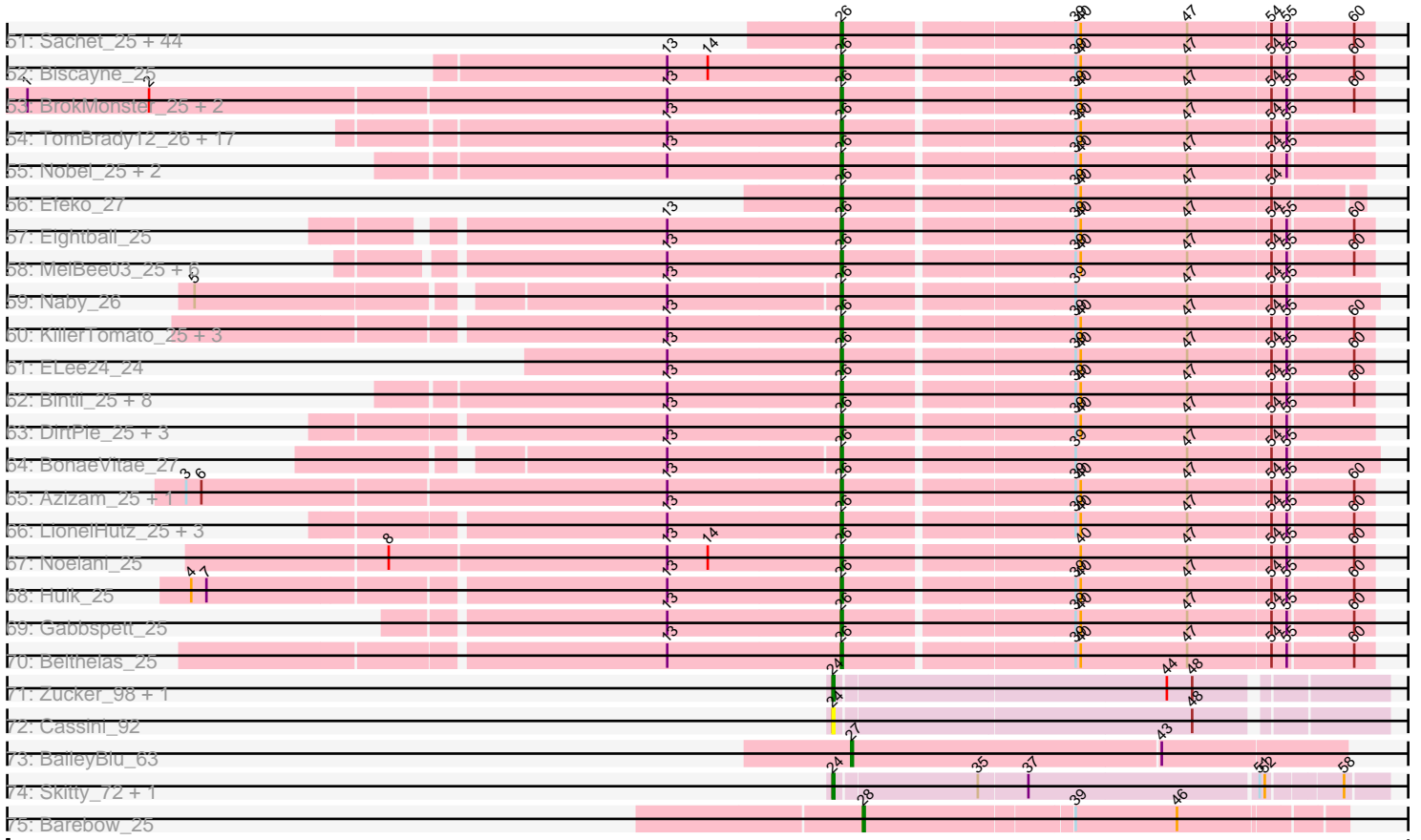


Pham 311191



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 311191 Report

This analysis was run 06/27/26 on database version 652.

Pham number 311191 has 251 members, 24 are drafts.

Phages represented in each track:

- Track 1 : FF47_64, 8UZL_67
- Track 2 : Maco6_63
- Track 3 : Raqqa_101
- Track 4 : PHL111M01_45, Supernova_45, Wizzo_44, Cota_45
- Track 5 : PHL037M02_45
- Track 6 : Leviosa_44, PHL112N00_46, Aquarius_48, P101A_47, Rileysaurus_43, PHL060L00_46
- Track 7 : P104B_44, P104A_45, P100D_47, Kubed_44, Enoki_45, Procrass1_45, LilBandit_45
- Track 8 : P100.1_47, P106C_46, P106M_45, P106L_45, P106I_46, P106A_45
- Track 9 : BruceLethal_44, PHL010M04_45
- Track 10 : Stormborn_46, QueenBey_43, Attacne_45
- Track 11 : Pirate_44
- Track 12 : Enochoraptor_43
- Track 13 : DrParker_45
- Track 14 : PA6_48
- Track 15 : Lauchelly_45
- Track 16 : P107A_45
- Track 17 : PHL113M01_44
- Track 18 : MEAK_44
- Track 19 : PAD20_48
- Track 20 : P9.1_45
- Track 21 : MrAK_46, Spartoi_56
- Track 22 : Ouroboros_45
- Track 23 : PHL114L00_46
- Track 24 : P107C_44, ATCC29399BC_46, ATCC29399BT_46
- Track 25 : Solid_45
- Track 26 : P14.4_47
- Track 27 : P100A_45
- Track 28 : PHL067M10_45
- Track 29 : PAS50_48
- Track 30 : PHL071N05_45
- Track 31 : Moyashi_44
- Track 32 : Keiki_45
- Track 33 : P108C_44, P105_45
- Track 34 : P1.1_45
- Track 35 : SKKY_47

- Track 36 : B22_61, E6_60, G4_69, Doucette_61
- Track 37 : Culver_13, PhinkBoden_15, Abscondus_13, Cucurbita_13, WilliamBoone_12, ClubL_14, Bachita_15, Geeche_13, Dusty_13
- Track 38 : Norvs_14, Toniann_14, Smoothie_14, Aphelion_14, Miskis_12, Lozinak_14, Engineer_14
- Track 39 : BrutonGaster_7
- Track 40 : OneUp_9
- Track 41 : Cardigan_14, JonJames_13
- Track 42 : Yvonnetastic_14
- Track 43 : DatBoi_9
- Track 44 : SpeedDemon_90
- Track 45 : Mollymur_10
- Track 46 : Towmatter_9
- Track 47 : Bantam_8
- Track 48 : Daredevil_10
- Track 49 : KayPaulus_25, Kaijohn_25, MrGreen_25, Avvas_25, OdetoJoy_25, Scamander_25, Kojax4_25, Josuke_25, Aries55_25, Madebyisha_25, Otwor_25, Vanisius_25, Jerky_25, LaviMo_25, Bodhi17_25, SantasSleigh_25, Maneater_25, Zahlia_25, Godfather_25, Sage7_25, Cheesecake_25, Rhysand_25, Danno_25, Grayscar_25, RoscoWindex_25, TimoTea_25, Sippinontea_25, Wolfpack_25, Charbie_25, Burgy_25, VitulaEligans_25
- Track 50 : KyriosFaba_25, Bradley2_25, Anseraureola_25, Lola20_25, Jahseh_25, Gillker_25, Baine_25, Yasuo_25, Danimal_25, Cayde6_25, EdElric_25
- Track 51 : Sachet_25, Picnic_25, Majesty_25, Chatham_25, ManAs_25, Goobery_25, JaimeB_25, Ciel_25, NeumannU_25, GoldenBlanche_25, Aztec_25, Pondwater_25, Jannah_25, BinkBonk_25, Witch_25, Gardevoir_25, Goulash_25, Erin_25, Scrunchy_25, Yubaba_25, Duggle_26, Minima_25, Dongwon_25, Myram_25, Horacetta_25, SeaWolves_25, Slentz_25, BarBear_25, Jella_27, YertPhresh_25, Hernandez44_25, JoBros_25, Alucard_25, BurtonThePup_25, Dooby_25, Puddles3_25, Luxx_25, Sara_25, Owens_25, Astro16_25, Octopus_25, Tyrellus_25, PaoPu_25, Picconator_25, LemonPepper_25
- Track 52 : Biscayne_25
- Track 53 : BrokMonster_25, JRok_25, McShie_25
- Track 54 : TomBrady12_26, Snuffles_27, TinyTruffula_25, Mauilvory_24, IzzyPants24_25, Clownery_25, Trireme_25, Rira_25, Trackstar_25, Publix_26, Yami_25, Bullzi2019_26, Slizam_25, Miaurora_25, Lunatic_25, Namsahir_27, Cazares_25, PuffyCat_25
- Track 55 : Nobel_25, Stem_25, Niffler_25
- Track 56 : Efeko_27
- Track 57 : Eightball_25
- Track 58 : MelBee03_25, Leafy_25, Kevanna_25, Loca_25, Douggie_25, Quaker_25, Livingwater_25
- Track 59 : Naby_26
- Track 60 : KillerTomato_25, Concrete_25, BoomRoasted_25, Bri160_25
- Track 61 : ELee24_24
- Track 62 : Bintii_25, MirimarMandM_25, JooneeDee_25, Elspeth_26, HarperAnne_26, Upsilon_25, Ekko14_26, PoRanda_25, TlaliMex_27
- Track 63 : DirtPie_25, Marichuy_26, MasterPitts_25, DaftyDuck_25
- Track 64 : BonaeVitae_27
- Track 65 : Azizam_25, Oaklynn_25
- Track 66 : LionelHutz_25, HeadMave_25, TeddyBoy_25, Rhogar_25
- Track 67 : Noelani_25
- Track 68 : Hulk_25

- Track 69 : Gabbspett_25
- Track 70 : Belthelas_25
- Track 71 : Zucker_98, BlackSpider_85
- Track 72 : Cassini_92
- Track 73 : BaileyBlu_63
- Track 74 : Skitty_72, MrSmee_79
- Track 75 : Barebow_25

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

The start number called the most often in the published annotations is 26, it was called in 145 of the 227 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Alucard_25, Anseraureola_25, Aries55_25, Astro16_25, Avvas_25, Azizam_25, Aztec_25, Baine_25, BarBear_25, Belthelas_25, BinkBonk_25, Bintii_25, Biscayne_25, Bodhi17_25, BonaeVitae_27, BoomRoasted_25, Bradley2_25, Bri160_25, BrokMonster_25, Bullzi2019_26, Burgy_25, BurtonThePup_25, Cayde6_25, Cazares_25, Charbie_25, Chatham_25, Cheesecake_25, Ciel_25, Clownery_25, Concrete_25, DaftyDuck_25, Danimal_25, Danno_25, DirtPie_25, Dongwon_25, Dooby_25, Douggie_25, Duggle_26, ELee24_24, EdElric_25, Efeko_27, Eightball_25, Ekko14_26, Elspeth_26, Erin_25, Gabbspett_25, Gardevoir_25, Gillker_25, Godfather_25, GoldenBlanche_25, Goobery_25, Goulash_25, Grayscar_25, HarperAnne_26, HeadMave_25, Hernandez44_25, Horacetta_25, Hulk_25, IzzyPants24_25, JRok_25, Jahseh_25, JaimeB_25, Jannah_25, Jella_27, Jerky_25, JoBros_25, JooneeDee_25, Josuke_25, Kaijohn_25, KayPaulus_25, Kevanna_25, KillerTomato_25, Kojax4_25, KyriosFaba_25, LaviMo_25, Leafy_25, LemonPepper_25, LionelHutz_25, Livingwater_25, Loca_25, Lola20_25, Lunatic_25, Luxx_25, Madebyisha_25, Majesty_25, ManAs_25, Maneater_25, Marichuy_26, MasterPitts_25, Mauilvory_24, McShie_25, MelBee03_25, Miaurora_25, Minima_25, MirimarMandM_25, MrGreen_25, Myram_25, Naby_26, Namsahir_27, NeumannU_25, Niffler_25, Nobel_25, Noelani_25, Oaklynn_25, Octopus_25, OdetoJoy_25, Otwor_25, Owens_25, PaoPu_25, Picconator_25, Picnic_25, PoRanda_25, Pondwater_25, Publix_26, Puddles3_25, PuffyCat_25, Quaker_25, Rhogar_25, Rhysand_25, Rira_25, RoscoWindex_25, Sachet_25, Sage7_25, SantasSleigh_25, Sara_25, Scamander_25, Scrunchy_25, SeaWolves_25, Sippinontea_25, Slentz_25, Slizam_25, Snuffles_27, Stem_25, TeddyBoy_25, TimoTea_25, TinyTruffula_25, TlaliMex_27, TomBrady12_26, Trackstar_25, Trireme_25, Tyrellus_25, Upsilon_25, Vanisius_25, VitulaEligans_25, Witch_25, Wolfpack_25, Yami_25, Yasuo_25, YertPhresh_25, Yubaba_25, Zahlia_25,

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

-

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

- 8UZL_67, ATCC29399BC_46, ATCC29399BT_46, Abscondus_13, Aphelion_14, Aquarius_48, Attacne_45, B22_61, Bachita_15, BaileyBlu_63, Bantam_8, Barebow_25, BlackSpider_85, BruceLethal_44, BrutonGaster_7, Cardigan_14, Cassini_92, ClubL_14, Cota_45, Cucurbita_13, Culver_13, Daredevil_10, DatBoi_9,

Doucette_61, DrParker_45, Dusty_13, E6_60, Engineer_14, Enochoraptor_43, Enoki_45, FF47_64, G4_69, Geeche_13, JonJames_13, Keiki_45, Kubed_44, Lauchelly_45, Leviosa_44, LilBandit_45, Lozinak_14, MEAK_44, Maco6_63, Miskis_12, Mollymur_10, Moyashi_44, MrAK_46, MrSmee_79, Norvs_14, OneUp_9, Ouroboros_45, P1.1_45, P100.1_47, P100A_45, P100D_47, P101A_47, P104A_45, P104B_44, P105_45, P106A_45, P106C_46, P106I_46, P106L_45, P106M_45, P107A_45, P107C_44, P108C_44, P14.4_47, P9.1_45, PA6_48, PAD20_48, PAS50_48, PHL010M04_45, PHL037M02_45, PHL060L00_46, PHL067M10_45, PHL071N05_45, PHL111M01_45, PHL112N00_46, PHL113M01_44, PHL114L00_46, PhinkBoden_15, Pirate_44, Procrass1_45, QueenBey_43, Raqqa_101, Rileysaurus_43, SKKY_47, Skitty_72, Smoothie_14, Solid_45, Sparto_56, SpeedDemon_90, Stormborn_46, Supernova_45, Toniann_14, Towmatter_9, WilliamBoone_12, Wizzo_44, Yvonnetastic_14, Zucker_98,

Summary by start number:

Start 22:

- Found in 27 of 251 (10.8%) of genes in pham
- Manual Annotations of this start: 25 of 227
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Abscondus_13 (CQ1), Aphelion_14 (CQ1), Bachita_15 (CQ1), Bantam_8 (DL), BrutonGaster_7 (CQ2), Cardigan_14 (DD), ClubL_14 (CQ1), Cucurbita_13 (CQ1), Culver_13 (CQ1), Daredevil_10 (DL), DatBoi_9 (DL), Dusty_13 (CQ1), Engineer_14 (CQ1), Geeche_13 (CQ1), JonJames_13 (DD), Lozinak_14 (CQ1), Miskis_12 (CQ1), Mollymur_10 (DL), Norvs_14 (CQ1), OneUp_9 (CQ2), PhinkBoden_15 (CQ1), Smoothie_14 (CQ1), SpeedDemon_90 (DL), Toniann_14 (CQ1), Towmatter_9 (DL), WilliamBoone_12 (CQ1), Yvonnetastic_14 (DD),

Start 23:

- Found in 22 of 251 (8.8%) of genes in pham
- Manual Annotations of this start: 4 of 227
- Called 27.3% of time when present
- Phage (with cluster) where this start called: Enochoraptor_43 (BU), Keiki_45 (BU), P1.1_45 (BU), P14.4_47 (BU), PAS50_48 (BU), PHL113M01_44 (BU),

Start 24:

- Found in 68 of 251 (27.1%) of genes in pham
- Manual Annotations of this start: 50 of 227
- Called 91.2% of time when present
- Phage (with cluster) where this start called: ATCC29399BC_46 (BU), ATCC29399BT_46 (BU), Aquarius_48 (BU), Attacne_45 (BU), B22_61 (BW), BlackSpider_85 (FN), BruceLethal_44 (BU), Cassini_92 (FN), Cota_45 (BU), Doucette_61 (BW), DrParker_45 (BU), E6_60 (BW), Enoki_45 (BU), G4_69 (BW), Kubed_44 (BU), Lauchelly_45 (BU), Leviosa_44 (BU), LilBandit_45 (BU), MEAK_44 (BU), Moyashi_44 (BU), MrAK_46 (BU), MrSmee_79 (FQ1), Ouroboros_45 (BU), P100.1_47 (BU), P100A_45 (BU), P100D_47 (BU), P101A_47 (BU), P104A_45 (BU), P104B_44 (BU), P105_45 (BU), P106A_45 (BU), P106C_46 (BU), P106I_46 (BU), P106L_45 (BU), P106M_45 (BU), P107A_45 (BU), P107C_44 (BU), P108C_44 (BU), P9.1_45 (BU), PA6_48 (BU), PAD20_48 (BU), PHL010M04_45 (BU), PHL037M02_45 (BU), PHL060L00_46 (BU), PHL067M10_45 (BU), PHL071N05_45 (BU), PHL111M01_45 (BU), PHL112N00_46 (BU), PHL114L00_46 (BU), Pirate_44 (BU), Procrass1_45 (BU), QueenBey_43 (BU), Raqqa_101 (AY), Rileysaurus_43

(BU), SKKY_47 (BU), Skitty_72 (FQ1), Solid_45 (BU), Spartoi_56 (singleton), Stormborn_46 (BU), Supernova_45 (BU), Wizzo_44 (BU), Zucker_98 (FN),

Start 25:

- Found in 3 of 251 (1.2%) of genes in pham
- Manual Annotations of this start: 1 of 227
- Called 100.0% of time when present
- Phage (with cluster) where this start called: 8UZL_67 (AB), FF47_64 (AB), Maco6_63 (AB),

Start 26:

- Found in 151 of 251 (60.2%) of genes in pham
- Manual Annotations of this start: 145 of 227
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Alucard_25 (EE), Anseraureola_25 (EE), Aries55_25 (EE), Astro16_25 (EE), Avvas_25 (EE), Azizam_25 (EE), Aztec_25 (EE), Baine_25 (EE), BarBear_25 (EE), Belthelas_25 (EE), BinkBonk_25 (EE), Binti_25 (EE), Biscayne_25 (EE), Bodhi17_25 (EE), BonaeVitae_27 (EE), BoomRoasted_25 (EE), Bradley2_25 (EE), Bri160_25 (EE), BrokMonster_25 (EE), Bullzi2019_26 (EE), Burgy_25 (EE), BurtonThePup_25 (EE), Cayde6_25 (EE), Cazares_25 (EE), Charbie_25 (EE), Chatham_25 (EE), Cheesecake_25 (EE), Ciel_25 (EE), Clownery_25 (EE), Concrete_25 (EE), DaftyDuck_25 (EE), Danimal_25 (EE), Danno_25 (EE), DirtPie_25 (EE), Dongwon_25 (EE), Dooby_25 (EE), Duggie_25 (EE), Duggle_26 (EE), ELee24_24 (EE), EdElric_25 (EE), Efeko_27 (EE), Eightball_25 (EE), Ekko14_26 (EE), Elspeth_26 (EE), Erin_25 (EE), Gabbspett_25 (EE), Gardevoir_25 (EE), Gillker_25 (EE), Godfather_25 (EE), GoldenBlanche_25 (EE), Goobery_25 (EE), Goulash_25 (EE), Grayscar_25 (EE), HarperAnne_26 (EE), HeadMave_25 (EE), Hernandez44_25 (EE), Horacetta_25 (EE), Hulk_25 (EE), IzzyPants24_25 (EE), JRok_25 (EE), Jahseh_25 (EE), JaimeB_25 (EE), Jannah_25 (EE), Jella_27 (EE), Jerky_25 (EE), JoBros_25 (EE), JooneeDee_25 (EE), Josuke_25 (EE), Kaijohn_25 (EE), KayPaulus_25 (EE), Kevanna_25 (EE), KillerTomato_25 (EE), Kojax4_25 (EE), KyriosFaba_25 (EE), LaviMo_25 (EE), Leafy_25 (EE), LemonPepper_25 (EE), LionelHutz_25 (EE), Livingwater_25 (EE), Loca_25 (EE), Lola20_25 (EE), Lunatic_25 (EE), Luxx_25 (EE), Madebyisha_25 (EE), Majesty_25 (EE), ManAs_25 (EE), Maneater_25 (EE), Marichuy_26 (EE), MasterPitts_25 (EE), Mauilvory_24 (EE), McShie_25 (EE), MelBee03_25 (EE), Miaurora_25 (EE), Minima_25 (EE), MirimarMandM_25 (EE), MrGreen_25 (EE), Myram_25 (EE), Naby_26 (EE), Namsahir_27 (EE), NeumannU_25 (EE), Niffler_25 (EE), Nobel_25 (EE), Noelani_25 (EE), Oaklynn_25 (EE), Octopus_25 (EE), OdetoJoy_25 (EE), Otwor_25 (EE), Owens_25 (EE), PaoPu_25 (EE), Picconator_25 (EE), Picnic_25 (EE), PoRanda_25 (EE), Pondwater_25 (EE), Publix_26 (EE), Puddles3_25 (EE), PuffyCat_25 (EE), Quaker_25 (EE), Rhogar_25 (EE), Rhysand_25 (EE), Rira_25 (EE), RoscoWindex_25 (EE), Sachet_25 (EE), Sage7_25 (EE), SantasSleigh_25 (EE), Sara_25 (EE), Scamander_25 (EE), Scrunchy_25 (EE), SeaWolves_25 (EE), Sippinontea_25 (EE), Slentz_25 (EE), Slizam_25 (EE), Snuffles_27 (EE), Stem_25 (EE), TeddyBoy_25 (EE), TimoTea_25 (EE), TinyTruffula_25 (EE), TlaliMex_27 (EE), TomBrady12_26 (EE), Trackstar_25 (EE), Trireme_25 (EE), Tyrellus_25 (EE), Upsilon_25 (EE), Vanisius_25 (EE), VitulaEligans_25 (EE), Witch_25 (EE), Wolfpack_25 (EE), Yami_25 (EE), Yasuo_25 (EE), YertPhresh_25 (EE), Yubaba_25 (EE), Zahlia_25 (EE),

Start 27:

- Found in 1 of 251 (0.4%) of genes in pham

- Manual Annotations of this start: 1 of 227
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BaileyBlu_63 (FP),

Start 28:

- Found in 1 of 251 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 227
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Barebow_25 (singleton),

Summary by clusters:

There are 13 clusters represented in this pham: FP, singleton, AB, EE, DD, DL, BU, BW, AY, CQ2, CQ1, FQ1, FN,

Info for manual annotations of cluster AB:

- Start number 25 was manually annotated 1 time for cluster AB.

Info for manual annotations of cluster BU:

- Start number 23 was manually annotated 4 times for cluster BU.
- Start number 24 was manually annotated 41 times for cluster BU.

Info for manual annotations of cluster BW:

- Start number 24 was manually annotated 4 times for cluster BW.

Info for manual annotations of cluster CQ1:

- Start number 22 was manually annotated 15 times for cluster CQ1.

Info for manual annotations of cluster CQ2:

- Start number 22 was manually annotated 2 times for cluster CQ2.

Info for manual annotations of cluster DD:

- Start number 22 was manually annotated 2 times for cluster DD.

Info for manual annotations of cluster DL:

- Start number 22 was manually annotated 6 times for cluster DL.

Info for manual annotations of cluster EE:

- Start number 26 was manually annotated 145 times for cluster EE.

Info for manual annotations of cluster FN:

- Start number 24 was manually annotated 2 times for cluster FN.

Info for manual annotations of cluster FP:

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

Info for manual annotations of cluster FQ1:

- Start number 24 was manually annotated 2 times for cluster FQ1.

Gene Information:

Gene: 8UZL_67 Start: 46153, Stop: 46452, Start Num: 25
Candidate Starts for 8UZL_67:
(12, 46051), (Start: 25 @46153 has 1 MA's), (29, 46180), (35, 46231), (41, 46288), (53, 46384),

Gene: ATCC29399BC_46 Start: 29152, Stop: 29454, Start Num: 24
Candidate Starts for ATCC29399BC_46:
(19, 29134), (Start: 24 @29152 has 50 MA's),

Gene: ATCC29399BT_46 Start: 29152, Stop: 29454, Start Num: 24
Candidate Starts for ATCC29399BT_46:
(19, 29134), (Start: 24 @29152 has 50 MA's),

Gene: Abscondus_13 Start: 3104, Stop: 3412, Start Num: 22
Candidate Starts for Abscondus_13:
(17, 3074), (Start: 22 @3104 has 25 MA's), (56, 3368),

Gene: Alucard_25 Start: 16990, Stop: 17289, Start Num: 26
Candidate Starts for Alucard_25:
(Start: 26 @16990 has 145 MA's), (39, 17119), (40, 17122), (47, 17185), (54, 17233), (55, 17242), (60, 17278),

Gene: Anseraureola_25 Start: 17052, Stop: 17351, Start Num: 26
Candidate Starts for Anseraureola_25:
(13, 16950), (Start: 26 @17052 has 145 MA's), (39, 17181), (40, 17184), (47, 17247), (54, 17295), (55, 17304), (60, 17340),

Gene: Aphelion_14 Start: 3268, Stop: 3576, Start Num: 22
Candidate Starts for Aphelion_14:
(17, 3238), (Start: 22 @3268 has 25 MA's), (45, 3460), (56, 3532),

Gene: Aquarius_48 Start: 29747, Stop: 30049, Start Num: 24
Candidate Starts for Aquarius_48:
(Start: 24 @29747 has 50 MA's),

Gene: Aries55_25 Start: 17079, Stop: 17378, Start Num: 26
Candidate Starts for Aries55_25:
(13, 16977), (Start: 26 @17079 has 145 MA's), (39, 17208), (40, 17211), (47, 17274), (54, 17322), (55, 17331), (60, 17367),

Gene: Astro16_25 Start: 17072, Stop: 17371, Start Num: 26
Candidate Starts for Astro16_25:
(Start: 26 @17072 has 145 MA's), (39, 17201), (40, 17204), (47, 17267), (54, 17315), (55, 17324), (60, 17360),

Gene: Attacne_45 Start: 28511, Stop: 28813, Start Num: 24
Candidate Starts for Attacne_45:
(Start: 23 @28508 has 4 MA's), (Start: 24 @28511 has 50 MA's), (57, 28799),

Gene: Avvas_25 Start: 17079, Stop: 17378, Start Num: 26
Candidate Starts for Avvas_25:
(13, 16977), (Start: 26 @17079 has 145 MA's), (39, 17208), (40, 17211), (47, 17274), (54, 17322), (55, 17331), (60, 17367),

Gene: Azizam_25 Start: 17012, Stop: 17311, Start Num: 26

Candidate Starts for Azizam_25:

(3, 16631), (6, 16640), (13, 16910), (Start: 26 @17012 has 145 MA's), (39, 17141), (40, 17144), (47, 17207), (54, 17255), (55, 17264), (60, 17300),

Gene: Aztec_25 Start: 16995, Stop: 17294, Start Num: 26

Candidate Starts for Aztec_25:

(Start: 26 @16995 has 145 MA's), (39, 17124), (40, 17127), (47, 17190), (54, 17238), (55, 17247), (60, 17283),

Gene: B22_61 Start: 36822, Stop: 37160, Start Num: 24

Candidate Starts for B22_61:

(19, 36804), (Start: 24 @36822 has 50 MA's), (30, 36855), (37, 36930),

Gene: Bachita_15 Start: 3780, Stop: 4088, Start Num: 22

Candidate Starts for Bachita_15:

(17, 3750), (Start: 22 @3780 has 25 MA's), (56, 4044),

Gene: BaileyBlu_63 Start: 40002, Stop: 40289, Start Num: 27

Candidate Starts for BaileyBlu_63:

(Start: 27 @40002 has 1 MA's), (43, 40182),

Gene: Baine_25 Start: 17015, Stop: 17314, Start Num: 26

Candidate Starts for Baine_25:

(13, 16913), (Start: 26 @17015 has 145 MA's), (39, 17144), (40, 17147), (47, 17210), (54, 17258), (55, 17267), (60, 17303),

Gene: Bantam_8 Start: 4561, Stop: 4869, Start Num: 22

Candidate Starts for Bantam_8:

(18, 4546), (Start: 22 @4561 has 25 MA's), (34, 4633), (38, 4699),

Gene: BarBear_25 Start: 17072, Stop: 17371, Start Num: 26

Candidate Starts for BarBear_25:

(Start: 26 @17072 has 145 MA's), (39, 17201), (40, 17204), (47, 17267), (54, 17315), (55, 17324), (60, 17360),

Gene: Barebow_25 Start: 17435, Stop: 17701, Start Num: 28

Candidate Starts for Barebow_25:

(Start: 28 @17435 has 1 MA's), (39, 17552), (46, 17612),

Gene: Belthelas_25 Start: 17128, Stop: 17427, Start Num: 26

Candidate Starts for Belthelas_25:

(13, 17026), (Start: 26 @17128 has 145 MA's), (39, 17257), (40, 17260), (47, 17323), (54, 17371), (55, 17380), (60, 17416),

Gene: BinkBonk_25 Start: 17072, Stop: 17371, Start Num: 26

Candidate Starts for BinkBonk_25:

(Start: 26 @17072 has 145 MA's), (39, 17201), (40, 17204), (47, 17267), (54, 17315), (55, 17324), (60, 17360),

Gene: Bintii_25 Start: 17094, Stop: 17393, Start Num: 26

Candidate Starts for Bintii_25:

(13, 16992), (Start: 26 @17094 has 145 MA's), (39, 17223), (40, 17226), (47, 17289), (54, 17337), (55, 17346), (60, 17382),

Gene: Biscayne_25 Start: 17155, Stop: 17454, Start Num: 26

Candidate Starts for Biscayne_25:

(13, 17053), (14, 17077), (Start: 26 @17155 has 145 MA's), (39, 17284), (40, 17287), (47, 17350), (54, 17398), (55, 17407), (60, 17443),

Gene: BlackSpider_85 Start: 50168, Stop: 50473, Start Num: 24

Candidate Starts for BlackSpider_85:

(Start: 24 @50168 has 50 MA's), (44, 50357), (48, 50372),

Gene: Bodhi17_25 Start: 17109, Stop: 17408, Start Num: 26

Candidate Starts for Bodhi17_25:

(13, 17007), (Start: 26 @17109 has 145 MA's), (39, 17238), (40, 17241), (47, 17304), (54, 17352), (55, 17361), (60, 17397),

Gene: BonaeVitae_27 Start: 17082, Stop: 17384, Start Num: 26

Candidate Starts for BonaeVitae_27:

(13, 16983), (Start: 26 @17082 has 145 MA's), (39, 17211), (47, 17277), (54, 17325), (55, 17334),

Gene: BoomRoasted_25 Start: 17082, Stop: 17381, Start Num: 26

Candidate Starts for BoomRoasted_25:

(13, 16980), (Start: 26 @17082 has 145 MA's), (39, 17211), (40, 17214), (47, 17277), (54, 17325), (55, 17334), (60, 17370),

Gene: Bradley2_25 Start: 16994, Stop: 17293, Start Num: 26

Candidate Starts for Bradley2_25:

(13, 16892), (Start: 26 @16994 has 145 MA's), (39, 17123), (40, 17126), (47, 17189), (54, 17237), (55, 17246), (60, 17282),

Gene: Bri160_25 Start: 17069, Stop: 17368, Start Num: 26

Candidate Starts for Bri160_25:

(13, 16967), (Start: 26 @17069 has 145 MA's), (39, 17198), (40, 17201), (47, 17264), (54, 17312), (55, 17321), (60, 17357),

Gene: BrokMonster_25 Start: 17060, Stop: 17359, Start Num: 26

Candidate Starts for BrokMonster_25:

(1, 16586), (2, 16658), (13, 16958), (Start: 26 @17060 has 145 MA's), (39, 17189), (40, 17192), (47, 17255), (54, 17303), (55, 17312), (60, 17348),

Gene: BruceLethal_44 Start: 28884, Stop: 29186, Start Num: 24

Candidate Starts for BruceLethal_44:

(Start: 24 @28884 has 50 MA's),

Gene: BrutonGaster_7 Start: 1661, Stop: 1969, Start Num: 22

Candidate Starts for BrutonGaster_7:

(10, 1544), (16, 1613), (Start: 22 @1661 has 25 MA's), (42, 1835), (49, 1871), (56, 1925), (59, 1961),

Gene: Bullzi2019_26 Start: 16770, Stop: 17069, Start Num: 26

Candidate Starts for Bullzi2019_26:

(13, 16668), (Start: 26 @16770 has 145 MA's), (39, 16899), (40, 16902), (47, 16965), (54, 17013), (55, 17022),

Gene: Burgy_25 Start: 17080, Stop: 17379, Start Num: 26

Candidate Starts for Burgy_25:

(13, 16978), (Start: 26 @17080 has 145 MA's), (39, 17209), (40, 17212), (47, 17275), (54, 17323), (55, 17332), (60, 17368),

Gene: BurtonThePup_25 Start: 17072, Stop: 17371, Start Num: 26

Candidate Starts for BurtonThePup_25:

(Start: 26 @17072 has 145 MA's), (39, 17201), (40, 17204), (47, 17267), (54, 17315), (55, 17324), (60, 17360),

Gene: Cardigan_14 Start: 3818, Stop: 4126, Start Num: 22

Candidate Starts for Cardigan_14:

(Start: 22 @3818 has 25 MA's), (42, 3992), (45, 4010), (50, 4031),

Gene: Cassini_92 Start: 51244, Stop: 51549, Start Num: 24

Candidate Starts for Cassini_92:

(Start: 24 @51244 has 50 MA's), (48, 51448),

Gene: Cayde6_25 Start: 17015, Stop: 17314, Start Num: 26

Candidate Starts for Cayde6_25:

(13, 16913), (Start: 26 @17015 has 145 MA's), (39, 17144), (40, 17147), (47, 17210), (54, 17258), (55, 17267), (60, 17303),

Gene: Cazares_25 Start: 16542, Stop: 16841, Start Num: 26

Candidate Starts for Cazares_25:

(13, 16440), (Start: 26 @16542 has 145 MA's), (39, 16671), (40, 16674), (47, 16737), (54, 16785), (55, 16794),

Gene: Charbie_25 Start: 17055, Stop: 17354, Start Num: 26

Candidate Starts for Charbie_25:

(13, 16953), (Start: 26 @17055 has 145 MA's), (39, 17184), (40, 17187), (47, 17250), (54, 17298), (55, 17307), (60, 17343),

Gene: Chatham_25 Start: 16989, Stop: 17288, Start Num: 26

Candidate Starts for Chatham_25:

(Start: 26 @16989 has 145 MA's), (39, 17118), (40, 17121), (47, 17184), (54, 17232), (55, 17241), (60, 17277),

Gene: Cheesecake_25 Start: 17080, Stop: 17379, Start Num: 26

Candidate Starts for Cheesecake_25:

(13, 16978), (Start: 26 @17080 has 145 MA's), (39, 17209), (40, 17212), (47, 17275), (54, 17323), (55, 17332), (60, 17368),

Gene: Ciel_25 Start: 17072, Stop: 17371, Start Num: 26

Candidate Starts for Ciel_25:

(Start: 26 @17072 has 145 MA's), (39, 17201), (40, 17204), (47, 17267), (54, 17315), (55, 17324), (60, 17360),

Gene: Clownery_25 Start: 16668, Stop: 16967, Start Num: 26

Candidate Starts for Clownery_25:

(13, 16566), (Start: 26 @16668 has 145 MA's), (39, 16797), (40, 16800), (47, 16863), (54, 16911), (55, 16920),

Gene: ClubL_14 Start: 3280, Stop: 3588, Start Num: 22

Candidate Starts for ClubL_14:

(17, 3250), (Start: 22 @3280 has 25 MA's), (56, 3544),

Gene: Concrete_25 Start: 17059, Stop: 17358, Start Num: 26

Candidate Starts for Concrete_25:

(13, 16957), (Start: 26 @17059 has 145 MA's), (39, 17188), (40, 17191), (47, 17254), (54, 17302), (55, 17311), (60, 17347),

Gene: Cota_45 Start: 29185, Stop: 29487, Start Num: 24

Candidate Starts for Cota_45:

(Start: 23 @29182 has 4 MA's), (Start: 24 @29185 has 50 MA's), (57, 29473),

Gene: Cucurbita_13 Start: 3280, Stop: 3588, Start Num: 22

Candidate Starts for Cucurbita_13:

(17, 3250), (Start: 22 @3280 has 25 MA's), (56, 3544),

Gene: Culver_13 Start: 3104, Stop: 3412, Start Num: 22

Candidate Starts for Culver_13:

(17, 3074), (Start: 22 @3104 has 25 MA's), (56, 3368),

Gene: DaftyDuck_25 Start: 17012, Stop: 17311, Start Num: 26

Candidate Starts for DaftyDuck_25:

(13, 16910), (Start: 26 @17012 has 145 MA's), (39, 17141), (40, 17144), (47, 17207), (54, 17255), (55, 17264),

Gene: Danimal_25 Start: 16991, Stop: 17290, Start Num: 26

Candidate Starts for Danimal_25:

(13, 16889), (Start: 26 @16991 has 145 MA's), (39, 17120), (40, 17123), (47, 17186), (54, 17234), (55, 17243), (60, 17279),

Gene: Danno_25 Start: 17079, Stop: 17378, Start Num: 26

Candidate Starts for Danno_25:

(13, 16977), (Start: 26 @17079 has 145 MA's), (39, 17208), (40, 17211), (47, 17274), (54, 17322), (55, 17331), (60, 17367),

Gene: Daredevil_10 Start: 3047, Stop: 3349, Start Num: 22

Candidate Starts for Daredevil_10:

(Start: 22 @3047 has 25 MA's), (31, 3104), (32, 3107), (42, 3215),

Gene: DatBoi_9 Start: 5103, Stop: 5411, Start Num: 22

Candidate Starts for DatBoi_9:

(9, 4968), (11, 5004), (Start: 22 @5103 has 25 MA's), (34, 5175), (59, 5400),

Gene: DirtPie_25 Start: 17105, Stop: 17404, Start Num: 26

Candidate Starts for DirtPie_25:

(13, 17003), (Start: 26 @17105 has 145 MA's), (39, 17234), (40, 17237), (47, 17300), (54, 17348), (55, 17357),

Gene: Dongwon_25 Start: 16989, Stop: 17288, Start Num: 26

Candidate Starts for Dongwon_25:

(Start: 26 @16989 has 145 MA's), (39, 17118), (40, 17121), (47, 17184), (54, 17232), (55, 17241), (60, 17277),

Gene: Dooby_25 Start: 16989, Stop: 17288, Start Num: 26

Candidate Starts for Dooby_25:

(Start: 26 @16989 has 145 MA's), (39, 17118), (40, 17121), (47, 17184), (54, 17232), (55, 17241), (60, 17277),

Gene: Doucette_61 Start: 37032, Stop: 37370, Start Num: 24

Candidate Starts for Doucette_61:

(19, 37014), (Start: 24 @37032 has 50 MA's), (30, 37065), (37, 37140),

Gene: Douggie_25 Start: 17065, Stop: 17364, Start Num: 26

Candidate Starts for Douggie_25:

(13, 16963), (Start: 26 @17065 has 145 MA's), (39, 17194), (40, 17197), (47, 17260), (54, 17308), (55, 17317), (60, 17353),

Gene: DrParker_45 Start: 29378, Stop: 29680, Start Num: 24

Candidate Starts for DrParker_45:

(Start: 23 @29375 has 4 MA's), (Start: 24 @29378 has 50 MA's), (57, 29666),

Gene: Duggle_26 Start: 16989, Stop: 17288, Start Num: 26

Candidate Starts for Duggle_26:

(Start: 26 @16989 has 145 MA's), (39, 17118), (40, 17121), (47, 17184), (54, 17232), (55, 17241), (60, 17277),

Gene: Dusty_13 Start: 3104, Stop: 3412, Start Num: 22

Candidate Starts for Dusty_13:

(17, 3074), (Start: 22 @3104 has 25 MA's), (56, 3368),

Gene: E6_60 Start: 37670, Stop: 38008, Start Num: 24

Candidate Starts for E6_60:

(19, 37652), (Start: 24 @37670 has 50 MA's), (30, 37703), (37, 37778),

Gene: ELee24_24 Start: 16858, Stop: 17157, Start Num: 26

Candidate Starts for ELee24_24:

(13, 16756), (Start: 26 @16858 has 145 MA's), (39, 16987), (40, 16990), (47, 17053), (54, 17101), (55, 17110), (60, 17146),

Gene: EdElric_25 Start: 16989, Stop: 17288, Start Num: 26

Candidate Starts for EdElric_25:

(13, 16887), (Start: 26 @16989 has 145 MA's), (39, 17118), (40, 17121), (47, 17184), (54, 17232), (55, 17241), (60, 17277),

Gene: Efeke_27 Start: 16867, Stop: 17157, Start Num: 26

Candidate Starts for Efeke_27:

(Start: 26 @16867 has 145 MA's), (39, 16996), (40, 16999), (47, 17062), (54, 17110),

Gene: Eightball_25 Start: 17066, Stop: 17365, Start Num: 26

Candidate Starts for Eightball_25:

(13, 16964), (Start: 26 @17066 has 145 MA's), (39, 17195), (40, 17198), (47, 17261), (54, 17309), (55, 17318), (60, 17354),

Gene: Ekko14_26 Start: 16744, Stop: 17043, Start Num: 26

Candidate Starts for Ekko14_26:

(13, 16642), (Start: 26 @16744 has 145 MA's), (39, 16873), (40, 16876), (47, 16939), (54, 16987), (55, 16996), (60, 17032),

Gene: Elspeth_26 Start: 16744, Stop: 17043, Start Num: 26

Candidate Starts for Elspeth_26:

(13, 16642), (Start: 26 @16744 has 145 MA's), (39, 16873), (40, 16876), (47, 16939), (54, 16987), (55, 16996), (60, 17032),

Gene: Engineer_14 Start: 3268, Stop: 3576, Start Num: 22

Candidate Starts for Engineer_14:

(17, 3238), (Start: 22 @3268 has 25 MA's), (45, 3460), (56, 3532),

Gene: Enochoraptor_43 Start: 29132, Stop: 29437, Start Num: 23

Candidate Starts for Enochoraptor_43:

(Start: 23 @29132 has 4 MA's), (Start: 24 @29135 has 50 MA's), (57, 29423),

Gene: Enoki_45 Start: 28982, Stop: 29284, Start Num: 24

Candidate Starts for Enoki_45:

(Start: 24 @28982 has 50 MA's), (57, 29270),

Gene: Erin_25 Start: 16987, Stop: 17286, Start Num: 26

Candidate Starts for Erin_25:

(Start: 26 @16987 has 145 MA's), (39, 17116), (40, 17119), (47, 17182), (54, 17230), (55, 17239), (60, 17275),

Gene: FF47_64 Start: 46067, Stop: 46366, Start Num: 25

Candidate Starts for FF47_64:

(12, 45965), (Start: 25 @46067 has 1 MA's), (29, 46094), (35, 46145), (41, 46202), (53, 46298),

Gene: G4_69 Start: 38158, Stop: 38496, Start Num: 24

Candidate Starts for G4_69:

(19, 38140), (Start: 24 @38158 has 50 MA's), (30, 38191), (37, 38266),

Gene: Gabbspett_25 Start: 17109, Stop: 17408, Start Num: 26

Candidate Starts for Gabbspett_25:

(13, 17007), (Start: 26 @17109 has 145 MA's), (39, 17238), (40, 17241), (47, 17304), (54, 17352), (55, 17361), (60, 17397),

Gene: Gardevoir_25 Start: 17023, Stop: 17322, Start Num: 26

Candidate Starts for Gardevoir_25:

(Start: 26 @17023 has 145 MA's), (39, 17152), (40, 17155), (47, 17218), (54, 17266), (55, 17275), (60, 17311),

Gene: Geeche_13 Start: 3085, Stop: 3393, Start Num: 22

Candidate Starts for Geeche_13:

(17, 3055), (Start: 22 @3085 has 25 MA's), (56, 3349),

Gene: Gillker_25 Start: 16988, Stop: 17287, Start Num: 26

Candidate Starts for Gillker_25:

(13, 16886), (Start: 26 @16988 has 145 MA's), (39, 17117), (40, 17120), (47, 17183), (54, 17231), (55, 17240), (60, 17276),

Gene: Godfather_25 Start: 17079, Stop: 17378, Start Num: 26

Candidate Starts for Godfather_25:

(13, 16977), (Start: 26 @17079 has 145 MA's), (39, 17208), (40, 17211), (47, 17274), (54, 17322), (55, 17331), (60, 17367),

Gene: GoldenBlanche_25 Start: 16989, Stop: 17288, Start Num: 26

Candidate Starts for GoldenBlanche_25:

(Start: 26 @16989 has 145 MA's), (39, 17118), (40, 17121), (47, 17184), (54, 17232), (55, 17241), (60, 17277),

Gene: Goobery_25 Start: 17072, Stop: 17371, Start Num: 26

Candidate Starts for Goobery_25:

(Start: 26 @17072 has 145 MA's), (39, 17201), (40, 17204), (47, 17267), (54, 17315), (55, 17324), (60, 17360),

Gene: Goulash_25 Start: 16989, Stop: 17288, Start Num: 26

Candidate Starts for Goulash_25:

(Start: 26 @16989 has 145 MA's), (39, 17118), (40, 17121), (47, 17184), (54, 17232), (55, 17241), (60, 17277),

Gene: Grayscar_25 Start: 17080, Stop: 17379, Start Num: 26

Candidate Starts for Grayscar_25:

(13, 16978), (Start: 26 @17080 has 145 MA's), (39, 17209), (40, 17212), (47, 17275), (54, 17323), (55, 17332), (60, 17368),

Gene: HarperAnne_26 Start: 16743, Stop: 17042, Start Num: 26

Candidate Starts for HarperAnne_26:

(13, 16641), (Start: 26 @16743 has 145 MA's), (39, 16872), (40, 16875), (47, 16938), (54, 16986), (55, 16995), (60, 17031),

Gene: HeadMave_25 Start: 17075, Stop: 17374, Start Num: 26

Candidate Starts for HeadMave_25:

(13, 16973), (Start: 26 @17075 has 145 MA's), (39, 17204), (40, 17207), (47, 17270), (54, 17318), (55, 17327), (60, 17363),

Gene: Hernandez44_25 Start: 17104, Stop: 17403, Start Num: 26

Candidate Starts for Hernandez44_25:

(Start: 26 @17104 has 145 MA's), (39, 17233), (40, 17236), (47, 17299), (54, 17347), (55, 17356), (60, 17392),

Gene: Horacetta_25 Start: 16989, Stop: 17288, Start Num: 26

Candidate Starts for Horacetta_25:

(Start: 26 @16989 has 145 MA's), (39, 17118), (40, 17121), (47, 17184), (54, 17232), (55, 17241), (60, 17277),

Gene: Hulk_25 Start: 17022, Stop: 17321, Start Num: 26

Candidate Starts for Hulk_25:

(4, 16653), (7, 16662), (13, 16920), (Start: 26 @17022 has 145 MA's), (39, 17151), (40, 17154), (47, 17217), (54, 17265), (55, 17274), (60, 17310),

Gene: IzzyPants24_25 Start: 16598, Stop: 16897, Start Num: 26

Candidate Starts for IzzyPants24_25:

(13, 16496), (Start: 26 @16598 has 145 MA's), (39, 16727), (40, 16730), (47, 16793), (54, 16841), (55, 16850),

Gene: JRok_25 Start: 17009, Stop: 17308, Start Num: 26

Candidate Starts for JRok_25:

(1, 16535), (2, 16607), (13, 16907), (Start: 26 @17009 has 145 MA's), (39, 17138), (40, 17141), (47, 17204), (54, 17252), (55, 17261), (60, 17297),

Gene: Jahseh_25 Start: 16995, Stop: 17294, Start Num: 26

Candidate Starts for Jahseh_25:

(13, 16893), (Start: 26 @16995 has 145 MA's), (39, 17124), (40, 17127), (47, 17190), (54, 17238), (55, 17247), (60, 17283),

Gene: JaimeB_25 Start: 17072, Stop: 17371, Start Num: 26

Candidate Starts for JaimeB_25:

(Start: 26 @17072 has 145 MA's), (39, 17201), (40, 17204), (47, 17267), (54, 17315), (55, 17324), (60, 17360),

Gene: Jannah_25 Start: 17055, Stop: 17354, Start Num: 26

Candidate Starts for Jannah_25:

(Start: 26 @17055 has 145 MA's), (39, 17184), (40, 17187), (47, 17250), (54, 17298), (55, 17307), (60, 17343),

Gene: Jella_27 Start: 17090, Stop: 17389, Start Num: 26

Candidate Starts for Jella_27:

(Start: 26 @17090 has 145 MA's), (39, 17219), (40, 17222), (47, 17285), (54, 17333), (55, 17342), (60, 17378),

Gene: Jerky_25 Start: 17154, Stop: 17453, Start Num: 26

Candidate Starts for Jerky_25:

(13, 17052), (Start: 26 @17154 has 145 MA's), (39, 17283), (40, 17286), (47, 17349), (54, 17397), (55, 17406), (60, 17442),

Gene: JoBros_25 Start: 16990, Stop: 17289, Start Num: 26

Candidate Starts for JoBros_25:

(Start: 26 @16990 has 145 MA's), (39, 17119), (40, 17122), (47, 17185), (54, 17233), (55, 17242), (60, 17278),

Gene: JonJames_13 Start: 3969, Stop: 4277, Start Num: 22

Candidate Starts for JonJames_13:

(Start: 22 @3969 has 25 MA's), (42, 4143), (45, 4161), (50, 4182),

Gene: JooneeDee_25 Start: 17094, Stop: 17393, Start Num: 26

Candidate Starts for JooneeDee_25:

(13, 16992), (Start: 26 @17094 has 145 MA's), (39, 17223), (40, 17226), (47, 17289), (54, 17337), (55, 17346), (60, 17382),

Gene: Josuke_25 Start: 17080, Stop: 17379, Start Num: 26

Candidate Starts for Josuke_25:

(13, 16978), (Start: 26 @17080 has 145 MA's), (39, 17209), (40, 17212), (47, 17275), (54, 17323), (55, 17332), (60, 17368),

Gene: Kaijohn_25 Start: 17052, Stop: 17351, Start Num: 26

Candidate Starts for Kaijohn_25:

(13, 16950), (Start: 26 @17052 has 145 MA's), (39, 17181), (40, 17184), (47, 17247), (54, 17295), (55, 17304), (60, 17340),

Gene: KayPaulus_25 Start: 17082, Stop: 17381, Start Num: 26

Candidate Starts for KayPaulus_25:

(13, 16980), (Start: 26 @17082 has 145 MA's), (39, 17211), (40, 17214), (47, 17277), (54, 17325), (55, 17334), (60, 17370),

Gene: Keiki_45 Start: 28972, Stop: 29277, Start Num: 23

Candidate Starts for Keiki_45:

(Start: 23 @28972 has 4 MA's), (Start: 24 @28975 has 50 MA's), (36, 29071), (57, 29263),

Gene: Kevanna_25 Start: 17068, Stop: 17367, Start Num: 26

Candidate Starts for Kevanna_25:

(13, 16966), (Start: 26 @17068 has 145 MA's), (39, 17197), (40, 17200), (47, 17263), (54, 17311), (55, 17320), (60, 17356),

Gene: KillerTomato_25 Start: 17069, Stop: 17368, Start Num: 26

Candidate Starts for KillerTomato_25:

(13, 16967), (Start: 26 @17069 has 145 MA's), (39, 17198), (40, 17201), (47, 17264), (54, 17312), (55, 17321), (60, 17357),

Gene: Kojax4_25 Start: 17079, Stop: 17378, Start Num: 26

Candidate Starts for Kojax4_25:

(13, 16977), (Start: 26 @17079 has 145 MA's), (39, 17208), (40, 17211), (47, 17274), (54, 17322), (55, 17331), (60, 17367),

Gene: Kubed_44 Start: 29097, Stop: 29399, Start Num: 24

Candidate Starts for Kubed_44:

(Start: 24 @29097 has 50 MA's), (57, 29385),

Gene: KyriosFaba_25 Start: 16989, Stop: 17288, Start Num: 26

Candidate Starts for KyriosFaba_25:

(13, 16887), (Start: 26 @16989 has 145 MA's), (39, 17118), (40, 17121), (47, 17184), (54, 17232), (55, 17241), (60, 17277),

Gene: Lauchelly_45 Start: 29153, Stop: 29455, Start Num: 24

Candidate Starts for Lauchelly_45:

(Start: 24 @29153 has 50 MA's), (57, 29441),

Gene: LaviMo_25 Start: 17080, Stop: 17379, Start Num: 26

Candidate Starts for LaviMo_25:

(13, 16978), (Start: 26 @17080 has 145 MA's), (39, 17209), (40, 17212), (47, 17275), (54, 17323), (55, 17332), (60, 17368),

Gene: Leafy_25 Start: 17034, Stop: 17333, Start Num: 26

Candidate Starts for Leafy_25:

(13, 16932), (Start: 26 @17034 has 145 MA's), (39, 17163), (40, 17166), (47, 17229), (54, 17277), (55, 17286), (60, 17322),

Gene: LemonPepper_25 Start: 16989, Stop: 17288, Start Num: 26

Candidate Starts for LemonPepper_25:

(Start: 26 @16989 has 145 MA's), (39, 17118), (40, 17121), (47, 17184), (54, 17232), (55, 17241), (60, 17277),

Gene: Leviosa_44 Start: 29089, Stop: 29391, Start Num: 24
Candidate Starts for Leviosa_44:
(Start: 24 @29089 has 50 MA's),

Gene: LilBandit_45 Start: 28677, Stop: 28979, Start Num: 24
Candidate Starts for LilBandit_45:
(Start: 24 @28677 has 50 MA's), (57, 28965),

Gene: LionelHutz_25 Start: 17075, Stop: 17374, Start Num: 26
Candidate Starts for LionelHutz_25:
(13, 16973), (Start: 26 @17075 has 145 MA's), (39, 17204), (40, 17207), (47, 17270), (54, 17318), (55, 17327), (60, 17363),

Gene: Livingwater_25 Start: 17077, Stop: 17376, Start Num: 26
Candidate Starts for Livingwater_25:
(13, 16975), (Start: 26 @17077 has 145 MA's), (39, 17206), (40, 17209), (47, 17272), (54, 17320), (55, 17329), (60, 17365),

Gene: Loca_25 Start: 17102, Stop: 17401, Start Num: 26
Candidate Starts for Loca_25:
(13, 17000), (Start: 26 @17102 has 145 MA's), (39, 17231), (40, 17234), (47, 17297), (54, 17345), (55, 17354), (60, 17390),

Gene: Lola20_25 Start: 17015, Stop: 17314, Start Num: 26
Candidate Starts for Lola20_25:
(13, 16913), (Start: 26 @17015 has 145 MA's), (39, 17144), (40, 17147), (47, 17210), (54, 17258), (55, 17267), (60, 17303),

Gene: Lozinak_14 Start: 3268, Stop: 3576, Start Num: 22
Candidate Starts for Lozinak_14:
(17, 3238), (Start: 22 @3268 has 25 MA's), (45, 3460), (56, 3532),

Gene: Lunatic_25 Start: 16542, Stop: 16841, Start Num: 26
Candidate Starts for Lunatic_25:
(13, 16440), (Start: 26 @16542 has 145 MA's), (39, 16671), (40, 16674), (47, 16737), (54, 16785), (55, 16794),

Gene: Luxx_25 Start: 17090, Stop: 17389, Start Num: 26
Candidate Starts for Luxx_25:
(Start: 26 @17090 has 145 MA's), (39, 17219), (40, 17222), (47, 17285), (54, 17333), (55, 17342), (60, 17378),

Gene: MEAK_44 Start: 28859, Stop: 29161, Start Num: 24
Candidate Starts for MEAK_44:
(Start: 23 @28856 has 4 MA's), (Start: 24 @28859 has 50 MA's),

Gene: Maco6_63 Start: 45489, Stop: 45788, Start Num: 25
Candidate Starts for Maco6_63:
(Start: 25 @45489 has 1 MA's), (29, 45516), (35, 45567), (41, 45624), (53, 45720),

Gene: Madebyisha_25 Start: 17154, Stop: 17453, Start Num: 26

Candidate Starts for Madebyisha_25:

(13, 17052), (Start: 26 @17154 has 145 MA's), (39, 17283), (40, 17286), (47, 17349), (54, 17397), (55, 17406), (60, 17442),

Gene: Majesty_25 Start: 17071, Stop: 17370, Start Num: 26

Candidate Starts for Majesty_25:

(Start: 26 @17071 has 145 MA's), (39, 17200), (40, 17203), (47, 17266), (54, 17314), (55, 17323), (60, 17359),

Gene: ManAs_25 Start: 16989, Stop: 17288, Start Num: 26

Candidate Starts for ManAs_25:

(Start: 26 @16989 has 145 MA's), (39, 17118), (40, 17121), (47, 17184), (54, 17232), (55, 17241), (60, 17277),

Gene: Maneater_25 Start: 17054, Stop: 17353, Start Num: 26

Candidate Starts for Maneater_25:

(13, 16952), (Start: 26 @17054 has 145 MA's), (39, 17183), (40, 17186), (47, 17249), (54, 17297), (55, 17306), (60, 17342),

Gene: Marichuy_26 Start: 17105, Stop: 17404, Start Num: 26

Candidate Starts for Marichuy_26:

(13, 17003), (Start: 26 @17105 has 145 MA's), (39, 17234), (40, 17237), (47, 17300), (54, 17348), (55, 17357),

Gene: MasterPitts_25 Start: 17012, Stop: 17311, Start Num: 26

Candidate Starts for MasterPitts_25:

(13, 16910), (Start: 26 @17012 has 145 MA's), (39, 17141), (40, 17144), (47, 17207), (54, 17255), (55, 17264),

Gene: Mauilvory_24 Start: 16465, Stop: 16764, Start Num: 26

Candidate Starts for Mauilvory_24:

(13, 16363), (Start: 26 @16465 has 145 MA's), (39, 16594), (40, 16597), (47, 16660), (54, 16708), (55, 16717),

Gene: McShie_25 Start: 17061, Stop: 17360, Start Num: 26

Candidate Starts for McShie_25:

(1, 16587), (2, 16659), (13, 16959), (Start: 26 @17061 has 145 MA's), (39, 17190), (40, 17193), (47, 17256), (54, 17304), (55, 17313), (60, 17349),

Gene: MelBee03_25 Start: 17068, Stop: 17367, Start Num: 26

Candidate Starts for MelBee03_25:

(13, 16966), (Start: 26 @17068 has 145 MA's), (39, 17197), (40, 17200), (47, 17263), (54, 17311), (55, 17320), (60, 17356),

Gene: Miaurora_25 Start: 16659, Stop: 16958, Start Num: 26

Candidate Starts for Miaurora_25:

(13, 16557), (Start: 26 @16659 has 145 MA's), (39, 16788), (40, 16791), (47, 16854), (54, 16902), (55, 16911),

Gene: Minima_25 Start: 16989, Stop: 17288, Start Num: 26

Candidate Starts for Minima_25:

(Start: 26 @16989 has 145 MA's), (39, 17118), (40, 17121), (47, 17184), (54, 17232), (55, 17241), (60, 17277),

Gene: MirimarMandM_25 Start: 17137, Stop: 17436, Start Num: 26

Candidate Starts for MirimarMandM_25:

(13, 17035), (Start: 26 @17137 has 145 MA's), (39, 17266), (40, 17269), (47, 17332), (54, 17380), (55, 17389), (60, 17425),

Gene: Miskis_12 Start: 3268, Stop: 3576, Start Num: 22

Candidate Starts for Miskis_12:

(17, 3238), (Start: 22 @3268 has 25 MA's), (45, 3460), (56, 3532),

Gene: Mollymur_10 Start: 5419, Stop: 5724, Start Num: 22

Candidate Starts for Mollymur_10:

(Start: 22 @5419 has 25 MA's), (42, 5590), (61, 5719),

Gene: Moyashi_44 Start: 28889, Stop: 29191, Start Num: 24

Candidate Starts for Moyashi_44:

(Start: 24 @28889 has 50 MA's),

Gene: MrAK_46 Start: 29362, Stop: 29664, Start Num: 24

Candidate Starts for MrAK_46:

(Start: 24 @29362 has 50 MA's),

Gene: MrGreen_25 Start: 17048, Stop: 17347, Start Num: 26

Candidate Starts for MrGreen_25:

(13, 16946), (Start: 26 @17048 has 145 MA's), (39, 17177), (40, 17180), (47, 17243), (54, 17291), (55, 17300), (60, 17336),

Gene: MrSmee_79 Start: 40738, Stop: 41043, Start Num: 24

Candidate Starts for MrSmee_79:

(Start: 24 @40738 has 50 MA's), (35, 40819), (37, 40846), (51, 40978), (52, 40981), (58, 41020),

Gene: Myram_25 Start: 16989, Stop: 17288, Start Num: 26

Candidate Starts for Myram_25:

(Start: 26 @16989 has 145 MA's), (39, 17118), (40, 17121), (47, 17184), (54, 17232), (55, 17241), (60, 17277),

Gene: Naby_26 Start: 17079, Stop: 17381, Start Num: 26

Candidate Starts for Naby_26:

(5, 16722), (13, 16980), (Start: 26 @17079 has 145 MA's), (39, 17208), (47, 17274), (54, 17322), (55, 17331),

Gene: Namsahir_27 Start: 16803, Stop: 17102, Start Num: 26

Candidate Starts for Namsahir_27:

(13, 16701), (Start: 26 @16803 has 145 MA's), (39, 16932), (40, 16935), (47, 16998), (54, 17046), (55, 17055),

Gene: NeumannU_25 Start: 17072, Stop: 17371, Start Num: 26

Candidate Starts for NeumannU_25:

(Start: 26 @17072 has 145 MA's), (39, 17201), (40, 17204), (47, 17267), (54, 17315), (55, 17324), (60, 17360),

Gene: Niffler_25 Start: 16650, Stop: 16949, Start Num: 26

Candidate Starts for Niffler_25:

(13, 16548), (Start: 26 @16650 has 145 MA's), (39, 16779), (40, 16782), (47, 16845), (54, 16893), (55, 16902),

Gene: Nobel_25 Start: 16676, Stop: 16975, Start Num: 26

Candidate Starts for Nobel_25:

(13, 16574), (Start: 26 @16676 has 145 MA's), (39, 16805), (40, 16808), (47, 16871), (54, 16919), (55, 16928),

Gene: Noelani_25 Start: 16975, Stop: 17274, Start Num: 26

Candidate Starts for Noelani_25:

(8, 16711), (13, 16873), (14, 16897), (Start: 26 @16975 has 145 MA's), (40, 17107), (47, 17170), (54, 17218), (55, 17227), (60, 17263),

Gene: Norvs_14 Start: 3268, Stop: 3576, Start Num: 22

Candidate Starts for Norvs_14:

(17, 3238), (Start: 22 @3268 has 25 MA's), (45, 3460), (56, 3532),

Gene: Oaklynn_25 Start: 17012, Stop: 17311, Start Num: 26

Candidate Starts for Oaklynn_25:

(3, 16631), (6, 16640), (13, 16910), (Start: 26 @17012 has 145 MA's), (39, 17141), (40, 17144), (47, 17207), (54, 17255), (55, 17264), (60, 17300),

Gene: Octopus_25 Start: 16995, Stop: 17294, Start Num: 26

Candidate Starts for Octopus_25:

(Start: 26 @16995 has 145 MA's), (39, 17124), (40, 17127), (47, 17190), (54, 17238), (55, 17247), (60, 17283),

Gene: OdetoJoy_25 Start: 17154, Stop: 17453, Start Num: 26

Candidate Starts for OdetoJoy_25:

(13, 17052), (Start: 26 @17154 has 145 MA's), (39, 17283), (40, 17286), (47, 17349), (54, 17397), (55, 17406), (60, 17442),

Gene: OneUp_9 Start: 2116, Stop: 2424, Start Num: 22

Candidate Starts for OneUp_9:

(15, 2056), (Start: 22 @2116 has 25 MA's), (42, 2290), (49, 2326),

Gene: Otwor_25 Start: 17081, Stop: 17380, Start Num: 26

Candidate Starts for Otwor_25:

(13, 16979), (Start: 26 @17081 has 145 MA's), (39, 17210), (40, 17213), (47, 17276), (54, 17324), (55, 17333), (60, 17369),

Gene: Ouroboros_45 Start: 29142, Stop: 29444, Start Num: 24

Candidate Starts for Ouroboros_45:

(Start: 24 @29142 has 50 MA's), (36, 29238), (57, 29430),

Gene: Owens_25 Start: 17072, Stop: 17371, Start Num: 26

Candidate Starts for Owens_25:

(Start: 26 @17072 has 145 MA's), (39, 17201), (40, 17204), (47, 17267), (54, 17315), (55, 17324), (60, 17360),

Gene: P1.1_45 Start: 28981, Stop: 29286, Start Num: 23

Candidate Starts for P1.1_45:
(20, 28969), (Start: 23 @28981 has 4 MA's), (Start: 24 @28984 has 50 MA's), (57, 29272),

Gene: P100.1_47 Start: 29248, Stop: 29550, Start Num: 24
Candidate Starts for P100.1_47:
(21, 29236), (Start: 24 @29248 has 50 MA's), (57, 29536),

Gene: P100A_45 Start: 29140, Stop: 29442, Start Num: 24
Candidate Starts for P100A_45:
(Start: 24 @29140 has 50 MA's), (57, 29428),

Gene: P100D_47 Start: 29142, Stop: 29444, Start Num: 24
Candidate Starts for P100D_47:
(Start: 24 @29142 has 50 MA's), (57, 29430),

Gene: P101A_47 Start: 29210, Stop: 29512, Start Num: 24
Candidate Starts for P101A_47:
(Start: 24 @29210 has 50 MA's),

Gene: P104A_45 Start: 29007, Stop: 29309, Start Num: 24
Candidate Starts for P104A_45:
(Start: 24 @29007 has 50 MA's), (57, 29295),

Gene: P104B_44 Start: 28966, Stop: 29268, Start Num: 24
Candidate Starts for P104B_44:
(Start: 24 @28966 has 50 MA's), (57, 29254),

Gene: P105_45 Start: 28838, Stop: 29140, Start Num: 24
Candidate Starts for P105_45:
(Start: 23 @28835 has 4 MA's), (Start: 24 @28838 has 50 MA's),

Gene: P106A_45 Start: 29190, Stop: 29492, Start Num: 24
Candidate Starts for P106A_45:
(21, 29178), (Start: 24 @29190 has 50 MA's), (57, 29478),

Gene: P106C_46 Start: 29277, Stop: 29579, Start Num: 24
Candidate Starts for P106C_46:
(21, 29265), (Start: 24 @29277 has 50 MA's), (57, 29565),

Gene: P106I_46 Start: 29106, Stop: 29408, Start Num: 24
Candidate Starts for P106I_46:
(21, 29094), (Start: 24 @29106 has 50 MA's), (57, 29394),

Gene: P106L_45 Start: 29277, Stop: 29579, Start Num: 24
Candidate Starts for P106L_45:
(21, 29265), (Start: 24 @29277 has 50 MA's), (57, 29565),

Gene: P106M_45 Start: 29277, Stop: 29579, Start Num: 24
Candidate Starts for P106M_45:
(21, 29265), (Start: 24 @29277 has 50 MA's), (57, 29565),

Gene: P107A_45 Start: 29101, Stop: 29403, Start Num: 24
Candidate Starts for P107A_45:

(Start: 24 @29101 has 50 MA's), (36, 29197),

Gene: P107C_44 Start: 29152, Stop: 29454, Start Num: 24

Candidate Starts for P107C_44:

(19, 29134), (Start: 24 @29152 has 50 MA's),

Gene: P108C_44 Start: 29130, Stop: 29432, Start Num: 24

Candidate Starts for P108C_44:

(Start: 23 @29127 has 4 MA's), (Start: 24 @29130 has 50 MA's),

Gene: P14.4_47 Start: 29362, Stop: 29667, Start Num: 23

Candidate Starts for P14.4_47:

(Start: 23 @29362 has 4 MA's), (Start: 24 @29365 has 50 MA's), (57, 29653),

Gene: P9.1_45 Start: 28850, Stop: 29152, Start Num: 24

Candidate Starts for P9.1_45:

(21, 28838), (Start: 23 @28847 has 4 MA's), (Start: 24 @28850 has 50 MA's), (57, 29138),

Gene: PA6_48 Start: 29388, Stop: 29690, Start Num: 24

Candidate Starts for PA6_48:

(19, 29370), (Start: 24 @29388 has 50 MA's), (57, 29676),

Gene: PAD20_48 Start: 28723, Stop: 29025, Start Num: 24

Candidate Starts for PAD20_48:

(Start: 24 @28723 has 50 MA's), (57, 29011),

Gene: PAS50_48 Start: 28663, Stop: 28968, Start Num: 23

Candidate Starts for PAS50_48:

(21, 28654), (Start: 23 @28663 has 4 MA's), (Start: 24 @28666 has 50 MA's), (57, 28954),

Gene: PHL010M04_45 Start: 29157, Stop: 29459, Start Num: 24

Candidate Starts for PHL010M04_45:

(Start: 24 @29157 has 50 MA's),

Gene: PHL037M02_45 Start: 29090, Stop: 29392, Start Num: 24

Candidate Starts for PHL037M02_45:

(Start: 24 @29090 has 50 MA's), (36, 29186), (57, 29378),

Gene: PHL060L00_46 Start: 29161, Stop: 29463, Start Num: 24

Candidate Starts for PHL060L00_46:

(Start: 24 @29161 has 50 MA's),

Gene: PHL067M10_45 Start: 29024, Stop: 29326, Start Num: 24

Candidate Starts for PHL067M10_45:

(Start: 24 @29024 has 50 MA's), (57, 29312),

Gene: PHL071N05_45 Start: 29114, Stop: 29416, Start Num: 24

Candidate Starts for PHL071N05_45:

(Start: 23 @29111 has 4 MA's), (Start: 24 @29114 has 50 MA's), (57, 29402),

Gene: PHL111M01_45 Start: 28787, Stop: 29089, Start Num: 24

Candidate Starts for PHL111M01_45:

(Start: 23 @28784 has 4 MA's), (Start: 24 @28787 has 50 MA's), (57, 29075),

Gene: PHL112N00_46 Start: 28913, Stop: 29215, Start Num: 24
Candidate Starts for PHL112N00_46:
(Start: 24 @28913 has 50 MA's),

Gene: PHL113M01_44 Start: 28844, Stop: 29149, Start Num: 23
Candidate Starts for PHL113M01_44:
(Start: 23 @28844 has 4 MA's), (Start: 24 @28847 has 50 MA's), (57, 29135),

Gene: PHL114L00_46 Start: 29111, Stop: 29413, Start Num: 24
Candidate Starts for PHL114L00_46:
(Start: 24 @29111 has 50 MA's),

Gene: PaoPu_25 Start: 16989, Stop: 17288, Start Num: 26
Candidate Starts for PaoPu_25:
(Start: 26 @16989 has 145 MA's), (39, 17118), (40, 17121), (47, 17184), (54, 17232), (55, 17241), (60, 17277),

Gene: PhinkBoden_15 Start: 3766, Stop: 4074, Start Num: 22
Candidate Starts for PhinkBoden_15:
(17, 3736), (Start: 22 @3766 has 25 MA's), (56, 4030),

Gene: Picconator_25 Start: 17072, Stop: 17371, Start Num: 26
Candidate Starts for Picconator_25:
(Start: 26 @17072 has 145 MA's), (39, 17201), (40, 17204), (47, 17267), (54, 17315), (55, 17324), (60, 17360),

Gene: Picnic_25 Start: 16989, Stop: 17288, Start Num: 26
Candidate Starts for Picnic_25:
(Start: 26 @16989 has 145 MA's), (39, 17118), (40, 17121), (47, 17184), (54, 17232), (55, 17241), (60, 17277),

Gene: Pirate_44 Start: 28960, Stop: 29262, Start Num: 24
Candidate Starts for Pirate_44:
(Start: 23 @28957 has 4 MA's), (Start: 24 @28960 has 50 MA's), (36, 29056), (57, 29248),

Gene: PoRanda_25 Start: 17137, Stop: 17436, Start Num: 26
Candidate Starts for PoRanda_25:
(13, 17035), (Start: 26 @17137 has 145 MA's), (39, 17266), (40, 17269), (47, 17332), (54, 17380), (55, 17389), (60, 17425),

Gene: Pondwater_25 Start: 16989, Stop: 17288, Start Num: 26
Candidate Starts for Pondwater_25:
(Start: 26 @16989 has 145 MA's), (39, 17118), (40, 17121), (47, 17184), (54, 17232), (55, 17241), (60, 17277),

Gene: Procrass1_45 Start: 28983, Stop: 29285, Start Num: 24
Candidate Starts for Procrass1_45:
(Start: 24 @28983 has 50 MA's), (57, 29271),

Gene: Publix_26 Start: 16803, Stop: 17102, Start Num: 26
Candidate Starts for Publix_26:

(13, 16701), (Start: 26 @16803 has 145 MA's), (39, 16932), (40, 16935), (47, 16998), (54, 17046), (55, 17055),

Gene: Puddles3_25 Start: 16989, Stop: 17288, Start Num: 26

Candidate Starts for Puddles3_25:

(Start: 26 @16989 has 145 MA's), (39, 17118), (40, 17121), (47, 17184), (54, 17232), (55, 17241), (60, 17277),

Gene: PuffyCat_25 Start: 16593, Stop: 16892, Start Num: 26

Candidate Starts for PuffyCat_25:

(13, 16491), (Start: 26 @16593 has 145 MA's), (39, 16722), (40, 16725), (47, 16788), (54, 16836), (55, 16845),

Gene: Quaker_25 Start: 17077, Stop: 17376, Start Num: 26

Candidate Starts for Quaker_25:

(13, 16975), (Start: 26 @17077 has 145 MA's), (39, 17206), (40, 17209), (47, 17272), (54, 17320), (55, 17329), (60, 17365),

Gene: QueenBey_43 Start: 28974, Stop: 29276, Start Num: 24

Candidate Starts for QueenBey_43:

(Start: 23 @28971 has 4 MA's), (Start: 24 @28974 has 50 MA's), (57, 29262),

Gene: Raqqa_101 Start: 53739, Stop: 54044, Start Num: 24

Candidate Starts for Raqqa_101:

(Start: 24 @53739 has 50 MA's), (52, 53982),

Gene: Rhogar_25 Start: 17075, Stop: 17374, Start Num: 26

Candidate Starts for Rhogar_25:

(13, 16973), (Start: 26 @17075 has 145 MA's), (39, 17204), (40, 17207), (47, 17270), (54, 17318), (55, 17327), (60, 17363),

Gene: Rhysand_25 Start: 17080, Stop: 17379, Start Num: 26

Candidate Starts for Rhysand_25:

(13, 16978), (Start: 26 @17080 has 145 MA's), (39, 17209), (40, 17212), (47, 17275), (54, 17323), (55, 17332), (60, 17368),

Gene: Rileysaurus_43 Start: 29070, Stop: 29372, Start Num: 24

Candidate Starts for Rileysaurus_43:

(Start: 24 @29070 has 50 MA's),

Gene: Rira_25 Start: 16598, Stop: 16897, Start Num: 26

Candidate Starts for Rira_25:

(13, 16496), (Start: 26 @16598 has 145 MA's), (39, 16727), (40, 16730), (47, 16793), (54, 16841), (55, 16850),

Gene: RoscoWindex_25 Start: 17080, Stop: 17379, Start Num: 26

Candidate Starts for RoscoWindex_25:

(13, 16978), (Start: 26 @17080 has 145 MA's), (39, 17209), (40, 17212), (47, 17275), (54, 17323), (55, 17332), (60, 17368),

Gene: SKKY_47 Start: 29230, Stop: 29532, Start Num: 24

Candidate Starts for SKKY_47:

(20, 29215), (Start: 23 @29227 has 4 MA's), (Start: 24 @29230 has 50 MA's),

Gene: Sachet_25 Start: 16989, Stop: 17288, Start Num: 26

Candidate Starts for Sachet_25:

(Start: 26 @16989 has 145 MA's), (39, 17118), (40, 17121), (47, 17184), (54, 17232), (55, 17241), (60, 17277),

Gene: Sage7_25 Start: 17079, Stop: 17378, Start Num: 26

Candidate Starts for Sage7_25:

(13, 16977), (Start: 26 @17079 has 145 MA's), (39, 17208), (40, 17211), (47, 17274), (54, 17322), (55, 17331), (60, 17367),

Gene: SantasSleigh_25 Start: 17103, Stop: 17402, Start Num: 26

Candidate Starts for SantasSleigh_25:

(13, 17001), (Start: 26 @17103 has 145 MA's), (39, 17232), (40, 17235), (47, 17298), (54, 17346), (55, 17355), (60, 17391),

Gene: Sara_25 Start: 16989, Stop: 17288, Start Num: 26

Candidate Starts for Sara_25:

(Start: 26 @16989 has 145 MA's), (39, 17118), (40, 17121), (47, 17184), (54, 17232), (55, 17241), (60, 17277),

Gene: Scamander_25 Start: 17079, Stop: 17378, Start Num: 26

Candidate Starts for Scamander_25:

(13, 16977), (Start: 26 @17079 has 145 MA's), (39, 17208), (40, 17211), (47, 17274), (54, 17322), (55, 17331), (60, 17367),

Gene: Scrunchy_25 Start: 17072, Stop: 17371, Start Num: 26

Candidate Starts for Scrunchy_25:

(Start: 26 @17072 has 145 MA's), (39, 17201), (40, 17204), (47, 17267), (54, 17315), (55, 17324), (60, 17360),

Gene: SeaWolves_25 Start: 16989, Stop: 17288, Start Num: 26

Candidate Starts for SeaWolves_25:

(Start: 26 @16989 has 145 MA's), (39, 17118), (40, 17121), (47, 17184), (54, 17232), (55, 17241), (60, 17277),

Gene: Sippinontea_25 Start: 17100, Stop: 17399, Start Num: 26

Candidate Starts for Sippinontea_25:

(13, 16998), (Start: 26 @17100 has 145 MA's), (39, 17229), (40, 17232), (47, 17295), (54, 17343), (55, 17352), (60, 17388),

Gene: Skitty_72 Start: 38994, Stop: 39299, Start Num: 24

Candidate Starts for Skitty_72:

(Start: 24 @38994 has 50 MA's), (35, 39075), (37, 39102), (51, 39234), (52, 39237), (58, 39276),

Gene: Slentz_25 Start: 17072, Stop: 17371, Start Num: 26

Candidate Starts for Slentz_25:

(Start: 26 @17072 has 145 MA's), (39, 17201), (40, 17204), (47, 17267), (54, 17315), (55, 17324), (60, 17360),

Gene: Slizam_25 Start: 16598, Stop: 16897, Start Num: 26

Candidate Starts for Slizam_25:

(13, 16496), (Start: 26 @16598 has 145 MA's), (39, 16727), (40, 16730), (47, 16793), (54, 16841), (55, 16850),

Gene: Smoothie_14 Start: 3268, Stop: 3576, Start Num: 22

Candidate Starts for Smoothie_14:

(17, 3238), (Start: 22 @3268 has 25 MA's), (45, 3460), (56, 3532),

Gene: Snuffles_27 Start: 16951, Stop: 17250, Start Num: 26

Candidate Starts for Snuffles_27:

(13, 16849), (Start: 26 @16951 has 145 MA's), (39, 17080), (40, 17083), (47, 17146), (54, 17194), (55, 17203),

Gene: Solid_45 Start: 29077, Stop: 29379, Start Num: 24

Candidate Starts for Solid_45:

(Start: 23 @29074 has 4 MA's), (Start: 24 @29077 has 50 MA's), (57, 29365),

Gene: Spartoi_56 Start: 34706, Stop: 35032, Start Num: 24

Candidate Starts for Spartoi_56:

(Start: 24 @34706 has 50 MA's),

Gene: SpeedDemon_90 Start: 4494, Stop: 4802, Start Num: 22

Candidate Starts for SpeedDemon_90:

(Start: 22 @4494 has 25 MA's), (34, 4566), (38, 4632),

Gene: Stem_25 Start: 16608, Stop: 16907, Start Num: 26

Candidate Starts for Stem_25:

(13, 16506), (Start: 26 @16608 has 145 MA's), (39, 16737), (40, 16740), (47, 16803), (54, 16851), (55, 16860),

Gene: Stormborn_46 Start: 28966, Stop: 29268, Start Num: 24

Candidate Starts for Stormborn_46:

(Start: 23 @28963 has 4 MA's), (Start: 24 @28966 has 50 MA's), (57, 29254),

Gene: Supernova_45 Start: 28853, Stop: 29155, Start Num: 24

Candidate Starts for Supernova_45:

(Start: 23 @28850 has 4 MA's), (Start: 24 @28853 has 50 MA's), (57, 29141),

Gene: TeddyBoy_25 Start: 17076, Stop: 17375, Start Num: 26

Candidate Starts for TeddyBoy_25:

(13, 16974), (Start: 26 @17076 has 145 MA's), (39, 17205), (40, 17208), (47, 17271), (54, 17319), (55, 17328), (60, 17364),

Gene: TimoTea_25 Start: 17054, Stop: 17353, Start Num: 26

Candidate Starts for TimoTea_25:

(13, 16952), (Start: 26 @17054 has 145 MA's), (39, 17183), (40, 17186), (47, 17249), (54, 17297), (55, 17306), (60, 17342),

Gene: TinyTruffula_25 Start: 16677, Stop: 16976, Start Num: 26

Candidate Starts for TinyTruffula_25:

(13, 16575), (Start: 26 @16677 has 145 MA's), (39, 16806), (40, 16809), (47, 16872), (54, 16920), (55, 16929),

Gene: TlaliMex_27 Start: 17164, Stop: 17463, Start Num: 26

Candidate Starts for TlaliMex_27:

(13, 17062), (Start: 26 @17164 has 145 MA's), (39, 17293), (40, 17296), (47, 17359), (54, 17407), (55, 17416), (60, 17452),

Gene: TomBrady12_26 Start: 16780, Stop: 17079, Start Num: 26

Candidate Starts for TomBrady12_26:

(13, 16678), (Start: 26 @16780 has 145 MA's), (39, 16909), (40, 16912), (47, 16975), (54, 17023), (55, 17032),

Gene: Toniann_14 Start: 3268, Stop: 3576, Start Num: 22

Candidate Starts for Toniann_14:

(17, 3238), (Start: 22 @3268 has 25 MA's), (45, 3460), (56, 3532),

Gene: Towmatter_9 Start: 2870, Stop: 3172, Start Num: 22

Candidate Starts for Towmatter_9:

(Start: 22 @2870 has 25 MA's), (31, 2927), (32, 2930), (33, 2933), (42, 3038),

Gene: Trackstar_25 Start: 16660, Stop: 16959, Start Num: 26

Candidate Starts for Trackstar_25:

(13, 16558), (Start: 26 @16660 has 145 MA's), (39, 16789), (40, 16792), (47, 16855), (54, 16903), (55, 16912),

Gene: Trireme_25 Start: 16657, Stop: 16956, Start Num: 26

Candidate Starts for Trireme_25:

(13, 16555), (Start: 26 @16657 has 145 MA's), (39, 16786), (40, 16789), (47, 16852), (54, 16900), (55, 16909),

Gene: Tyrellus_25 Start: 17072, Stop: 17371, Start Num: 26

Candidate Starts for Tyrellus_25:

(Start: 26 @17072 has 145 MA's), (39, 17201), (40, 17204), (47, 17267), (54, 17315), (55, 17324), (60, 17360),

Gene: Upsilon_25 Start: 17137, Stop: 17436, Start Num: 26

Candidate Starts for Upsilon_25:

(13, 17035), (Start: 26 @17137 has 145 MA's), (39, 17266), (40, 17269), (47, 17332), (54, 17380), (55, 17389), (60, 17425),

Gene: Vanisius_25 Start: 17080, Stop: 17379, Start Num: 26

Candidate Starts for Vanisius_25:

(13, 16978), (Start: 26 @17080 has 145 MA's), (39, 17209), (40, 17212), (47, 17275), (54, 17323), (55, 17332), (60, 17368),

Gene: VitulaEligans_25 Start: 17161, Stop: 17460, Start Num: 26

Candidate Starts for VitulaEligans_25:

(13, 17059), (Start: 26 @17161 has 145 MA's), (39, 17290), (40, 17293), (47, 17356), (54, 17404), (55, 17413), (60, 17449),

Gene: WilliamBoone_12 Start: 2893, Stop: 3201, Start Num: 22

Candidate Starts for WilliamBoone_12:

(17, 2863), (Start: 22 @2893 has 25 MA's), (56, 3157),

Gene: Witch_25 Start: 16990, Stop: 17289, Start Num: 26

Candidate Starts for Witch_25:

(Start: 26 @16990 has 145 MA's), (39, 17119), (40, 17122), (47, 17185), (54, 17233), (55, 17242), (60, 17278),

Gene: Wizzo_44 Start: 29099, Stop: 29401, Start Num: 24

Candidate Starts for Wizzo_44:

(Start: 23 @29096 has 4 MA's), (Start: 24 @29099 has 50 MA's), (57, 29387),

Gene: Wolfpack_25 Start: 17082, Stop: 17381, Start Num: 26

Candidate Starts for Wolfpack_25:

(13, 16980), (Start: 26 @17082 has 145 MA's), (39, 17211), (40, 17214), (47, 17277), (54, 17325), (55, 17334), (60, 17370),

Gene: Yami_25 Start: 16551, Stop: 16850, Start Num: 26

Candidate Starts for Yami_25:

(13, 16449), (Start: 26 @16551 has 145 MA's), (39, 16680), (40, 16683), (47, 16746), (54, 16794), (55, 16803),

Gene: Yasuo_25 Start: 17060, Stop: 17359, Start Num: 26

Candidate Starts for Yasuo_25:

(13, 16958), (Start: 26 @17060 has 145 MA's), (39, 17189), (40, 17192), (47, 17255), (54, 17303), (55, 17312), (60, 17348),

Gene: YertPhresh_25 Start: 16989, Stop: 17288, Start Num: 26

Candidate Starts for YertPhresh_25:

(Start: 26 @16989 has 145 MA's), (39, 17118), (40, 17121), (47, 17184), (54, 17232), (55, 17241), (60, 17277),

Gene: Yubaba_25 Start: 17023, Stop: 17322, Start Num: 26

Candidate Starts for Yubaba_25:

(Start: 26 @17023 has 145 MA's), (39, 17152), (40, 17155), (47, 17218), (54, 17266), (55, 17275), (60, 17311),

Gene: Yvonnetastic_14 Start: 3602, Stop: 3910, Start Num: 22

Candidate Starts for Yvonnetastic_14:

(Start: 22 @3602 has 25 MA's), (42, 3776), (45, 3794), (50, 3815), (59, 3902),

Gene: Zahlia_25 Start: 17108, Stop: 17407, Start Num: 26

Candidate Starts for Zahlia_25:

(13, 17006), (Start: 26 @17108 has 145 MA's), (39, 17237), (40, 17240), (47, 17303), (54, 17351), (55, 17360), (60, 17396),

Gene: Zucker_98 Start: 53075, Stop: 53380, Start Num: 24

Candidate Starts for Zucker_98:

(Start: 24 @53075 has 50 MA's), (44, 53264), (48, 53279),