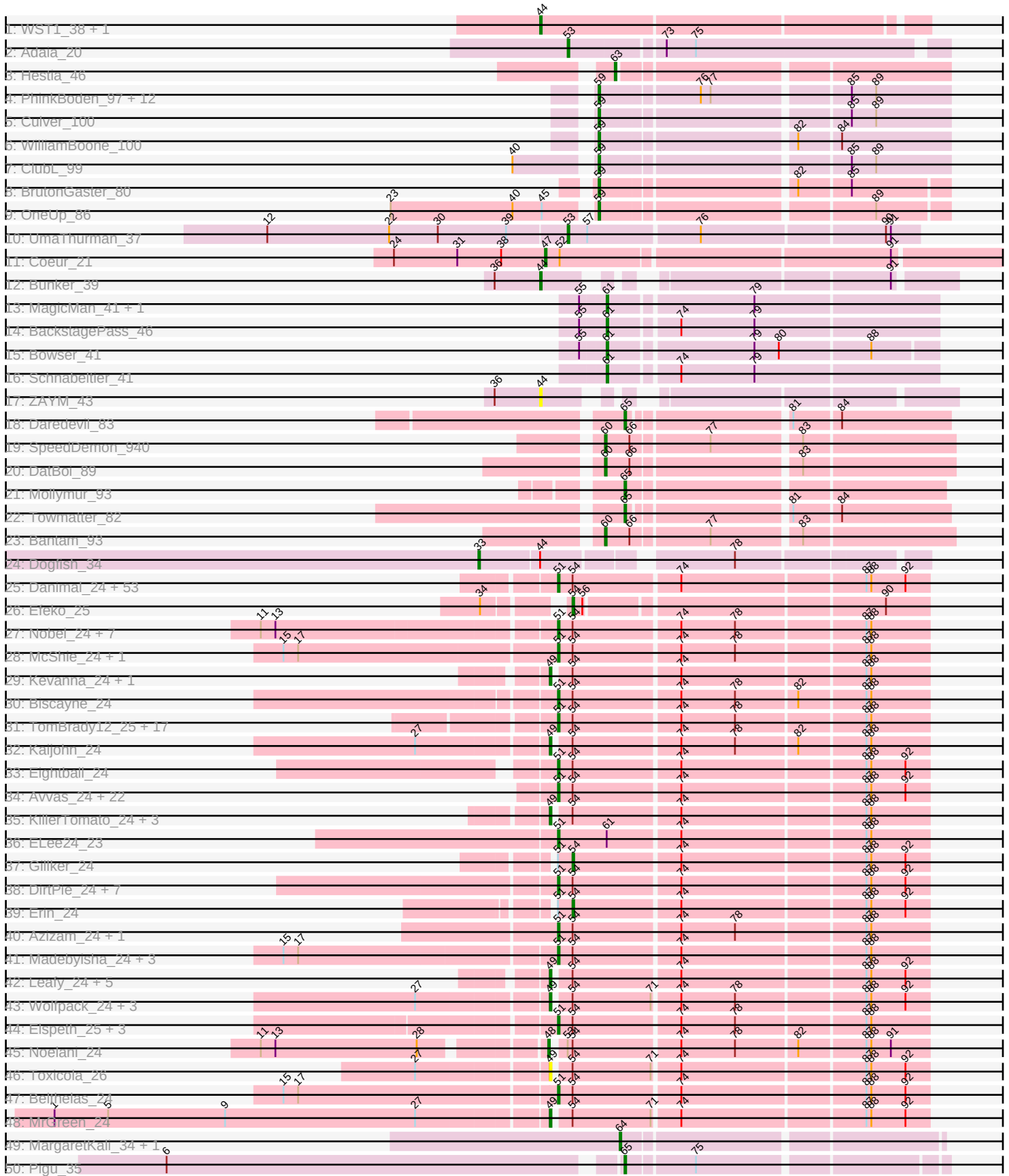
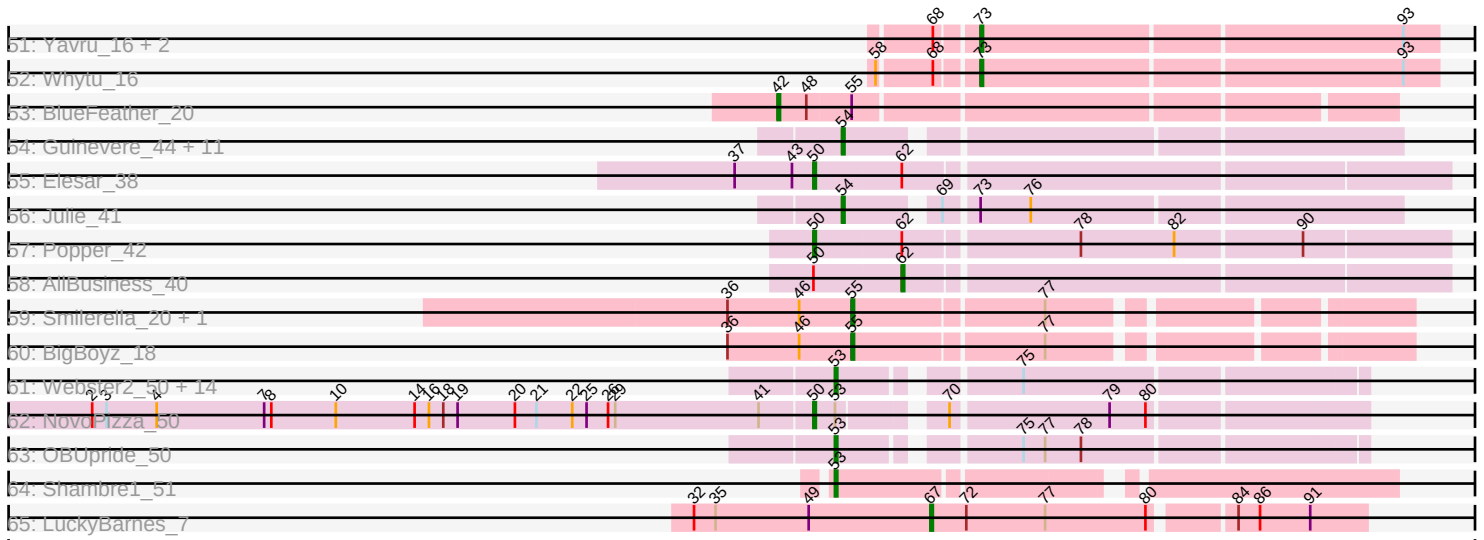


Pham 330463



Pham 330463



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 330463 Report

This analysis was run 09/05/26 on database version 662.

Pham number 330463 has 234 members, 11 are drafts.

Phages represented in each track:

- Track 1 : WST1_38, IdentityCrisis_37
- Track 2 : Adaia_20
- Track 3 : Hestia_46
- Track 4 : PhinkBoden_97, Norvs_100, Dusty_96, Cucurbita_99, Abscondus_97, Smoothie_99, Aphelion_99, Geeche_97, Engineer_99, Lozinak_98, Toniann_100, Miskis_92, Bachita_100
- Track 5 : Culver_100
- Track 6 : WilliamBoone_100
- Track 7 : ClubL_99
- Track 8 : BrutonGaster_80
- Track 9 : OneUp_86
- Track 10 : UmaThurman_37
- Track 11 : Coeur_21
- Track 12 : Bunker_39
- Track 13 : MagicMan_41, Eyes_39
- Track 14 : BackstagePass_46
- Track 15 : Bowser_41
- Track 16 : Schnabeltier_41
- Track 17 : ZAYM_43
- Track 18 : Daredevil_83
- Track 19 : SpeedDemon_940
- Track 20 : DatBoi_89
- Track 21 : Mollymur_93
- Track 22 : Towmatter_82
- Track 23 : Bantam_93
- Track 24 : Dogfish_34
- Track 25 : Danimal_24, KyriosFaba_24, Bradley2_24, Picnic_24, Majesty_24, Anseraureola_24, BarBear_24, Dooby_24, Luxx_24, Goobery_24, JaimeB_24, Ciel_24, Chatham_24, Jahseh_24, NeumannU_24, GoldenBlanche_24, Aztec_24, Pondwater_24, Jannah_24, Sachet_24, Goulash_24, Yubaba_24, BinkBonk_24, Baine_24, Duggle_25, BurtonThePup_24, Dongwon_24, Minima_24, Yasuo_24, Myram_24, Horacetta_24, Octopus_24, SeaWolves_24, JoBros_24, Slentz_24, Gardevoir_24, Jella_26, PaoPu_24, YertPhresh_24, Hernandez44_24, Alucard_24, ManAs_24, Puddles3_24, Sara_24, Owens_24, Lola20_24, Picconator_24, Cayde6_24, Scrunchy_24, Astro16_24, EdElric_24, Tyrellus_24, Witch_24, LemonPepper_24
- Track 26 : Efeko_25

- Track 27 : Nobel_24, Stem_24, JooneeDee_24, Bintii_24, MirimarMandM_24, Upsilon_24, Niffler_24, PoRandi_24
- Track 28 : McShie_24, JRok_24
- Track 29 : Kevanna_24, MelBee03_24
- Track 30 : Biscayne_24
- Track 31 : TomBrady12_25, Snuffles_26, TinyTruffula_24, Mauilvory_23, Publix_25, Clownery_24, IzzyPants24_24, Trireme_24, Rira_24, Trackstar_24, Namsahir_26, Yami_24, Bullzi2019_25, Slizam_24, Lunatic_24, Cazares_24, PuffyCat_24, Miaurora_24
- Track 32 : Kaijohn_24
- Track 33 : Eightball_24
- Track 34 : Avvas_24, Charbie_24, Scamander_24, Josuke_24, Kojax4_24, Aries55_24, Otwor_24, Vanisius_24, RoscoWindex_24, LaviMo_24, SantasSleigh_24, Zahlia_24, Maneater_24, Godfather_24, Sage7_24, Rhysand_24, Danno_24, Grayscar_24, TimoTea_24, Hulk_24, Gabbspett_24, Burgy_24, Cheesecake_24
- Track 35 : KillerTomato_24, Concrete_24, BoomRoasted_24, Bri160_24
- Track 36 : ELee24_23
- Track 37 : Gillker_24
- Track 38 : DirtPie_24, Rhogar_24, Marichuy_25, MasterPitts_24, LionelHutz_24, DaftyDuck_24, HeadMave_24, TeddyBoy_24
- Track 39 : Erin_24
- Track 40 : Azizam_24, Oaklynn_24
- Track 41 : Madebyisha_24, Jerky_24, VitulaEligans_24, OdetoJoy_24
- Track 42 : Leafy_24, Abelaine_25, Loca_24, Douggie_24, Quaker_24, Livingwater_24
- Track 43 : Wolfpack_24, Bodhi17_24, KayPaulus_24, Sippinontea_24
- Track 44 : Elspeth_25, HarperAnne_25, TlaliMex_26, Ekko14_25
- Track 45 : Noelani_24
- Track 46 : Toxicola_26
- Track 47 : Belthelas_24
- Track 48 : MrGreen_24
- Track 49 : MargaretKali_34, Kumotta_34
- Track 50 : Pigu_35
- Track 51 : Yavru_16, Utopia_16, Piku_16
- Track 52 : Whytu_16
- Track 53 : BlueFeather_20
- Track 54 : Guinevere_44, Ichiang_41, Obliviate_39, GoodLuckBabe_44, Zaheer_44, MillySue_43, QuinnAvery_44, Petra_40, Zarbodnamra_42, Zilla_41, Halloweekend_39, Schism_46
- Track 55 : Elesar_38
- Track 56 : Julie_41
- Track 57 : Popper_42
- Track 58 : AllBusiness_40
- Track 59 : Smilerella_20, MoRicky_20
- Track 60 : BigBoyz_18
- Track 61 : Webster2_50, Luke_50, LilHazelNut_50, Evanesce_49, Hadrien_50, BloominB_49, Gancho_49, Ubuntu_50, Forge_48, Ein37_50, Amymech_50, DeepSoil15_50, Daegal_52, Kinbote_50, Amochick_50
- Track 62 : NovoPizza_50
- Track 63 : OBUpride_50
- Track 64 : Shambre1_51
- Track 65 : LuckyBarnes_7

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

The start number called the most often in the published annotations is 51, it was called in 121 of the 223 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Alucard_24, Anseraureola_24, Aries55_24, Astro16_24, Avvas_24, Azizam_24, Aztec_24, Baine_24, BarBear_24, Belthelas_24, BinkBonk_24, Bintii_24, Biscayne_24, Bradley2_24, Bullzi2019_25, Burgy_24, BurtonThePup_24, Cayde6_24, Cazares_24, Charbie_24, Chatham_24, Cheesecake_24, Ciel_24, Clownery_24, DaftyDuck_24, Danimal_24, Danno_24, DirtPie_24, Dongwon_24, Dooby_24, Duggle_25, ELee24_23, EdElric_24, Eightball_24, Ekko14_25, Elspeth_25, Gabbspett_24, Gardevoir_24, Godfather_24, GoldenBlanche_24, Goobery_24, Goulash_24, Grayscar_24, HarperAnne_25, HeadMave_24, Hernandez44_24, Horacetta_24, Hulk_24, IzzyPants24_24, JRok_24, Jahseh_24, JaimeB_24, Jannah_24, Jella_26, Jerky_24, JoBros_24, JooneeDee_24, Josuke_24, Kojax4_24, KyriosFaba_24, LaviMo_24, LemonPepper_24, LionelHutz_24, Lola20_24, Lunatic_24, Luxx_24, Madebyisha_24, Majesty_24, ManAs_24, Maneater_24, Marichuy_25, MasterPitts_24, Mauilvory_23, McShie_24, Miaurora_24, Minima_24, MirimarMandM_24, Myram_24, Namsahir_26, NeumannU_24, Niffler_24, Nobel_24, Oaklynn_24, Octopus_24, OdetoJoy_24, Otwor_24, Owens_24, PaoPu_24, Picconator_24, Picnic_24, PoRanda_24, Pondwater_24, Publix_25, Puddles3_24, PuffyCat_24, Rhogar_24, Rhysand_24, Rira_24, RoscoWindex_24, Sachet_24, Sage7_24, SantasSleigh_24, Sara_24, Scamander_24, Scrunchy_24, SeaWolves_24, Slentz_24, Slizam_24, Snuffles_26, Stem_24, TeddyBoy_24, TimoTea_24, TinyTruffula_24, TlaliMex_26, TomBrady12_25, Trackstar_24, Trireme_24, Tyrellus_24, Upsilon_24, Vanisius_24, VitulaEligans_24, Witch_24, Yami_24, Yasuo_24, YertPhresh_24, Yubaba_24, Zahlia_24,

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

- Erin_24, Gillker_24,

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

- Abelaine_25, Abscondus_97, Adaia_20, AllBusiness_40, Amochick_50, Amymech_50, Aphelion_99, Bachita_100, BackstagePass_46, Bantam_93, BigBoyz_18, BloominB_49, BlueFeather_20, Bodhi17_24, BoomRoasted_24, Bowser_41, Bri160_24, BrutonGaster_80, Bunker_39, ClubL_99, Coeur_21, Concrete_24, Cucurbita_99, Culver_100, Daegal_52, Daredevil_83, DatBoi_89, DeepSoil15_50, Dogfish_34, Duggie_24, Dusty_96, Efeko_25, Ein37_50, Elesar_38, Engineer_99, Evanesce_49, Eyes_39, Forge_48, Gancho_49, Geeche_97, GoodLuckBabe_44, Guinevere_44, Hadrien_50, Halloween_39, Hestia_46, Ichiang_41, IdentityCrisis_37, Julie_41, KaiJohn_24, KayPaulus_24, Kevanna_24, KillerTomato_24, Kinbote_50, Kumotta_34, Leafy_24, LilHazelNut_50, Livingwater_24, Loca_24, Lozinak_98, LuckyBarnes_7, Luke_50, MagicMan_41, MargaretKali_34, MelBee03_24, MillySue_43, Miskis_92, MoRicky_20, Mollymur_93, MrGreen_24, Noelani_24, Norvs_100, NovoPizza_50, OBUpride_50, Obliviate_39, OneUp_86, Petra_40, PhinkBoden_97, Pigu_35, Piku_16, Popper_42, Quaker_24, QuinnAvery_44, Schism_46, Schnabeltier_41, Shambre1_51, Sippinontea_24, Smilerella_20, Smoothie_99, SpeedDemon_940, Toniann_100, Towmatter_82,

Toxicola_26, Ubuntu_50, UmaThurman_37, Utopia_16, WST1_38, Webster2_50, Whytu_16, WilliamBoone_100, Wolfpack_24, Yavru_16, ZAYM_43, Zaheer_44, Zarbodnamra_42, Zilla_41,

Summary by start number:

Start 33:

- Found in 1 of 234 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 223
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Dogfish_34 (DT),

Start 42:

- Found in 1 of 234 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 223
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BlueFeather_20 (FE),

Start 44:

- Found in 5 of 234 (2.1%) of genes in pham
- Manual Annotations of this start: 2 of 223
- Called 80.0% of time when present
- Phage (with cluster) where this start called: Bunker_39 (DB), IdentityCrisis_37 (AJ), WST1_38 (AJ), ZAYM_43 (DB),

Start 47:

- Found in 1 of 234 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 223
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Coeur_21 (CW2),

Start 48:

- Found in 2 of 234 (0.9%) of genes in pham
- Manual Annotations of this start: 1 of 223
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Noelani_24 (EE),

Start 49:

- Found in 20 of 234 (8.5%) of genes in pham
- Manual Annotations of this start: 17 of 223
- Called 95.0% of time when present
- Phage (with cluster) where this start called: Abelaine_25 (EE), Bodhi17_24 (EE), BoomRoasted_24 (EE), Bri160_24 (EE), Concrete_24 (EE), Douggie_24 (EE), Kaijohn_24 (EE), KayPaulus_24 (EE), Kevanna_24 (EE), KillerTomato_24 (EE), Leafy_24 (EE), Livingwater_24 (EE), Loca_24 (EE), MelBee03_24 (EE), MrGreen_24 (EE), Quaker_24 (EE), Sippinontea_24 (EE), Toxicola_26 (EE), Wolfpack_24 (EE),

Start 50:

- Found in 4 of 234 (1.7%) of genes in pham
- Manual Annotations of this start: 3 of 223
- Called 75.0% of time when present
- Phage (with cluster) where this start called: Elesar_38 (FF), NovoPizza_50 (Q), Popper_42 (FF),

Start 51:

- Found in 129 of 234 (55.1%) of genes in pham
- Manual Annotations of this start: 121 of 223
- Called 98.4% of time when present
- Phage (with cluster) where this start called: Alucard_24 (EE), Anseraureola_24 (EE), Aries55_24 (EE), Astro16_24 (EE), Avvas_24 (EE), Azizam_24 (EE), Aztec_24 (EE), Baine_24 (EE), BarBear_24 (EE), Belthelas_24 (EE), BinkBonk_24 (EE), Binti_24 (EE), Biscayne_24 (EE), Bradley2_24 (EE), Bullzi2019_25 (EE), Burgy_24 (EE), BurtonThePup_24 (EE), Cayde6_24 (EE), Cazares_24 (EE), Charbie_24 (EE), Chatham_24 (EE), Cheesecake_24 (EE), Ciel_24 (EE), Clownery_24 (EE), DaftyDuck_24 (EE), Danimal_24 (EE), Danno_24 (EE), DirtPie_24 (EE), Dongwon_24 (EE), Dooby_24 (EE), Duggle_25 (EE), ELee24_23 (EE), EdElric_24 (EE), Eightball_24 (EE), Ekko14_25 (EE), Elspeth_25 (EE), Gabbspett_24 (EE), Gardevoir_24 (EE), Godfather_24 (EE), GoldenBlanche_24 (EE), Goobery_24 (EE), Goulash_24 (EE), Grayscar_24 (EE), HarperAnne_25 (EE), HeadMave_24 (EE), Hernandez44_24 (EE), Horacetta_24 (EE), Hulk_24 (EE), IzzyPants24_24 (EE), JRok_24 (EE), Jahseh_24 (EE), JaimeB_24 (EE), Jannah_24 (EE), Jella_26 (EE), Jerky_24 (EE), JoBros_24 (EE), JooneeDee_24 (EE), Josuke_24 (EE), Kojax4_24 (EE), KyriosFaba_24 (EE), LaviMo_24 (EE), LemonPepper_24 (EE), LionelHutz_24 (EE), Lola20_24 (EE), Lunatic_24 (EE), Luxx_24 (EE), Madebyisha_24 (EE), Majesty_24 (EE), ManAs_24 (EE), Maneater_24 (EE), Marichuy_25 (EE), MasterPitts_24 (EE), MauiIvory_23 (EE), McShie_24 (EE), Miaurora_24 (EE), Minima_24 (EE), MirimarMandM_24 (EE), Myram_24 (EE), Namsahir_26 (EE), NeumannU_24 (EE), Niffler_24 (EE), Nobel_24 (EE), Oaklynn_24 (EE), Octopus_24 (EE), OdetoJoy_24 (EE), Otwor_24 (EE), Owens_24 (EE), PaoPu_24 (EE), Picconator_24 (EE), Picnic_24 (EE), PoRanda_24 (EE), Pondwater_24 (EE), Publix_25 (EE), Puddles3_24 (EE), PuffyCat_24 (EE), Rhogar_24 (EE), Rhysand_24 (EE), Rira_24 (EE), RoscoWindex_24 (EE), Sachet_24 (EE), Sage7_24 (EE), SantasSleigh_24 (EE), Sara_24 (EE), Scamander_24 (EE), Scrunchy_24 (EE), SeaWolves_24 (EE), Slentz_24 (EE), Slizam_24 (EE), Snuffles_26 (EE), Stem_24 (EE), TeddyBoy_24 (EE), TimoTea_24 (EE), TinyTruffula_24 (EE), TlaliMex_26 (EE), TomBrady12_25 (EE), Trackstar_24 (EE), Trireme_24 (EE), Tyrellus_24 (EE), Upsilon_24 (EE), Vanisius_24 (EE), VitulaEligans_24 (EE), Witch_24 (EE), Yami_24 (EE), Yasuo_24 (EE), YertPhresh_24 (EE), Yubaba_24 (EE), Zahlia_24 (EE),

Start 53:

- Found in 21 of 234 (9.0%) of genes in pham
- Manual Annotations of this start: 19 of 223
- Called 90.5% of time when present
- Phage (with cluster) where this start called: Adaia_20 (AX), Amochick_50 (Q), Amymech_50 (Q), BloominB_49 (Q), Daegal_52 (Q), DeepSoil15_50 (Q), Ein37_50 (Q), Evanesce_49 (Q), Forge_48 (Q), Gancho_49 (Q), Hadrien_50 (Q), Kinbote_50 (Q), LilHazelnut_50 (Q), Luke_50 (Q), OBUpride_50 (Q), Shambre1_51 (singleton), Ubuntu_50 (Q), UmaThurman_37 (CV), Webster2_50 (Q),

Start 54:

- Found in 162 of 234 (69.2%) of genes in pham
- Manual Annotations of this start: 16 of 223
- Called 9.9% of time when present
- Phage (with cluster) where this start called: Efeko_25 (EE), Erin_24 (EE), Gillker_24 (EE), GoodLuckBabe_44 (FF), Guinevere_44 (FF), Halloweekend_39 (FF), Ichiang_41 (FF), Julie_41 (FF), MillySue_43 (FF), Obliviate_39 (CV), Petra_40 (CV),

QuinnAvery_44 (FF), Schism_46 (FF), Zaheer_44 (FF), Zarbodnamra_42 (CV), Zilla_41 (CV),

Start 55:

- Found in 8 of 234 (3.4%) of genes in pham
- Manual Annotations of this start: 3 of 223
- Called 37.5% of time when present
- Phage (with cluster) where this start called: BigBoyz_18 (GH), MoRicky_20 (GH), Smilerella_20 (GH),

Start 59:

- Found in 18 of 234 (7.7%) of genes in pham
- Manual Annotations of this start: 17 of 223
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Abscondus_97 (CQ1), Aphelion_99 (CQ1), Bachita_100 (CQ1), BrutonGaster_80 (CQ2), ClubL_99 (CQ1), Cucurbita_99 (CQ1), Culver_100 (CQ1), Dusty_96 (CQ1), Engineer_99 (CQ1), Geeche_97 (CQ1), Lozinak_98 (CQ1), Miskis_92 (CQ1), Norvs_100 (CQ1), OneUp_86 (CQ2), PhinkBoden_97 (CQ1), Smoothie_99 (CQ1), Toniann_100 (CQ1), WilliamBoone_100 (CQ1),

Start 60:

- Found in 3 of 234 (1.3%) of genes in pham
- Manual Annotations of this start: 3 of 223
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bantam_93 (DL), DatBoi_89 (DL), SpeedDemon_940 (DL),

Start 61:

- Found in 6 of 234 (2.6%) of genes in pham
- Manual Annotations of this start: 5 of 223
- Called 83.3% of time when present
- Phage (with cluster) where this start called: BackstagePass_46 (DB), Bowser_41 (DB), Eyes_39 (DB), MagicMan_41 (DB), Schnabeltier_41 (DB),

Start 62:

- Found in 3 of 234 (1.3%) of genes in pham
- Manual Annotations of this start: 1 of 223
- Called 33.3% of time when present
- Phage (with cluster) where this start called: AllBusiness_40 (FF),

Start 63:

- Found in 1 of 234 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 223
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Hestia_46 (AY),

Start 64:

- Found in 2 of 234 (0.9%) of genes in pham
- Manual Annotations of this start: 2 of 223
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kumotta_34 (FB), MargaretKali_34 (FB),

Start 65:

- Found in 4 of 234 (1.7%) of genes in pham
- Manual Annotations of this start: 4 of 223
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Daredevil_83 (DL), Mollymur_93 (DL), Pigu_35 (FB), Towmatter_82 (DL),

Start 67:

- Found in 1 of 234 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 223
- Called 100.0% of time when present
- Phage (with cluster) where this start called: LuckyBarnes_7 (singleton),

Start 73:

- Found in 6 of 234 (2.6%) of genes in pham
- Manual Annotations of this start: 4 of 223
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Piku_16 (FE), Utopia_16 (FE), Whytu_16 (FE), Yavru_16 (FE),

Summary by clusters:

There are 17 clusters represented in this pham: DL, CW2, EE, AJ, DB, singleton, DT, Q, FB, FE, FF, AX, AY, CQ2, CQ1, CV, GH,

Info for manual annotations of cluster AJ:

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

Info for manual annotations of cluster AX:

- Start number 53 was manually annotated 1 time for cluster AX.

Info for manual annotations of cluster AY:

- Start number 63 was manually annotated 1 time for cluster AY.

Info for manual annotations of cluster CQ1:

- Start number 59 was manually annotated 15 times for cluster CQ1.

Info for manual annotations of cluster CQ2:

- Start number 59 was manually annotated 2 times for cluster CQ2.

Info for manual annotations of cluster CV:

- Start number 53 was manually annotated 1 time for cluster CV.
- Start number 54 was manually annotated 4 times for cluster CV.

Info for manual annotations of cluster CW2:

- Start number 47 was manually annotated 1 time for cluster CW2.

Info for manual annotations of cluster DB:

- Start number 44 was manually annotated 1 time for cluster DB.
- Start number 61 was manually annotated 5 times for cluster DB.

Info for manual annotations of cluster DL:

- Start number 60 was manually annotated 3 times for cluster DL.

- Start number 65 was manually annotated 3 times for cluster DL.

Info for manual annotations of cluster DT:

- Start number 33 was manually annotated 1 time for cluster DT.

Info for manual annotations of cluster EE:

- Start number 48 was manually annotated 1 time for cluster EE.
- Start number 49 was manually annotated 17 times for cluster EE.
- Start number 51 was manually annotated 121 times for cluster EE.
- Start number 54 was manually annotated 3 times for cluster EE.

Info for manual annotations of cluster FB:

- Start number 64 was manually annotated 2 times for cluster FB.
- Start number 65 was manually annotated 1 time for cluster FB.

Info for manual annotations of cluster FE:

- Start number 42 was manually annotated 1 time for cluster FE.
- Start number 73 was manually annotated 4 times for cluster FE.

Info for manual annotations of cluster FF:

- Start number 50 was manually annotated 2 times for cluster FF.
- Start number 54 was manually annotated 9 times for cluster FF.
- Start number 62 was manually annotated 1 time for cluster FF.

Info for manual annotations of cluster GH:

- Start number 55 was manually annotated 3 times for cluster GH.

Info for manual annotations of cluster Q:

- Start number 50 was manually annotated 1 time for cluster Q.
- Start number 53 was manually annotated 16 times for cluster Q.

Gene Information:

Gene: Abelaine_25 Start: 16819, Stop: 17037, Start Num: 49

Candidate Starts for Abelaine_25:

(Start: 49 @16819 has 17 MA's), (Start: 54 @16828 has 16 MA's), (74, 16891), (87, 16999), (88, 17002), (92, 17023),

Gene: Abscondus_97 Start: 58989, Stop: 59189, Start Num: 59

Candidate Starts for Abscondus_97:

(Start: 59 @58989 has 17 MA's), (76, 59046), (77, 59052), (85, 59130), (89, 59145),

Gene: Adaia_20 Start: 13289, Stop: 13507, Start Num: 53

Candidate Starts for Adaia_20:

(Start: 53 @13289 has 19 MA's), (Start: 73 @13343 has 4 MA's), (75, 13361),

Gene: AllBusiness_40 Start: 31222, Stop: 31440, Start Num: 62

Candidate Starts for AllBusiness_40:

(Start: 50 @31186 has 3 MA's), (Start: 62 @31222 has 1 MA's),

Gene: Alucard_24 Start: 16775, Stop: 16993, Start Num: 51

Candidate Starts for Alucard_24:

(Start: 51 @16775 has 121 MA's), (Start: 54 @16784 has 16 MA's), (74, 16847), (87, 16955), (88, 16958), (92, 16979),

Gene: Amochick_50 Start: 36955, Stop: 37152, Start Num: 53

Candidate Starts for Amochick_50:

(Start: 53 @36955 has 19 MA's), (75, 37018),

Gene: Amymech_50 Start: 36949, Stop: 37146, Start Num: 53

Candidate Starts for Amymech_50:

(Start: 53 @36949 has 19 MA's), (75, 37012),

Gene: Anseraureola_24 Start: 16837, Stop: 17055, Start Num: 51

Candidate Starts for Anseraureola_24:

(Start: 51 @16837 has 121 MA's), (Start: 54 @16846 has 16 MA's), (74, 16909), (87, 17017), (88, 17020), (92, 17041),

Gene: Aphelion_99 Start: 60542, Stop: 60742, Start Num: 59

Candidate Starts for Aphelion_99:

(Start: 59 @60542 has 17 MA's), (76, 60599), (77, 60605), (85, 60683), (89, 60698),

Gene: Aries55_24 Start: 16864, Stop: 17082, Start Num: 51

Candidate Starts for Aries55_24:

(Start: 51 @16864 has 121 MA's), (Start: 54 @16873 has 16 MA's), (74, 16936), (87, 17044), (88, 17047), (92, 17068),

Gene: Astro16_24 Start: 16857, Stop: 17075, Start Num: 51

Candidate Starts for Astro16_24:

(Start: 51 @16857 has 121 MA's), (Start: 54 @16866 has 16 MA's), (74, 16929), (87, 17037), (88, 17040), (92, 17061),

Gene: Avvas_24 Start: 16864, Stop: 17082, Start Num: 51

Candidate Starts for Avvas_24:

(Start: 51 @16864 has 121 MA's), (Start: 54 @16873 has 16 MA's), (74, 16936), (87, 17044), (88, 17047), (92, 17068),

Gene: Azizam_24 Start: 16797, Stop: 17015, Start Num: 51

Candidate Starts for Azizam_24:

(Start: 51 @16797 has 121 MA's), (Start: 54 @16806 has 16 MA's), (74, 16869), (78, 16902), (87, 16977), (88, 16980),

Gene: Aztec_24 Start: 16780, Stop: 16998, Start Num: 51

Candidate Starts for Aztec_24:

(Start: 51 @16780 has 121 MA's), (Start: 54 @16789 has 16 MA's), (74, 16852), (87, 16960), (88, 16963), (92, 16984),

Gene: Bachita_100 Start: 60200, Stop: 60400, Start Num: 59

Candidate Starts for Bachita_100:

(Start: 59 @60200 has 17 MA's), (76, 60257), (77, 60263), (85, 60341), (89, 60356),

Gene: BackstagePass_46 Start: 34306, Stop: 34112, Start Num: 61

Candidate Starts for BackstagePass_46:

(Start: 55 @34321 has 3 MA's), (Start: 61 @34306 has 5 MA's), (74, 34267), (79, 34222),

Gene: Baine_24 Start: 16800, Stop: 17018, Start Num: 51

Candidate Starts for Baine_24:

(Start: 51 @16800 has 121 MA's), (Start: 54 @16809 has 16 MA's), (74, 16872), (87, 16980), (88, 16983), (92, 17004),

Gene: Bantam_93 Start: 62206, Stop: 62006, Start Num: 60

Candidate Starts for Bantam_93:

(Start: 60 @62206 has 3 MA's), (66, 62191), (77, 62146), (83, 62095),

Gene: BarBear_24 Start: 16857, Stop: 17075, Start Num: 51

Candidate Starts for BarBear_24:

(Start: 51 @16857 has 121 MA's), (Start: 54 @16866 has 16 MA's), (74, 16929), (87, 17037), (88, 17040), (92, 17061),

Gene: Belthelas_24 Start: 16913, Stop: 17131, Start Num: 51

Candidate Starts for Belthelas_24:

(15, 16754), (17, 16763), (Start: 51 @16913 has 121 MA's), (Start: 54 @16922 has 16 MA's), (74, 16985), (87, 17093), (88, 17096), (92, 17117),

Gene: BigBoyz_18 Start: 13745, Stop: 13954, Start Num: 55

Candidate Starts for BigBoyz_18:

(36, 13694), (46, 13724), (Start: 55 @13745 has 3 MA's), (77, 13820),

Gene: BinkBonk_24 Start: 16857, Stop: 17075, Start Num: 51

Candidate Starts for BinkBonk_24:

(Start: 51 @16857 has 121 MA's), (Start: 54 @16866 has 16 MA's), (74, 16929), (87, 17037), (88, 17040), (92, 17061),

Gene: Bintii_24 Start: 16879, Stop: 17097, Start Num: 51

Candidate Starts for Bintii_24:

(11, 16708), (13, 16717), (Start: 51 @16879 has 121 MA's), (Start: 54 @16888 has 16 MA's), (74, 16951), (78, 16984), (87, 17059), (88, 17062),

Gene: Biscayne_24 Start: 16940, Stop: 17158, Start Num: 51

Candidate Starts for Biscayne_24:

(Start: 51 @16940 has 121 MA's), (Start: 54 @16949 has 16 MA's), (74, 17012), (78, 17045), (82, 17081), (87, 17120), (88, 17123),

Gene: BloominB_49 Start: 36949, Stop: 37146, Start Num: 53

Candidate Starts for BloominB_49:

(Start: 53 @36949 has 19 MA's), (75, 37012),

Gene: BlueFeather_20 Start: 14165, Stop: 14407, Start Num: 42

Candidate Starts for BlueFeather_20:

(Start: 42 @14165 has 1 MA's), (Start: 48 @14177 has 1 MA's), (Start: 55 @14195 has 3 MA's),

Gene: Bodhi17_24 Start: 16894, Stop: 17112, Start Num: 49

Candidate Starts for Bodhi17_24:

(27, 16819), (Start: 49 @16894 has 17 MA's), (Start: 54 @16903 has 16 MA's), (71, 16951), (74, 16966), (78, 16999), (87, 17074), (88, 17077), (92, 17098),

Gene: BoomRoasted_24 Start: 16867, Stop: 17085, Start Num: 49

Candidate Starts for BoomRoasted_24:

(Start: 49 @16867 has 17 MA's), (Start: 54 @16876 has 16 MA's), (74, 16939), (87, 17047), (88, 17050),

Gene: Bowser_41 Start: 32656, Stop: 32847, Start Num: 61

Candidate Starts for Bowser_41:

(Start: 55 @32641 has 3 MA's), (Start: 61 @32656 has 5 MA's), (79, 32740), (80, 32755), (88, 32809),

Gene: Bradley2_24 Start: 16779, Stop: 16997, Start Num: 51

Candidate Starts for Bradley2_24:

(Start: 51 @16779 has 121 MA's), (Start: 54 @16788 has 16 MA's), (74, 16851), (87, 16959), (88, 16962), (92, 16983),

Gene: Bri160_24 Start: 16854, Stop: 17072, Start Num: 49

Candidate Starts for Bri160_24:

(Start: 49 @16854 has 17 MA's), (Start: 54 @16863 has 16 MA's), (74, 16926), (87, 17034), (88, 17037),

Gene: BrutonGaster_80 Start: 54552, Stop: 54749, Start Num: 59

Candidate Starts for BrutonGaster_80:

(Start: 59 @54552 has 17 MA's), (82, 54663), (85, 54693),

Gene: Bullzi2019_25 Start: 16555, Stop: 16773, Start Num: 51

Candidate Starts for Bullzi2019_25:

(Start: 51 @16555 has 121 MA's), (Start: 54 @16564 has 16 MA's), (74, 16627), (78, 16660), (87, 16735), (88, 16738),

Gene: Bunker_39 Start: 31881, Stop: 32090, Start Num: 44

Candidate Starts for Bunker_39:

(36, 31854), (Start: 44 @31881 has 2 MA's), (91, 32055),

Gene: Burgy_24 Start: 16865, Stop: 17083, Start Num: 51

Candidate Starts for Burgy_24:

(Start: 51 @16865 has 121 MA's), (Start: 54 @16874 has 16 MA's), (74, 16937), (87, 17045), (88, 17048), (92, 17069),

Gene: BurtonThePup_24 Start: 16857, Stop: 17075, Start Num: 51

Candidate Starts for BurtonThePup_24:

(Start: 51 @16857 has 121 MA's), (Start: 54 @16866 has 16 MA's), (74, 16929), (87, 17037), (88, 17040), (92, 17061),

Gene: Cayde6_24 Start: 16800, Stop: 17018, Start Num: 51

Candidate Starts for Cayde6_24:

(Start: 51 @16800 has 121 MA's), (Start: 54 @16809 has 16 MA's), (74, 16872), (87, 16980), (88, 16983), (92, 17004),

Gene: Cazares_24 Start: 16327, Stop: 16545, Start Num: 51

Candidate Starts for Cazares_24:

(Start: 51 @16327 has 121 MA's), (Start: 54 @16336 has 16 MA's), (74, 16399), (78, 16432), (87, 16507), (88, 16510),

Gene: Charbie_24 Start: 16840, Stop: 17058, Start Num: 51

Candidate Starts for Charbie_24:

(Start: 51 @16840 has 121 MA's), (Start: 54 @16849 has 16 MA's), (74, 16912), (87, 17020), (88, 17023), (92, 17044),

Gene: Chatham_24 Start: 16774, Stop: 16992, Start Num: 51

Candidate Starts for Chatham_24:

(Start: 51 @16774 has 121 MA's), (Start: 54 @16783 has 16 MA's), (74, 16846), (87, 16954), (88, 16957), (92, 16978),

Gene: Cheesecake_24 Start: 16865, Stop: 17083, Start Num: 51

Candidate Starts for Cheesecake_24:

(Start: 51 @16865 has 121 MA's), (Start: 54 @16874 has 16 MA's), (74, 16937), (87, 17045), (88, 17048), (92, 17069),

Gene: Ciel_24 Start: 16857, Stop: 17075, Start Num: 51

Candidate Starts for Ciel_24:

(Start: 51 @16857 has 121 MA's), (Start: 54 @16866 has 16 MA's), (74, 16929), (87, 17037), (88, 17040), (92, 17061),

Gene: Clownery_24 Start: 16453, Stop: 16671, Start Num: 51

Candidate Starts for Clownery_24:

(Start: 51 @16453 has 121 MA's), (Start: 54 @16462 has 16 MA's), (74, 16525), (78, 16558), (87, 16633), (88, 16636),

Gene: ClubL_99 Start: 59132, Stop: 59332, Start Num: 59

Candidate Starts for ClubL_99:

(40, 59090), (Start: 59 @59132 has 17 MA's), (85, 59273), (89, 59288),

Gene: Coeur_21 Start: 14434, Stop: 14706, Start Num: 47

Candidate Starts for Coeur_21:

(24, 14341), (31, 14380), (38, 14407), (Start: 47 @14434 has 1 MA's), (52, 14443), (91, 14638),

Gene: Concrete_24 Start: 16844, Stop: 17062, Start Num: 49

Candidate Starts for Concrete_24:

(Start: 49 @16844 has 17 MA's), (Start: 54 @16853 has 16 MA's), (74, 16916), (87, 17024), (88, 17027),

Gene: Cucurbita_99 Start: 60707, Stop: 60907, Start Num: 59

Candidate Starts for Cucurbita_99:

(Start: 59 @60707 has 17 MA's), (76, 60764), (77, 60770), (85, 60848), (89, 60863),

Gene: Culver_100 Start: 59032, Stop: 59232, Start Num: 59

Candidate Starts for Culver_100:

(Start: 59 @59032 has 17 MA's), (85, 59173), (89, 59188),

Gene: Daegal_52 Start: 37533, Stop: 37730, Start Num: 53

Candidate Starts for Daegal_52:

(Start: 53 @37533 has 19 MA's), (75, 37596),

Gene: DaftyDuck_24 Start: 16797, Stop: 17015, Start Num: 51

Candidate Starts for DaftyDuck_24:

(Start: 51 @16797 has 121 MA's), (Start: 54 @16806 has 16 MA's), (74, 16869), (87, 16977), (88, 16980), (92, 17001),

Gene: Danimal_24 Start: 16776, Stop: 16994, Start Num: 51
Candidate Starts for Danimal_24:
(Start: 51 @16776 has 121 MA's), (Start: 54 @16785 has 16 MA's), (74, 16848), (87, 16956), (88, 16959), (92, 16980),

Gene: Danno_24 Start: 16864, Stop: 17082, Start Num: 51
Candidate Starts for Danno_24:
(Start: 51 @16864 has 121 MA's), (Start: 54 @16873 has 16 MA's), (74, 16936), (87, 17044), (88, 17047), (92, 17068),

Gene: Daredevil_83 Start: 57872, Stop: 57690, Start Num: 65
Candidate Starts for Daredevil_83:
(Start: 65 @57872 has 4 MA's), (81, 57782), (84, 57755),

Gene: DatBoi_89 Start: 61354, Stop: 61154, Start Num: 60
Candidate Starts for DatBoi_89:
(Start: 60 @61354 has 3 MA's), (66, 61339), (83, 61243),

Gene: DeepSoil15_50 Start: 36949, Stop: 37146, Start Num: 53
Candidate Starts for DeepSoil15_50:
(Start: 53 @36949 has 19 MA's), (75, 37012),

Gene: DirtPie_24 Start: 16890, Stop: 17108, Start Num: 51
Candidate Starts for DirtPie_24:
(Start: 51 @16890 has 121 MA's), (Start: 54 @16899 has 16 MA's), (74, 16962), (87, 17070), (88, 17073), (92, 17094),

Gene: Dogfish_34 Start: 29638, Stop: 29883, Start Num: 33
Candidate Starts for Dogfish_34:
(Start: 33 @29638 has 1 MA's), (Start: 44 @29674 has 2 MA's), (78, 29776),

Gene: Dongwon_24 Start: 16774, Stop: 16992, Start Num: 51
Candidate Starts for Dongwon_24:
(Start: 51 @16774 has 121 MA's), (Start: 54 @16783 has 16 MA's), (74, 16846), (87, 16954), (88, 16957), (92, 16978),

Gene: Dooby_24 Start: 16774, Stop: 16992, Start Num: 51
Candidate Starts for Dooby_24:
(Start: 51 @16774 has 121 MA's), (Start: 54 @16783 has 16 MA's), (74, 16846), (87, 16954), (88, 16957), (92, 16978),

Gene: Douggie_24 Start: 16850, Stop: 17068, Start Num: 49
Candidate Starts for Douggie_24:
(Start: 49 @16850 has 17 MA's), (Start: 54 @16859 has 16 MA's), (74, 16922), (87, 17030), (88, 17033), (92, 17054),

Gene: Duggle_25 Start: 16774, Stop: 16992, Start Num: 51
Candidate Starts for Duggle_25:
(Start: 51 @16774 has 121 MA's), (Start: 54 @16783 has 16 MA's), (74, 16846), (87, 16954), (88, 16957), (92, 16978),

Gene: Dusty_96 Start: 59048, Stop: 59248, Start Num: 59
Candidate Starts for Dusty_96:

(Start: 59 @59048 has 17 MA's), (76, 59105), (77, 59111), (85, 59189), (89, 59204),

Gene: ELee24_23 Start: 16643, Stop: 16861, Start Num: 51

Candidate Starts for ELee24_23:

(Start: 51 @16643 has 121 MA's), (Start: 61 @16673 has 5 MA's), (74, 16715), (87, 16823), (88, 16826),

Gene: EdElric_24 Start: 16774, Stop: 16992, Start Num: 51

Candidate Starts for EdElric_24:

(Start: 51 @16774 has 121 MA's), (Start: 54 @16783 has 16 MA's), (74, 16846), (87, 16954), (88, 16957), (92, 16978),

Gene: Efeko_25 Start: 16548, Stop: 16751, Start Num: 54

Candidate Starts for Efeko_25:

(34, 16509), (Start: 54 @16548 has 16 MA's), (56, 16554), (90, 16725),

Gene: Eightball_24 Start: 16851, Stop: 17069, Start Num: 51

Candidate Starts for Eightball_24:

(Start: 51 @16851 has 121 MA's), (Start: 54 @16860 has 16 MA's), (74, 16923), (87, 17031), (88, 17034), (92, 17055),

Gene: Ein37_50 Start: 36949, Stop: 37146, Start Num: 53

Candidate Starts for Ein37_50:

(Start: 53 @36949 has 19 MA's), (75, 37012),

Gene: Ekko14_25 Start: 16529, Stop: 16747, Start Num: 51

Candidate Starts for Ekko14_25:

(Start: 51 @16529 has 121 MA's), (Start: 54 @16538 has 16 MA's), (74, 16601), (78, 16634), (87, 16709), (88, 16712),

Gene: Elesar_38 Start: 30965, Stop: 31219, Start Num: 50

Candidate Starts for Elesar_38:

(37, 30932), (43, 30956), (Start: 50 @30965 has 3 MA's), (Start: 62 @31001 has 1 MA's),

Gene: Elspeth_25 Start: 16529, Stop: 16747, Start Num: 51

Candidate Starts for Elspeth_25:

(Start: 51 @16529 has 121 MA's), (Start: 54 @16538 has 16 MA's), (74, 16601), (78, 16634), (87, 16709), (88, 16712),

Gene: Engineer_99 Start: 60173, Stop: 60373, Start Num: 59

Candidate Starts for Engineer_99:

(Start: 59 @60173 has 17 MA's), (76, 60230), (77, 60236), (85, 60314), (89, 60329),

Gene: Erin_24 Start: 16781, Stop: 16990, Start Num: 54

Candidate Starts for Erin_24:

(Start: 51 @16772 has 121 MA's), (Start: 54 @16781 has 16 MA's), (74, 16844), (87, 16952), (88, 16955), (92, 16976),

Gene: Evanesce_49 Start: 36949, Stop: 37146, Start Num: 53

Candidate Starts for Evanesce_49:

(Start: 53 @36949 has 19 MA's), (75, 37012),

Gene: Eyes_39 Start: 32432, Stop: 32626, Start Num: 61

Candidate Starts for Eyes_39:
(Start: 55 @32417 has 3 MA's), (Start: 61 @32432 has 5 MA's), (79, 32516),

Gene: Forge_48 Start: 36949, Stop: 37146, Start Num: 53
Candidate Starts for Forge_48:
(Start: 53 @36949 has 19 MA's), (75, 37012),

Gene: Gabbspett_24 Start: 16894, Stop: 17112, Start Num: 51
Candidate Starts for Gabbspett_24:
(Start: 51 @16894 has 121 MA's), (Start: 54 @16903 has 16 MA's), (74, 16966), (87, 17074), (88, 17077), (92, 17098),

Gene: Gancho_49 Start: 36672, Stop: 36869, Start Num: 53
Candidate Starts for Gancho_49:
(Start: 53 @36672 has 19 MA's), (75, 36735),

Gene: Gardevoir_24 Start: 16808, Stop: 17026, Start Num: 51
Candidate Starts for Gardevoir_24:
(Start: 51 @16808 has 121 MA's), (Start: 54 @16817 has 16 MA's), (74, 16880), (87, 16988), (88, 16991), (92, 17012),

Gene: Geeche_97 Start: 59271, Stop: 59471, Start Num: 59
Candidate Starts for Geeche_97:
(Start: 59 @59271 has 17 MA's), (76, 59328), (77, 59334), (85, 59412), (89, 59427),

Gene: Gillker_24 Start: 16782, Stop: 16991, Start Num: 54
Candidate Starts for Gillker_24:
(Start: 51 @16773 has 121 MA's), (Start: 54 @16782 has 16 MA's), (74, 16845), (87, 16953), (88, 16956), (92, 16977),

Gene: Godfather_24 Start: 16864, Stop: 17082, Start Num: 51
Candidate Starts for Godfather_24:
(Start: 51 @16864 has 121 MA's), (Start: 54 @16873 has 16 MA's), (74, 16936), (87, 17044), (88, 17047), (92, 17068),

Gene: GoldenBlanche_24 Start: 16774, Stop: 16992, Start Num: 51
Candidate Starts for GoldenBlanche_24:
(Start: 51 @16774 has 121 MA's), (Start: 54 @16783 has 16 MA's), (74, 16846), (87, 16954), (88, 16957), (92, 16978),

Gene: Goobery_24 Start: 16857, Stop: 17075, Start Num: 51
Candidate Starts for Goobery_24:
(Start: 51 @16857 has 121 MA's), (Start: 54 @16866 has 16 MA's), (74, 16929), (87, 17037), (88, 17040), (92, 17061),

Gene: GoodLuckBabe_44 Start: 30575, Stop: 30790, Start Num: 54
Candidate Starts for GoodLuckBabe_44:
(Start: 54 @30575 has 16 MA's),

Gene: Goulash_24 Start: 16774, Stop: 16992, Start Num: 51
Candidate Starts for Goulash_24:
(Start: 51 @16774 has 121 MA's), (Start: 54 @16783 has 16 MA's), (74, 16846), (87, 16954), (88, 16957), (92, 16978),

Gene: Grayscar_24 Start: 16865, Stop: 17083, Start Num: 51

Candidate Starts for Grayscar_24:

(Start: 51 @16865 has 121 MA's), (Start: 54 @16874 has 16 MA's), (74, 16937), (87, 17045), (88, 17048), (92, 17069),

Gene: Guinevere_44 Start: 30166, Stop: 30381, Start Num: 54

Candidate Starts for Guinevere_44:

(Start: 54 @30166 has 16 MA's),

Gene: Hadrien_50 Start: 36949, Stop: 37146, Start Num: 53

Candidate Starts for Hadrien_50:

(Start: 53 @36949 has 19 MA's), (75, 37012),

Gene: Halloweekend_39 Start: 29574, Stop: 29789, Start Num: 54

Candidate Starts for Halloweekend_39:

(Start: 54 @29574 has 16 MA's),

Gene: HarperAnne_25 Start: 16528, Stop: 16746, Start Num: 51

Candidate Starts for HarperAnne_25:

(Start: 51 @16528 has 121 MA's), (Start: 54 @16537 has 16 MA's), (74, 16600), (78, 16633), (87, 16708), (88, 16711),

Gene: HeadMave_24 Start: 16860, Stop: 17078, Start Num: 51

Candidate Starts for HeadMave_24:

(Start: 51 @16860 has 121 MA's), (Start: 54 @16869 has 16 MA's), (74, 16932), (87, 17040), (88, 17043), (92, 17064),

Gene: Hernandez44_24 Start: 16889, Stop: 17107, Start Num: 51

Candidate Starts for Hernandez44_24:

(Start: 51 @16889 has 121 MA's), (Start: 54 @16898 has 16 MA's), (74, 16961), (87, 17069), (88, 17072), (92, 17093),

Gene: Hestia_46 Start: 29789, Stop: 29977, Start Num: 63

Candidate Starts for Hestia_46:

(Start: 63 @29789 has 1 MA's),

Gene: Horacetta_24 Start: 16774, Stop: 16992, Start Num: 51

Candidate Starts for Horacetta_24:

(Start: 51 @16774 has 121 MA's), (Start: 54 @16783 has 16 MA's), (74, 16846), (87, 16954), (88, 16957), (92, 16978),

Gene: Hulk_24 Start: 16807, Stop: 17025, Start Num: 51

Candidate Starts for Hulk_24:

(Start: 51 @16807 has 121 MA's), (Start: 54 @16816 has 16 MA's), (74, 16879), (87, 16987), (88, 16990), (92, 17011),

Gene: Ichiang_41 Start: 29593, Stop: 29808, Start Num: 54

Candidate Starts for Ichiang_41:

(Start: 54 @29593 has 16 MA's),

Gene: IdentityCrisis_37 Start: 27479, Stop: 27703, Start Num: 44

Candidate Starts for IdentityCrisis_37:

(Start: 44 @27479 has 2 MA's),

Gene: IzzyPants24_24 Start: 16383, Stop: 16601, Start Num: 51

Candidate Starts for IzzyPants24_24:

(Start: 51 @16383 has 121 MA's), (Start: 54 @16392 has 16 MA's), (74, 16455), (78, 16488), (87, 16563), (88, 16566),

Gene: JRok_24 Start: 16794, Stop: 17012, Start Num: 51

Candidate Starts for JRok_24:

(15, 16629), (17, 16638), (Start: 51 @16794 has 121 MA's), (Start: 54 @16803 has 16 MA's), (74, 16866), (78, 16899), (87, 16974), (88, 16977),

Gene: Jahseh_24 Start: 16780, Stop: 16998, Start Num: 51

Candidate Starts for Jahseh_24:

(Start: 51 @16780 has 121 MA's), (Start: 54 @16789 has 16 MA's), (74, 16852), (87, 16960), (88, 16963), (92, 16984),

Gene: JaimeB_24 Start: 16857, Stop: 17075, Start Num: 51

Candidate Starts for JaimeB_24:

(Start: 51 @16857 has 121 MA's), (Start: 54 @16866 has 16 MA's), (74, 16929), (87, 17037), (88, 17040), (92, 17061),

Gene: Jannah_24 Start: 16840, Stop: 17058, Start Num: 51

Candidate Starts for Jannah_24:

(Start: 51 @16840 has 121 MA's), (Start: 54 @16849 has 16 MA's), (74, 16912), (87, 17020), (88, 17023), (92, 17044),

Gene: Jella_26 Start: 16875, Stop: 17093, Start Num: 51

Candidate Starts for Jella_26:

(Start: 51 @16875 has 121 MA's), (Start: 54 @16884 has 16 MA's), (74, 16947), (87, 17055), (88, 17058), (92, 17079),

Gene: Jerky_24 Start: 16939, Stop: 17157, Start Num: 51

Candidate Starts for Jerky_24:

(15, 16783), (17, 16792), (Start: 51 @16939 has 121 MA's), (Start: 54 @16948 has 16 MA's), (74, 17011), (87, 17119), (88, 17122),

Gene: JoBros_24 Start: 16775, Stop: 16993, Start Num: 51

Candidate Starts for JoBros_24:

(Start: 51 @16775 has 121 MA's), (Start: 54 @16784 has 16 MA's), (74, 16847), (87, 16955), (88, 16958), (92, 16979),

Gene: JooneeDee_24 Start: 16879, Stop: 17097, Start Num: 51

Candidate Starts for JooneeDee_24:

(11, 16708), (13, 16717), (Start: 51 @16879 has 121 MA's), (Start: 54 @16888 has 16 MA's), (74, 16951), (78, 16984), (87, 17059), (88, 17062),

Gene: Josuke_24 Start: 16865, Stop: 17083, Start Num: 51

Candidate Starts for Josuke_24:

(Start: 51 @16865 has 121 MA's), (Start: 54 @16874 has 16 MA's), (74, 16937), (87, 17045), (88, 17048), (92, 17069),

Gene: Julie_41 Start: 30591, Stop: 30806, Start Num: 54

Candidate Starts for Julie_41:

(Start: 54 @30591 has 16 MA's), (69, 30624), (Start: 73 @30636 has 4 MA's), (76, 30657),

Gene: Kaijohn_24 Start: 16837, Stop: 17055, Start Num: 49

Candidate Starts for Kaijohn_24:

(27, 16762), (Start: 49 @16837 has 17 MA's), (Start: 54 @16846 has 16 MA's), (74, 16909), (78, 16942), (82, 16978), (87, 17017), (88, 17020),

Gene: KayPaulus_24 Start: 16867, Stop: 17085, Start Num: 49

Candidate Starts for KayPaulus_24:

(27, 16792), (Start: 49 @16867 has 17 MA's), (Start: 54 @16876 has 16 MA's), (71, 16924), (74, 16939), (78, 16972), (87, 17047), (88, 17050), (92, 17071),

Gene: Kevanna_24 Start: 16853, Stop: 17071, Start Num: 49

Candidate Starts for Kevanna_24:

(Start: 49 @16853 has 17 MA's), (Start: 54 @16862 has 16 MA's), (74, 16925), (87, 17033), (88, 17036),

Gene: KillerTomato_24 Start: 16854, Stop: 17072, Start Num: 49

Candidate Starts for KillerTomato_24:

(Start: 49 @16854 has 17 MA's), (Start: 54 @16863 has 16 MA's), (74, 16926), (87, 17034), (88, 17037),

Gene: Kinbote_50 Start: 36949, Stop: 37146, Start Num: 53

Candidate Starts for Kinbote_50:

(Start: 53 @36949 has 19 MA's), (75, 37012),

Gene: Kojax4_24 Start: 16864, Stop: 17082, Start Num: 51

Candidate Starts for Kojax4_24:

(Start: 51 @16864 has 121 MA's), (Start: 54 @16873 has 16 MA's), (74, 16936), (87, 17044), (88, 17047), (92, 17068),

Gene: Kumotta_34 Start: 26417, Stop: 26599, Start Num: 64

Candidate Starts for Kumotta_34:

(Start: 64 @26417 has 2 MA's),

Gene: KyriosFaba_24 Start: 16774, Stop: 16992, Start Num: 51

Candidate Starts for KyriosFaba_24:

(Start: 51 @16774 has 121 MA's), (Start: 54 @16783 has 16 MA's), (74, 16846), (87, 16954), (88, 16957), (92, 16978),

Gene: LaviMo_24 Start: 16865, Stop: 17083, Start Num: 51

Candidate Starts for LaviMo_24:

(Start: 51 @16865 has 121 MA's), (Start: 54 @16874 has 16 MA's), (74, 16937), (87, 17045), (88, 17048), (92, 17069),

Gene: Leafy_24 Start: 16819, Stop: 17037, Start Num: 49

Candidate Starts for Leafy_24:

(Start: 49 @16819 has 17 MA's), (Start: 54 @16828 has 16 MA's), (74, 16891), (87, 16999), (88, 17002), (92, 17023),

Gene: LemonPepper_24 Start: 16774, Stop: 16992, Start Num: 51

Candidate Starts for LemonPepper_24:

(Start: 51 @16774 has 121 MA's), (Start: 54 @16783 has 16 MA's), (74, 16846), (87, 16954), (88, 16957), (92, 16978),

Gene: LilHazelNut_50 Start: 36949, Stop: 37146, Start Num: 53
Candidate Starts for LilHazelNut_50:
(Start: 53 @36949 has 19 MA's), (75, 37012),

Gene: LionelHutz_24 Start: 16860, Stop: 17078, Start Num: 51
Candidate Starts for LionelHutz_24:
(Start: 51 @16860 has 121 MA's), (Start: 54 @16869 has 16 MA's), (74, 16932), (87, 17040), (88, 17043), (92, 17064),

Gene: Livingwater_24 Start: 16862, Stop: 17080, Start Num: 49
Candidate Starts for Livingwater_24:
(Start: 49 @16862 has 17 MA's), (Start: 54 @16871 has 16 MA's), (74, 16934), (87, 17042), (88, 17045), (92, 17066),

Gene: Loca_24 Start: 16887, Stop: 17105, Start Num: 49
Candidate Starts for Loca_24:
(Start: 49 @16887 has 17 MA's), (Start: 54 @16896 has 16 MA's), (74, 16959), (87, 17067), (88, 17070), (92, 17091),

Gene: Lola20_24 Start: 16800, Stop: 17018, Start Num: 51
Candidate Starts for Lola20_24:
(Start: 51 @16800 has 121 MA's), (Start: 54 @16809 has 16 MA's), (74, 16872), (87, 16980), (88, 16983), (92, 17004),

Gene: Lozinak_98 Start: 60011, Stop: 60211, Start Num: 59
Candidate Starts for Lozinak_98:
(Start: 59 @60011 has 17 MA's), (76, 60068), (77, 60074), (85, 60152), (89, 60167),

Gene: LuckyBarnes_7 Start: 2470, Stop: 2643, Start Num: 67
Candidate Starts for LuckyBarnes_7:
(32, 2371), (35, 2380), (Start: 49 @2419 has 17 MA's), (Start: 67 @2470 has 1 MA's), (72, 2485), (77, 2518), (80, 2560), (84, 2590), (86, 2599), (91, 2620),

Gene: Luke_50 Start: 36904, Stop: 37101, Start Num: 53
Candidate Starts for Luke_50:
(Start: 53 @36904 has 19 MA's), (75, 36967),

Gene: Lunatic_24 Start: 16327, Stop: 16545, Start Num: 51
Candidate Starts for Lunatic_24:
(Start: 51 @16327 has 121 MA's), (Start: 54 @16336 has 16 MA's), (74, 16399), (78, 16432), (87, 16507), (88, 16510),

Gene: Luxx_24 Start: 16875, Stop: 17093, Start Num: 51
Candidate Starts for Luxx_24:
(Start: 51 @16875 has 121 MA's), (Start: 54 @16884 has 16 MA's), (74, 16947), (87, 17055), (88, 17058), (92, 17079),

Gene: Madebyisha_24 Start: 16939, Stop: 17157, Start Num: 51
Candidate Starts for Madebyisha_24:

(15, 16783), (17, 16792), (Start: 51 @16939 has 121 MA's), (Start: 54 @16948 has 16 MA's), (74, 17011), (87, 17119), (88, 17122),

Gene: MagicMan_41 Start: 32979, Stop: 33173, Start Num: 61
Candidate Starts for MagicMan_41:
(Start: 55 @32964 has 3 MA's), (Start: 61 @32979 has 5 MA's), (79, 33063),

Gene: Majesty_24 Start: 16856, Stop: 17074, Start Num: 51
Candidate Starts for Majesty_24:
(Start: 51 @16856 has 121 MA's), (Start: 54 @16865 has 16 MA's), (74, 16928), (87, 17036), (88, 17039), (92, 17060),

Gene: ManAs_24 Start: 16774, Stop: 16992, Start Num: 51
Candidate Starts for ManAs_24:
(Start: 51 @16774 has 121 MA's), (Start: 54 @16783 has 16 MA's), (74, 16846), (87, 16954), (88, 16957), (92, 16978),

Gene: Maneater_24 Start: 16839, Stop: 17057, Start Num: 51
Candidate Starts for Maneater_24:
(Start: 51 @16839 has 121 MA's), (Start: 54 @16848 has 16 MA's), (74, 16911), (87, 17019), (88, 17022), (92, 17043),

Gene: MargaretKali_34 Start: 26052, Stop: 26234, Start Num: 64
Candidate Starts for MargaretKali_34:
(Start: 64 @26052 has 2 MA's),

Gene: Marichuy_25 Start: 16890, Stop: 17108, Start Num: 51
Candidate Starts for Marichuy_25:
(Start: 51 @16890 has 121 MA's), (Start: 54 @16899 has 16 MA's), (74, 16962), (87, 17070), (88, 17073), (92, 17094),

Gene: MasterPitts_24 Start: 16797, Stop: 17015, Start Num: 51
Candidate Starts for MasterPitts_24:
(Start: 51 @16797 has 121 MA's), (Start: 54 @16806 has 16 MA's), (74, 16869), (87, 16977), (88, 16980), (92, 17001),

Gene: Mauilvory_23 Start: 16250, Stop: 16468, Start Num: 51
Candidate Starts for Mauilvory_23:
(Start: 51 @16250 has 121 MA's), (Start: 54 @16259 has 16 MA's), (74, 16322), (78, 16355), (87, 16430), (88, 16433),

Gene: McShie_24 Start: 16846, Stop: 17064, Start Num: 51
Candidate Starts for McShie_24:
(15, 16681), (17, 16690), (Start: 51 @16846 has 121 MA's), (Start: 54 @16855 has 16 MA's), (74, 16918), (78, 16951), (87, 17026), (88, 17029),

Gene: MelBee03_24 Start: 16853, Stop: 17071, Start Num: 49
Candidate Starts for MelBee03_24:
(Start: 49 @16853 has 17 MA's), (Start: 54 @16862 has 16 MA's), (74, 16925), (87, 17033), (88, 17036),

Gene: Miaurora_24 Start: 16444, Stop: 16662, Start Num: 51
Candidate Starts for Miaurora_24:

(Start: 51 @16444 has 121 MA's), (Start: 54 @16453 has 16 MA's), (74, 16516), (78, 16549), (87, 16624), (88, 16627),

Gene: MillySue_43 Start: 30420, Stop: 30635, Start Num: 54
Candidate Starts for MillySue_43:
(Start: 54 @30420 has 16 MA's),

Gene: Minima_24 Start: 16774, Stop: 16992, Start Num: 51
Candidate Starts for Minima_24:
(Start: 51 @16774 has 121 MA's), (Start: 54 @16783 has 16 MA's), (74, 16846), (87, 16954), (88, 16957), (92, 16978),

Gene: MirimarMandM_24 Start: 16922, Stop: 17140, Start Num: 51
Candidate Starts for MirimarMandM_24:
(11, 16751), (13, 16760), (Start: 51 @16922 has 121 MA's), (Start: 54 @16931 has 16 MA's), (74, 16994), (78, 17027), (87, 17102), (88, 17105),

Gene: Miskis_92 Start: 58711, Stop: 58911, Start Num: 59
Candidate Starts for Miskis_92:
(Start: 59 @58711 has 17 MA's), (76, 58768), (77, 58774), (85, 58852), (89, 58867),

Gene: MoRicky_20 Start: 14364, Stop: 14573, Start Num: 55
Candidate Starts for MoRicky_20:
(36, 14313), (46, 14343), (Start: 55 @14364 has 3 MA's), (77, 14439),

Gene: Mollymur_93 Start: 63027, Stop: 62845, Start Num: 65
Candidate Starts for Mollymur_93:
(Start: 65 @63027 has 4 MA's),

Gene: MrGreen_24 Start: 16833, Stop: 17051, Start Num: 49
Candidate Starts for MrGreen_24:
(1, 16536), (5, 16569), (9, 16641), (27, 16758), (Start: 49 @16833 has 17 MA's), (Start: 54 @16842 has 16 MA's), (71, 16890), (74, 16905), (87, 17013), (88, 17016), (92, 17037),

Gene: Myram_24 Start: 16774, Stop: 16992, Start Num: 51
Candidate Starts for Myram_24:
(Start: 51 @16774 has 121 MA's), (Start: 54 @16783 has 16 MA's), (74, 16846), (87, 16954), (88, 16957), (92, 16978),

Gene: Namsahir_26 Start: 16588, Stop: 16806, Start Num: 51
Candidate Starts for Namsahir_26:
(Start: 51 @16588 has 121 MA's), (Start: 54 @16597 has 16 MA's), (74, 16660), (78, 16693), (87, 16768), (88, 16771),

Gene: NeumannU_24 Start: 16857, Stop: 17075, Start Num: 51
Candidate Starts for NeumannU_24:
(Start: 51 @16857 has 121 MA's), (Start: 54 @16866 has 16 MA's), (74, 16929), (87, 17037), (88, 17040), (92, 17061),

Gene: Niffler_24 Start: 16435, Stop: 16653, Start Num: 51
Candidate Starts for Niffler_24:
(11, 16264), (13, 16273), (Start: 51 @16435 has 121 MA's), (Start: 54 @16444 has 16 MA's), (74, 16507), (78, 16540), (87, 16615), (88, 16618),

Gene: Nobel_24 Start: 16461, Stop: 16679, Start Num: 51

Candidate Starts for Nobel_24:

(11, 16290), (13, 16299), (Start: 51 @16461 has 121 MA's), (Start: 54 @16470 has 16 MA's), (74, 16533), (78, 16566), (87, 16641), (88, 16644),

Gene: Noelani_24 Start: 16760, Stop: 16978, Start Num: 48

Candidate Starts for Noelani_24:

(11, 16598), (13, 16607), (28, 16694), (Start: 48 @16760 has 1 MA's), (Start: 53 @16766 has 19 MA's), (Start: 54 @16769 has 16 MA's), (74, 16832), (78, 16865), (82, 16901), (87, 16940), (88, 16943), (91, 16955),

Gene: Norvs_100 Start: 60040, Stop: 60240, Start Num: 59

Candidate Starts for Norvs_100:

(Start: 59 @60040 has 17 MA's), (76, 60097), (77, 60103), (85, 60181), (89, 60196),

Gene: NovoPizza_50 Start: 37432, Stop: 37641, Start Num: 50

Candidate Starts for NovoPizza_50:

(2, 37132), (3, 37138), (4, 37159), (7, 37204), (8, 37207), (10, 37234), (14, 37267), (16, 37273), (18, 37279), (19, 37285), (20, 37309), (21, 37318), (22, 37333), (25, 37339), (26, 37348), (29, 37351), (41, 37411), (Start: 50 @37432 has 3 MA's), (Start: 53 @37441 has 19 MA's), (70, 37477), (79, 37540), (80, 37555),

Gene: OBUpride_50 Start: 36945, Stop: 37142, Start Num: 53

Candidate Starts for OBUpride_50:

(Start: 53 @36945 has 19 MA's), (75, 37008), (77, 37017), (78, 37032),

Gene: Oaklynn_24 Start: 16797, Stop: 17015, Start Num: 51

Candidate Starts for Oaklynn_24:

(Start: 51 @16797 has 121 MA's), (Start: 54 @16806 has 16 MA's), (74, 16869), (78, 16902), (87, 16977), (88, 16980),

Gene: Obliviate_39 Start: 31330, Stop: 31524, Start Num: 54

Candidate Starts for Obliviate_39:

(Start: 54 @31330 has 16 MA's),

Gene: Octopus_24 Start: 16780, Stop: 16998, Start Num: 51

Candidate Starts for Octopus_24:

(Start: 51 @16780 has 121 MA's), (Start: 54 @16789 has 16 MA's), (74, 16852), (87, 16960), (88, 16963), (92, 16984),

Gene: OdetoJoy_24 Start: 16939, Stop: 17157, Start Num: 51

Candidate Starts for OdetoJoy_24:

(15, 16783), (17, 16792), (Start: 51 @16939 has 121 MA's), (Start: 54 @16948 has 16 MA's), (74, 17011), (87, 17119), (88, 17122),

Gene: OneUp_86 Start: 56418, Stop: 56615, Start Num: 59

Candidate Starts for OneUp_86:

(23, 56301), (40, 56376), (45, 56394), (Start: 59 @56418 has 17 MA's), (89, 56574),

Gene: Otwor_24 Start: 16866, Stop: 17084, Start Num: 51

Candidate Starts for Otwor_24:

(Start: 51 @16866 has 121 MA's), (Start: 54 @16875 has 16 MA's), (74, 16938), (87, 17046), (88, 17049), (92, 17070),

Gene: Owens_24 Start: 16857, Stop: 17075, Start Num: 51

Candidate Starts for Owens_24:

(Start: 51 @16857 has 121 MA's), (Start: 54 @16866 has 16 MA's), (74, 16929), (87, 17037), (88, 17040), (92, 17061),

Gene: PaoPu_24 Start: 16774, Stop: 16992, Start Num: 51

Candidate Starts for PaoPu_24:

(Start: 51 @16774 has 121 MA's), (Start: 54 @16783 has 16 MA's), (74, 16846), (87, 16954), (88, 16957), (92, 16978),

Gene: Petra_40 Start: 31689, Stop: 31883, Start Num: 54

Candidate Starts for Petra_40:

(Start: 54 @31689 has 16 MA's),

Gene: PhinkBoden_97 Start: 59801, Stop: 60001, Start Num: 59

Candidate Starts for PhinkBoden_97:

(Start: 59 @59801 has 17 MA's), (76, 59858), (77, 59864), (85, 59942), (89, 59957),

Gene: Picconator_24 Start: 16857, Stop: 17075, Start Num: 51

Candidate Starts for Picconator_24:

(Start: 51 @16857 has 121 MA's), (Start: 54 @16866 has 16 MA's), (74, 16929), (87, 17037), (88, 17040), (92, 17061),

Gene: Picnic_24 Start: 16774, Stop: 16992, Start Num: 51

Candidate Starts for Picnic_24:

(Start: 51 @16774 has 121 MA's), (Start: 54 @16783 has 16 MA's), (74, 16846), (87, 16954), (88, 16957), (92, 16978),

Gene: Pigu_35 Start: 25613, Stop: 25792, Start Num: 65

Candidate Starts for Pigu_35:

(6, 25346), (Start: 65 @25613 has 4 MA's), (75, 25652),

Gene: Piku_16 Start: 12727, Stop: 12912, Start Num: 73

Candidate Starts for Piku_16:

(68, 12712), (Start: 73 @12727 has 4 MA's), (93, 12898),

Gene: PoRanda_24 Start: 16922, Stop: 17140, Start Num: 51

Candidate Starts for PoRanda_24:

(11, 16751), (13, 16760), (Start: 51 @16922 has 121 MA's), (Start: 54 @16931 has 16 MA's), (74, 16994), (78, 17027), (87, 17102), (88, 17105),

Gene: Pondwater_24 Start: 16774, Stop: 16992, Start Num: 51

Candidate Starts for Pondwater_24:

(Start: 51 @16774 has 121 MA's), (Start: 54 @16783 has 16 MA's), (74, 16846), (87, 16954), (88, 16957), (92, 16978),

Gene: Popper_42 Start: 30120, Stop: 30374, Start Num: 50

Candidate Starts for Popper_42:

(Start: 50 @30120 has 3 MA's), (Start: 62 @30156 has 1 MA's), (78, 30225), (82, 30264), (90, 30315),

Gene: Publix_25 Start: 16588, Stop: 16806, Start Num: 51

Candidate Starts for Publix_25:

(Start: 51 @16588 has 121 MA's), (Start: 54 @16597 has 16 MA's), (74, 16660), (78, 16693), (87, 16768), (88, 16771),

Gene: Puddles3_24 Start: 16774, Stop: 16992, Start Num: 51

Candidate Starts for Puddles3_24:

(Start: 51 @16774 has 121 MA's), (Start: 54 @16783 has 16 MA's), (74, 16846), (87, 16954), (88, 16957), (92, 16978),

Gene: PuffyCat_24 Start: 16378, Stop: 16596, Start Num: 51

Candidate Starts for PuffyCat_24:

(Start: 51 @16378 has 121 MA's), (Start: 54 @16387 has 16 MA's), (74, 16450), (78, 16483), (87, 16558), (88, 16561),

Gene: Quaker_24 Start: 16862, Stop: 17080, Start Num: 49

Candidate Starts for Quaker_24:

(Start: 49 @16862 has 17 MA's), (Start: 54 @16871 has 16 MA's), (74, 16934), (87, 17042), (88, 17045), (92, 17066),

Gene: QuinnAvery_44 Start: 31024, Stop: 31239, Start Num: 54

Candidate Starts for QuinnAvery_44:

(Start: 54 @31024 has 16 MA's),

Gene: Rhogar_24 Start: 16860, Stop: 17078, Start Num: 51

Candidate Starts for Rhogar_24:

(Start: 51 @16860 has 121 MA's), (Start: 54 @16869 has 16 MA's), (74, 16932), (87, 17040), (88, 17043), (92, 17064),

Gene: Rhysand_24 Start: 16865, Stop: 17083, Start Num: 51

Candidate Starts for Rhysand_24:

(Start: 51 @16865 has 121 MA's), (Start: 54 @16874 has 16 MA's), (74, 16937), (87, 17045), (88, 17048), (92, 17069),

Gene: Rira_24 Start: 16383, Stop: 16601, Start Num: 51

Candidate Starts for Rira_24:

(Start: 51 @16383 has 121 MA's), (Start: 54 @16392 has 16 MA's), (74, 16455), (78, 16488), (87, 16563), (88, 16566),

Gene: RoscoWindex_24 Start: 16865, Stop: 17083, Start Num: 51

Candidate Starts for RoscoWindex_24:

(Start: 51 @16865 has 121 MA's), (Start: 54 @16874 has 16 MA's), (74, 16937), (87, 17045), (88, 17048), (92, 17069),

Gene: Sachet_24 Start: 16774, Stop: 16992, Start Num: 51

Candidate Starts for Sachet_24:

(Start: 51 @16774 has 121 MA's), (Start: 54 @16783 has 16 MA's), (74, 16846), (87, 16954), (88, 16957), (92, 16978),

Gene: Sage7_24 Start: 16864, Stop: 17082, Start Num: 51

Candidate Starts for Sage7_24:

(Start: 51 @16864 has 121 MA's), (Start: 54 @16873 has 16 MA's), (74, 16936), (87, 17044), (88, 17047), (92, 17068),

Gene: SantasSleigh_24 Start: 16888, Stop: 17106, Start Num: 51
Candidate Starts for SantasSleigh_24:
(Start: 51 @16888 has 121 MA's), (Start: 54 @16897 has 16 MA's), (74, 16960), (87, 17068), (88, 17071), (92, 17092),

Gene: Sara_24 Start: 16774, Stop: 16992, Start Num: 51
Candidate Starts for Sara_24:
(Start: 51 @16774 has 121 MA's), (Start: 54 @16783 has 16 MA's), (74, 16846), (87, 16954), (88, 16957), (92, 16978),

Gene: Scamander_24 Start: 16864, Stop: 17082, Start Num: 51
Candidate Starts for Scamander_24:
(Start: 51 @16864 has 121 MA's), (Start: 54 @16873 has 16 MA's), (74, 16936), (87, 17044), (88, 17047), (92, 17068),

Gene: Schism_46 Start: 30955, Stop: 31170, Start Num: 54
Candidate Starts for Schism_46:
(Start: 54 @30955 has 16 MA's),

Gene: Schnabeltier_41 Start: 32611, Stop: 32805, Start Num: 61
Candidate Starts for Schnabeltier_41:
(Start: 61 @32611 has 5 MA's), (74, 32650), (79, 32695),

Gene: Scrunchy_24 Start: 16857, Stop: 17075, Start Num: 51
Candidate Starts for Scrunchy_24:
(Start: 51 @16857 has 121 MA's), (Start: 54 @16866 has 16 MA's), (74, 16929), (87, 17037), (88, 17040), (92, 17061),

Gene: SeaWolves_24 Start: 16774, Stop: 16992, Start Num: 51
Candidate Starts for SeaWolves_24:
(Start: 51 @16774 has 121 MA's), (Start: 54 @16783 has 16 MA's), (74, 16846), (87, 16954), (88, 16957), (92, 16978),

Gene: Shambre1_51 Start: 32314, Stop: 32526, Start Num: 53
Candidate Starts for Shambre1_51:
(Start: 53 @32314 has 19 MA's),

Gene: Sippinontea_24 Start: 16885, Stop: 17103, Start Num: 49
Candidate Starts for Sippinontea_24:
(27, 16810), (Start: 49 @16885 has 17 MA's), (Start: 54 @16894 has 16 MA's), (71, 16942), (74, 16957), (78, 16990), (87, 17065), (88, 17068), (92, 17089),

Gene: Slentz_24 Start: 16857, Stop: 17075, Start Num: 51
Candidate Starts for Slentz_24:
(Start: 51 @16857 has 121 MA's), (Start: 54 @16866 has 16 MA's), (74, 16929), (87, 17037), (88, 17040), (92, 17061),

Gene: Slizam_24 Start: 16383, Stop: 16601, Start Num: 51
Candidate Starts for Slizam_24:
(Start: 51 @16383 has 121 MA's), (Start: 54 @16392 has 16 MA's), (74, 16455), (78, 16488), (87, 16563), (88, 16566),

Gene: Smilerella_20 Start: 14454, Stop: 14663, Start Num: 55
Candidate Starts for Smilerella_20:
(36, 14403), (46, 14433), (Start: 55 @14454 has 3 MA's), (77, 14529),

Gene: Smoothie_99 Start: 60011, Stop: 60211, Start Num: 59
Candidate Starts for Smoothie_99:
(Start: 59 @60011 has 17 MA's), (76, 60068), (77, 60074), (85, 60152), (89, 60167),

Gene: Snuffles_26 Start: 16736, Stop: 16954, Start Num: 51
Candidate Starts for Snuffles_26:
(Start: 51 @16736 has 121 MA's), (Start: 54 @16745 has 16 MA's), (74, 16808), (78, 16841), (87, 16916), (88, 16919),

Gene: SpeedDemon_940 Start: 64127, Stop: 63927, Start Num: 60
Candidate Starts for SpeedDemon_940:
(Start: 60 @64127 has 3 MA's), (66, 64112), (77, 64067), (83, 64016),

Gene: Stem_24 Start: 16393, Stop: 16611, Start Num: 51
Candidate Starts for Stem_24:
(11, 16222), (13, 16231), (Start: 51 @16393 has 121 MA's), (Start: 54 @16402 has 16 MA's), (74, 16465), (78, 16498), (87, 16573), (88, 16576),

Gene: TeddyBoy_24 Start: 16861, Stop: 17079, Start Num: 51
Candidate Starts for TeddyBoy_24:
(Start: 51 @16861 has 121 MA's), (Start: 54 @16870 has 16 MA's), (74, 16933), (87, 17041), (88, 17044), (92, 17065),

Gene: TimoTea_24 Start: 16839, Stop: 17057, Start Num: 51
Candidate Starts for TimoTea_24:
(Start: 51 @16839 has 121 MA's), (Start: 54 @16848 has 16 MA's), (74, 16911), (87, 17019), (88, 17022), (92, 17043),

Gene: TinyTruffula_24 Start: 16462, Stop: 16680, Start Num: 51
Candidate Starts for TinyTruffula_24:
(Start: 51 @16462 has 121 MA's), (Start: 54 @16471 has 16 MA's), (74, 16534), (78, 16567), (87, 16642), (88, 16645),

Gene: TlaliMex_26 Start: 16949, Stop: 17167, Start Num: 51
Candidate Starts for TlaliMex_26:
(Start: 51 @16949 has 121 MA's), (Start: 54 @16958 has 16 MA's), (74, 17021), (78, 17054), (87, 17129), (88, 17132),

Gene: TomBrady12_25 Start: 16565, Stop: 16783, Start Num: 51
Candidate Starts for TomBrady12_25:
(Start: 51 @16565 has 121 MA's), (Start: 54 @16574 has 16 MA's), (74, 16637), (78, 16670), (87, 16745), (88, 16748),

Gene: Toniann_100 Start: 59980, Stop: 60180, Start Num: 59
Candidate Starts for Toniann_100:
(Start: 59 @59980 has 17 MA's), (76, 60037), (77, 60043), (85, 60121), (89, 60136),

Gene: Towmatter_82 Start: 57951, Stop: 57769, Start Num: 65
Candidate Starts for Towmatter_82:

(Start: 65 @57951 has 4 MA's), (81, 57861), (84, 57834),

Gene: Toxicola_26 Start: 16713, Stop: 16931, Start Num: 49

Candidate Starts for Toxicola_26:

(27, 16638), (Start: 49 @16713 has 17 MA's), (Start: 54 @16722 has 16 MA's), (71, 16770), (74, 16785), (87, 16893), (88, 16896), (92, 16917),

Gene: Trackstar_24 Start: 16445, Stop: 16663, Start Num: 51

Candidate Starts for Trackstar_24:

(Start: 51 @16445 has 121 MA's), (Start: 54 @16454 has 16 MA's), (74, 16517), (78, 16550), (87, 16625), (88, 16628),

Gene: Trireme_24 Start: 16442, Stop: 16660, Start Num: 51

Candidate Starts for Trireme_24:

(Start: 51 @16442 has 121 MA's), (Start: 54 @16451 has 16 MA's), (74, 16514), (78, 16547), (87, 16622), (88, 16625),

Gene: Tyrellus_24 Start: 16857, Stop: 17075, Start Num: 51

Candidate Starts for Tyrellus_24:

(Start: 51 @16857 has 121 MA's), (Start: 54 @16866 has 16 MA's), (74, 16929), (87, 17037), (88, 17040), (92, 17061),

Gene: Ubuntu_50 Start: 36949, Stop: 37146, Start Num: 53

Candidate Starts for Ubuntu_50:

(Start: 53 @36949 has 19 MA's), (75, 37012),

Gene: UmaThurman_37 Start: 31748, Stop: 31954, Start Num: 53

Candidate Starts for UmaThurman_37:

(12, 31565), (22, 31640), (30, 31670), (39, 31712), (Start: 53 @31748 has 19 MA's), (57, 31760), (76, 31826), (90, 31934), (91, 31937),

Gene: Upsilon_24 Start: 16922, Stop: 17140, Start Num: 51

Candidate Starts for Upsilon_24:

(11, 16751), (13, 16760), (Start: 51 @16922 has 121 MA's), (Start: 54 @16931 has 16 MA's), (74, 16994), (78, 17027), (87, 17102), (88, 17105),

Gene: Utopia_16 Start: 12698, Stop: 12883, Start Num: 73

Candidate Starts for Utopia_16:

(68, 12683), (Start: 73 @12698 has 4 MA's), (93, 12869),

Gene: Vanisius_24 Start: 16865, Stop: 17083, Start Num: 51

Candidate Starts for Vanisius_24:

(Start: 51 @16865 has 121 MA's), (Start: 54 @16874 has 16 MA's), (74, 16937), (87, 17045), (88, 17048), (92, 17069),

Gene: VitulaEligans_24 Start: 16946, Stop: 17164, Start Num: 51

Candidate Starts for VitulaEligans_24:

(15, 16790), (17, 16799), (Start: 51 @16946 has 121 MA's), (Start: 54 @16955 has 16 MA's), (74, 17018), (87, 17126), (88, 17129),

Gene: WST1_38 Start: 27336, Stop: 27560, Start Num: 44

Candidate Starts for WST1_38:

(Start: 44 @27336 has 2 MA's),

Gene: Webster2_50 Start: 36949, Stop: 37146, Start Num: 53

Candidate Starts for Webster2_50:

(Start: 53 @36949 has 19 MA's), (75, 37012),

Gene: Whytu_16 Start: 12793, Stop: 12978, Start Num: 73

Candidate Starts for Whytu_16:

(58, 12757), (68, 12778), (Start: 73 @12793 has 4 MA's), (93, 12964),

Gene: WilliamBoone_100 Start: 58743, Stop: 58943, Start Num: 59

Candidate Starts for WilliamBoone_100:

(Start: 59 @58743 has 17 MA's), (82, 58854), (84, 58878),

Gene: Witch_24 Start: 16775, Stop: 16993, Start Num: 51

Candidate Starts for Witch_24:

(Start: 51 @16775 has 121 MA's), (Start: 54 @16784 has 16 MA's), (74, 16847), (87, 16955), (88, 16958), (92, 16979),

Gene: Wolfpack_24 Start: 16867, Stop: 17085, Start Num: 49

Candidate Starts for Wolfpack_24:

(27, 16792), (Start: 49 @16867 has 17 MA's), (Start: 54 @16876 has 16 MA's), (71, 16924), (74, 16939), (78, 16972), (87, 17047), (88, 17050), (92, 17071),

Gene: Yami_24 Start: 16336, Stop: 16554, Start Num: 51

Candidate Starts for Yami_24:

(Start: 51 @16336 has 121 MA's), (Start: 54 @16345 has 16 MA's), (74, 16408), (78, 16441), (87, 16516), (88, 16519),

Gene: Yasuo_24 Start: 16845, Stop: 17063, Start Num: 51

Candidate Starts for Yasuo_24:

(Start: 51 @16845 has 121 MA's), (Start: 54 @16854 has 16 MA's), (74, 16917), (87, 17025), (88, 17028), (92, 17049),

Gene: Yavru_16 Start: 12688, Stop: 12873, Start Num: 73

Candidate Starts for Yavru_16:

(68, 12673), (Start: 73 @12688 has 4 MA's), (93, 12859),

Gene: YertPhresh_24 Start: 16774, Stop: 16992, Start Num: 51

Candidate Starts for YertPhresh_24:

(Start: 51 @16774 has 121 MA's), (Start: 54 @16783 has 16 MA's), (74, 16846), (87, 16954), (88, 16957), (92, 16978),

Gene: Yubaba_24 Start: 16808, Stop: 17026, Start Num: 51

Candidate Starts for Yubaba_24:

(Start: 51 @16808 has 121 MA's), (Start: 54 @16817 has 16 MA's), (74, 16880), (87, 16988), (88, 16991), (92, 17012),

Gene: ZAYM_43 Start: 32247, Stop: 32456, Start Num: 44

Candidate Starts for ZAYM_43:

(36, 32220), (Start: 44 @32247 has 2 MA's),

Gene: Zaheer_44 Start: 31390, Stop: 31605, Start Num: 54

Candidate Starts for Zaheer_44:

(Start: 54 @31390 has 16 MA's),

Gene: Zahlia_24 Start: 16893, Stop: 17111, Start Num: 51

Candidate Starts for Zahlia_24:

(Start: 51 @16893 has 121 MA's), (Start: 54 @16902 has 16 MA's), (74, 16965), (87, 17073), (88, 17076), (92, 17097),

Gene: Zarbodnamra_42 Start: 32451, Stop: 32645, Start Num: 54

Candidate Starts for Zarbodnamra_42:

(Start: 54 @32451 has 16 MA's),

Gene: Zilla_41 Start: 32198, Stop: 32392, Start Num: 54

Candidate Starts for Zilla_41:

(Start: 54 @32198 has 16 MA's),