), (134, 517), (141, 550), (142, 553),

Gene: Nibbles_2 Start: 426, Stop: 923, Start Num: 34

Candidate Starts for Nibbles_2:

(22, 399), (Start: 34 @426 has 20 MA's), (Start: 60 @507 has 1 MA's), (98, 660), (103, 681), (123, 753), (130, 792), (162, 900),

Gene: Nina_1 Start: 52, Stop: 543, Start Num: 33

Candidate Starts for Nina_1:

(19, 22), (Start: 33 @52 has 19 MA's), (Start: 50 @97 has 2 MA's), (74, 187), (89, 223), (92, 241), (98, 271), (111, 319), (123, 364),

Gene: Niobe_1 Start: 85, Stop: 537, Start Num: 44

Candidate Starts for Niobe_1:

(Start: 44 @85 has 65 MA's), (84, 214), (137, 472), (143, 490), (153, 511), (157, 520),

Gene: Nitro_1 Start: 86, Stop: 538, Start Num: 44

Candidate Starts for Nitro_1:

(Start: 44 @86 has 65 MA's), (84, 215), (137, 473), (153, 512), (157, 521),

Gene: NoShow_1 Start: 166, Stop: 675, Start Num: 24

Candidate Starts for NoShow_1:

(2, 82), (9, 115), (Start: 24 @166 has 1 MA's), (38, 199), (55, 244), (61, 277), (92, 379), (105, 436), (115, 478), (123, 508), (134, 562), (149, 625),

Gene: Nodigi_1 Start: 50, Stop: 505, Start Num: 35

Candidate Starts for Nodigi_1:

(Start: 35 @50 has 16 MA's), (Start: 50 @89 has 2 MA's), (74, 179), (98, 263), (123, 356), (132, 404), (157, 491),

Gene: ObiToo_1 Start: 85, Stop: 549, Start Num: 44

Candidate Starts for ObiToo_1:

(Start: 44 @85 has 65 MA's), (153, 523),

Gene: Origami_1 Start: 132, Stop: 563, Start Num: 44

Candidate Starts for Origami_1:

(Start: 44 @132 has 65 MA's), (71, 228), (137, 519),

Gene: Orla_1 Start: 49, Stop: 504, Start Num: 35

Candidate Starts for Orla_1:

(Start: 35 @49 has 16 MA's), (Start: 50 @88 has 2 MA's), (74, 178), (98, 262), (123, 355), (132, 403), (157, 490),

Gene: PaintedDog_1 Start: 68, Stop: 541, Start Num: 44

Candidate Starts for PaintedDog_1:

(20, 14), (Start: 41 @62 has 2 MA's), (Start: 44 @68 has 65 MA's), (70, 152), (103, 293), (107, 305), (108, 308), (119, 341), (121, 353), (158, 509),

Gene: Percival_1 Start: 128, Stop: 607, Start Num: 47

Candidate Starts for Percival_1:

(16, 56), (Start: 47 @128 has 36 MA's), (49, 140), (106, 356), (112, 377), (128, 452), (138, 515), (153, 551),

Gene: Phives_2 Start: 1157, Stop: 1609, Start Num: 44

Candidate Starts for Phives_2:

(3, 1052), (Start: 44 @1157 has 65 MA's), (137, 1544), (143, 1562), (153, 1583),

Gene: Pixelle_1 Start: 84, Stop: 536, Start Num: 43

Candidate Starts for Pixelle_1:

(10, 12), (29, 54), (Start: 43 @84 has 2 MA's), (137, 471), (153, 510),

Gene: Poise_33 Start: 9822, Stop: 10175, Start Num: 69

Candidate Starts for Poise_33:

(Start: 42 @9732 has 3 MA's), (Start: 46 @9741 has 1 MA's), (Start: 69 @9822 has 5 MA's), (99, 9942), (107, 9972), (123, 10032), (155, 10167),

Gene: Pollux_1 Start: 82, Stop: 504, Start Num: 40

Candidate Starts for Pollux_1:

(Start: 35 @73 has 16 MA's), (Start: 40 @82 has 22 MA's), (86, 226), (94, 265), (108, 325), (134, 436), (141, 472), (144, 481),

Gene: Pons_1 Start: 56, Stop: 547, Start Num: 34

Candidate Starts for Pons_1:

(Start: 34 @56 has 20 MA's), (Start: 50 @98 has 2 MA's), (Start: 62 @146 has 1 MA's), (88, 221), (89, 224), (98, 272), (122, 359), (123, 365), (130, 404), (132, 413), (135, 434),

Gene: Ponzi_41 Start: 22312, Stop: 22740, Start Num: 44

Candidate Starts for Ponzi_41:

(Start: 44 @22312 has 65 MA's), (109, 22534), (131, 22633), (159, 22726),

Gene: Posh_1 Start: 82, Stop: 504, Start Num: 40

Candidate Starts for Posh_1:

(Start: 35 @73 has 16 MA's), (Start: 40 @82 has 22 MA's), (86, 226), (94, 265), (108, 325), (134, 436), (141, 472), (144, 481),

Gene: PotPie_1 Start: 56, Stop: 547, Start Num: 34

Candidate Starts for PotPie_1:

(Start: 34 @56 has 20 MA's), (Start: 50 @98 has 2 MA's), (Start: 62 @146 has 1 MA's), (89, 224), (98, 272), (100, 284), (122, 359), (123, 365), (130, 404), (132, 413), (135, 434),

Gene: Powerpuff_1 Start: 84, Stop: 536, Start Num: 44

Candidate Starts for Powerpuff_1:

(29, 54), (Start: 44 @84 has 65 MA's), (84, 213), (137, 471), (153, 510), (157, 519),

Gene: Pringar_33 Start: 10053, Stop: 10487, Start Num: 47

Candidate Starts for Pringar_33:

(3, 9918), (Start: 47 @10053 has 36 MA's), (Start: 69 @10134 has 5 MA's), (99, 10254), (107, 10284), (123, 10344), (155, 10479),

Gene: PsychoKiller_1 Start: 52, Stop: 543, Start Num: 33

Candidate Starts for PsychoKiller_1:

(19, 22), (Start: 33 @52 has 19 MA's), (Start: 50 @97 has 2 MA's), (74, 187), (89, 223), (98, 271), (111, 319), (123, 364),

Gene: Pumpkins_1 Start: 86, Stop: 550, Start Num: 44

Candidate Starts for Pumpkins_1:

(Start: 44 @86 has 65 MA's), (102, 305), (143, 503), (157, 533),

Gene: Pytheas_1 Start: 82, Stop: 504, Start Num: 40

Candidate Starts for Pytheas_1:

(Start: 35 @73 has 16 MA's), (Start: 40 @82 has 22 MA's), (86, 226), (94, 265), (108, 325), (134, 436), (141, 472), (144, 481),

Gene: Quasar_1 Start: 679, Stop: 1164, Start Num: 35

Candidate Starts for Quasar_1:

(Start: 35 @679 has 16 MA's), (Start: 60 @757 has 1 MA's), (74, 808), (92, 862), (98, 892), (100, 904), (111, 940), (123, 985),

Gene: QueenHazel_1 Start: 67, Stop: 540, Start Num: 44

Candidate Starts for QueenHazel_1:

(36, 55), (Start: 44 @67 has 65 MA's), (70, 151), (80, 187), (103, 292), (107, 304), (108, 307), (119, 340), (121, 352), (130, 403), (154, 499), (158, 508),

Gene: RADical_1 Start: 53, Stop: 544, Start Num: 33

Candidate Starts for RADical_1:

(Start: 33 @53 has 19 MA's), (Start: 50 @98 has 2 MA's), (74, 188), (89, 224), (92, 242), (98, 272), (111, 320), (123, 365),

Gene: RSchmailzl_1 Start: 52, Stop: 543, Start Num: 33

Candidate Starts for RSchmailzl_1:

(19, 22), (Start: 33 @52 has 19 MA's), (Start: 50 @97 has 2 MA's), (74, 187), (89, 223), (92, 241), (98, 271), (111, 319), (123, 364), (165, 526),

Gene: Raela_33 Start: 10296, Stop: 10730, Start Num: 46

Candidate Starts for Raela_33:

(Start: 42 @10287 has 3 MA's), (Start: 46 @10296 has 1 MA's), (Start: 69 @10377 has 5 MA's), (99, 10497), (107, 10527), (123, 10587), (155, 10722),

Gene: RanchParmCat_1 Start: 49, Stop: 504, Start Num: 35

Candidate Starts for RanchParmCat_1:

(Start: 35 @49 has 16 MA's), (98, 262), (123, 355), (132, 403), (157, 490),

Gene: RedBaron_1 Start: 52, Stop: 543, Start Num: 33

Candidate Starts for RedBaron_1:

(19, 22), (Start: 33 @52 has 19 MA's), (Start: 50 @97 has 2 MA's), (74, 187), (89, 223), (92, 241), (98, 271), (111, 319), (123, 364), (165, 526),

Gene: RedRaider77_33 Start: 10197, Stop: 10631, Start Num: 47

Candidate Starts for RedRaider77_33:

(3, 10062), (Start: 47 @10197 has 36 MA's), (Start: 69 @10278 has 5 MA's), (99, 10398), (107, 10428), (123, 10488), (155, 10623),

Gene: Reedo_1 Start: 95, Stop: 547, Start Num: 44

Candidate Starts for Reedo_1:

(Start: 44 @95 has 65 MA's), (Start: 52 @122 has 1 MA's), (84, 224), (143, 497), (153, 518), (157, 527),

Gene: Renaud18_1 Start: 55, Stop: 477, Start Num: 40

Candidate Starts for Renaud18_1:

(7, 16), (Start: 40 @55 has 22 MA's), (Start: 62 @136 has 1 MA's), (94, 238), (110, 307), (127, 376), (141, 445), (144, 454),

Gene: RockScotty_1 Start: 139, Stop: 579, Start Num: 47

Candidate Starts for RockScotty_1:

(Start: 47 @139 has 36 MA's), (72, 232),

Gene: RunningOnE_61 Start: 26921, Stop: 27355, Start Num: 44

Candidate Starts for RunningOnE_61:

(37, 26906), (Start: 44 @26921 has 65 MA's), (75, 27038), (127, 27221), (131, 27245), (136, 27278),

Gene: SPB78_1 Start: 51220, Stop: 426, Start Num: 27

Candidate Starts for SPB78_1:

(14, 51184), (Start: 27 @51220 has 7 MA's), (30, 51229), (56, 51298), (76, 51373), (91, 51406), (131, 51580),

Gene: Sabourin_1 Start: 138, Stop: 578, Start Num: 47

Candidate Starts for Sabourin_1:

(Start: 47 @138 has 36 MA's), (72, 231),

Gene: Salvus_5 Start: 1624, Stop: 2100, Start Num: 45

Candidate Starts for Salvus_5:

(25, 1576), (Start: 45 @1624 has 3 MA's), (61, 1687), (63, 1690), (73, 1720), (97, 1822), (151, 2047), (161, 2068), (163, 2077),

Gene: Samy_4 Start: 1334, Stop: 1780, Start Num: 44

Candidate Starts for Samy_4:

(Start: 44 @1334 has 65 MA's), (87, 1484), (95, 1523), (108, 1577), (122, 1631),

Gene: Schaffner_1 Start: 84, Stop: 548, Start Num: 44

Candidate Starts for Schaffner_1:

(29, 54), (Start: 44 @84 has 65 MA's), (84, 213), (143, 501), (157, 531),

Gene: ShakeltOph_1 Start: 132, Stop: 560, Start Num: 44

Candidate Starts for ShakeltOph_1:

(Start: 44 @132 has 65 MA's), (120, 417), (143, 534),

Gene: SheckWes_1 Start: 98, Stop: 547, Start Num: 50

Candidate Starts for SheckWes_1:

(Start: 34 @56 has 20 MA's), (Start: 50 @98 has 2 MA's), (Start: 62 @146 has 1 MA's), (88, 221), (89, 224), (98, 272), (100, 284), (122, 359), (123, 365), (130, 404), (132, 413), (135, 434),

Gene: Simpson_1 Start: 84, Stop: 536, Start Num: 44

Candidate Starts for Simpson_1:

(29, 54), (Start: 44 @84 has 65 MA's), (84, 213), (137, 471), (153, 510), (157, 519),

Gene: Skelbel_1 Start: 85, Stop: 537, Start Num: 44

Candidate Starts for Skelbel_1:

(Start: 44 @85 has 65 MA's), (84, 214), (137, 472), (143, 490), (153, 511), (157, 520),

Gene: SketchMex_1 Start: 52, Stop: 534, Start Num: 33

Candidate Starts for SketchMex_1:

(19, 22), (Start: 33 @52 has 19 MA's), (Start: 50 @97 has 2 MA's), (74, 187), (89, 223), (92, 241), (98, 271), (123, 364), (132, 412), (164, 523),

Gene: Snek_2 Start: 958, Stop: 1422, Start Num: 44

Candidate Starts for Snek_2:

(Start: 44 @958 has 65 MA's), (111, 1207), (153, 1396), (157, 1405),

Gene: Socotra_1 Start: 52, Stop: 543, Start Num: 33

Candidate Starts for Socotra_1:

(19, 22), (Start: 33 @52 has 19 MA's), (Start: 50 @97 has 2 MA's), (74, 187), (89, 223), (92, 241), (98, 271), (111, 319), (123, 364),

Gene: Soondubu_1 Start: 140, Stop: 571, Start Num: 44

Candidate Starts for Soondubu_1:

(Start: 44 @140 has 65 MA's), (153, 545), (157, 554),

Gene: Sooty_1 Start: 138, Stop: 578, Start Num: 47

Candidate Starts for Sooty_1:

(4, 12), (Start: 47 @138 has 36 MA's), (72, 231),

Gene: Sopespian_1 Start: 52, Stop: 543, Start Num: 33

Candidate Starts for Sopespian_1:

(19, 22), (Start: 33 @52 has 19 MA's), (Start: 50 @97 has 2 MA's), (74, 187), (89, 223), (98, 271), (111, 319), (123, 364),

Gene: Sparky_1 Start: 98, Stop: 529, Start Num: 40

Candidate Starts for Sparky_1:

(5, 2), (13, 35), (26, 74), (Start: 40 @98 has 22 MA's), (72, 209), (94, 281), (124, 407), (127, 422), (141, 497),

Gene: SpecialK_1 Start: 139, Stop: 579, Start Num: 47

Candidate Starts for SpecialK_1:

(Start: 47 @139 has 36 MA's), (72, 232),

Gene: Spooks_48 Start: 26248, Stop: 26673, Start Num: 44

Candidate Starts for Spooks_48:

(Start: 44 @26248 has 65 MA's), (Start: 62 @26314 has 1 MA's), (102, 26449), (115, 26494), (131, 26569), (148, 26629), (150, 26635),

Gene: Starburst_1 Start: 52, Stop: 543, Start Num: 33

Candidate Starts for Starburst_1:

(19, 22), (Start: 33 @52 has 19 MA's), (Start: 50 @97 has 2 MA's), (74, 187), (89, 223), (92, 241), (98, 271), (111, 319), (123, 364),

Gene: SteamedHams_1 Start: 59, Stop: 535, Start Num: 35

Candidate Starts for SteamedHams_1:

(18, 14), (Start: 35 @59 has 16 MA's), (53, 107), (74, 188), (92, 242), (98, 272), (123, 365), (132, 413), (164, 524),

Gene: Stellammi_1 Start: 109, Stop: 558, Start Num: 42

Candidate Starts for Stellammi_1:

(Start: 42 @109 has 3 MA's), (58, 166), (72, 217), (83, 265), (85, 268), (94, 322), (96, 337), (106, 376), (112, 397), (116, 418), (121, 430), (126, 457), (130, 481), (139, 523),

Gene: Stuu_1 Start: 139, Stop: 579, Start Num: 47

Candidate Starts for Stuu_1:

(Start: 47 @139 has 36 MA's), (72, 232),

Gene: SuMoo_1 Start: 124, Stop: 603, Start Num: 47

Candidate Starts for SuMoo_1:

(17, 58), (Start: 24 @79 has 1 MA's), (Start: 47 @124 has 36 MA's), (Start: 52 @145 has 1 MA's), (112, 373), (129, 457), (144, 526),

Gene: Subaru_1 Start: 85, Stop: 537, Start Num: 44

Candidate Starts for Subaru_1:

(Start: 44 @85 has 65 MA's), (84, 214), (137, 472), (143, 490), (153, 511), (157, 520),

Gene: Success_49 Start: 25367, Stop: 25792, Start Num: 44

Candidate Starts for Success_49:

(Start: 44 @25367 has 65 MA's), (58, 25412), (Start: 62 @25433 has 1 MA's), (102, 25568), (108, 25586), (116, 25619), (127, 25664), (131, 25688), (148, 25748), (150, 25754),

Gene: Sue2_1 Start: 75, Stop: 542, Start Num: 44

Candidate Starts for Sue2_1:

(10, 12), (Start: 44 @75 has 65 MA's), (Start: 52 @102 has 1 MA's), (93, 249), (113, 342), (153, 513), (157, 522),

Gene: SummitAcademy_1 Start: 56, Stop: 547, Start Num: 34

Candidate Starts for SummitAcademy_1:

(Start: 34 @56 has 20 MA's), (Start: 50 @98 has 2 MA's), (Start: 62 @146 has 1 MA's), (88, 221), (89, 224), (98, 272), (122, 359), (123, 365), (130, 404), (132, 413), (135, 434),

Gene: SuperHands_1 Start: 128, Stop: 607, Start Num: 47

Candidate Starts for SuperHands_1:

(Start: 47 @128 has 36 MA's), (106, 356), (112, 377), (128, 452), (138, 515), (153, 551),

Gene: Survivors_2 Start: 426, Stop: 911, Start Num: 34

Candidate Starts for Survivors_2:

(22, 399), (Start: 34 @426 has 20 MA's), (Start: 60 @507 has 1 MA's), (98, 660), (103, 681), (123, 753), (130, 792),

Gene: SweatNTears_2 Start: 757, Stop: 1155, Start Num: 60

Candidate Starts for SweatNTears_2:

(Start: 35 @679 has 16 MA's), (Start: 60 @757 has 1 MA's), (74, 808), (92, 862), (98, 892), (100, 904), (111, 940), (123, 985), (164, 1144),

Gene: TChen_1 Start: 55, Stop: 477, Start Num: 40

Candidate Starts for TChen_1:

(6, 7), (7, 16), (Start: 40 @55 has 22 MA's), (Start: 62 @136 has 1 MA's), (94, 238), (110, 307), (111, 310), (127, 376), (134, 409), (141, 445), (144, 454),

Gene: Tallboi_1 Start: 85, Stop: 537, Start Num: 44

Candidate Starts for Tallboi_1:

(Start: 44 @85 has 65 MA's), (153, 511),

Gene: Tarnish_1 Start: 98, Stop: 547, Start Num: 50

Candidate Starts for Tarnish_1:

(Start: 34 @56 has 20 MA's), (Start: 50 @98 has 2 MA's), (Start: 62 @146 has 1 MA's), (88, 221), (89, 224), (98, 272), (122, 359), (123, 365), (130, 404), (132, 413), (135, 434),

Gene: Tbone_1 Start: 84, Stop: 536, Start Num: 44

Candidate Starts for Tbone_1:

(29, 54), (Start: 44 @84 has 65 MA's), (84, 213), (137, 471), (153, 510), (157, 519),

Gene: Tesla_32 Start: 10046, Stop: 10480, Start Num: 47

Candidate Starts for Tesla_32:

(3, 9911), (Start: 47 @10046 has 36 MA's), (Start: 69 @10127 has 5 MA's), (99, 10247), (107, 10277), (123, 10337), (155, 10472),

Gene: TforTroy_1 Start: 86, Stop: 550, Start Num: 44

Candidate Starts for TforTroy_1:

(Start: 44 @86 has 65 MA's), (66, 167), (102, 305), (143, 503), (157, 533),

Gene: ThetaBob_1 Start: 55, Stop: 477, Start Num: 40

Candidate Starts for ThetaBob_1:

(7, 16), (Start: 40 @55 has 22 MA's), (Start: 62 @136 has 1 MA's), (94, 238), (110, 307), (111, 310), (127, 376), (141, 445), (144, 454),

Gene: ThursdayNight_1 Start: 97, Stop: 549, Start Num: 44

Candidate Starts for ThursdayNight_1:

(Start: 44 @97 has 65 MA's), (87, 247), (104, 328),

Gene: Tian_1 Start: 84, Stop: 536, Start Num: 43

Candidate Starts for Tian_1:

(10, 12), (29, 54), (Start: 43 @84 has 2 MA's), (137, 471), (153, 510),

Gene: Tolls_1 Start: 59, Stop: 535, Start Num: 35

Candidate Starts for Tolls_1:

(18, 14), (Start: 35 @59 has 16 MA's), (53, 107), (74, 188), (92, 242), (98, 272), (111, 320), (123, 365), (132, 413), (164, 524),

Gene: Toron_1 Start: 55, Stop: 477, Start Num: 40

Candidate Starts for Toron_1:

(7, 16), (Start: 40 @55 has 22 MA's), (65, 142), (89, 214), (94, 238), (108, 298), (110, 307), (111, 310), (127, 376), (130, 394), (141, 445), (144, 454),

Gene: Troje_1 Start: 53, Stop: 535, Start Num: 33

Candidate Starts for Troje_1:

(18, 14), (Start: 33 @53 has 19 MA's), (Start: 50 @98 has 2 MA's), (74, 188), (92, 242), (98, 272), (123, 365), (132, 413), (164, 524),

Gene: Tuck_2 Start: 1145, Stop: 1597, Start Num: 44

Candidate Starts for Tuck_2:

(3, 1040), (Start: 44 @1145 has 65 MA's), (137, 1532), (143, 1550), (153, 1571),

Gene: Turab_1 Start: 85, Stop: 540, Start Num: 44

Candidate Starts for Turab_1:

(Start: 44 @85 has 65 MA's), (84, 214), (153, 511), (157, 520),

Gene: Tutumahutu_1 Start: 84, Stop: 536, Start Num: 44

Candidate Starts for Tutumahutu_1:

(29, 54), (Start: 44 @84 has 65 MA's), (84, 213), (137, 471), (153, 510), (157, 519),

Gene: Tweety19_2 Start: 958, Stop: 1422, Start Num: 44

Candidate Starts for Tweety19_2:

(Start: 44 @958 has 65 MA's), (111, 1207), (153, 1396), (157, 1405),

Gene: Typhonomachy_1 Start: 52, Stop: 543, Start Num: 33

Candidate Starts for Typhonomachy_1:

(19, 22), (Start: 33 @52 has 19 MA's), (Start: 50 @97 has 2 MA's), (74, 187), (89, 223), (92, 241), (98, 271), (111, 319), (123, 364),

Gene: UtzChips_1 Start: 114, Stop: 596, Start Num: 47

Candidate Starts for UtzChips_1:

(Start: 41 @108 has 2 MA's), (Start: 47 @114 has 36 MA's), (112, 363), (129, 447), (144, 519),

Gene: VResidence_1 Start: 140, Stop: 604, Start Num: 44

Candidate Starts for VResidence_1:

(Start: 44 @140 has 65 MA's), (Start: 52 @167 has 1 MA's), (93, 314), (131, 503), (143, 557), (153, 578), (157, 587),

Gene: VWB_1 Start: 1, Stop: 480, Start Num: 27

Candidate Starts for VWB_1:

(Start: 27 @1 has 7 MA's), (30, 10), (55, 76), (76, 154), (91, 187), (131, 361), (132, 364),

Gene: VasuNzinga_33 Start: 9630, Stop: 10064, Start Num: 47

Candidate Starts for VasuNzinga_33:

(3, 9495), (Start: 47 @9630 has 36 MA's), (Start: 69 @9711 has 5 MA's), (99, 9831), (107, 9861), (123, 9921), (155, 10056),

Gene: Vine_2 Start: 681, Stop: 1172, Start Num: 34

Candidate Starts for Vine_2:

(Start: 34 @681 has 20 MA's), (53, 732), (Start: 60 @762 has 1 MA's), (74, 813), (89, 849), (98, 897), (100, 909), (111, 945), (122, 984), (123, 990), (130, 1029), (132, 1038), (135, 1059),

Gene: VroomVroom_1 Start: 132, Stop: 563, Start Num: 44

Candidate Starts for VroomVroom_1:

(Start: 44 @132 has 65 MA's), (71, 228), (114, 393), (137, 519),

Gene: Warda_1 Start: 84, Stop: 536, Start Num: 44

Candidate Starts for Warda_1:

(29, 54), (Start: 44 @84 has 65 MA's), (84, 213), (137, 471), (153, 510), (157, 519),

Gene: Wildwest_2 Start: 1032, Stop: 1481, Start Num: 44

Candidate Starts for Wildwest_2:

(1, 825), (Start: 44 @1032 has 65 MA's), (101, 1248), (153, 1455), (157, 1464),

Gene: Wolfwood_2 Start: 425, Stop: 922, Start Num: 34

Candidate Starts for Wolfwood_2:

(22, 398), (Start: 34 @425 has 20 MA's), (Start: 60 @506 has 1 MA's), (98, 659), (103, 680), (123, 752), (130, 791), (162, 899),

Gene: Wrigley_1 Start: 82, Stop: 504, Start Num: 40

Candidate Starts for Wrigley_1:

(Start: 35 @73 has 16 MA's), (Start: 40 @82 has 22 MA's), (86, 226), (94, 265), (108, 325), (124, 388), (134, 436), (141, 472), (144, 481),

Gene: Xula_1 Start: 67, Stop: 540, Start Num: 44

Candidate Starts for Xula_1:

(36, 55), (Start: 44 @67 has 65 MA's), (70, 151), (80, 187), (103, 292), (107, 304), (108, 307), (119, 340), (121, 352), (130, 403), (158, 508),

Gene: Yakult_1 Start: 48, Stop: 503, Start Num: 35

Candidate Starts for Yakult_1:

(Start: 35 @48 has 16 MA's), (Start: 62 @135 has 1 MA's), (74, 177), (98, 261), (123, 354), (132, 402), (157, 489),

Gene: Yang_1 Start: 84, Stop: 548, Start Num: 44

Candidate Starts for Yang_1:

(29, 54), (Start: 44 @84 has 65 MA's), (143, 501), (157, 531),

Gene: Yarn_1 Start: 59, Stop: 535, Start Num: 35

Candidate Starts for Yarn_1:

(18, 14), (Start: 35 @59 has 16 MA's), (53, 107), (74, 188), (92, 242), (98, 272), (111, 320), (123, 365), (132, 413), (164, 524),

Gene: YesChef_1 Start: 84, Stop: 536, Start Num: 44

Candidate Starts for YesChef_1:

(29, 54), (Start: 44 @84 has 65 MA's), (84, 213), (137, 471), (153, 510), (157, 519),

Gene: Yucky_1 Start: 56, Stop: 547, Start Num: 34

Candidate Starts for Yucky_1:

(Start: 34 @56 has 20 MA's), (Start: 50 @98 has 2 MA's), (Start: 62 @146 has 1 MA's), (89, 224), (98, 272), (100, 284), (122, 359), (123, 365), (130, 404), (132, 413), (135, 434),

Gene: Yummy_1 Start: 53, Stop: 535, Start Num: 33

Candidate Starts for Yummy_1:

(18, 14), (Start: 33 @53 has 19 MA's), (Start: 50 @98 has 2 MA's), (74, 188), (92, 242), (98, 272), (123, 365), (132, 413), (164, 524),

Gene: Zareef_2 Start: 426, Stop: 923, Start Num: 34

Candidate Starts for Zareef_2:

(22, 399), (Start: 34 @426 has 20 MA's), (Start: 60 @507 has 1 MA's), (98, 660), (103, 681), (123, 753), (130, 792), (162, 900),