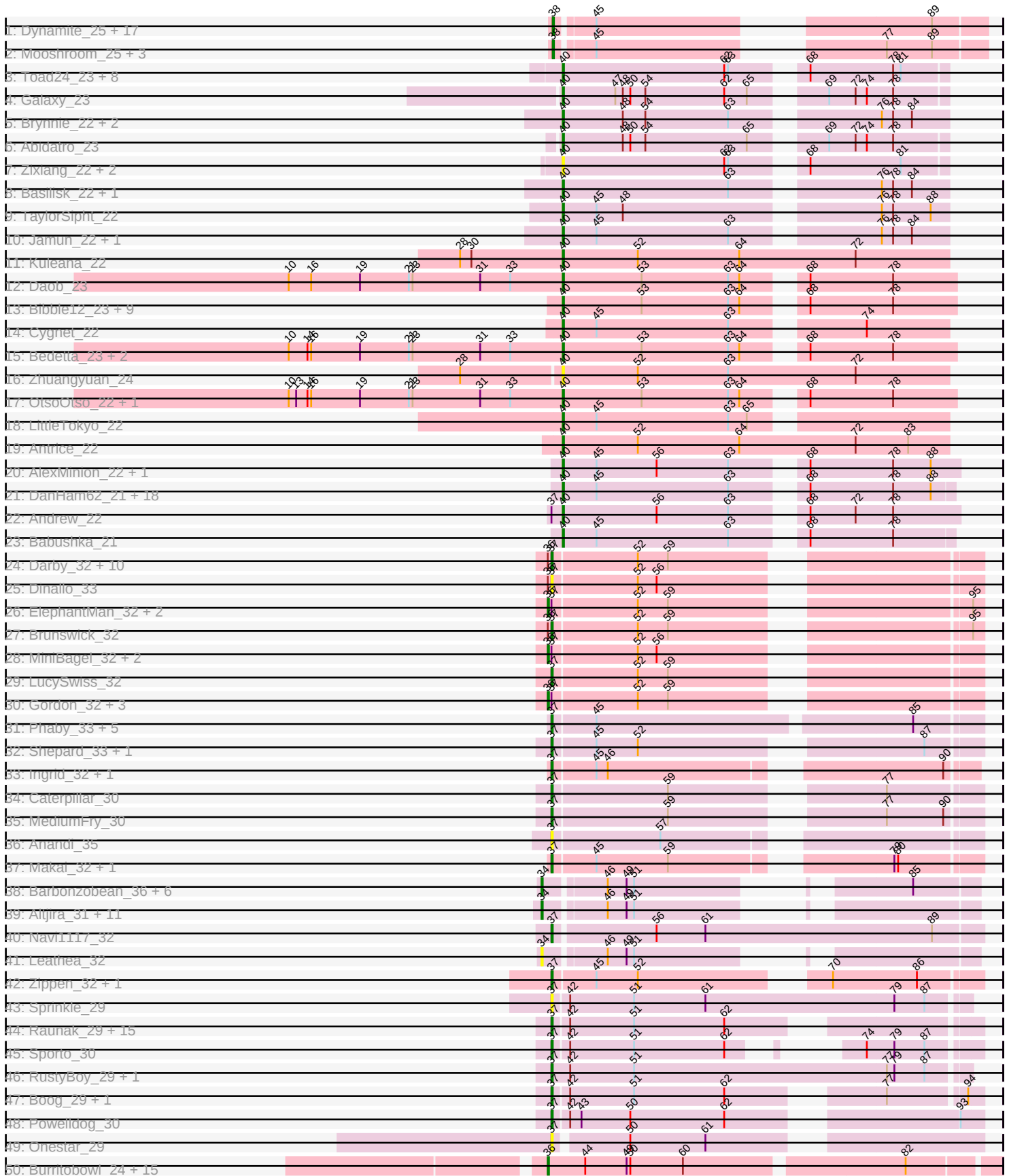
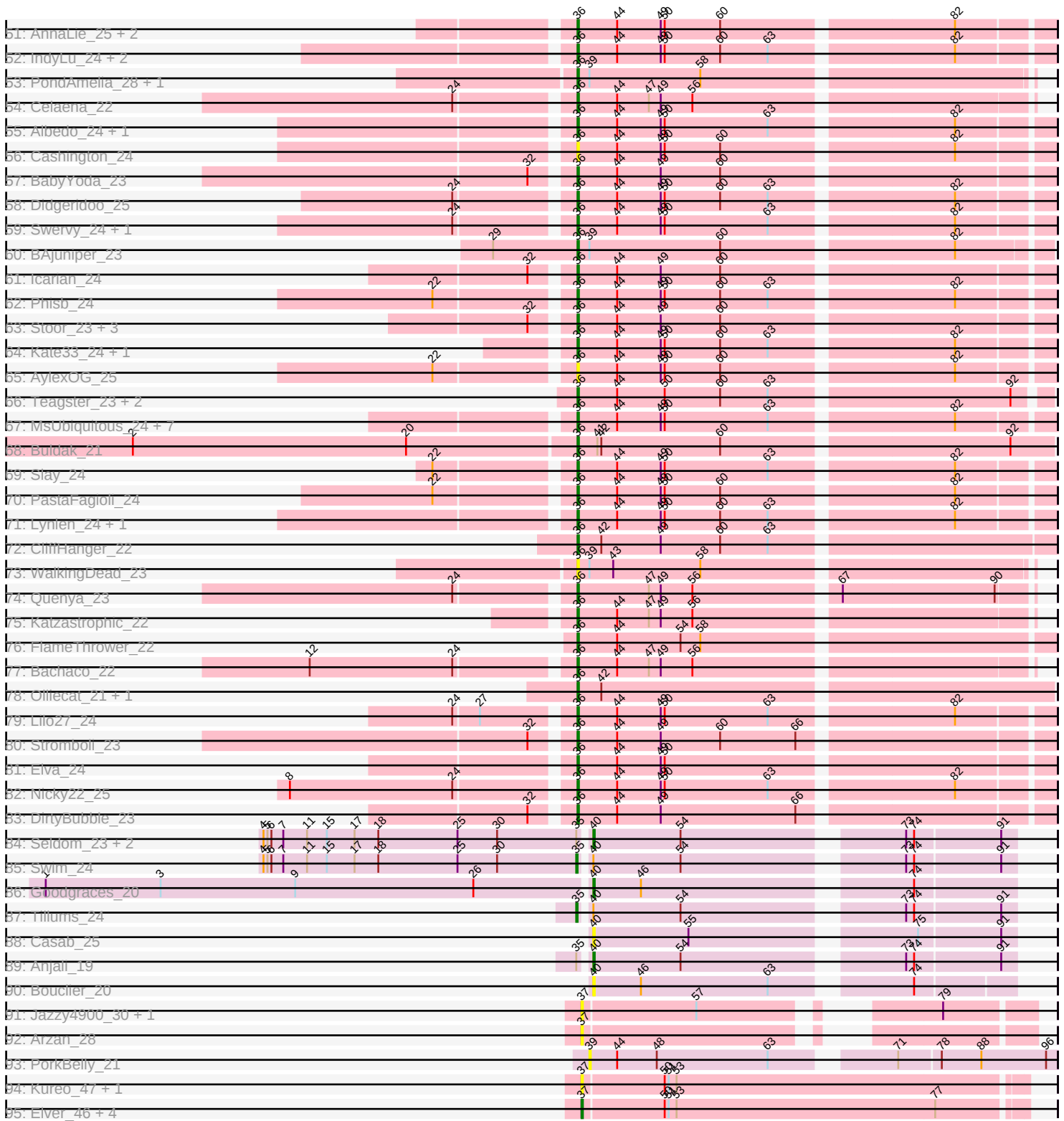


Pham 238490



Pham 238490



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 238490 Report

This analysis was run 02/07/26 on database version 634.

Pham number 238490 has 265 members, 70 are drafts.

Phages represented in each track:

- Track 1 : Dynamite_25, Elsa_26, BenitoAntonio_26, Circum_26, KeaneyLin_24, Arcadia_26, GoCrazy_24, Cheesy_26, Bowling_26, Hankly_24, YoshiYama_25, Xenomorph_24, Correa_25, Benllo_24, Tribby_26, Nason_26, NapoleonB_25, Mudcat_25
- Track 2 : Mooshroom_25, Kardesai_24, JEGGS_25, Heisenberger_25
- Track 3 : Toad24_23, Amanises_23, KendraB23_23, Orcanus_22, Pelletreau_23, Westrich_23, Shen_23, Eesa_22, Gravel_23
- Track 4 : Galaxy_23
- Track 5 : Brynnie_22, Chickaboom_21, WileyE_21
- Track 6 : Abidatro_23
- Track 7 : Zixiang_22, Niblet_22, Chicken_22
- Track 8 : Basilisk_22, Ruchi_22
- Track 9 : TaylorSipht_22
- Track 10 : Jamun_22, Vulpecula_22
- Track 11 : Kuleana_22
- Track 12 : Daob_23
- Track 13 : Bibble12_23, Jerole_23, Amelia_23, Cote_23, Melons_23, PhirstandPhine_23, Lunar_23, HannahPhantana_23, Coral_22, Kepler_22
- Track 14 : Cygnet_22
- Track 15 : Bedetta_23, Pineda_23, Colusalem_22
- Track 16 : Zhuangyuan_24
- Track 17 : OtsoOtso_22, Polka_22
- Track 18 : LittleTokyo_22
- Track 19 : Antrice_22
- Track 20 : AlexMinion_22, StuartMinion_21
- Track 21 : DanHam62_21, AdoptaAdorbs_21, Atlantica_21, PhluffyCoco_21, Leona_21, Oppalora_21, Amphitrite_21, AmiCi24_21, HamCheese_21, Glotell_21, Laphuphu24k_21, Renna12_22, Fingolfin_21, Juno112_21, KHumphrey_21, Rattail_21, Azaz_21, Camara_21, RedFox_21
- Track 22 : Andrew_22
- Track 23 : Babushka_21
- Track 24 : Darby_32, AreFloNak_32, CastorTray_34, Westerlin_33, Synepsis_31, Nivinsha_32, ScienceWizSam_34, Issa_32, Trustiboi_33, DevitoJr_32, Acai_32
- Track 25 : Dinallo_33
- Track 26 : ElephantMan_32, Niktson_32, Teacup_32
- Track 27 : Brunswick_32
- Track 28 : MiniBagel_32, CapnMurica_32, Tenno_33

- Track 29 : LucySwiss_32
- Track 30 : Gordon_32, Breylor17_33, Nightmare_33, Tatanka_32
- Track 31 : Phaby_33, Giantsbane_33, Chlochlo_33, Tokki_33, Bouchard_33, Tipton_33
- Track 32 : Shepard_33, LilHuddy_33
- Track 33 : Ingrid_32, Loretta_32
- Track 34 : Caterpillar_30
- Track 35 : MediumFry_30
- Track 36 : Anandi_35
- Track 37 : Makai_32, Truckee_31
- Track 38 : Barbonzobean_36, Lewando_35, Kinny_34, Renaldo_37, BarbieDoll_35, Muglass_34, Biscute_33
- Track 39 : Altjira_31, Argan_31, KevinMinion_32, Mardi_33, Phaila_31, Stardrop_33, PoeMe_33, GantcherGoblin_31, Tenney120_32, Zeina_32, Uzumaki_32, TrixiePhattel_32
- Track 40 : Navi1117_32
- Track 41 : Leathea_32
- Track 42 : Zippen_32, Inked_34
- Track 43 : Sprinkle_29
- Track 44 : Raunak_29, Stayer_29, Spain_28, StarLord_29, Salk_29, Egad_29, Linda_29, BronxBay_29, Shiba_29, MrAaronian_29, ProfFrink_29, Jeremy4pt0_28, DoctorPepper_29, Michelle_29, Djungelskog_29, Sloopyjoe_29
- Track 45 : Sporto_30
- Track 46 : RustyBoy_29, Natasha_29
- Track 47 : Boog_29, HerbBucket_28
- Track 48 : PowellDog_30
- Track 49 : Onestar_29
- Track 50 : Burritobowl_24, DickRichards_24, Johnathan_24, LimaBean_24, Avocadoman_24, CroZenni_24, Bengal_24, Albright_24, Abigail_24, Arroyo_25, Doobus_24, PhigPhack_25, Solea_26, Softsoap_23, BubbaBear_24, Milomuff_26
- Track 51 : AnnaLie_25, SansAfet_24, BelmontSKP_25
- Track 52 : IndyLu_24, BabyDaisy_25, Lahqtemish_24
- Track 53 : PondAmelia_28, AvGardian_24
- Track 54 : Celaena_22
- Track 55 : Albedo_24, SirBeanington_24
- Track 56 : Cashington_24
- Track 57 : BabyYoda_23
- Track 58 : Didgeridoo_25
- Track 59 : Swervy_24, SarBear_24
- Track 60 : BAjuniper_23
- Track 61 : Icarian_24
- Track 62 : Phisb_24
- Track 63 : Stoor_23, Akino08_22, Loviatar_23, SanaSana_24
- Track 64 : Kate33_24, Finalfrontier_25
- Track 65 : AylexOG_25
- Track 66 : Teagster_23, SunnyD_22, Shayna_22
- Track 67 : MsUbiquitous_24, Jabb_24, Eula_24, TukTuk_24, CupcakePrincess_24, Pecas_24, Jovita_24, QMacho_25
- Track 68 : Buldak_21
- Track 69 : Slay_24
- Track 70 : PastaFagioli_24
- Track 71 : Lynlen_24, Kenzers_24
- Track 72 : CliffHanger_22

- Track 73 : WalkingDead_23
- Track 74 : Quenya_23
- Track 75 : Katzastrophic_22
- Track 76 : FlameThrower_22
- Track 77 : Bachaco_22
- Track 78 : Olliecat_21, Squircle_21
- Track 79 : Lilo27_24
- Track 80 : Stromboli_23
- Track 81 : Elva_24
- Track 82 : Nicky22_25
- Track 83 : DirtyBubble_23
- Track 84 : Seldom_23, Dunamis_22, Mendel_21
- Track 85 : Swim_24
- Track 86 : Goodgraces_20
- Track 87 : Tillums_24
- Track 88 : Casab_25
- Track 89 : Anjali_19
- Track 90 : Bouclier_20
- Track 91 : Jazzy4900_30, Sunny4976_29
- Track 92 : Arzan_28
- Track 93 : PorkBelly_21
- Track 94 : Kureo_47, Marianna39_47
- Track 95 : Elver_46, JeNeSaisPas_45, Paella_46, Qui_46, Gandionco_47

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

The start number called the most often in the published annotations is 36, it was called in 71 of the 195 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

• Abigail_24, Akino08_22, Albedo_24, Albright_24, AnnaLie_25, Arroyo_25, AvGardian_24, Avocadoman_24, AylexOG_25, BAJuniper_23, BabyDaisy_25, BabyYoda_23, Bachaco_22, BelmontSKP_25, Bengal_24, Breylor17_33, BubbaBear_24, Buldak_21, Burritobowl_24, CapnMurica_32, Cashington_24, Celaena_22, CliffHanger_22, CroZenni_24, CupcakePrincess_24, DickRichards_24, Didgeridoo_25, DirtyBubble_23, Doobus_24, ElephantMan_32, Elva_24, Eula_24, Finalfrontier_25, FlameThrower_22, Gordon_32, Icarian_24, IndyLu_24, Jabb_24, Johnathan_24, Jovita_24, Kate33_24, Katzastrophic_22, Kenzers_24, Lahqtemish_24, Lilo27_24, LimaBean_24, Loviatar_23, Lynlen_24, Milomuff_26, MiniBagel_32, MsUbiquitous_24, Nicky22_25, Nightmare_33, Niktson_32, Olliecat_21, PastaFagioli_24, Pecas_24, PhigPhack_25, Phisb_24, PondAmelia_28, QMacho_25, Quenya_23, SanaSana_24, SansAfet_24, SarBear_24, Shayna_22, SirBeanington_24, Slay_24, Softsoap_23, Solea_26, Squircle_21, Stoor_23, Stromboli_23, SunnyD_22, Swervy_24, Tatanka_32, Teacup_32, Teagster_23, Tenno_33, TukTuk_24, WalkingDead_23,

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

• Acai_32, AreFloNak_32, Brunswick_32, CastorTray_34, Darby_32, DevitoJr_32, Dinallo_33, Issa_32, Nivinsha_32, ScienceWizSam_34, Synopsis_31, Trustiboi_33, Westerlin_33,

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

- Abidatro_23, AdoptaAdorbs_21, AlexMinion_22, Altjira_31, Amanises_23, Amelia_23, AmiCi24_21, Amphitrite_21, Anandi_35, Andrew_22, Anjali_19, Antrice_22, Arcadia_26, Argan_31, Arzan_28, Atlantica_21, Azaz_21, Babushka_21, BarbieDoll_35, Barbonzobean_36, Basilisk_22, Bedetta_23, BenitoAntonio_26, Benllo_24, Bibble12_23, Biscute_33, Boog_29, Bouchard_33, Bouclier_20, Bowling_26, BronxBay_29, Brynnie_22, Camara_21, Casab_25, Caterpillar_30, Cheesy_26, Chickaboom_21, Chicken_22, Chlochlo_33, Circum_26, Colusalem_22, Coral_22, Correa_25, Cote_23, Cygnet_22, DanHam62_21, Daob_23, Djungelskog_29, DoctorPepper_29, Dunamis_22, Dynamite_25, Eesa_22, Egad_29, Elsa_26, Elver_46, Fingolfin_21, Galaxy_23, Gandionco_47, GantcherGoblin_31, Giantsbane_33, Glotell_21, GoCrazy_24, Goodgraces_20, Gravel_23, HamCheese_21, Hankly_24, HannahPhantana_23, Heisenberger_25, HerbBucket_28, Ingrid_32, Inked_34, JEGGS_25, Jamun_22, Jazzy4900_30, JeNeSaisPas_45, Jeremy4pt0_28, Jerole_23, Juno112_21, KHumphrey_21, Kardesai_24, KeaneyLin_24, KendraB23_23, Kepler_22, KevinMinion_32, Kinny_34, Kuleana_22, Kureo_47, Laphuphu24k_21, Leathea_32, Leona_21, Lewando_35, LilHuddy_33, Linda_29, LittleTokyo_22, Loretta_32, LucySwiss_32, Lunar_23, Makai_32, Mardi_33, Marianna39_47, MediumFry_30, Melons_23, Mendel_21, Michelle_29, Mooshroom_25, MrAaronian_29, Mudcat_25, Muglass_34, NapoleonB_25, Nason_26, Natasha_29, Navi1117_32, Niblet_22, Onestar_29, Oppalora_21, Orcanus_22, OtsoOtso_22, Paella_46, Pelletreau_23, Phaby_33, Phaila_31, PhirstandPhine_23, PhluffyCoco_21, Pineda_23, PoeMe_33, Polka_22, PorkBelly_21, PowellDog_30, ProfFrink_29, Qui_46, Rattail_21, Raunak_29, RedFox_21, Renaldo_37, Renna12_22, Ruchi_22, RustyBoy_29, Salk_29, Seldom_23, Shen_23, Shepard_33, Shiba_29, Sloopyjoe_29, Spain_28, Sporto_30, Sprinkle_29, StarLord_29, Stardrop_33, Stayer_29, StuartMinion_21, Sunny4976_29, Swim_24, TaylorSipht_22, Tenney120_32, Tillums_24, Tipton_33, Toad24_23, Tokki_33, Tribby_26, TrixiePhattel_32, Truckee_31, Uzumaki_32, Vulpecula_22, Westrich_23, WileyE_21, Xenomorph_24, YoshiYama_25, Zeina_32, Zhuangyuan_24, Zippen_32, Zixiang_22,

Summary by start number:

Start 34:

- Found in 20 of 265 (7.5%) of genes in pham
- Manual Annotations of this start: 10 of 195
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Altjira_31 (AU6), Argan_31 (AU6), BarbieDoll_35 (AU6), Barbonzobean_36 (AU6), Biscute_33 (AU6), GantcherGoblin_31 (AU6), KevinMinion_32 (AU6), Kinny_34 (AU6), Leathea_32 (AU6), Lewando_35 (AU6), Mardi_33 (AU6), Muglass_34 (AU6), Phaila_31 (AU6), PoeMe_33 (AU6), Renaldo_37 (AU6), Stardrop_33 (AU6), Tenney120_32 (AU6), TrixiePhattel_32 (AU6), Uzumaki_32 (AU6), Zeina_32 (AU6),

Start 35:

- Found in 6 of 265 (2.3%) of genes in pham
- Manual Annotations of this start: 2 of 195
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Swim_24 (FD), Tillums_24 (FD),

Start 36:

- Found in 94 of 265 (35.5%) of genes in pham
- Manual Annotations of this start: 71 of 195
- Called 86.2% of time when present
- Phage (with cluster) where this start called: Abigail_24 (EB), Akino08_22 (EB), Albedo_24 (EB), Albright_24 (EB), AnnaLie_25 (EB), Arroyo_25 (EB), AvGardian_24 (EB), Avocadoman_24 (EB), AylexOG_25 (EB), BAjuniper_23 (EB), BabyDaisy_25 (EB), BabyYoda_23 (EB), Bachaco_22 (EB), BelmontSKP_25 (EB), Bengal_24 (EB), Breylor17_33 (AU1), BubbaBear_24 (EB), Buldak_21 (EB), Burritobowl_24 (EB), CapnMurica_32 (AU1), Cashington_24 (EB), Celaena_22 (EB), CliffHanger_22 (EB), CroZenni_24 (EB), CupcakePrincess_24 (EB), DickRichards_24 (EB), Didgeridoo_25 (EB), DirtyBubble_23 (EB), Doobus_24 (EB), ElephantMan_32 (AU1), Elva_24 (EB), Eula_24 (EB), Finalfrontier_25 (EB), FlameThrower_22 (EB), Gordon_32 (AU1), Icarian_24 (EB), IndyLu_24 (EB), Jabb_24 (EB), Johnathan_24 (EB), Jovita_24 (EB), Kate33_24 (EB), Katzastrophic_22 (EB), Kenzers_24 (EB), Lahqtemish_24 (EB), Lilo27_24 (EB), LimaBean_24 (EB), Loviatar_23 (EB), Lynlen_24 (EB), Milomuff_26 (EB), MiniBagel_32 (AU1), MsUbiquitous_24 (EB), Nicky22_25 (EB), Nightmare_33 (AU1), Niktson_32 (AU1), Olliecat_21 (EB), PastaFagioli_24 (EB), Pecas_24 (EB), PhigPhack_25 (EB), Phisb_24 (EB), PondAmelia_28 (EB), QMacho_25 (EB), Quenya_23 (EB), SanaSana_24 (EB), SansAfet_24 (EB), SarBear_24 (EB), Shayna_22 (EB), SirBeannington_24 (EB), Slay_24 (EB), Softsoap_23 (EB), Solea_26 (EB), Squircle_21 (EB), Stoor_23 (EB), Stromboli_23 (EB), SunnyD_22 (EB), Swervy_24 (EB), Tatanka_32 (AU1), Teacup_32 (AU1), Teagster_23 (EB), Tenno_33 (AU1), TukTuk_24 (EB), WalkingDead_23 (EB),

Start 37:

- Found in 77 of 265 (29.1%) of genes in pham
- Manual Annotations of this start: 46 of 195
- Called 85.7% of time when present
- Phage (with cluster) where this start called: Acai_32 (AU1), Anandi_35 (AU4), AreFloNak_32 (AU1), Arzan_28 (FI), Boog_29 (AW), Bouchard_33 (AU2), BronxBay_29 (AW), Brunswick_32 (AU1), CastorTray_34 (AU1), Caterpillar_30 (AU4), Chlocho_33 (AU2), Darby_32 (AU1), DevitoJr_32 (AU1), Dinallo_33 (AU1), Djungelskog_29 (AW), DoctorPepper_29 (AW), Egad_29 (AW), Elver_46 (FK), Gandionco_47 (FK), Giantsbane_33 (AU2), HerbBucket_28 (AW), Ingrid_32 (AU3), Inked_34 (AU7), Issa_32 (AU1), Jazzy4900_30 (FI), JeNeSaisPas_45 (FK), Jeremy4pt0_28 (AW), Kureo_47 (FK), LilHuddy_33 (AU2), Linda_29 (AW), Loretta_32 (AU3), LucySwiss_32 (AU1), Makai_32 (AU5), Marianna39_47 (FK), MediumFry_30 (AU4), Michelle_29 (AW), MrAaronian_29 (AW), Natasha_29 (AW), Navi1117_32 (AU6), Nivinsha_32 (AU1), Onestar_29 (AW), Paella_46 (FK), Phaby_33 (AU2), Powelldog_30 (AW), ProfFrink_29 (AW), Qui_46 (FK), Raunak_29 (AW), RustyBoy_29 (AW), Salk_29 (AW), ScienceWizSam_34 (AU1), Shepard_33 (AU2), Shiba_29 (AW), Sloopyjoe_29 (AW), Spain_28 (AW), Sporto_30 (AW), Sprinkle_29 (AW), StarLord_29 (AW), Stayer_29 (AW), Sunny4976_29 (FI), Synepsis_31 (AU1), Tipton_33 (AU2), Tokki_33 (AU2), Truckee_31 (AU5), Trustiboi_33 (AU1), Westerlin_33 (AU1), Zippen_32 (AU7),

Start 38:

- Found in 22 of 265 (8.3%) of genes in pham
- Manual Annotations of this start: 20 of 195
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Arcadia_26 (AM), BenitoAntonio_26 (AM), Benllo_24 (AM), Bowling_26 (AM), Cheesy_26 (AM), Circum_26 (AM), Correa_25 (AM), Dynamite_25 (AM), Elsa_26 (AM), GoCrazy_24 (AM), Hankly_24

(AM), Heisenberger_25 (AM), JEGGS_25 (AM), Kardesai_24 (AM), KeaneyLin_24 (AM), Mooshroom_25 (AM), Mudcat_25 (AM), NapoleonB_25 (AM), Nason_26 (AM), Tribby_26 (AM), Xenomorph_24 (AM), YoshiYama_25 (AM),

Start 39:

- Found in 5 of 265 (1.9%) of genes in pham
- No Manual Annotations of this start.
- Called 20.0% of time when present
- Phage (with cluster) where this start called: PorkBelly_21 (FJ),

Start 40:

- Found in 75 of 265 (28.3%) of genes in pham
- Manual Annotations of this start: 46 of 195
- Called 97.3% of time when present
- Phage (with cluster) where this start called: Abidatro_23 (AS1), AdoptaAdorbs_21 (AS3), AlexMinion_22 (AS3), Amanises_23 (AS1), Amelia_23 (AS2), AmiCi24_21 (AS3), Amphitrite_21 (AS3), Andrew_22 (AS3), Anjali_19 (FD), Antrice_22 (AS2), Atlantica_21 (AS3), Azaz_21 (AS3), Babushka_21 (AS3), Basilisk_22 (AS1), Bedetta_23 (AS2), Bibble12_23 (AS2), Bouclier_20 (FD), Brynnie_22 (AS1), Camara_21 (AS3), Casab_25 (FD), Chickaboom_21 (AS1), Chicken_22 (AS1), Colusalem_22 (AS2), Coral_22 (AS2), Cote_23 (AS2), Cygnet_22 (AS2), DanHam62_21 (AS3), Daob_23 (AS2), Dunamis_22 (FD), Eesa_22 (AS1), Fingolfin_21 (AS3), Galaxy_23 (AS1), Glotell_21 (AS3), Goodgraces_20 (FD), Gravel_23 (AS1), HamCheese_21 (AS3), HannahPhantana_23 (AS2), Jamun_22 (AS1), Jerole_23 (AS2), Juno112_21 (AS3), KHumphrey_21 (AS3), KendraB23_23 (AS1), Kepler_22 (AS2), Kuleana_22 (AS2), Laphuphu24k_21 (AS3), Leona_21 (AS3), LittleTokyo_22 (AS2), Lunar_23 (AS2), Melons_23 (AS2), Mendel_21 (FD), Niblet_22 (AS1), Oppalora_21 (AS3), Orcanus_22 (AS1), OtsoOtso_22 (AS2), Pelletreau_23 (AS1), PhirstandPhine_23 (AS2), PhluffyCoco_21 (AS3), Pineda_23 (AS2), Polka_22 (AS2), Rattail_21 (AS3), RedFox_21 (AS3), Renna12_22 (AS3), Ruchi_22 (AS1), Seldom_23 (FD), Shen_23 (AS1), StuartMinion_21 (AS3), TaylorSipht_22 (AS1), Toad24_23 (AS1), Vulpecula_22 (AS1), Westrich_23 (AS1), WileyE_21 (AS1), Zhuangyuan_24 (AS2), Zixiang_22 (AS1),

Summary by clusters:

There are 17 clusters represented in this pham: AS3, AS2, AS1, AU7, AU5, AM, EB, AU1, AU3, AU2, FD, AU4, AW, AU6, FI, FJ, FK,

Info for manual annotations of cluster AM:

- Start number 38 was manually annotated 20 times for cluster AM.

Info for manual annotations of cluster AS1:

- Start number 40 was manually annotated 12 times for cluster AS1.

Info for manual annotations of cluster AS2:

- Start number 40 was manually annotated 16 times for cluster AS2.

Info for manual annotations of cluster AS3:

- Start number 40 was manually annotated 13 times for cluster AS3.

Info for manual annotations of cluster AU1:

- Start number 36 was manually annotated 10 times for cluster AU1.

- Start number 37 was manually annotated 9 times for cluster AU1.

Info for manual annotations of cluster AU2:

- Start number 37 was manually annotated 7 times for cluster AU2.

Info for manual annotations of cluster AU3:

- Start number 37 was manually annotated 2 times for cluster AU3.

Info for manual annotations of cluster AU4:

- Start number 37 was manually annotated 2 times for cluster AU4.

Info for manual annotations of cluster AU5:

- Start number 37 was manually annotated 2 times for cluster AU5.

Info for manual annotations of cluster AU6:

- Start number 34 was manually annotated 10 times for cluster AU6.
- Start number 37 was manually annotated 1 time for cluster AU6.

Info for manual annotations of cluster AU7:

- Start number 37 was manually annotated 2 times for cluster AU7.

Info for manual annotations of cluster AW:

- Start number 37 was manually annotated 18 times for cluster AW.

Info for manual annotations of cluster EB:

- Start number 36 was manually annotated 61 times for cluster EB.

Info for manual annotations of cluster FD:

- Start number 35 was manually annotated 2 times for cluster FD.
- Start number 40 was manually annotated 5 times for cluster FD.

Info for manual annotations of cluster FK:

- Start number 37 was manually annotated 3 times for cluster FK.

Gene Information:

Gene: Abidatro_23 Start: 17715, Stop: 17999, Start Num: 40

Candidate Starts for Abidatro_23:

(Start: 40 @17715 has 46 MA's), (48, 17763), (50, 17769), (54, 17781), (65, 17862), (69, 17907), (72, 17928), (74, 17937), (78, 17958),

Gene: Abigail_24 Start: 19414, Stop: 19755, Start Num: 36

Candidate Starts for Abigail_24:

(Start: 36 @19414 has 71 MA's), (44, 19444), (49, 19477), (50, 19480), (60, 19522), (82, 19687),

Gene: Acai_32 Start: 28162, Stop: 28485, Start Num: 37

Candidate Starts for Acai_32:

(Start: 36 @28159 has 71 MA's), (Start: 37 @28162 has 46 MA's), (52, 28228), (59, 28252),

Gene: AdoptaAdorbs_21 Start: 16204, Stop: 16494, Start Num: 40
Candidate Starts for AdoptaAdorbs_21:
(Start: 40 @16204 has 46 MA's), (45, 16231), (63, 16336), (68, 16381), (78, 16447), (88, 16477),

Gene: Akino08_22 Start: 19902, Stop: 20243, Start Num: 36
Candidate Starts for Akino08_22:
(32, 19875), (Start: 36 @19902 has 71 MA's), (44, 19932), (49, 19965), (60, 20010),

Gene: Albedo_24 Start: 19291, Stop: 19632, Start Num: 36
Candidate Starts for Albedo_24:
(Start: 36 @19291 has 71 MA's), (44, 19321), (49, 19354), (50, 19357), (63, 19435), (82, 19564),

Gene: Albright_24 Start: 19172, Stop: 19513, Start Num: 36
Candidate Starts for Albright_24:
(Start: 36 @19172 has 71 MA's), (44, 19202), (49, 19235), (50, 19238), (60, 19280), (82, 19445),

Gene: AlexMinion_22 Start: 16249, Stop: 16545, Start Num: 40
Candidate Starts for AlexMinion_22:
(Start: 40 @16249 has 46 MA's), (45, 16276), (56, 16324), (63, 16381), (68, 16426), (78, 16492), (88, 16522),

Gene: Altjira_31 Start: 27437, Stop: 27700, Start Num: 34
Candidate Starts for Altjira_31:
(Start: 34 @27437 has 10 MA's), (46, 27482), (49, 27497), (51, 27503),

Gene: Amanises_23 Start: 17799, Stop: 18083, Start Num: 40
Candidate Starts for Amanises_23:
(Start: 40 @17799 has 46 MA's), (62, 17928), (63, 17931), (68, 17976), (78, 18042), (81, 18048),

Gene: Amelia_23 Start: 16639, Stop: 16932, Start Num: 40
Candidate Starts for Amelia_23:
(Start: 40 @16639 has 46 MA's), (53, 16702), (63, 16771), (64, 16780), (68, 16816), (78, 16882),

Gene: AmiCi24_21 Start: 16202, Stop: 16492, Start Num: 40
Candidate Starts for AmiCi24_21:
(Start: 40 @16202 has 46 MA's), (45, 16229), (63, 16334), (68, 16379), (78, 16445), (88, 16475),

Gene: Amphitrite_21 Start: 16202, Stop: 16492, Start Num: 40
Candidate Starts for Amphitrite_21:
(Start: 40 @16202 has 46 MA's), (45, 16229), (63, 16334), (68, 16379), (78, 16445), (88, 16475),

Gene: Anandi_35 Start: 28715, Stop: 29017, Start Num: 37
Candidate Starts for Anandi_35:
(Start: 37 @28715 has 46 MA's), (57, 28799),

Gene: Andrew_22 Start: 16648, Stop: 16944, Start Num: 40
Candidate Starts for Andrew_22:
(Start: 37 @16639 has 46 MA's), (Start: 40 @16648 has 46 MA's), (56, 16723), (63, 16780), (68, 16825), (72, 16861), (78, 16891),

Gene: Anjali_19 Start: 15340, Stop: 15636, Start Num: 40
Candidate Starts for Anjali_19:

(Start: 35 @15334 has 2 MA's), (Start: 40 @15340 has 46 MA's), (54, 15406), (73, 15556), (74, 15562), (91, 15625),

Gene: AnnaLie_25 Start: 19601, Stop: 19942, Start Num: 36

Candidate Starts for AnnaLie_25:

(Start: 36 @19601 has 71 MA's), (44, 19631), (49, 19664), (50, 19667), (60, 19709), (82, 19874),

Gene: Antrice_22 Start: 17177, Stop: 17485, Start Num: 40

Candidate Starts for Antrice_22:

(Start: 40 @17177 has 46 MA's), (52, 17237), (64, 17318), (72, 17411), (83, 17453),

Gene: Arcadia_26 Start: 24545, Stop: 24826, Start Num: 38

Candidate Starts for Arcadia_26:

(Start: 38 @24545 has 20 MA's), (45, 24572), (89, 24785),

Gene: AreFloNak_32 Start: 28123, Stop: 28425, Start Num: 37

Candidate Starts for AreFloNak_32:

(Start: 36 @28120 has 71 MA's), (Start: 37 @28123 has 46 MA's), (52, 28189), (59, 28213),

Gene: Argan_31 Start: 26704, Stop: 26967, Start Num: 34

Candidate Starts for Argan_31:

(Start: 34 @26704 has 10 MA's), (46, 26749), (49, 26764), (51, 26770),

Gene: Arroyo_25 Start: 19801, Stop: 20142, Start Num: 36

Candidate Starts for Arroyo_25:

(Start: 36 @19801 has 71 MA's), (44, 19831), (49, 19864), (50, 19867), (60, 19909), (82, 20074),

Gene: Arzan_28 Start: 25421, Stop: 25702, Start Num: 37

Candidate Starts for Arzan_28:

(Start: 37 @25421 has 46 MA's),

Gene: Atlantica_21 Start: 16204, Stop: 16494, Start Num: 40

Candidate Starts for Atlantica_21:

(Start: 40 @16204 has 46 MA's), (45, 16231), (63, 16336), (68, 16381), (78, 16447), (88, 16477),

Gene: AvGardian_24 Start: 19525, Stop: 19851, Start Num: 36

Candidate Starts for AvGardian_24:

(Start: 36 @19525 has 71 MA's), (39, 19534), (58, 19618),

Gene: Avocadoman_24 Start: 19356, Stop: 19697, Start Num: 36

Candidate Starts for Avocadoman_24:

(Start: 36 @19356 has 71 MA's), (44, 19386), (49, 19419), (50, 19422), (60, 19464), (82, 19629),

Gene: AylexOG_25 Start: 19628, Stop: 19969, Start Num: 36

Candidate Starts for AylexOG_25:

(22, 19532), (Start: 36 @19628 has 71 MA's), (44, 19658), (49, 19691), (50, 19694), (60, 19736), (82, 19901),

Gene: Azaz_21 Start: 16264, Stop: 16560, Start Num: 40

Candidate Starts for Azaz_21:

(Start: 40 @16264 has 46 MA's), (45, 16291), (63, 16396), (68, 16441), (78, 16507), (88, 16537),

Gene: BAjuniper_23 Start: 20001, Stop: 20339, Start Num: 36

Candidate Starts for BAjuniper_23:

(29, 19938), (Start: 36 @20001 has 71 MA's), (39, 20010), (60, 20109), (82, 20274),

Gene: Babushka_21 Start: 16263, Stop: 16553, Start Num: 40

Candidate Starts for Babushka_21:

(Start: 40 @16263 has 46 MA's), (45, 16290), (63, 16395), (68, 16440), (78, 16506),

Gene: BabyDaisy_25 Start: 19417, Stop: 19758, Start Num: 36

Candidate Starts for BabyDaisy_25:

(Start: 36 @19417 has 71 MA's), (44, 19447), (49, 19480), (50, 19483), (60, 19525), (63, 19561), (82, 19690),

Gene: BabyYoda_23 Start: 19985, Stop: 20326, Start Num: 36

Candidate Starts for BabyYoda_23:

(32, 19958), (Start: 36 @19985 has 71 MA's), (44, 20015), (49, 20048), (60, 20093),

Gene: Bachaco_22 Start: 20044, Stop: 20370, Start Num: 36

Candidate Starts for Bachaco_22:

(12, 19855), (24, 19963), (Start: 36 @20044 has 71 MA's), (44, 20074), (47, 20098), (49, 20107), (56, 20131),

Gene: BarbieDoll_35 Start: 28680, Stop: 28943, Start Num: 34

Candidate Starts for BarbieDoll_35:

(Start: 34 @28680 has 10 MA's), (46, 28725), (49, 28740), (51, 28746), (85, 28893),

Gene: Barbonzobean_36 Start: 28275, Stop: 28538, Start Num: 34

Candidate Starts for Barbonzobean_36:

(Start: 34 @28275 has 10 MA's), (46, 28320), (49, 28335), (51, 28341), (85, 28488),

Gene: Basilisk_22 Start: 17928, Stop: 18215, Start Num: 40

Candidate Starts for Basilisk_22:

(Start: 40 @17928 has 46 MA's), (63, 18060), (76, 18162), (78, 18171), (84, 18186),

Gene: Bedetta_23 Start: 16641, Stop: 16934, Start Num: 40

Candidate Starts for Bedetta_23:

(10, 16422), (14, 16437), (16, 16440), (19, 16479), (21, 16518), (23, 16521), (31, 16575), (33, 16599), (Start: 40 @16641 has 46 MA's), (53, 16704), (63, 16773), (64, 16782), (68, 16818), (78, 16884),

Gene: BelmontSKP_25 Start: 19601, Stop: 19942, Start Num: 36

Candidate Starts for BelmontSKP_25:

(Start: 36 @19601 has 71 MA's), (44, 19631), (49, 19664), (50, 19667), (60, 19709), (82, 19874),

Gene: Bengal_24 Start: 19189, Stop: 19530, Start Num: 36

Candidate Starts for Bengal_24:

(Start: 36 @19189 has 71 MA's), (44, 19219), (49, 19252), (50, 19255), (60, 19297), (82, 19462),

Gene: BenitoAntonio_26 Start: 24161, Stop: 24442, Start Num: 38

Candidate Starts for BenitoAntonio_26:

(Start: 38 @24161 has 20 MA's), (45, 24188), (89, 24401),

Gene: Benllo_24 Start: 24445, Stop: 24726, Start Num: 38

Candidate Starts for Benllo_24:

(Start: 38 @24445 has 20 MA's), (45, 24472), (89, 24685),

Gene: Bibble12_23 Start: 16642, Stop: 16935, Start Num: 40

Candidate Starts for Bibble12_23:

(Start: 40 @16642 has 46 MA's), (53, 16705), (63, 16774), (64, 16783), (68, 16819), (78, 16885),

Gene: Biscute_33 Start: 28326, Stop: 28589, Start Num: 34

Candidate Starts for Biscute_33:

(Start: 34 @28326 has 10 MA's), (46, 28371), (49, 28386), (51, 28392), (85, 28539),

Gene: Boog_29 Start: 25278, Stop: 25577, Start Num: 37

Candidate Starts for Boog_29:

(Start: 37 @25278 has 46 MA's), (42, 25290), (51, 25341), (62, 25413), (77, 25509), (94, 25566),

Gene: Bouchard_33 Start: 28306, Stop: 28629, Start Num: 37

Candidate Starts for Bouchard_33:

(Start: 37 @28306 has 46 MA's), (45, 28339), (85, 28579),

Gene: Bouclier_20 Start: 15579, Stop: 15872, Start Num: 40

Candidate Starts for Bouclier_20:

(Start: 40 @15579 has 46 MA's), (46, 15615), (63, 15711), (74, 15801),

Gene: Bowling_26 Start: 24259, Stop: 24540, Start Num: 38

Candidate Starts for Bowling_26:

(Start: 38 @24259 has 20 MA's), (45, 24286), (89, 24499),

Gene: Breylor17_33 Start: 28726, Stop: 29031, Start Num: 36

Candidate Starts for Breylor17_33:

(Start: 36 @28726 has 71 MA's), (Start: 37 @28729 has 46 MA's), (52, 28795), (59, 28819),

Gene: BronxBay_29 Start: 25277, Stop: 25576, Start Num: 37

Candidate Starts for BronxBay_29:

(Start: 37 @25277 has 46 MA's), (42, 25289), (51, 25340), (62, 25412),

Gene: Brunswick_32 Start: 28195, Stop: 28497, Start Num: 37

Candidate Starts for Brunswick_32:

(Start: 36 @28192 has 71 MA's), (Start: 37 @28195 has 46 MA's), (52, 28261), (59, 28285), (95, 28489),

Gene: Brynnie_22 Start: 17740, Stop: 18027, Start Num: 40

Candidate Starts for Brynnie_22:

(Start: 40 @17740 has 46 MA's), (48, 17788), (54, 17806), (63, 17872), (76, 17974), (78, 17983), (84, 17998),

Gene: BubbaBear_24 Start: 19291, Stop: 19632, Start Num: 36

Candidate Starts for BubbaBear_24:

(Start: 36 @19291 has 71 MA's), (44, 19321), (49, 19354), (50, 19357), (60, 19399), (82, 19564),

Gene: Buldak_21 Start: 17968, Stop: 18315, Start Num: 36

Candidate Starts for Buldak_21:

(2, 17635), (20, 17842), (Start: 36 @17968 has 71 MA's), (41, 17983), (42, 17986), (60, 18076), (92, 18283),

Gene: Burritobowl_24 Start: 19357, Stop: 19698, Start Num: 36

Candidate Starts for Burritobowl_24:

(Start: 36 @19357 has 71 MA's), (44, 19387), (49, 19420), (50, 19423), (60, 19465), (82, 19630),

Gene: Camara_21 Start: 16205, Stop: 16495, Start Num: 40

Candidate Starts for Camara_21:

(Start: 40 @16205 has 46 MA's), (45, 16232), (63, 16337), (68, 16382), (78, 16448), (88, 16478),

Gene: CapnMurica_32 Start: 29278, Stop: 29583, Start Num: 36

Candidate Starts for CapnMurica_32:

(Start: 36 @29278 has 71 MA's), (Start: 37 @29281 has 46 MA's), (52, 29347), (56, 29362),

Gene: Casab_25 Start: 15999, Stop: 16295, Start Num: 40

Candidate Starts for Casab_25:

(Start: 40 @15999 has 46 MA's), (55, 16071), (75, 16224), (91, 16284),

Gene: Cashington_24 Start: 19206, Stop: 19547, Start Num: 36

Candidate Starts for Cashington_24:

(Start: 36 @19206 has 71 MA's), (44, 19236), (49, 19269), (50, 19272), (60, 19314), (82, 19479),

Gene: CastorTray_34 Start: 28587, Stop: 28889, Start Num: 37

Candidate Starts for CastorTray_34:

(Start: 36 @28584 has 71 MA's), (Start: 37 @28587 has 46 MA's), (52, 28653), (59, 28677),

Gene: Caterpillar_30 Start: 27361, Stop: 27663, Start Num: 37

Candidate Starts for Caterpillar_30:

(Start: 37 @27361 has 46 MA's), (59, 27451), (77, 27592),

Gene: Celaena_22 Start: 19992, Stop: 20318, Start Num: 36

Candidate Starts for Celaena_22:

(24, 19911), (Start: 36 @19992 has 71 MA's), (44, 20022), (47, 20046), (49, 20055), (56, 20079),

Gene: Cheesy_26 Start: 24260, Stop: 24541, Start Num: 38

Candidate Starts for Cheesy_26:

(Start: 38 @24260 has 20 MA's), (45, 24287), (89, 24500),

Gene: Chickaboom_21 Start: 16666, Stop: 16953, Start Num: 40

Candidate Starts for Chickaboom_21:

(Start: 40 @16666 has 46 MA's), (48, 16714), (54, 16732), (63, 16798), (76, 16900), (78, 16909), (84, 16924),

Gene: Chicken_22 Start: 17668, Stop: 17952, Start Num: 40

Candidate Starts for Chicken_22:

(Start: 40 @17668 has 46 MA's), (62, 17797), (63, 17800), (68, 17845), (81, 17917),

Gene: Chlochlo_33 Start: 28342, Stop: 28665, Start Num: 37

Candidate Starts for Chlochlo_33:

(Start: 37 @28342 has 46 MA's), (45, 28375), (85, 28615),

Gene: Circum_26 Start: 24267, Stop: 24548, Start Num: 38

Candidate Starts for Circum_26:

(Start: 38 @24267 has 20 MA's), (45, 24294), (89, 24507),

Gene: CliffHanger_22 Start: 17567, Stop: 17914, Start Num: 36

Candidate Starts for CliffHanger_22:

(Start: 36 @17567 has 71 MA's), (42, 17585), (49, 17630), (60, 17675), (63, 17711),

Gene: Colusalem_22 Start: 16480, Stop: 16773, Start Num: 40

Candidate Starts for Colusalem_22:

(10, 16261), (14, 16276), (16, 16279), (19, 16318), (21, 16357), (23, 16360), (31, 16414), (33, 16438),
(Start: 40 @16480 has 46 MA's), (53, 16543), (63, 16612), (64, 16621), (68, 16657), (78, 16723),

Gene: Coral_22 Start: 16478, Stop: 16771, Start Num: 40

Candidate Starts for Coral_22:

(Start: 40 @16478 has 46 MA's), (53, 16541), (63, 16610), (64, 16619), (68, 16655), (78, 16721),

Gene: Correa_25 Start: 23775, Stop: 24056, Start Num: 38

Candidate Starts for Correa_25:

(Start: 38 @23775 has 20 MA's), (45, 23802), (89, 24015),

Gene: Cote_23 Start: 16639, Stop: 16932, Start Num: 40

Candidate Starts for Cote_23:

(Start: 40 @16639 has 46 MA's), (53, 16702), (63, 16771), (64, 16780), (68, 16816), (78, 16882),

Gene: CroZenni_24 Start: 19195, Stop: 19536, Start Num: 36

Candidate Starts for CroZenni_24:

(Start: 36 @19195 has 71 MA's), (44, 19225), (49, 19258), (50, 19261), (60, 19303), (82, 19468),

Gene: CupcakePrincess_24 Start: 19315, Stop: 19656, Start Num: 36

Candidate Starts for CupcakePrincess_24:

(Start: 36 @19315 has 71 MA's), (44, 19345), (49, 19378), (50, 19381), (63, 19459), (82, 19588),

Gene: Cygnet_22 Start: 17281, Stop: 17568, Start Num: 40

Candidate Starts for Cygnet_22:

(Start: 40 @17281 has 46 MA's), (45, 17308), (63, 17413), (74, 17503),

Gene: DanHam62_21 Start: 16204, Stop: 16494, Start Num: 40

Candidate Starts for DanHam62_21:

(Start: 40 @16204 has 46 MA's), (45, 16231), (63, 16336), (68, 16381), (78, 16447), (88, 16477),

Gene: Daob_23 Start: 16644, Stop: 16937, Start Num: 40

Candidate Starts for Daob_23:

(10, 16425), (16, 16443), (19, 16482), (21, 16521), (23, 16524), (31, 16578), (33, 16602), (Start: 40 @16644 has 46 MA's), (53, 16707), (63, 16776), (64, 16785), (68, 16821), (78, 16887),

Gene: Darby_32 Start: 28033, Stop: 28335, Start Num: 37

Candidate Starts for Darby_32:

(Start: 36 @28030 has 71 MA's), (Start: 37 @28033 has 46 MA's), (52, 28099), (59, 28123),

Gene: DevitoJr_32 Start: 28204, Stop: 28506, Start Num: 37

Candidate Starts for DevitoJr_32:

(Start: 36 @28201 has 71 MA's), (Start: 37 @28204 has 46 MA's), (52, 28270), (59, 28294),

Gene: DickRichards_24 Start: 19687, Stop: 20028, Start Num: 36

Candidate Starts for DickRichards_24:

(Start: 36 @19687 has 71 MA's), (44, 19717), (49, 19750), (50, 19753), (60, 19795), (82, 19960),

Gene: Didgeridoo_25 Start: 19419, Stop: 19760, Start Num: 36

Candidate Starts for Didgeridoo_25:

(24, 19338), (Start: 36 @19419 has 71 MA's), (44, 19449), (49, 19482), (50, 19485), (60, 19527), (63, 19563), (82, 19692),

Gene: Dinallo_33 Start: 29269, Stop: 29571, Start Num: 37

Candidate Starts for Dinallo_33:

(Start: 36 @29266 has 71 MA's), (Start: 37 @29269 has 46 MA's), (52, 29335), (56, 29350),

Gene: DirtyBubble_23 Start: 19943, Stop: 20284, Start Num: 36

Candidate Starts for DirtyBubble_23:

(32, 19916), (Start: 36 @19943 has 71 MA's), (44, 19973), (49, 20006), (66, 20108),

Gene: Djungelskog_29 Start: 25277, Stop: 25576, Start Num: 37

Candidate Starts for Djungelskog_29:

(Start: 37 @25277 has 46 MA's), (42, 25289), (51, 25340), (62, 25412),

Gene: DoctorPepper_29 Start: 25277, Stop: 25576, Start Num: 37

Candidate Starts for DoctorPepper_29:

(Start: 37 @25277 has 46 MA's), (42, 25289), (51, 25340), (62, 25412),

Gene: Doobus_24 Start: 19523, Stop: 19864, Start Num: 36

Candidate Starts for Doobus_24:

(Start: 36 @19523 has 71 MA's), (44, 19553), (49, 19586), (50, 19589), (60, 19631), (82, 19796),

Gene: Dunamis_22 Start: 15497, Stop: 15793, Start Num: 40

Candidate Starts for Dunamis_22:

(4, 15254), (5, 15257), (6, 15260), (7, 15269), (11, 15287), (15, 15302), (17, 15323), (18, 15341), (25, 15401), (30, 15431), (Start: 35 @15491 has 2 MA's), (Start: 40 @15497 has 46 MA's), (54, 15563), (73, 15713), (74, 15719), (91, 15782),

Gene: Dynamite_25 Start: 24068, Stop: 24349, Start Num: 38

Candidate Starts for Dynamite_25:

(Start: 38 @24068 has 20 MA's), (45, 24095), (89, 24308),

Gene: Eesa_22 Start: 17891, Stop: 18175, Start Num: 40

Candidate Starts for Eesa_22:

(Start: 40 @17891 has 46 MA's), (62, 18020), (63, 18023), (68, 18068), (78, 18134), (81, 18140),

Gene: Egad_29 Start: 25278, Stop: 25577, Start Num: 37

Candidate Starts for Egad_29:

(Start: 37 @25278 has 46 MA's), (42, 25290), (51, 25341), (62, 25413),

Gene: ElephantMan_32 Start: 28732, Stop: 29037, Start Num: 36

Candidate Starts for ElephantMan_32:

(Start: 36 @28732 has 71 MA's), (Start: 37 @28735 has 46 MA's), (52, 28801), (59, 28825), (95, 29029),

Gene: Elsa_26 Start: 24545, Stop: 24826, Start Num: 38

Candidate Starts for Elsa_26:

(Start: 38 @24545 has 20 MA's), (45, 24572), (89, 24785),

Gene: Elva_24 Start: 19907, Stop: 20248, Start Num: 36

Candidate Starts for Elva_24:

(Start: 36 @19907 has 71 MA's), (44, 19937), (49, 19970), (50, 19973),

Gene: Elver_46 Start: 36891, Stop: 37217, Start Num: 37

Candidate Starts for Elver_46:

(Start: 37 @36891 has 46 MA's), (50, 36951), (51, 36954), (53, 36960), (77, 37155),

Gene: Eula_24 Start: 19276, Stop: 19617, Start Num: 36

Candidate Starts for Eula_24:

(Start: 36 @19276 has 71 MA's), (44, 19306), (49, 19339), (50, 19342), (63, 19420), (82, 19549),

Gene: Finalfrontier_25 Start: 19783, Stop: 20124, Start Num: 36

Candidate Starts for Finalfrontier_25:

(Start: 36 @19783 has 71 MA's), (44, 19813), (49, 19846), (50, 19849), (60, 19891), (63, 19927), (82, 20056),

Gene: Fingolfin_21 Start: 16205, Stop: 16495, Start Num: 40

Candidate Starts for Fingolfin_21:

(Start: 40 @16205 has 46 MA's), (45, 16232), (63, 16337), (68, 16382), (78, 16448), (88, 16478),

Gene: FlameThrower_22 Start: 19518, Stop: 19862, Start Num: 36

Candidate Starts for FlameThrower_22:

(Start: 36 @19518 has 71 MA's), (44, 19548), (54, 19596), (58, 19611),

Gene: Galaxy_23 Start: 17720, Stop: 18004, Start Num: 40

Candidate Starts for Galaxy_23:

(Start: 40 @17720 has 46 MA's), (47, 17762), (48, 17768), (50, 17774), (54, 17786), (62, 17849), (65, 17867), (69, 17912), (72, 17933), (74, 17942), (78, 17963),

Gene: Gandionco_47 Start: 37413, Stop: 37739, Start Num: 37

Candidate Starts for Gandionco_47:

(Start: 37 @37413 has 46 MA's), (50, 37473), (51, 37476), (53, 37482), (77, 37677),

Gene: GantcherGoblin_31 Start: 26743, Stop: 27006, Start Num: 34

Candidate Starts for GantcherGoblin_31:

(Start: 34 @26743 has 10 MA's), (46, 26788), (49, 26803), (51, 26809),

Gene: Giantsbane_33 Start: 27202, Stop: 27525, Start Num: 37

Candidate Starts for Giantsbane_33:

(Start: 37 @27202 has 46 MA's), (45, 27235), (85, 27475),

Gene: Glotell_21 Start: 16202, Stop: 16492, Start Num: 40

Candidate Starts for Glotell_21:

(Start: 40 @16202 has 46 MA's), (45, 16229), (63, 16334), (68, 16379), (78, 16445), (88, 16475),

Gene: GoCrazy_24 Start: 24068, Stop: 24349, Start Num: 38

Candidate Starts for GoCrazy_24:

(Start: 38 @24068 has 20 MA's), (45, 24095), (89, 24308),

Gene: Goodgraces_20 Start: 15554, Stop: 15850, Start Num: 40

Candidate Starts for Goodgraces_20:

(1, 15146), (3, 15233), (9, 15335), (26, 15470), (Start: 40 @15554 has 46 MA's), (46, 15590), (74, 15776),

Gene: Gordon_32 Start: 29306, Stop: 29611, Start Num: 36

Candidate Starts for Gordon_32:

(Start: 36 @29306 has 71 MA's), (Start: 37 @29309 has 46 MA's), (52, 29375), (59, 29399),

Gene: Gravel_23 Start: 17797, Stop: 18081, Start Num: 40

Candidate Starts for Gravel_23:

(Start: 40 @17797 has 46 MA's), (62, 17926), (63, 17929), (68, 17974), (78, 18040), (81, 18046),

Gene: HamCheese_21 Start: 16204, Stop: 16494, Start Num: 40

Candidate Starts for HamCheese_21:

(Start: 40 @16204 has 46 MA's), (45, 16231), (63, 16336), (68, 16381), (78, 16447), (88, 16477),

Gene: Hankly_24 Start: 23290, Stop: 23571, Start Num: 38

Candidate Starts for Hankly_24:

(Start: 38 @23290 has 20 MA's), (45, 23317), (89, 23530),

Gene: HannahPhantana_23 Start: 16642, Stop: 16935, Start Num: 40

Candidate Starts for HannahPhantana_23:

(Start: 40 @16642 has 46 MA's), (53, 16705), (63, 16774), (64, 16783), (68, 16819), (78, 16885),

Gene: Heisenberger_25 Start: 23938, Stop: 24219, Start Num: 38

Candidate Starts for Heisenberger_25:

(Start: 38 @23938 has 20 MA's), (45, 23965), (77, 24142), (89, 24178),

Gene: HerbBucket_28 Start: 25278, Stop: 25577, Start Num: 37

Candidate Starts for HerbBucket_28:

(Start: 37 @25278 has 46 MA's), (42, 25290), (51, 25341), (62, 25413), (77, 25509), (94, 25566),

Gene: Icarian_24 Start: 19822, Stop: 20163, Start Num: 36

Candidate Starts for Icarian_24:

(32, 19795), (Start: 36 @19822 has 71 MA's), (44, 19852), (49, 19885), (60, 19930),

Gene: IndyLu_24 Start: 19238, Stop: 19579, Start Num: 36

Candidate Starts for IndyLu_24:

(Start: 36 @19238 has 71 MA's), (44, 19268), (49, 19301), (50, 19304), (60, 19346), (63, 19382), (82, 19511),

Gene: Ingrid_32 Start: 27921, Stop: 28220, Start Num: 37

Candidate Starts for Ingrid_32:

(Start: 37 @27921 has 46 MA's), (45, 27954), (46, 27963), (90, 28197),

Gene: Inked_34 Start: 28940, Stop: 29242, Start Num: 37

Candidate Starts for Inked_34:

(Start: 37 @28940 has 46 MA's), (45, 28973), (52, 29006), (70, 29129), (86, 29195),

Gene: Issa_32 Start: 28013, Stop: 28315, Start Num: 37

Candidate Starts for Issa_32:

(Start: 36 @28010 has 71 MA's), (Start: 37 @28013 has 46 MA's), (52, 28079), (59, 28103),

Gene: JEGGS_25 Start: 23992, Stop: 24273, Start Num: 38

Candidate Starts for JEGGS_25:

(Start: 38 @23992 has 20 MA's), (45, 24019), (77, 24196), (89, 24232),

Gene: Jabb_24 Start: 19315, Stop: 19656, Start Num: 36

Candidate Starts for Jabb_24:

(Start: 36 @19315 has 71 MA's), (44, 19345), (49, 19378), (50, 19381), (63, 19459), (82, 19588),

Gene: Jamun_22 Start: 17334, Stop: 17621, Start Num: 40

Candidate Starts for Jamun_22:

(Start: 40 @17334 has 46 MA's), (45, 17361), (63, 17466), (76, 17568), (78, 17577), (84, 17592),

Gene: Jazzy4900_30 Start: 26675, Stop: 26956, Start Num: 37

Candidate Starts for Jazzy4900_30:

(Start: 37 @26675 has 46 MA's), (57, 26759), (79, 26891),

Gene: JeNeSaisPas_45 Start: 37426, Stop: 37752, Start Num: 37

Candidate Starts for JeNeSaisPas_45:

(Start: 37 @37426 has 46 MA's), (50, 37486), (51, 37489), (53, 37495), (77, 37690),

Gene: Jeremy4pt0_28 Start: 25277, Stop: 25576, Start Num: 37

Candidate Starts for Jeremy4pt0_28:

(Start: 37 @25277 has 46 MA's), (42, 25289), (51, 25340), (62, 25412),

Gene: Jerole_23 Start: 16639, Stop: 16932, Start Num: 40

Candidate Starts for Jerole_23:

(Start: 40 @16639 has 46 MA's), (53, 16702), (63, 16771), (64, 16780), (68, 16816), (78, 16882),

Gene: Johnathan_24 Start: 19296, Stop: 19637, Start Num: 36

Candidate Starts for Johnathan_24:

(Start: 36 @19296 has 71 MA's), (44, 19326), (49, 19359), (50, 19362), (60, 19404), (82, 19569),

Gene: Jovita_24 Start: 19380, Stop: 19721, Start Num: 36

Candidate Starts for Jovita_24:

(Start: 36 @19380 has 71 MA's), (44, 19410), (49, 19443), (50, 19446), (63, 19524), (82, 19653),

Gene: Juno112_21 Start: 16205, Stop: 16495, Start Num: 40

Candidate Starts for Juno112_21:

(Start: 40 @16205 has 46 MA's), (45, 16232), (63, 16337), (68, 16382), (78, 16448), (88, 16478),

Gene: KHumphrey_21 Start: 16202, Stop: 16492, Start Num: 40

Candidate Starts for KHumphrey_21:

(Start: 40 @16202 has 46 MA's), (45, 16229), (63, 16334), (68, 16379), (78, 16445), (88, 16475),

Gene: Kardesai_24 Start: 23671, Stop: 23952, Start Num: 38

Candidate Starts for Kardesai_24:

(Start: 38 @23671 has 20 MA's), (45, 23698), (77, 23875), (89, 23911),

Gene: Kate33_24 Start: 19240, Stop: 19581, Start Num: 36

Candidate Starts for Kate33_24:

(Start: 36 @19240 has 71 MA's), (44, 19270), (49, 19303), (50, 19306), (60, 19348), (63, 19384), (82, 19513),

Gene: Katzastrophic_22 Start: 19650, Stop: 19976, Start Num: 36

Candidate Starts for Katzastrophic_22:

(Start: 36 @19650 has 71 MA's), (44, 19680), (47, 19704), (49, 19713), (56, 19737),

Gene: KeaneyLin_24 Start: 24068, Stop: 24349, Start Num: 38

Candidate Starts for KeaneyLin_24:

(Start: 38 @24068 has 20 MA's), (45, 24095), (89, 24308),

Gene: KendraB23_23 Start: 17798, Stop: 18082, Start Num: 40

Candidate Starts for KendraB23_23:

(Start: 40 @17798 has 46 MA's), (62, 17927), (63, 17930), (68, 17975), (78, 18041), (81, 18047),

Gene: Kenzers_24 Start: 19266, Stop: 19607, Start Num: 36

Candidate Starts for Kenzers_24:

(Start: 36 @19266 has 71 MA's), (44, 19296), (49, 19329), (50, 19332), (60, 19374), (63, 19410), (82, 19539),

Gene: Kepler_22 Start: 16477, Stop: 16770, Start Num: 40

Candidate Starts for Kepler_22:

(Start: 40 @16477 has 46 MA's), (53, 16540), (63, 16609), (64, 16618), (68, 16654), (78, 16720),

Gene: KevinMinion_32 Start: 27837, Stop: 28100, Start Num: 34

Candidate Starts for KevinMinion_32:

(Start: 34 @27837 has 10 MA's), (46, 27882), (49, 27897), (51, 27903),

Gene: Kinny_34 Start: 28593, Stop: 28856, Start Num: 34

Candidate Starts for Kinny_34:

(Start: 34 @28593 has 10 MA's), (46, 28638), (49, 28653), (51, 28659), (85, 28806),

Gene: Kuleana_22 Start: 16584, Stop: 16892, Start Num: 40

Candidate Starts for Kuleana_22:

(28, 16503), (30, 16512), (Start: 40 @16584 has 46 MA's), (52, 16644), (64, 16725), (72, 16818),

Gene: Kureo_47 Start: 36236, Stop: 36562, Start Num: 37

Candidate Starts for Kureo_47:

(Start: 37 @36236 has 46 MA's), (50, 36296), (51, 36299), (53, 36305),

Gene: Lahqtemish_24 Start: 19289, Stop: 19630, Start Num: 36

Candidate Starts for Lahqtemish_24:

(Start: 36 @19289 has 71 MA's), (44, 19319), (49, 19352), (50, 19355), (60, 19397), (63, 19433), (82, 19562),

Gene: Laphuphu24k_21 Start: 16204, Stop: 16494, Start Num: 40

Candidate Starts for Laphuphu24k_21:

(Start: 40 @16204 has 46 MA's), (45, 16231), (63, 16336), (68, 16381), (78, 16447), (88, 16477),

Gene: Leathea_32 Start: 26639, Stop: 26902, Start Num: 34

Candidate Starts for Leathea_32:

(Start: 34 @26639 has 10 MA's), (46, 26684), (49, 26699), (51, 26705),

Gene: Leona_21 Start: 16264, Stop: 16560, Start Num: 40

Candidate Starts for Leona_21:

(Start: 40 @16264 has 46 MA's), (45, 16291), (63, 16396), (68, 16441), (78, 16507), (88, 16537),

Gene: Lewando_35 Start: 28662, Stop: 28925, Start Num: 34

Candidate Starts for Lewando_35:

(Start: 34 @28662 has 10 MA's), (46, 28707), (49, 28722), (51, 28728), (85, 28875),

Gene: LilHuddy_33 Start: 28384, Stop: 28686, Start Num: 37

Candidate Starts for LilHuddy_33:

(Start: 37 @28384 has 46 MA's), (45, 28417), (52, 28450), (87, 28645),

Gene: Lilo27_24 Start: 19252, Stop: 19593, Start Num: 36

Candidate Starts for Lilo27_24:

(24, 19171), (27, 19189), (Start: 36 @19252 has 71 MA's), (44, 19282), (49, 19315), (50, 19318), (63, 19396), (82, 19525),

Gene: LimaBean_24 Start: 19292, Stop: 19633, Start Num: 36

Candidate Starts for LimaBean_24:

(Start: 36 @19292 has 71 MA's), (44, 19322), (49, 19355), (50, 19358), (60, 19400), (82, 19565),

Gene: Linda_29 Start: 25277, Stop: 25576, Start Num: 37

Candidate Starts for Linda_29:

(Start: 37 @25277 has 46 MA's), (42, 25289), (51, 25340), (62, 25412),

Gene: LittleTokyo_22 Start: 16542, Stop: 16829, Start Num: 40

Candidate Starts for LittleTokyo_22:

(Start: 40 @16542 has 46 MA's), (45, 16569), (63, 16674), (65, 16689),

Gene: Loretta_32 Start: 27921, Stop: 28220, Start Num: 37

Candidate Starts for Loretta_32:

(Start: 37 @27921 has 46 MA's), (45, 27954), (46, 27963), (90, 28197),

Gene: Loviatar_23 Start: 19917, Stop: 20258, Start Num: 36

Candidate Starts for Loviatar_23:

(32, 19890), (Start: 36 @19917 has 71 MA's), (44, 19947), (49, 19980), (60, 20025),

Gene: LucySwiss_32 Start: 28038, Stop: 28340, Start Num: 37

Candidate Starts for LucySwiss_32:

(Start: 37 @28038 has 46 MA's), (52, 28104), (59, 28128),

Gene: Lunar_23 Start: 16639, Stop: 16932, Start Num: 40

Candidate Starts for Lunar_23:

(Start: 40 @16639 has 46 MA's), (53, 16702), (63, 16771), (64, 16780), (68, 16816), (78, 16882),

Gene: Lynlen_24 Start: 19266, Stop: 19607, Start Num: 36

Candidate Starts for Lynlen_24:

(Start: 36 @19266 has 71 MA's), (44, 19296), (49, 19329), (50, 19332), (60, 19374), (63, 19410), (82, 19539),

Gene: Makai_32 Start: 28159, Stop: 28461, Start Num: 37

Candidate Starts for Makai_32:

(Start: 37 @28159 has 46 MA's), (45, 28192), (59, 28249), (79, 28396), (80, 28399),

Gene: Mardi_33 Start: 27271, Stop: 27534, Start Num: 34

Candidate Starts for Mardi_33:

(Start: 34 @27271 has 10 MA's), (46, 27316), (49, 27331), (51, 27337),

Gene: Marianna39_47 Start: 37413, Stop: 37739, Start Num: 37

Candidate Starts for Marianna39_47:
(Start: 37 @37413 has 46 MA's), (50, 37473), (51, 37476), (53, 37482),

Gene: MediumFry_30 Start: 27363, Stop: 27665, Start Num: 37
Candidate Starts for MediumFry_30:
(Start: 37 @27363 has 46 MA's), (59, 27453), (77, 27594), (90, 27639),

Gene: Melons_23 Start: 16639, Stop: 16932, Start Num: 40
Candidate Starts for Melons_23:
(Start: 40 @16639 has 46 MA's), (53, 16702), (63, 16771), (64, 16780), (68, 16816), (78, 16882),

Gene: Mendel_21 Start: 15255, Stop: 15551, Start Num: 40
Candidate Starts for Mendel_21:
(4, 15012), (5, 15015), (6, 15018), (7, 15027), (11, 15045), (15, 15060), (17, 15081), (18, 15099), (25, 15159), (30, 15189), (Start: 35 @15249 has 2 MA's), (Start: 40 @15255 has 46 MA's), (54, 15321), (73, 15471), (74, 15477), (91, 15540),

Gene: Michelle_29 Start: 25277, Stop: 25576, Start Num: 37
Candidate Starts for Michelle_29:
(Start: 37 @25277 has 46 MA's), (42, 25289), (51, 25340), (62, 25412),

Gene: Milomuff_26 Start: 19656, Stop: 19997, Start Num: 36
Candidate Starts for Milomuff_26:
(Start: 36 @19656 has 71 MA's), (44, 19686), (49, 19719), (50, 19722), (60, 19764), (82, 19929),

Gene: MiniBagel_32 Start: 29257, Stop: 29562, Start Num: 36
Candidate Starts for MiniBagel_32:
(Start: 36 @29257 has 71 MA's), (Start: 37 @29260 has 46 MA's), (52, 29326), (56, 29341),

Gene: Mooshroom_25 Start: 23671, Stop: 23952, Start Num: 38
Candidate Starts for Mooshroom_25:
(Start: 38 @23671 has 20 MA's), (45, 23698), (77, 23875), (89, 23911),

Gene: MrAaronian_29 Start: 25277, Stop: 25576, Start Num: 37
Candidate Starts for MrAaronian_29:
(Start: 37 @25277 has 46 MA's), (42, 25289), (51, 25340), (62, 25412),

Gene: MsUbiquitous_24 Start: 19315, Stop: 19656, Start Num: 36
Candidate Starts for MsUbiquitous_24:
(Start: 36 @19315 has 71 MA's), (44, 19345), (49, 19378), (50, 19381), (63, 19459), (82, 19588),

Gene: Mudcat_25 Start: 25969, Stop: 26250, Start Num: 38
Candidate Starts for Mudcat_25:
(Start: 38 @25969 has 20 MA's), (45, 25996), (89, 26209),

Gene: Muglass_34 Start: 28230, Stop: 28493, Start Num: 34
Candidate Starts for Muglass_34:
(Start: 34 @28230 has 10 MA's), (46, 28275), (49, 28290), (51, 28296), (85, 28443),

Gene: NapoleonB_25 Start: 24068, Stop: 24349, Start Num: 38
Candidate Starts for NapoleonB_25:
(Start: 38 @24068 has 20 MA's), (45, 24095), (89, 24308),

Gene: Nason_26 Start: 24545, Stop: 24826, Start Num: 38

Candidate Starts for Nason_26:

(Start: 38 @24545 has 20 MA's), (45, 24572), (89, 24785),

Gene: Natasha_29 Start: 24682, Stop: 25008, Start Num: 37

Candidate Starts for Natasha_29:

(Start: 37 @24682 has 46 MA's), (42, 24697), (51, 24748), (77, 24949), (79, 24955), (87, 24979),

Gene: Navi1117_32 Start: 26906, Stop: 27241, Start Num: 37

Candidate Starts for Navi1117_32:

(Start: 37 @26906 has 46 MA's), (56, 26984), (61, 27023), (89, 27203),

Gene: Niblet_22 Start: 17668, Stop: 17952, Start Num: 40

Candidate Starts for Niblet_22:

(Start: 40 @17668 has 46 MA's), (62, 17797), (63, 17800), (68, 17845), (81, 17917),

Gene: Nicky22_25 Start: 19726, Stop: 20067, Start Num: 36

Candidate Starts for Nicky22_25:

(8, 19522), (24, 19645), (Start: 36 @19726 has 71 MA's), (44, 19756), (49, 19789), (50, 19792), (63, 19870), (82, 19999),

Gene: Nightmare_33 Start: 28570, Stop: 28875, Start Num: 36

Candidate Starts for Nightmare_33:

(Start: 36 @28570 has 71 MA's), (Start: 37 @28573 has 46 MA's), (52, 28639), (59, 28663),

Gene: Niktson_32 Start: 28732, Stop: 29037, Start Num: 36

Candidate Starts for Niktson_32:

(Start: 36 @28732 has 71 MA's), (Start: 37 @28735 has 46 MA's), (52, 28801), (59, 28825), (95, 29029),

Gene: Nivinsha_32 Start: 28123, Stop: 28425, Start Num: 37

Candidate Starts for Nivinsha_32:

(Start: 36 @28120 has 71 MA's), (Start: 37 @28123 has 46 MA's), (52, 28189), (59, 28213),

Gene: Olliecat_21 Start: 17933, Stop: 18280, Start Num: 36

Candidate Starts for Olliecat_21:

(Start: 36 @17933 has 71 MA's), (42, 17951),

Gene: Onestar_29 Start: 25057, Stop: 25359, Start Num: 37

Candidate Starts for Onestar_29:

(Start: 37 @25057 has 46 MA's), (50, 25111), (61, 25171),

Gene: Oppalora_21 Start: 16202, Stop: 16492, Start Num: 40

Candidate Starts for Oppalora_21:

(Start: 40 @16202 has 46 MA's), (45, 16229), (63, 16334), (68, 16379), (78, 16445), (88, 16475),

Gene: Orcanus_22 Start: 17591, Stop: 17875, Start Num: 40

Candidate Starts for Orcanus_22:

(Start: 40 @17591 has 46 MA's), (62, 17720), (63, 17723), (68, 17768), (78, 17834), (81, 17840),

Gene: OtsoOtso_22 Start: 16483, Stop: 16776, Start Num: 40

Candidate Starts for OtsoOtso_22:

(10, 16264), (13, 16270), (14, 16279), (16, 16282), (19, 16321), (21, 16360), (23, 16363), (31, 16417), (33, 16441), (Start: 40 @16483 has 46 MA's), (53, 16546), (63, 16615), (64, 16624), (68, 16660), (78, 16726),

Gene: Paella_46 Start: 36893, Stop: 37219, Start Num: 37

Candidate Starts for Paella_46:

(Start: 37 @36893 has 46 MA's), (50, 36953), (51, 36956), (53, 36962), (77, 37157),

Gene: PastaFagioli_24 Start: 19280, Stop: 19621, Start Num: 36

Candidate Starts for PastaFagioli_24:

(22, 19184), (Start: 36 @19280 has 71 MA's), (44, 19310), (49, 19343), (50, 19346), (60, 19388), (82, 19553),

Gene: Pecas_24 Start: 19276, Stop: 19617, Start Num: 36

Candidate Starts for Pecas_24:

(Start: 36 @19276 has 71 MA's), (44, 19306), (49, 19339), (50, 19342), (63, 19420), (82, 19549),

Gene: Pelletreau_23 Start: 17797, Stop: 18081, Start Num: 40

Candidate Starts for Pelletreau_23:

(Start: 40 @17797 has 46 MA's), (62, 17926), (63, 17929), (68, 17974), (78, 18040), (81, 18046),

Gene: Phaby_33 Start: 28317, Stop: 28640, Start Num: 37

Candidate Starts for Phaby_33:

(Start: 37 @28317 has 46 MA's), (45, 28350), (85, 28590),

Gene: Phaila_31 Start: 26321, Stop: 26584, Start Num: 34

Candidate Starts for Phaila_31:

(Start: 34 @26321 has 10 MA's), (46, 26366), (49, 26381), (51, 26387),

Gene: PhigPhack_25 Start: 19269, Stop: 19610, Start Num: 36

Candidate Starts for PhigPhack_25:

(Start: 36 @19269 has 71 MA's), (44, 19299), (49, 19332), (50, 19335), (60, 19377), (82, 19542),

Gene: PhirstandPhine_23 Start: 16639, Stop: 16932, Start Num: 40

Candidate Starts for PhirstandPhine_23:

(Start: 40 @16639 has 46 MA's), (53, 16702), (63, 16771), (64, 16780), (68, 16816), (78, 16882),

Gene: Phisb_24 Start: 19292, Stop: 19633, Start Num: 36

Candidate Starts for Phisb_24:

(22, 19196), (Start: 36 @19292 has 71 MA's), (44, 19322), (49, 19355), (50, 19358), (60, 19400), (63, 19436), (82, 19565),

Gene: PhluffyCoco_21 Start: 16204, Stop: 16494, Start Num: 40

Candidate Starts for PhluffyCoco_21:

(Start: 40 @16204 has 46 MA's), (45, 16231), (63, 16336), (68, 16381), (78, 16447), (88, 16477),

Gene: Pineda_23 Start: 16641, Stop: 16934, Start Num: 40

Candidate Starts for Pineda_23:

(10, 16422), (14, 16437), (16, 16440), (19, 16479), (21, 16518), (23, 16521), (31, 16575), (33, 16599), (Start: 40 @16641 has 46 MA's), (53, 16704), (63, 16773), (64, 16782), (68, 16818), (78, 16884),

Gene: PoeMe_33 Start: 27599, Stop: 27862, Start Num: 34

Candidate Starts for PoeMe_33:

(Start: 34 @27599 has 10 MA's), (46, 27644), (49, 27659), (51, 27665),

Gene: Polka_22 Start: 16483, Stop: 16776, Start Num: 40

Candidate Starts for Polka_22:

(10, 16264), (13, 16270), (14, 16279), (16, 16282), (19, 16321), (21, 16360), (23, 16363), (31, 16417), (33, 16441), (Start: 40 @16483 has 46 MA's), (53, 16546), (63, 16615), (64, 16624), (68, 16660), (78, 16726),

Gene: PondAmelia_28 Start: 19975, Stop: 20301, Start Num: 36

Candidate Starts for PondAmelia_28:

(Start: 36 @19975 has 71 MA's), (39, 19984), (58, 20068),

Gene: PorkBelly_21 Start: 19811, Stop: 20140, Start Num: 39

Candidate Starts for PorkBelly_21:

(39, 19811), (44, 19832), (48, 19862), (63, 19946), (71, 20024), (78, 20054), (88, 20084), (96, 20132),

Gene: Powelldog_30 Start: 24972, Stop: 25277, Start Num: 37

Candidate Starts for Powelldog_30:

(Start: 37 @24972 has 46 MA's), (42, 24984), (43, 24993), (50, 25032), (62, 25107), (93, 25260),

Gene: ProfFrink_29 Start: 25277, Stop: 25576, Start Num: 37

Candidate Starts for ProfFrink_29:

(Start: 37 @25277 has 46 MA's), (42, 25289), (51, 25340), (62, 25412),

Gene: QMacho_25 Start: 19759, Stop: 20100, Start Num: 36

Candidate Starts for QMacho_25:

(Start: 36 @19759 has 71 MA's), (44, 19789), (49, 19822), (50, 19825), (63, 19903), (82, 20032),

Gene: Quenya_23 Start: 19515, Stop: 19841, Start Num: 36

Candidate Starts for Quenya_23:

(24, 19434), (Start: 36 @19515 has 71 MA's), (47, 19569), (49, 19578), (56, 19602), (67, 19704), (90, 19818),

Gene: Qui_46 Start: 36893, Stop: 37219, Start Num: 37

Candidate Starts for Qui_46:

(Start: 37 @36893 has 46 MA's), (50, 36953), (51, 36956), (53, 36962), (77, 37157),

Gene: Rattail_21 Start: 16264, Stop: 16560, Start Num: 40

Candidate Starts for Rattail_21:

(Start: 40 @16264 has 46 MA's), (45, 16291), (63, 16396), (68, 16441), (78, 16507), (88, 16537),

Gene: Raunak_29 Start: 25277, Stop: 25576, Start Num: 37

Candidate Starts for Raunak_29:

(Start: 37 @25277 has 46 MA's), (42, 25289), (51, 25340), (62, 25412),

Gene: RedFox_21 Start: 16204, Stop: 16494, Start Num: 40

Candidate Starts for RedFox_21:

(Start: 40 @16204 has 46 MA's), (45, 16231), (63, 16336), (68, 16381), (78, 16447), (88, 16477),

Gene: Renaldo_37 Start: 28671, Stop: 28934, Start Num: 34

Candidate Starts for Renaldo_37:

(Start: 34 @28671 has 10 MA's), (46, 28716), (49, 28731), (51, 28737), (85, 28884),

Gene: Renna12_22 Start: 16554, Stop: 16850, Start Num: 40
Candidate Starts for Renna12_22:
(Start: 40 @16554 has 46 MA's), (45, 16581), (63, 16686), (68, 16731), (78, 16797), (88, 16827),

Gene: Ruchi_22 Start: 17874, Stop: 18161, Start Num: 40
Candidate Starts for Ruchi_22:
(Start: 40 @17874 has 46 MA's), (63, 18006), (76, 18108), (78, 18117), (84, 18132),

Gene: RustyBoy_29 Start: 24664, Stop: 24990, Start Num: 37
Candidate Starts for RustyBoy_29:
(Start: 37 @24664 has 46 MA's), (42, 24679), (51, 24730), (77, 24931), (79, 24937), (87, 24961),

Gene: Salk_29 Start: 25277, Stop: 25576, Start Num: 37
Candidate Starts for Salk_29:
(Start: 37 @25277 has 46 MA's), (42, 25289), (51, 25340), (62, 25412),

Gene: SanaSana_24 Start: 19856, Stop: 20197, Start Num: 36
Candidate Starts for SanaSana_24:
(32, 19829), (Start: 36 @19856 has 71 MA's), (44, 19886), (49, 19919), (60, 19964),

Gene: SansAfet_24 Start: 19203, Stop: 19544, Start Num: 36
Candidate Starts for SansAfet_24:
(Start: 36 @19203 has 71 MA's), (44, 19233), (49, 19266), (50, 19269), (60, 19311), (82, 19476),

Gene: SarBear_24 Start: 19257, Stop: 19598, Start Num: 36
Candidate Starts for SarBear_24:
(24, 19176), (Start: 36 @19257 has 71 MA's), (44, 19287), (49, 19320), (50, 19323), (63, 19401), (82, 19530),

Gene: ScienceWizSam_34 Start: 28524, Stop: 28826, Start Num: 37
Candidate Starts for ScienceWizSam_34:
(Start: 36 @28521 has 71 MA's), (Start: 37 @28524 has 46 MA's), (52, 28590), (59, 28614),

Gene: Seldom_23 Start: 15881, Stop: 16177, Start Num: 40
Candidate Starts for Seldom_23:
(4, 15638), (5, 15641), (6, 15644), (7, 15653), (11, 15671), (15, 15686), (17, 15707), (18, 15725), (25, 15785), (30, 15815), (Start: 35 @15875 has 2 MA's), (Start: 40 @15881 has 46 MA's), (54, 15947), (73, 16097), (74, 16103), (91, 16166),

Gene: Shayna_22 Start: 18614, Stop: 18955, Start Num: 36
Candidate Starts for Shayna_22:
(Start: 36 @18614 has 71 MA's), (44, 18644), (50, 18680), (60, 18722), (63, 18758), (92, 18929),

Gene: Shen_23 Start: 17798, Stop: 18082, Start Num: 40
Candidate Starts for Shen_23:
(Start: 40 @17798 has 46 MA's), (62, 17927), (63, 17930), (68, 17975), (78, 18041), (81, 18047),

Gene: Shepard_33 Start: 28381, Stop: 28683, Start Num: 37
Candidate Starts for Shepard_33:
(Start: 37 @28381 has 46 MA's), (45, 28414), (52, 28447), (87, 28642),

Gene: Shiba_29 Start: 25277, Stop: 25576, Start Num: 37
Candidate Starts for Shiba_29:

(Start: 37 @25277 has 46 MA's), (42, 25289), (51, 25340), (62, 25412),

Gene: SirBeanington_24 Start: 19299, Stop: 19640, Start Num: 36

Candidate Starts for SirBeanington_24:

(Start: 36 @19299 has 71 MA's), (44, 19329), (49, 19362), (50, 19365), (63, 19443), (82, 19572),

Gene: Slay_24 Start: 19799, Stop: 20140, Start Num: 36

Candidate Starts for Slay_24:

(22, 19703), (Start: 36 @19799 has 71 MA's), (44, 19829), (49, 19862), (50, 19865), (63, 19943), (82, 20072),

Gene: Sloopyjoe_29 Start: 25278, Stop: 25577, Start Num: 37

Candidate Starts for Sloopyjoe_29:

(Start: 37 @25278 has 46 MA's), (42, 25290), (51, 25341), (62, 25413),

Gene: Softsoap_23 Start: 19027, Stop: 19368, Start Num: 36

Candidate Starts for Softsoap_23:

(Start: 36 @19027 has 71 MA's), (44, 19057), (49, 19090), (50, 19093), (60, 19135), (82, 19300),

Gene: Solea_26 Start: 19656, Stop: 19997, Start Num: 36

Candidate Starts for Solea_26:

(Start: 36 @19656 has 71 MA's), (44, 19686), (49, 19719), (50, 19722), (60, 19764), (82, 19929),

Gene: Spain_28 Start: 25277, Stop: 25576, Start Num: 37

Candidate Starts for Spain_28:

(Start: 37 @25277 has 46 MA's), (42, 25289), (51, 25340), (62, 25412),

Gene: Sporto_30 Start: 26489, Stop: 26746, Start Num: 37

Candidate Starts for Sporto_30:

(Start: 37 @26489 has 46 MA's), (42, 26501), (51, 26552), (62, 26624), (74, 26663), (79, 26684), (87, 26708),

Gene: Sprinkle_29 Start: 25388, Stop: 25711, Start Num: 37

Candidate Starts for Sprinkle_29:

(Start: 37 @25388 has 46 MA's), (42, 25400), (51, 25451), (61, 25508), (79, 25658), (87, 25682),

Gene: Squirrel_21 Start: 17932, Stop: 18279, Start Num: 36

Candidate Starts for Squirrel_21:

(Start: 36 @17932 has 71 MA's), (42, 17950),

Gene: StarLord_29 Start: 25278, Stop: 25577, Start Num: 37

Candidate Starts for StarLord_29:

(Start: 37 @25278 has 46 MA's), (42, 25290), (51, 25341), (62, 25413),

Gene: Stardrop_33 Start: 27295, Stop: 27558, Start Num: 34

Candidate Starts for Stardrop_33:

(Start: 34 @27295 has 10 MA's), (46, 27340), (49, 27355), (51, 27361),

Gene: Stayer_29 Start: 25277, Stop: 25576, Start Num: 37

Candidate Starts for Stayer_29:

(Start: 37 @25277 has 46 MA's), (42, 25289), (51, 25340), (62, 25412),

Gene: Stoor_23 Start: 19853, Stop: 20194, Start Num: 36

Candidate Starts for Stoor_23:

(32, 19826), (Start: 36 @19853 has 71 MA's), (44, 19883), (49, 19916), (60, 19961),

Gene: Stromboli_23 Start: 19983, Stop: 20324, Start Num: 36

Candidate Starts for Stromboli_23:

(32, 19956), (Start: 36 @19983 has 71 MA's), (44, 20013), (49, 20046), (60, 20091), (66, 20148),

Gene: StuartMinion_21 Start: 16249, Stop: 16545, Start Num: 40

Candidate Starts for StuartMinion_21:

(Start: 40 @16249 has 46 MA's), (45, 16276), (56, 16324), (63, 16381), (68, 16426), (78, 16492), (88, 16522),

Gene: Sunny4976_29 Start: 26675, Stop: 26956, Start Num: 37

Candidate Starts for Sunny4976_29:

(Start: 37 @26675 has 46 MA's), (57, 26759), (79, 26891),

Gene: SunnyD_22 Start: 18618, Stop: 18956, Start Num: 36

Candidate Starts for SunnyD_22:

(Start: 36 @18618 has 71 MA's), (44, 18648), (50, 18684), (60, 18726), (63, 18762), (92, 18933),

Gene: Swervy_24 Start: 19257, Stop: 19598, Start Num: 36

Candidate Starts for Swervy_24:

(24, 19176), (Start: 36 @19257 has 71 MA's), (44, 19287), (49, 19320), (50, 19323), (63, 19401), (82, 19530),

Gene: Swim_24 Start: 15748, Stop: 16050, Start Num: 35

Candidate Starts for Swim_24:

(4, 15511), (5, 15514), (6, 15517), (7, 15526), (11, 15544), (15, 15559), (17, 15580), (18, 15598), (25, 15658), (30, 15688), (Start: 35 @15748 has 2 MA's), (Start: 40 @15754 has 46 MA's), (54, 15820), (73, 15970), (74, 15976), (91, 16039),

Gene: Synopsis_31 Start: 28187, Stop: 28489, Start Num: 37

Candidate Starts for Synopsis_31:

(Start: 36 @28184 has 71 MA's), (Start: 37 @28187 has 46 MA's), (52, 28253), (59, 28277),

Gene: Tatanka_32 Start: 28668, Stop: 28973, Start Num: 36

Candidate Starts for Tatanka_32:

(Start: 36 @28668 has 71 MA's), (Start: 37 @28671 has 46 MA's), (52, 28737), (59, 28761),

Gene: TaylorSipht_22 Start: 16608, Stop: 16895, Start Num: 40

Candidate Starts for TaylorSipht_22:

(Start: 40 @16608 has 46 MA's), (45, 16635), (48, 16656), (76, 16842), (78, 16851), (88, 16881),

Gene: Teacup_32 Start: 28040, Stop: 28345, Start Num: 36

Candidate Starts for Teacup_32:

(Start: 36 @28040 has 71 MA's), (Start: 37 @28043 has 46 MA's), (52, 28109), (59, 28133), (95, 28337),

Gene: Teagster_23 Start: 19575, Stop: 19913, Start Num: 36

Candidate Starts for Teagster_23:

(Start: 36 @19575 has 71 MA's), (44, 19605), (50, 19641), (60, 19683), (63, 19719), (92, 19890),

Gene: Tenney120_32 Start: 27032, Stop: 27295, Start Num: 34

Candidate Starts for Tenney120_32:

(Start: 34 @27032 has 10 MA's), (46, 27077), (49, 27092), (51, 27098),

Gene: Tenno_33 Start: 29266, Stop: 29571, Start Num: 36

Candidate Starts for Tenno_33:

(Start: 36 @29266 has 71 MA's), (Start: 37 @29269 has 46 MA's), (52, 29335), (56, 29350),

Gene: Tillums_24 Start: 15881, Stop: 16183, Start Num: 35

Candidate Starts for Tillums_24:

(Start: 35 @15881 has 2 MA's), (Start: 40 @15887 has 46 MA's), (54, 15953), (73, 16103), (74, 16109), (91, 16172),

Gene: Tipton_33 Start: 28378, Stop: 28701, Start Num: 37

Candidate Starts for Tipton_33:

(Start: 37 @28378 has 46 MA's), (45, 28411), (85, 28651),

Gene: Toad24_23 Start: 17798, Stop: 18082, Start Num: 40

Candidate Starts for Toad24_23:

(Start: 40 @17798 has 46 MA's), (62, 17927), (63, 17930), (68, 17975), (78, 18041), (81, 18047),

Gene: Tokki_33 Start: 28333, Stop: 28656, Start Num: 37

Candidate Starts for Tokki_33:

(Start: 37 @28333 has 46 MA's), (45, 28366), (85, 28606),

Gene: Tribby_26 Start: 24260, Stop: 24541, Start Num: 38

Candidate Starts for Tribby_26:

(Start: 38 @24260 has 20 MA's), (45, 24287), (89, 24500),

Gene: TrixiePhattel_32 Start: 26868, Stop: 27131, Start Num: 34

Candidate Starts for TrixiePhattel_32:

(Start: 34 @26868 has 10 MA's), (46, 26913), (49, 26928), (51, 26934),

Gene: Truckee_31 Start: 28204, Stop: 28506, Start Num: 37

Candidate Starts for Truckee_31:

(Start: 37 @28204 has 46 MA's), (45, 28237), (59, 28294), (79, 28441), (80, 28444),

Gene: Trustiboi_33 Start: 28740, Stop: 29042, Start Num: 37

Candidate Starts for Trustiboi_33:

(Start: 36 @28737 has 71 MA's), (Start: 37 @28740 has 46 MA's), (52, 28806), (59, 28830),

Gene: TukTuk_24 Start: 19315, Stop: 19656, Start Num: 36

Candidate Starts for TukTuk_24:

(Start: 36 @19315 has 71 MA's), (44, 19345), (49, 19378), (50, 19381), (63, 19459), (82, 19588),

Gene: Uzumaki_32 Start: 27562, Stop: 27825, Start Num: 34

Candidate Starts for Uzumaki_32:

(Start: 34 @27562 has 10 MA's), (46, 27607), (49, 27622), (51, 27628),

Gene: Vulpecula_22 Start: 17332, Stop: 17619, Start Num: 40

Candidate Starts for Vulpecula_22:

(Start: 40 @17332 has 46 MA's), (45, 17359), (63, 17464), (76, 17566), (78, 17575), (84, 17590),

Gene: WalkingDead_23 Start: 19990, Stop: 20316, Start Num: 36

Candidate Starts for WalkingDead_23:

(Start: 36 @19990 has 71 MA's), (39, 19999), (43, 20017), (58, 20083),

Gene: Westerlin_33 Start: 29852, Stop: 30154, Start Num: 37

Candidate Starts for Westerlin_33:

(Start: 36 @29849 has 71 MA's), (Start: 37 @29852 has 46 MA's), (52, 29918), (59, 29942),

Gene: Westrich_23 Start: 17787, Stop: 18071, Start Num: 40

Candidate Starts for Westrich_23:

(Start: 40 @17787 has 46 MA's), (62, 17916), (63, 17919), (68, 17964), (78, 18030), (81, 18036),

Gene: WileyE_21 Start: 16666, Stop: 16953, Start Num: 40

Candidate Starts for WileyE_21:

(Start: 40 @16666 has 46 MA's), (48, 16714), (54, 16732), (63, 16798), (76, 16900), (78, 16909), (84, 16924),

Gene: Xenomorph_24 Start: 24278, Stop: 24559, Start Num: 38

Candidate Starts for Xenomorph_24:

(Start: 38 @24278 has 20 MA's), (45, 24305), (89, 24518),

Gene: YoshiYama_25 Start: 24309, Stop: 24590, Start Num: 38

Candidate Starts for YoshiYama_25:

(Start: 38 @24309 has 20 MA's), (45, 24336), (89, 24549),

Gene: Zeina_32 Start: 26943, Stop: 27206, Start Num: 34

Candidate Starts for Zeina_32:

(Start: 34 @26943 has 10 MA's), (46, 26988), (49, 27003), (51, 27009),

Gene: Zhuangyuan_24 Start: 17013, Stop: 17321, Start Num: 40

Candidate Starts for Zhuangyuan_24:

(28, 16935), (Start: 40 @17013 has 46 MA's), (52, 17073), (63, 17145), (72, 17247),

Gene: Zippen_32 Start: 28519, Stop: 28821, Start Num: 37

Candidate Starts for Zippen_32:

(Start: 37 @28519 has 46 MA's), (45, 28552), (52, 28585), (70, 28708), (86, 28774),

Gene: Zixiang_22 Start: 17669, Stop: 17953, Start Num: 40

Candidate Starts for Zixiang_22:

(Start: 40 @17669 has 46 MA's), (62, 17798), (63, 17801), (68, 17846), (81, 17918),