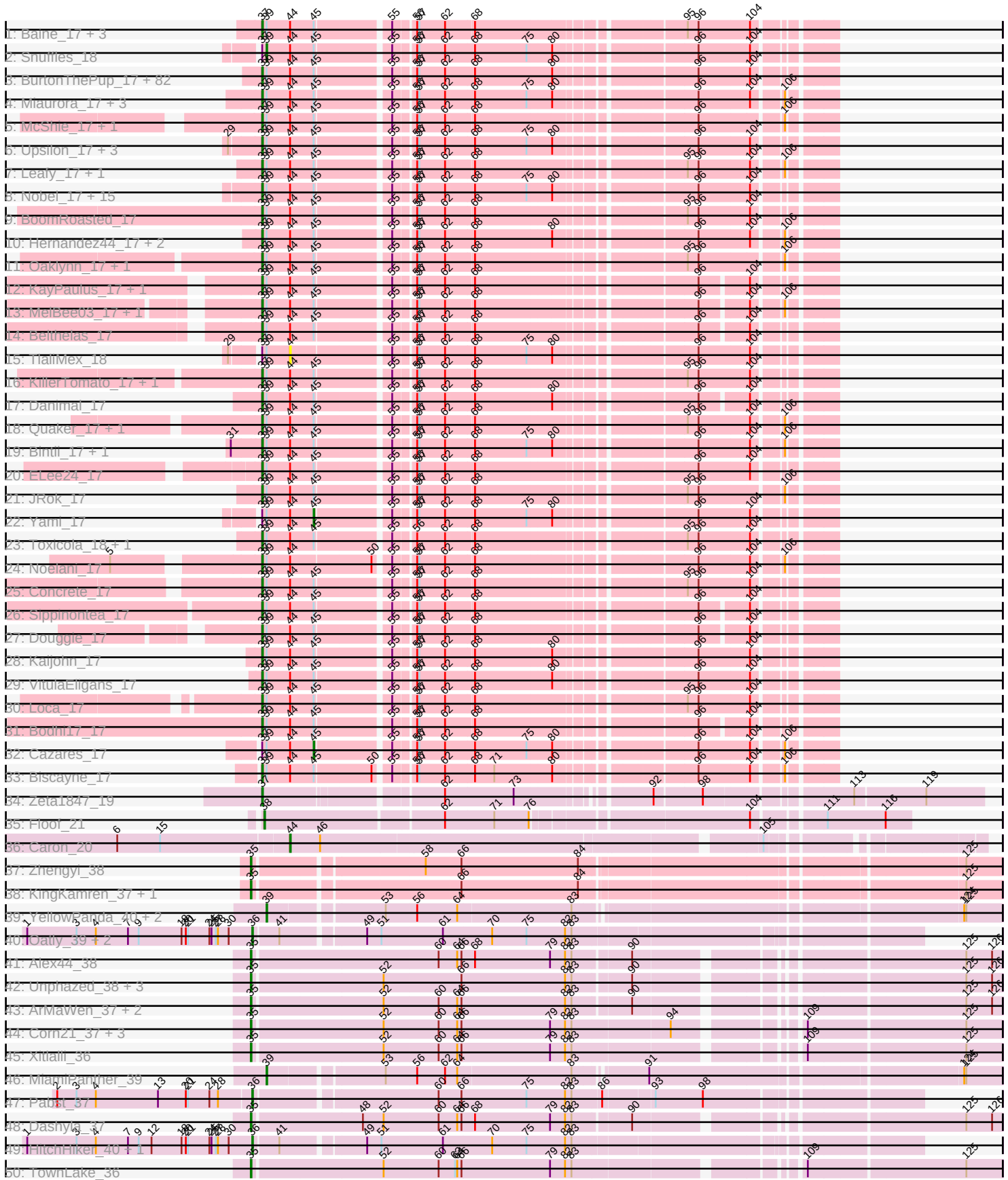
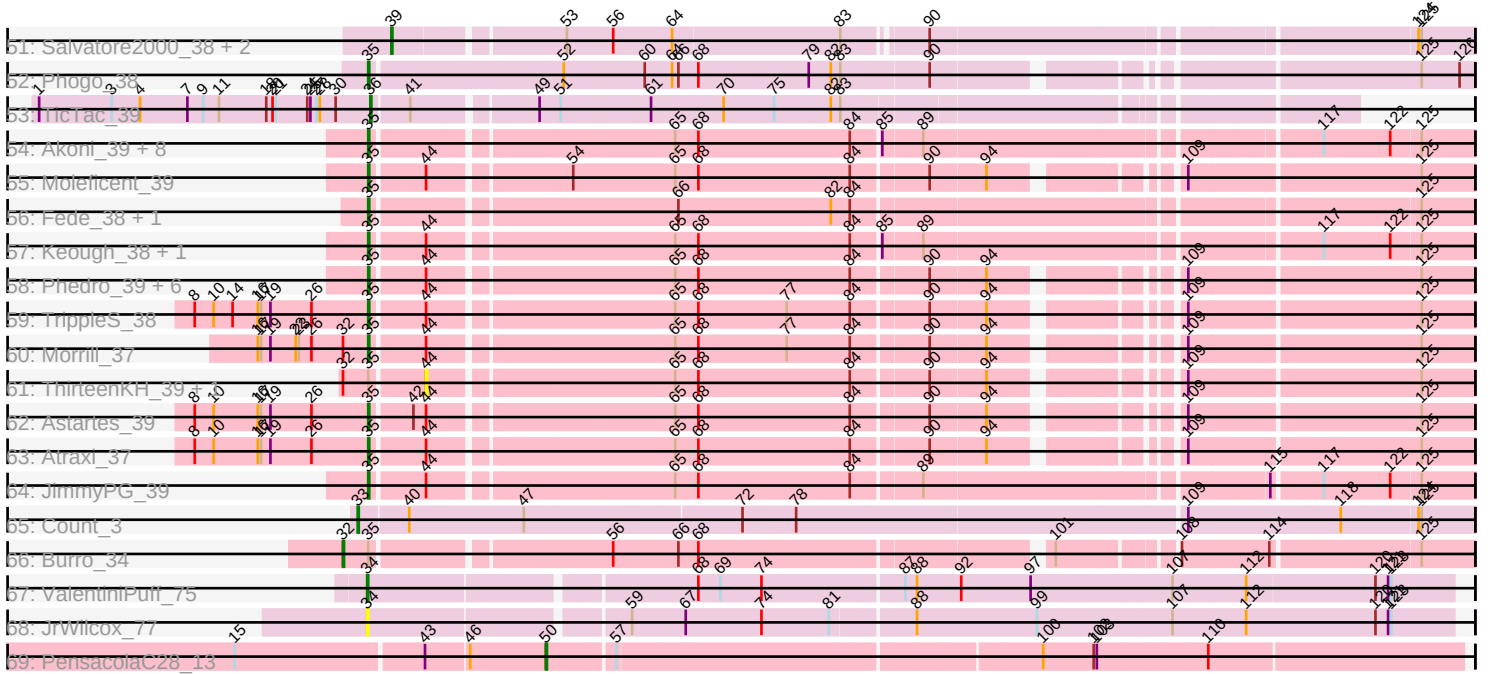




Pham 330476



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 330476 Report

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

Pham number 330476 has 219 members, 17 are drafts.

Phages represented in each track:

- Track 1 : Baine_17, Lola20_17, Anseraureola_17, Cayde6_17
- Track 2 : Snuffles_18
- Track 3 : BurtonThePup_17, MasterPitts_17, JaimeB_17, Grayscar_17, Madebyisha_17, Otwor_17, Goobery_17, Alucard_17, YertPhresh_17, LionelHutz_17, Gabbspett_17, Puddles3_17, Jannah_17, Rhogar_17, Bradley2_17, Horacetta_17, SeaWolves_17, Owens_17, Octopus_17, EdElric_17, HeadMave_17, Erin_17, Rhysand_17, Tyrellus_17, Ciel_17, Jahseh_17, PaoPu_17, Danno_17, NeumannU_17, BinkBonk_17, TimoTea_17, Hulk_17, SantasSleigh_17, Josuke_17, Chatham_17, Dooby_17, DirtPie_17, Duggle_18, Slentz_17, Godfather_17, BarBear_17, Charbie_17, GoldenBlanche_17, Aztec_17, Picnic_17, Scrunchy_17, Cheesecake_17, Eightball_17, Minima_17, LemonPepper_17, ManAs_17, Aries55_17, Jerky_17, KyriosFaba_17, Maneater_17, Gillker_17, Scamander_17, Pondwater_17, Gardevoir_17, Vanisius_17, Sachet_17, Majesty_17, Picconator_17, Sage7_17, JoBros_17, Kojax4_17, Astro16_17, OdetoJoy_17, RoscoWindex_17, TeddyBoy_17, Goulash_17, LaviMo_17, Yasuo_17, Zahlia_17, Marichuy_18, Myram_17, Dongwon_17, Avvas_17, Burgy_17, DaftyDuck_17, Sara_17, Witch_17, Yubaba_17
- Track 4 : Miaurora_17, Lunatic_17, Trackstar_17, Trireme_17
- Track 5 : McShie_17, BrokMonster_17
- Track 6 : Upsilon_17, MirimarMandM_17, Mauilvory_17, PoRanda_17
- Track 7 : Leafy_17, Abelaine_18
- Track 8 : Nobel_17, Publix_17, Namsahir_18, Stem_17, PuffyCat_17, Rira_17, Ekko14_17, Bullzi2019_17, TinyTruffula_17, HarperAnne_17, Clownery_17, IzzyPants24_17, Elspeth_17, Niffler_17, TomBrady12_17, Slizam_17
- Track 9 : BoomRoasted_17
- Track 10 : Hernandez44_17, Luxx_17, Jella_18
- Track 11 : Oaklynn_17, Azizam_17
- Track 12 : KayPaulus_17, Wolfpack_17
- Track 13 : MelBee03_17, Kevanna_17
- Track 14 : Belthelas_17
- Track 15 : TlaliMex_18
- Track 16 : KillerTomato_17, Bri160_17
- Track 17 : Danimal_17
- Track 18 : Quaker_17, Livingwater_17
- Track 19 : Bintii_17, JooneeDee_17
- Track 20 : ELee24_17
- Track 21 : JRok_17

- Track 22 : Yami_17
- Track 23 : Toxicola_18, MrGreen_17
- Track 24 : Noelani_17
- Track 25 : Concrete_17
- Track 26 : Sippinontea_17
- Track 27 : Douggie_17
- Track 28 : Kaijohn_17
- Track 29 : VitulaEligans_17
- Track 30 : Loca_17
- Track 31 : Bodhi17_17
- Track 32 : Cazares_17
- Track 33 : Biscayne_17
- Track 34 : Zeta1847_19
- Track 35 : Floof_21
- Track 36 : Caron_20
- Track 37 : Zhengyi_38
- Track 38 : KingKamren_37, EugeneKrabs_38
- Track 39 : YellowPanda_40, TinyTimothy_37, JessellCookie_39
- Track 40 : Oatly_39, PineapplePluto_40, CrunchyBoi_40
- Track 41 : Alex44_38
- Track 42 : Unphazed_38, DumpQuist_37, Birdfeeder_36, SwissCheezer_37
- Track 43 : ArMaWen_37, Stormbreaker_38, LilyLou_39
- Track 44 : Corn21_37, BlueRugrat_37, LesNorah_38, Conditioner_37
- Track 45 : Xitlalli_36
- Track 46 : MiamiPanther_39
- Track 47 : Pabst_37
- Track 48 : Dashyla_37
- Track 49 : HitchHiker_40, Biozilla_39
- Track 50 : TownLake_36
- Track 51 : Salvatore2000_38, Wesak_38, Sorvannah_38
- Track 52 : Phogo_38
- Track 53 : TicTac_39
- Track 54 : Akoni_39, Ashton_40, SoilSleuth_41, Truong_39, ShyRosie_39, JordanFarm_41, Waterlily_42, AloeVera_40, Barroma_38
- Track 55 : Moleficent_39
- Track 56 : Fede_38, Kosier_38
- Track 57 : Keough_38, Mazun_40
- Track 58 : Phedro_39, PhriedRice_40, Pharky_39, Phracted_39, Fullmetal_39, RicoCaldo_39, StagePhright_39
- Track 59 : TrippleS_38
- Track 60 : Morrill_37
- Track 61 : ThirteenKH_39, Yafa_40
- Track 62 : Astartes_39
- Track 63 : Atraxi_37
- Track 64 : JimmyPG_39
- Track 65 : Count_3
- Track 66 : Burro_34
- Track 67 : ValentiniPuff_75
- Track 68 : JrWilcox_77
- Track 69 : PensacolaC28_13

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

The start number called the most often in the published annotations is 37, it was called in 140 of the 202 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Abelaïne_18, Alucard_17, Anseraureola_17, Aries55_17, Astro16_17, Avvas_17, Azizam_17, Aztec_17, Baine_17, BarBear_17, Belthelas_17, BinkBonk_17, Binti_17, Biscayne_17, Bodhi_17, BoomRoasted_17, Bradley2_17, Bri160_17, BrokMonster_17, Bullzi2019_17, Burgy_17, BurtonThePup_17, Cayde6_17, Charbie_17, Chatham_17, Cheesecake_17, Ciel_17, Clownery_17, Concrete_17, DaftyDuck_17, Danimal_17, Danno_17, DirtPie_17, Dongwon_17, Dooby_17, Duggie_17, Duggle_18, ELee24_17, EdElric_17, Eightball_17, Ekko14_17, Elspeth_17, Erin_17, Gabbspett_17, Gardevoir_17, Gillker_17, Godfather_17, GoldenBlanche_17, Goobery_17, Goulash_17, Grayscar_17, HarperAnne_17, HeadMave_17, Hernandez44_17, Horacetta_17, Hulk_17, IzzyPants24_17, JRok_17, Jahseh_17, JaimeB_17, Jannah_17, Jella_18, Jerky_17, JoBros_17, JooneeDee_17, Josuke_17, Kaijohn_17, KayPaulus_17, Kevanna_17, KillerTomato_17, Kojax4_17, KyriosFaba_17, LaviMo_17, Leafy_17, LemonPepper_17, LionelHutz_17, Livingwater_17, Loca_17, Lola20_17, Lunatic_17, Luxx_17, Madebyisha_17, Majesty_17, ManAs_17, Maneater_17, Marichuy_18, MasterPitts_17, Mauilvory_17, McShie_17, MelBee03_17, Miaurora_17, Minima_17, MirimarMandM_17, MrGreen_17, Myram_17, Namsahir_18, NeumannU_17, Niffler_17, Nobel_17, Noelani_17, Oaklynn_17, Octopus_17, OdetoJoy_17, Otwor_17, Owens_17, PaoPu_17, Picconator_17, Picnic_17, PoRanda_17, Pondwater_17, Publix_17, Puddles3_17, PuffyCat_17, Quaker_17, Rhogar_17, Rhysand_17, Rira_17, RoscoWindex_17, Sachet_17, Sage7_17, SantasSleigh_17, Sara_17, Scamander_17, Scrunchy_17, SeaWolves_17, Sippinontea_17, Slentz_17, Slizam_17, Stem_17, TeddyBoy_17, TimoTea_17, TinyTruffula_17, TomBrady12_17, Toxicola_18, Trackstar_17, Trireme_17, Tyrellus_17, Upsilon_17, Vanisius_17, VitulaEligans_17, Witch_17, Wolfpack_17, Yasuo_17, YertPhresh_17, Yubaba_17, Zahlia_17, Zeta1847_19,

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

- Cazares_17, Snuffles_18, TlaliMex_18, Yami_17,

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

- Akoni_39, Alex44_38, AloeVera_40, ArMaWen_37, Ashton_40, Astartes_39, Atraxi_37, Barroma_38, Biozilla_39, Birdfeeder_36, BlueRugrat_37, Burro_34, Caron_20, Conditioner_37, Corn21_37, Count_3, CrunchyBoi_40, Dashyla_37, DumpQuist_37, EugeneKrabs_38, Fede_38, Floof_21, Fullmetal_39, HitchHiker_40, JessellCookie_39, JimmyPG_39, JordanFarm_41, JrWilcox_77, Keough_38, KingKamren_37, Kosier_38, LesNorah_38, LilyLou_39, Mazun_40, MiamiPanther_39, Moleficent_39, Morrill_37, Oatly_39, Pabst_37, PensacolaC28_13, Pharky_39, Phedro_39, Phogo_38, Phracted_39, PhriedRice_40, PineapplePluto_40, RicoCaldo_39, Salvatore2000_38, ShyRosie_39, SoilSleuth_41, Sorvannah_38, StagePhright_39, Stormbreaker_38, SwissCheezer_37, ThirteenKH_39, TicTac_39, TinyTimothy_37, TownLake_36, TrippleS_38, Truong_39, Unphazed_38, ValentiniPuff_75, Waterlily_42, Wesak_38, Xitlalli_36, Yafa_40, YellowPanda_40, Zhengyi_38,

Summary by start number:

Start 32:

- Found in 4 of 219 (1.8%) of genes in pham
- Manual Annotations of this start: 1 of 202
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Burro_34 (EM1),

Start 33:

- Found in 1 of 219 (0.5%) of genes in pham
- Manual Annotations of this start: 1 of 202
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Count_3 (EL),

Start 34:

- Found in 2 of 219 (0.9%) of genes in pham
- Manual Annotations of this start: 1 of 202
- Called 100.0% of time when present
- Phage (with cluster) where this start called: JrWilcox_77 (GL), ValentiniPuff_75 (GL),

Start 35:

- Found in 48 of 219 (21.9%) of genes in pham
- Manual Annotations of this start: 41 of 202
- Called 93.8% of time when present
- Phage (with cluster) where this start called: Akoni_39 (EK2), Alex44_38 (EK1), AloeVera_40 (EK2), ArMaWen_37 (EK1), Ashton_40 (EK2), Astartes_39 (EK2), Atraxi_37 (EK2), Barroma_38 (EK2), Birdfeeder_36 (EK1), BlueRugrat_37 (EK1), Conditioner_37 (EK1), Corn21_37 (EK1), Dashyla_37 (EK1), DumpQuist_37 (EK1), EugeneKrabs_38 (EK), Fede_38 (EK2), Fullmetal_39 (EK2), JimmyPG_39 (EK2), JordanFarm_41 (EK2), Keough_38 (EK2), KingKamren_37 (EK), Kosier_38 (EK2), LesNorah_38 (EK1), LilyLou_39 (EK1), Mazun_40 (EK2), Moleficent_39 (EK2), Morrill_37 (EK2), Pharky_39 (EK2), Phedro_39 (EK2), Phogo_38 (EK1), Phraptured_39 (EK2), PhriedRice_40 (EK2), RicoCaldo_39 (EK2), ShyRosie_39 (EK2), SoilSleuth_41 (EK2), StagePhright_39 (EK2), Stormbreaker_38 (EK1), SwissCheezer_37 (EK1), TownLake_36 (EK1), TrippleS_38 (EK2), Truong_39 (EK2), Unphazed_38 (EK1), Waterlily_42 (EK2), Xitlalli_36 (EK1), Zhengyi_38 (EK),

Start 36:

- Found in 7 of 219 (3.2%) of genes in pham
- Manual Annotations of this start: 7 of 202
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Biozilla_39 (EK1), CrunchyBoi_40 (EK1), HitchHiker_40 (EK1), Oatly_39 (EK1), Pabst_37 (EK1), PineapplePluto_40 (EK1), TicTac_39 (EK1),

Start 37:

- Found in 151 of 219 (68.9%) of genes in pham
- Manual Annotations of this start: 140 of 202
- Called 97.4% of time when present
- Phage (with cluster) where this start called: Abelaine_18 (EE), Alucard_17 (EE), Anseraureola_17 (EE), Aries55_17 (EE), Astro16_17 (EE), Avvas_17 (EE), Azizam_17 (EE), Aztec_17 (EE), Baine_17 (EE), BarBear_17 (EE), Belthelas_17 (EE), BinkBonk_17 (EE), Bintii_17 (EE), Biscayne_17 (EE), Bodhi17_17 (EE), BoomRoasted_17 (EE), Bradley2_17 (EE), Bri160_17 (EE), BrokMonster_17 (EE),

Bullzi2019_17 (EE), Burgy_17 (EE), BurtonThePup_17 (EE), Cayde6_17 (EE), Charbie_17 (EE), Chatham_17 (EE), Cheesecake_17 (EE), Ciel_17 (EE), Clownery_17 (EE), Concrete_17 (EE), DaftyDuck_17 (EE), Danimal_17 (EE), Danno_17 (EE), DirtPie_17 (EE), Dongwon_17 (EE), Dooby_17 (EE), Douggie_17 (EE), Duggle_18 (EE), ELee24_17 (EE), EdElric_17 (EE), Eightball_17 (EE), Ekko14_17 (EE), Elspeth_17 (EE), Erin_17 (EE), Gabbspett_17 (EE), Gardevoir_17 (EE), Gillker_17 (EE), Godfather_17 (EE), GoldenBlanche_17 (EE), Goobery_17 (EE), Goulash_17 (EE), Grayscar_17 (EE), HarperAnne_17 (EE), HeadMave_17 (EE), Hernandez44_17 (EE), Horacetta_17 (EE), Hulk_17 (EE), IzzyPants24_17 (EE), JRok_17 (EE), Jahseh_17 (EE), JaimeB_17 (EE), Jannah_17 (EE), Jella_18 (EE), Jerky_17 (EE), JoBros_17 (EE), JooneeDee_17 (EE), Josuke_17 (EE), Kaijohn_17 (EE), KayPaulus_17 (EE), Kevanna_17 (EE), KillerTomato_17 (EE), Kojax4_17 (EE), KyriosFaba_17 (EE), LaviMo_17 (EE), Leafy_17 (EE), LemonPepper_17 (EE), LionelHutz_17 (EE), Livingwater_17 (EE), Loca_17 (EE), Lola20_17 (EE), Lunatic_17 (EE), Luxx_17 (EE), Madebyisha_17 (EE), Majesty_17 (EE), ManAs_17 (EE), Maneater_17 (EE), Marichuy_18 (EE), MasterPitts_17 (EE), Mauilvory_17 (EE), McShie_17 (EE), MelBee03_17 (EE), Miaurora_17 (EE), Minima_17 (EE), MirimarMandM_17 (EE), MrGreen_17 (EE), Myram_17 (EE), Namsahir_18 (EE), NeumannU_17 (EE), Niffler_17 (EE), Nobel_17 (EE), Noelani_17 (EE), Oaklynn_17 (EE), Octopus_17 (EE), OdetoJoy_17 (EE), Otwor_17 (EE), Owens_17 (EE), PaoPu_17 (EE), Picconator_17 (EE), Picnic_17 (EE), PoRanda_17 (EE), Pondwater_17 (EE), Publix_17 (EE), Puddles3_17 (EE), PuffyCat_17 (EE), Quaker_17 (EE), Rhogar_17 (EE), Rhysand_17 (EE), Rira_17 (EE), RoscoWindex_17 (EE), Sachet_17 (EE), Sage7_17 (EE), SantasSleigh_17 (EE), Sara_17 (EE), Scamander_17 (EE), Scrunchy_17 (EE), SeaWolves_17 (EE), Sippinontea_17 (EE), Slentz_17 (EE), Slizam_17 (EE), Stem_17 (EE), TeddyBoy_17 (EE), TimoTea_17 (EE), TinyTruffula_17 (EE), TomBrady12_17 (EE), Toxicola_18 (EE), Trackstar_17 (EE), Trireme_17 (EE), Tyrellus_17 (EE), Upsilon_17 (EE), Vanisius_17 (EE), VitulaEligans_17 (EE), Witch_17 (EE), Wolfpack_17 (EE), Yasuo_17 (EE), YertPhresh_17 (EE), Yubaba_17 (EE), Zahlia_17 (EE), Zeta1847_19 (EH),

Start 38:

- Found in 1 of 219 (0.5%) of genes in pham
- Manual Annotations of this start: 1 of 202
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Floof_21 (EH),

Start 39:

- Found in 157 of 219 (71.7%) of genes in pham
- Manual Annotations of this start: 6 of 202
- Called 5.1% of time when present
- Phage (with cluster) where this start called: JessellCookie_39 (EK1), MiamiPanther_39 (EK1), Salvatore2000_38 (EK1), Snuffles_18 (EE), Sorvannah_38 (EK1), TinyTimothy_37 (EK1), Wesak_38 (EK1), YellowPanda_40 (EK1),

Start 44:

- Found in 168 of 219 (76.7%) of genes in pham
- Manual Annotations of this start: 1 of 202
- Called 2.4% of time when present
- Phage (with cluster) where this start called: Caron_20 (EH), ThirteenKH_39 (EK2), TlaliMex_18 (EE), Yafa_40 (EK2),

Start 45:

- Found in 148 of 219 (67.6%) of genes in pham
- Manual Annotations of this start: 2 of 202
- Called 1.4% of time when present
- Phage (with cluster) where this start called: Cazares_17 (EE), Yami_17 (EE),

Start 50:

- Found in 3 of 219 (1.4%) of genes in pham
- Manual Annotations of this start: 1 of 202
- Called 33.3% of time when present
- Phage (with cluster) where this start called: PensacolaC28_13 (singleton),

Summary by clusters:

There are 9 clusters represented in this pham: EL, singleton, EH, EK, EE, EM1, GL, EK2, EK1,

Info for manual annotations of cluster EE:

- Start number 37 was manually annotated 139 times for cluster EE.
- Start number 39 was manually annotated 1 time for cluster EE.
- Start number 45 was manually annotated 2 times for cluster EE.

Info for manual annotations of cluster EH:

- Start number 37 was manually annotated 1 time for cluster EH.
- Start number 38 was manually annotated 1 time for cluster EH.
- Start number 44 was manually annotated 1 time for cluster EH.

Info for manual annotations of cluster EK:

- Start number 35 was manually annotated 3 times for cluster EK.

Info for manual annotations of cluster EK1:

- Start number 35 was manually annotated 15 times for cluster EK1.
- Start number 36 was manually annotated 7 times for cluster EK1.
- Start number 39 was manually annotated 5 times for cluster EK1.

Info for manual annotations of cluster EK2:

- Start number 35 was manually annotated 23 times for cluster EK2.

Info for manual annotations of cluster EL:

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

Info for manual annotations of cluster EM1:

- Start number 32 was manually annotated 1 time for cluster EM1.

Info for manual annotations of cluster GL:

- Start number 34 was manually annotated 1 time for cluster GL.

Gene Information:

Gene: Abelaine_18 Start: 13581, Stop: 14273, Start Num: 37

Candidate Starts for Abelaine_18:

(Start: 37 @13581 has 140 MA's), (Start: 39 @13587 has 6 MA's), (Start: 44 @13620 has 1 MA's),
(Start: 45 @13653 has 2 MA's), (55, 13746), (56, 13770), (57, 13773), (62, 13809), (68, 13845), (95,
14094), (96, 14109), (104, 14178), (106, 14214),

Gene: Akoni_39 Start: 40425, Stop: 41396, Start Num: 35

Candidate Starts for Akoni_39:

(Start: 35 @40425 has 41 MA's), (65, 40686), (68, 40707), (84, 40851), (85, 40875), (89, 40911), (117,
41256), (122, 41319), (125, 41346),

Gene: Alex44_38 Start: 38259, Stop: 39218, Start Num: 35

Candidate Starts for Alex44_38:

(Start: 35 @38259 has 41 MA's), (60, 38508), (64, 38532), (66, 38538), (68, 38556), (79, 38661), (82,
38682), (83, 38691), (90, 38766), (125, 39168), (126, 39204),

Gene: AloeVera_40 Start: 40639, Stop: 41610, Start Num: 35

Candidate Starts for AloeVera_40:

(Start: 35 @40639 has 41 MA's), (65, 40900), (68, 40921), (84, 41065), (85, 41089), (89, 41125), (117,
41470), (122, 41533), (125, 41560),

Gene: Alucard_17 Start: 13564, Stop: 14250, Start Num: 37

Candidate Starts for Alucard_17:

(Start: 37 @13564 has 140 MA's), (Start: 39 @13570 has 6 MA's), (Start: 44 @13603 has 1 MA's),
(Start: 45 @13636 has 2 MA's), (55, 13729), (56, 13753), (57, 13756), (62, 13792), (68, 13831), (80,
13933), (96, 14095), (104, 14155),

Gene: Anseraureola_17 Start: 13620, Stop: 14312, Start Num: 37

Candidate Starts for Anseraureola_17:

(Start: 37 @13620 has 140 MA's), (Start: 39 @13626 has 6 MA's), (Start: 44 @13659 has 1 MA's),
(Start: 45 @13692 has 2 MA's), (55, 13785), (56, 13809), (57, 13812), (62, 13848), (68, 13884), (95,
14133), (96, 14148), (104, 14217),

Gene: ArMaWen_37 Start: 37802, Stop: 38761, Start Num: 35

Candidate Starts for ArMaWen_37:

(Start: 35 @37802 has 41 MA's), (52, 37976), (60, 38051), (64, 38075), (66, 38081), (82, 38225), (83,
38234), (90, 38309), (125, 38711), (126, 38747),

Gene: Aries55_17 Start: 13641, Stop: 14336, Start Num: 37

Candidate Starts for Aries55_17:

(Start: 37 @13641 has 140 MA's), (Start: 39 @13647 has 6 MA's), (Start: 44 @13680 has 1 MA's),
(Start: 45 @13713 has 2 MA's), (55, 13806), (56, 13830), (57, 13833), (62, 13869), (68, 13908), (80,
14010), (96, 14172), (104, 14241),

Gene: Ashton_40 Start: 40638, Stop: 41609, Start Num: 35

Candidate Starts for Ashton_40:

(Start: 35 @40638 has 41 MA's), (65, 40899), (68, 40920), (84, 41064), (85, 41088), (89, 41124), (117,
41469), (122, 41532), (125, 41559),

Gene: Astartes_39 Start: 40190, Stop: 41137, Start Num: 35

Candidate Starts for Astartes_39:

(8, 40025), (10, 40043), (16, 40085), (17, 40088), (19, 40097), (26, 40136), (Start: 35 @40190 has 41
MA's), (42, 40226), (Start: 44 @40238 has 1 MA's), (65, 40451), (68, 40472), (84, 40616), (90, 40682),
(94, 40733), (109, 40877), (125, 41087),

Gene: Astro16_17 Start: 13635, Stop: 14330, Start Num: 37

Candidate Starts for Astro16_17:

(Start: 37 @13635 has 140 MA's), (Start: 39 @13641 has 6 MA's), (Start: 44 @13674 has 1 MA's),
(Start: 45 @13707 has 2 MA's), (55, 13800), (56, 13824), (57, 13827), (62, 13863), (68, 13902), (80,
14004), (96, 14166), (104, 14235),

Gene: Atraxi_37 Start: 39982, Stop: 40929, Start Num: 35

Candidate Starts for Atraxi_37:

(8, 39817), (10, 39835), (16, 39877), (17, 39880), (19, 39889), (26, 39928), (Start: 35 @39982 has 41
MA's), (Start: 44 @40030 has 1 MA's), (65, 40243), (68, 40264), (84, 40408), (90, 40474), (94, 40525),
(109, 40669), (125, 40879),

Gene: Avvas_17 Start: 13641, Stop: 14336, Start Num: 37

Candidate Starts for Avvas_17:

(Start: 37 @13641 has 140 MA's), (Start: 39 @13647 has 6 MA's), (Start: 44 @13680 has 1 MA's),
(Start: 45 @13713 has 2 MA's), (55, 13806), (56, 13830), (57, 13833), (62, 13869), (68, 13908), (80,
14010), (96, 14172), (104, 14241),

Gene: Azizam_17 Start: 13568, Stop: 14260, Start Num: 37

Candidate Starts for Azizam_17:

(Start: 37 @13568 has 140 MA's), (Start: 39 @13574 has 6 MA's), (Start: 44 @13607 has 1 MA's),
(Start: 45 @13640 has 2 MA's), (55, 13733), (56, 13757), (57, 13760), (62, 13796), (68, 13832), (95,
14081), (96, 14096), (106, 14201),

Gene: Aztec_17 Start: 13563, Stop: 14249, Start Num: 37

Candidate Starts for Aztec_17:

(Start: 37 @13563 has 140 MA's), (Start: 39 @13569 has 6 MA's), (Start: 44 @13602 has 1 MA's),
(Start: 45 @13635 has 2 MA's), (55, 13728), (56, 13752), (57, 13755), (62, 13791), (68, 13830), (80,
13932), (96, 14094), (104, 14154),

Gene: Baine_17 Start: 13583, Stop: 14275, Start Num: 37

Candidate Starts for Baine_17:

(Start: 37 @13583 has 140 MA's), (Start: 39 @13589 has 6 MA's), (Start: 44 @13622 has 1 MA's),
(Start: 45 @13655 has 2 MA's), (55, 13748), (56, 13772), (57, 13775), (62, 13811), (68, 13847), (95,
14096), (96, 14111), (104, 14180),

Gene: BarBear_17 Start: 13635, Stop: 14330, Start Num: 37

Candidate Starts for BarBear_17:

(Start: 37 @13635 has 140 MA's), (Start: 39 @13641 has 6 MA's), (Start: 44 @13674 has 1 MA's),
(Start: 45 @13707 has 2 MA's), (55, 13800), (56, 13824), (57, 13827), (62, 13863), (68, 13902), (80,
14004), (96, 14166), (104, 14235),

Gene: Barroma_38 Start: 40427, Stop: 41398, Start Num: 35

Candidate Starts for Barroma_38:

(Start: 35 @40427 has 41 MA's), (65, 40688), (68, 40709), (84, 40853), (85, 40877), (89, 40913), (117,
41258), (122, 41321), (125, 41348),

Gene: Belthelas_17 Start: 13694, Stop: 14377, Start Num: 37

Candidate Starts for Belthelas_17:

(Start: 37 @13694 has 140 MA's), (Start: 39 @13700 has 6 MA's), (Start: 44 @13733 has 1 MA's),
(Start: 45 @13766 has 2 MA's), (55, 13859), (56, 13883), (57, 13886), (62, 13922), (68, 13958), (96,
14222), (104, 14282),

Gene: BinkBonk_17 Start: 13635, Stop: 14330, Start Num: 37

Candidate Starts for BinkBonk_17:

(Start: 37 @13635 has 140 MA's), (Start: 39 @13641 has 6 MA's), (Start: 44 @13674 has 1 MA's), (Start: 45 @13707 has 2 MA's), (55, 13800), (56, 13824), (57, 13827), (62, 13863), (68, 13902), (80, 14004), (96, 14166), (104, 14235),

Gene: Bintii_17 Start: 13650, Stop: 14345, Start Num: 37

Candidate Starts for Bintii_17:

(31, 13617), (Start: 37 @13650 has 140 MA's), (Start: 39 @13656 has 6 MA's), (Start: 44 @13689 has 1 MA's), (Start: 45 @13722 has 2 MA's), (55, 13815), (56, 13839), (57, 13842), (62, 13878), (68, 13917), (75, 13989), (80, 14019), (96, 14181), (104, 14250), (106, 14286),

Gene: Biozilla_39 Start: 38289, Stop: 39149, Start Num: 36

Candidate Starts for Biozilla_39:

(1, 37974), (3, 38043), (4, 38070), (7, 38115), (9, 38130), (12, 38148), (18, 38190), (20, 38196), (21, 38199), (24, 38229), (25, 38232), (27, 38238), (28, 38241), (30, 38256), (Start: 36 @38289 has 7 MA's), (41, 38322), (49, 38427), (51, 38445), (61, 38529), (70, 38595), (75, 38643), (82, 38697), (83, 38706),

Gene: Birdfeeder_36 Start: 38015, Stop: 38974, Start Num: 35

Candidate Starts for Birdfeeder_36:

(Start: 35 @38015 has 41 MA's), (52, 38189), (66, 38294), (82, 38438), (83, 38447), (90, 38522), (125, 38924), (126, 38960),

Gene: Biscayne_17 Start: 13696, Stop: 14391, Start Num: 37

Candidate Starts for Biscayne_17:

(Start: 37 @13696 has 140 MA's), (Start: 39 @13702 has 6 MA's), (Start: 44 @13735 has 1 MA's), (Start: 45 @13768 has 2 MA's), (Start: 50 @13843 has 1 MA's), (55, 13861), (56, 13885), (57, 13888), (62, 13924), (68, 13963), (71, 13990), (80, 14065), (96, 14227), (104, 14296), (106, 14332),

Gene: BlueRugrat_37 Start: 38251, Stop: 39219, Start Num: 35

Candidate Starts for BlueRugrat_37:

(Start: 35 @38251 has 41 MA's), (52, 38425), (60, 38500), (64, 38524), (66, 38530), (79, 38653), (82, 38674), (83, 38683), (94, 38815), (109, 38959), (125, 39169),

Gene: Bodhi17_17 Start: 13665, Stop: 14348, Start Num: 37

Candidate Starts for Bodhi17_17:

(Start: 37 @13665 has 140 MA's), (Start: 39 @13671 has 6 MA's), (Start: 44 @13704 has 1 MA's), (Start: 45 @13737 has 2 MA's), (55, 13830), (56, 13854), (57, 13857), (62, 13893), (68, 13929), (96, 14193), (104, 14253),

Gene: BoomRoasted_17 Start: 13633, Stop: 14325, Start Num: 37

Candidate Starts for BoomRoasted_17:

(Start: 37 @13633 has 140 MA's), (Start: 39 @13639 has 6 MA's), (Start: 44 @13672 has 1 MA's), (Start: 45 @13705 has 2 MA's), (55, 13798), (56, 13822), (57, 13825), (62, 13861), (68, 13897), (95, 14146), (96, 14161), (104, 14230),

Gene: Bradley2_17 Start: 13562, Stop: 14248, Start Num: 37

Candidate Starts for Bradley2_17:

(Start: 37 @13562 has 140 MA's), (Start: 39 @13568 has 6 MA's), (Start: 44 @13601 has 1 MA's), (Start: 45 @13634 has 2 MA's), (55, 13727), (56, 13751), (57, 13754), (62, 13790), (68, 13829), (80, 13931), (96, 14093), (104, 14153),

Gene: Bri160_17 Start: 13620, Stop: 14312, Start Num: 37

Candidate Starts for Bri160_17:

(Start: 37 @13620 has 140 MA's), (Start: 39 @13626 has 6 MA's), (Start: 44 @13659 has 1 MA's), (Start: 45 @13692 has 2 MA's), (55, 13785), (56, 13809), (57, 13812), (62, 13848), (68, 13884), (95, 14133), (96, 14148), (104, 14217),

Gene: BrokMonster_17 Start: 13617, Stop: 14309, Start Num: 37

Candidate Starts for BrokMonster_17:

(Start: 37 @13617 has 140 MA's), (Start: 39 @13623 has 6 MA's), (Start: 44 @13656 has 1 MA's), (Start: 45 @13689 has 2 MA's), (55, 13782), (56, 13806), (57, 13809), (62, 13845), (68, 13881), (96, 14145), (106, 14250),

Gene: Bullzi2019_17 Start: 13135, Stop: 13830, Start Num: 37

Candidate Starts for Bullzi2019_17:

(Start: 37 @13135 has 140 MA's), (Start: 39 @13141 has 6 MA's), (Start: 44 @13174 has 1 MA's), (Start: 45 @13207 has 2 MA's), (55, 13300), (56, 13324), (57, 13327), (62, 13363), (68, 13402), (75, 13474), (80, 13504), (96, 13666), (104, 13735),

Gene: Burgy_17 Start: 13641, Stop: 14336, Start Num: 37

Candidate Starts for Burgy_17:

(Start: 37 @13641 has 140 MA's), (Start: 39 @13647 has 6 MA's), (Start: 44 @13680 has 1 MA's), (Start: 45 @13713 has 2 MA's), (55, 13806), (56, 13830), (57, 13833), (62, 13869), (68, 13908), (80, 14010), (96, 14172), (104, 14241),

Gene: Burro_34 Start: 40965, Stop: 41936, Start Num: 32

Candidate Starts for Burro_34:

(Start: 32 @40965 has 1 MA's), (Start: 35 @40989 has 41 MA's), (56, 41193), (66, 41253), (68, 41271), (101, 41580), (108, 41676), (114, 41754), (125, 41886),

Gene: BurtonThePup_17 Start: 13635, Stop: 14330, Start Num: 37

Candidate Starts for BurtonThePup_17:

(Start: 37 @13635 has 140 MA's), (Start: 39 @13641 has 6 MA's), (Start: 44 @13674 has 1 MA's), (Start: 45 @13707 has 2 MA's), (55, 13800), (56, 13824), (57, 13827), (62, 13863), (68, 13902), (80, 14004), (96, 14166), (104, 14235),

Gene: Caron_20 Start: 17127, Stop: 17996, Start Num: 44

Candidate Starts for Caron_20:

(6, 16896), (15, 16956), (Start: 44 @17127 has 1 MA's), (46, 17169), (105, 17745),

Gene: Cayde6_17 Start: 13583, Stop: 14275, Start Num: 37

Candidate Starts for Cayde6_17:

(Start: 37 @13583 has 140 MA's), (Start: 39 @13589 has 6 MA's), (Start: 44 @13622 has 1 MA's), (Start: 45 @13655 has 2 MA's), (55, 13748), (56, 13772), (57, 13775), (62, 13811), (68, 13847), (95, 14096), (96, 14111), (104, 14180),

Gene: Cazares_17 Start: 13177, Stop: 13800, Start Num: 45

Candidate Starts for Cazares_17:

(Start: 37 @13105 has 140 MA's), (Start: 39 @13111 has 6 MA's), (Start: 44 @13144 has 1 MA's), (Start: 45 @13177 has 2 MA's), (55, 13270), (56, 13294), (57, 13297), (62, 13333), (68, 13372), (75, 13444), (80, 13474), (96, 13636), (104, 13705), (106, 13741),

Gene: Charbie_17 Start: 13618, Stop: 14313, Start Num: 37

Candidate Starts for Charbie_17:

(Start: 37 @13618 has 140 MA's), (Start: 39 @13624 has 6 MA's), (Start: 44 @13657 has 1 MA's), (Start: 45 @13690 has 2 MA's), (55, 13783), (56, 13807), (57, 13810), (62, 13846), (68, 13885), (80, 13987), (96, 14149), (104, 14218),

Gene: Chatham_17 Start: 13563, Stop: 14249, Start Num: 37

Candidate Starts for Chatham_17:

(Start: 37 @13563 has 140 MA's), (Start: 39 @13569 has 6 MA's), (Start: 44 @13602 has 1 MA's), (Start: 45 @13635 has 2 MA's), (55, 13728), (56, 13752), (57, 13755), (62, 13791), (68, 13830), (80, 13932), (96, 14094), (104, 14154),

Gene: Cheesecake_17 Start: 13642, Stop: 14337, Start Num: 37

Candidate Starts for Cheesecake_17:

(Start: 37 @13642 has 140 MA's), (Start: 39 @13648 has 6 MA's), (Start: 44 @13681 has 1 MA's), (Start: 45 @13714 has 2 MA's), (55, 13807), (56, 13831), (57, 13834), (62, 13870), (68, 13909), (80, 14011), (96, 14173), (104, 14242),

Gene: Ciel_17 Start: 13635, Stop: 14330, Start Num: 37

Candidate Starts for Ciel_17:

(Start: 37 @13635 has 140 MA's), (Start: 39 @13641 has 6 MA's), (Start: 44 @13674 has 1 MA's), (Start: 45 @13707 has 2 MA's), (55, 13800), (56, 13824), (57, 13827), (62, 13863), (68, 13902), (80, 14004), (96, 14166), (104, 14235),

Gene: Clownery_17 Start: 13222, Stop: 13917, Start Num: 37

Candidate Starts for Clownery_17:

(Start: 37 @13222 has 140 MA's), (Start: 39 @13228 has 6 MA's), (Start: 44 @13261 has 1 MA's), (Start: 45 @13294 has 2 MA's), (55, 13387), (56, 13411), (57, 13414), (62, 13450), (68, 13489), (75, 13561), (80, 13591), (96, 13753), (104, 13822),

Gene: Concrete_17 Start: 13610, Stop: 14302, Start Num: 37

Candidate Starts for Concrete_17:

(Start: 37 @13610 has 140 MA's), (Start: 39 @13616 has 6 MA's), (Start: 44 @13649 has 1 MA's), (Start: 45 @13682 has 2 MA's), (55, 13775), (56, 13799), (57, 13802), (62, 13838), (68, 13874), (95, 14123), (96, 14138), (104, 14207),

Gene: Conditioner_37 Start: 38324, Stop: 39292, Start Num: 35

Candidate Starts for Conditioner_37:

(Start: 35 @38324 has 41 MA's), (52, 38498), (60, 38573), (64, 38597), (66, 38603), (79, 38726), (82, 38747), (83, 38756), (94, 38888), (109, 39032), (125, 39242),

Gene: Corn21_37 Start: 38329, Stop: 39297, Start Num: 35

Candidate Starts for Corn21_37:

(Start: 35 @38329 has 41 MA's), (52, 38503), (60, 38578), (64, 38602), (66, 38608), (79, 38731), (82, 38752), (83, 38761), (94, 38893), (109, 39037), (125, 39247),

Gene: Count_3 Start: 493, Stop: 1518, Start Num: 33

Candidate Starts for Count_3:

(Start: 33 @493 has 1 MA's), (40, 538), (47, 646), (72, 841), (78, 892), (109, 1252), (118, 1396), (124, 1465), (125, 1468),

Gene: CrunchyBoi_40 Start: 38144, Stop: 39004, Start Num: 36

Candidate Starts for CrunchyBoi_40:

(1, 37829), (3, 37898), (4, 37925), (7, 37970), (9, 37985), (18, 38045), (20, 38051), (21, 38054), (24, 38084), (25, 38087), (27, 38093), (28, 38096), (30, 38111), (Start: 36 @38144 has 7 MA's), (41,

38177), (49, 38282), (51, 38300), (61, 38384), (70, 38450), (75, 38498), (82, 38552), (83, 38561),

Gene: DaftyDuck_17 Start: 13572, Stop: 14267, Start Num: 37

Candidate Starts for DaftyDuck_17:

(Start: 37 @13572 has 140 MA's), (Start: 39 @13578 has 6 MA's), (Start: 44 @13611 has 1 MA's),
(Start: 45 @13644 has 2 MA's), (55, 13737), (56, 13761), (57, 13764), (62, 13800), (68, 13839), (80,
13941), (96, 14103), (104, 14172),

Gene: Danimal_17 Start: 13565, Stop: 14251, Start Num: 37

Candidate Starts for Danimal_17:

(Start: 37 @13565 has 140 MA's), (Start: 39 @13571 has 6 MA's), (Start: 44 @13604 has 1 MA's),
(Start: 45 @13637 has 2 MA's), (55, 13730), (56, 13754), (57, 13757), (62, 13793), (68, 13832), (80,
13934), (96, 14096), (104, 14156),

Gene: Danno_17 Start: 13641, Stop: 14336, Start Num: 37

Candidate Starts for Danno_17:

(Start: 37 @13641 has 140 MA's), (Start: 39 @13647 has 6 MA's), (Start: 44 @13680 has 1 MA's),
(Start: 45 @13713 has 2 MA's), (55, 13806), (56, 13830), (57, 13833), (62, 13869), (68, 13908), (80,
14010), (96, 14172), (104, 14241),

Gene: Dashyla_37 Start: 37933, Stop: 38892, Start Num: 35

Candidate Starts for Dashyla_37:

(Start: 35 @37933 has 41 MA's), (48, 38080), (52, 38107), (60, 38182), (64, 38206), (66, 38212), (68,
38230), (79, 38335), (82, 38356), (83, 38365), (90, 38440), (125, 38842), (126, 38878),

Gene: DirtPie_17 Start: 13665, Stop: 14360, Start Num: 37

Candidate Starts for DirtPie_17:

(Start: 37 @13665 has 140 MA's), (Start: 39 @13671 has 6 MA's), (Start: 44 @13704 has 1 MA's),
(Start: 45 @13737 has 2 MA's), (55, 13830), (56, 13854), (57, 13857), (62, 13893), (68, 13932), (80,
14034), (96, 14196), (104, 14265),

Gene: Dongwon_17 Start: 13563, Stop: 14249, Start Num: 37

Candidate Starts for Dongwon_17:

(Start: 37 @13563 has 140 MA's), (Start: 39 @13569 has 6 MA's), (Start: 44 @13602 has 1 MA's),
(Start: 45 @13635 has 2 MA's), (55, 13728), (56, 13752), (57, 13755), (62, 13791), (68, 13830), (80,
13932), (96, 14094), (104, 14154),

Gene: Dooby_17 Start: 13563, Stop: 14249, Start Num: 37

Candidate Starts for Dooby_17:

(Start: 37 @13563 has 140 MA's), (Start: 39 @13569 has 6 MA's), (Start: 44 @13602 has 1 MA's),
(Start: 45 @13635 has 2 MA's), (55, 13728), (56, 13752), (57, 13755), (62, 13791), (68, 13830), (80,
13932), (96, 14094), (104, 14154),

Gene: Douggie_17 Start: 13624, Stop: 14307, Start Num: 37

Candidate Starts for Douggie_17:

(Start: 37 @13624 has 140 MA's), (Start: 39 @13630 has 6 MA's), (Start: 44 @13663 has 1 MA's),
(Start: 45 @13696 has 2 MA's), (55, 13789), (56, 13813), (57, 13816), (62, 13852), (68, 13888), (96,
14152), (104, 14212),

Gene: Duggle_18 Start: 13563, Stop: 14249, Start Num: 37

Candidate Starts for Duggle_18:

(Start: 37 @13563 has 140 MA's), (Start: 39 @13569 has 6 MA's), (Start: 44 @13602 has 1 MA's),
(Start: 45 @13635 has 2 MA's), (55, 13728), (56, 13752), (57, 13755), (62, 13791), (68, 13830), (80,

13932), (96, 14094), (104, 14154),

Gene: DumpQuist_37 Start: 37787, Stop: 38746, Start Num: 35

Candidate Starts for DumpQuist_37:

(Start: 35 @37787 has 41 MA's), (52, 37961), (66, 38066), (82, 38210), (83, 38219), (90, 38294), (125, 38696), (126, 38732),

Gene: ELee24_17 Start: 13592, Stop: 14287, Start Num: 37

Candidate Starts for ELee24_17:

(Start: 37 @13592 has 140 MA's), (Start: 39 @13598 has 6 MA's), (Start: 44 @13631 has 1 MA's), (Start: 45 @13664 has 2 MA's), (55, 13757), (56, 13781), (57, 13784), (62, 13820), (68, 13859), (96, 14123), (104, 14192),

Gene: EdElric_17 Start: 13563, Stop: 14249, Start Num: 37

Candidate Starts for EdElric_17:

(Start: 37 @13563 has 140 MA's), (Start: 39 @13569 has 6 MA's), (Start: 44 @13602 has 1 MA's), (Start: 45 @13635 has 2 MA's), (55, 13728), (56, 13752), (57, 13755), (62, 13791), (68, 13830), (80, 13932), (96, 14094), (104, 14154),

Gene: Eightball_17 Start: 13635, Stop: 14330, Start Num: 37

Candidate Starts for Eightball_17:

(Start: 37 @13635 has 140 MA's), (Start: 39 @13641 has 6 MA's), (Start: 44 @13674 has 1 MA's), (Start: 45 @13707 has 2 MA's), (55, 13800), (56, 13824), (57, 13827), (62, 13863), (68, 13902), (80, 14004), (96, 14166), (104, 14235),

Gene: Ekko14_17 Start: 13103, Stop: 13798, Start Num: 37

Candidate Starts for Ekko14_17:

(Start: 37 @13103 has 140 MA's), (Start: 39 @13109 has 6 MA's), (Start: 44 @13142 has 1 MA's), (Start: 45 @13175 has 2 MA's), (55, 13268), (56, 13292), (57, 13295), (62, 13331), (68, 13370), (75, 13442), (80, 13472), (96, 13634), (104, 13703),

Gene: Elspeth_17 Start: 13103, Stop: 13798, Start Num: 37

Candidate Starts for Elspeth_17:

(Start: 37 @13103 has 140 MA's), (Start: 39 @13109 has 6 MA's), (Start: 44 @13142 has 1 MA's), (Start: 45 @13175 has 2 MA's), (55, 13268), (56, 13292), (57, 13295), (62, 13331), (68, 13370), (75, 13442), (80, 13472), (96, 13634), (104, 13703),

Gene: Erin_17 Start: 13563, Stop: 14249, Start Num: 37

Candidate Starts for Erin_17:

(Start: 37 @13563 has 140 MA's), (Start: 39 @13569 has 6 MA's), (Start: 44 @13602 has 1 MA's), (Start: 45 @13635 has 2 MA's), (55, 13728), (56, 13752), (57, 13755), (62, 13791), (68, 13830), (80, 13932), (96, 14094), (104, 14154),

Gene: EugeneKrabs_38 Start: 41581, Stop: 42549, Start Num: 35

Candidate Starts for EugeneKrabs_38:

(Start: 35 @41581 has 41 MA's), (66, 41845), (84, 42007), (125, 42499),

Gene: Fede_38 Start: 39191, Stop: 40159, Start Num: 35

Candidate Starts for Fede_38:

(Start: 35 @39191 has 41 MA's), (66, 39455), (82, 39599), (84, 39617), (125, 40109),

Gene: Floof_21 Start: 17890, Stop: 18708, Start Num: 38

Candidate Starts for Floof_21:

(Start: 38 @17890 has 1 MA's), (62, 18124), (71, 18190), (76, 18238), (104, 18508), (111, 18592), (116, 18673),

Gene: Fullmetal_39 Start: 40564, Stop: 41511, Start Num: 35

Candidate Starts for Fullmetal_39:

(Start: 35 @40564 has 41 MA's), (Start: 44 @40612 has 1 MA's), (65, 40825), (68, 40846), (84, 40990), (90, 41056), (94, 41107), (109, 41251), (125, 41461),

Gene: Gabbspett_17 Start: 13667, Stop: 14362, Start Num: 37

Candidate Starts for Gabbspett_17:

(Start: 37 @13667 has 140 MA's), (Start: 39 @13673 has 6 MA's), (Start: 44 @13706 has 1 MA's), (Start: 45 @13739 has 2 MA's), (55, 13832), (56, 13856), (57, 13859), (62, 13895), (68, 13934), (80, 14036), (96, 14198), (104, 14267),

Gene: Gardevoir_17 Start: 13597, Stop: 14283, Start Num: 37

Candidate Starts for Gardevoir_17:

(Start: 37 @13597 has 140 MA's), (Start: 39 @13603 has 6 MA's), (Start: 44 @13636 has 1 MA's), (Start: 45 @13669 has 2 MA's), (55, 13762), (56, 13786), (57, 13789), (62, 13825), (68, 13864), (80, 13966), (96, 14128), (104, 14188),

Gene: Gillker_17 Start: 13562, Stop: 14248, Start Num: 37

Candidate Starts for Gillker_17:

(Start: 37 @13562 has 140 MA's), (Start: 39 @13568 has 6 MA's), (Start: 44 @13601 has 1 MA's), (Start: 45 @13634 has 2 MA's), (55, 13727), (56, 13751), (57, 13754), (62, 13790), (68, 13829), (80, 13931), (96, 14093), (104, 14153),

Gene: Godfather_17 Start: 13641, Stop: 14336, Start Num: 37

Candidate Starts for Godfather_17:

(Start: 37 @13641 has 140 MA's), (Start: 39 @13647 has 6 MA's), (Start: 44 @13680 has 1 MA's), (Start: 45 @13713 has 2 MA's), (55, 13806), (56, 13830), (57, 13833), (62, 13869), (68, 13908), (80, 14010), (96, 14172), (104, 14241),

Gene: GoldenBlanche_17 Start: 13563, Stop: 14249, Start Num: 37

Candidate Starts for GoldenBlanche_17:

(Start: 37 @13563 has 140 MA's), (Start: 39 @13569 has 6 MA's), (Start: 44 @13602 has 1 MA's), (Start: 45 @13635 has 2 MA's), (55, 13728), (56, 13752), (57, 13755), (62, 13791), (68, 13830), (80, 13932), (96, 14094), (104, 14154),

Gene: Goobery_17 Start: 13635, Stop: 14330, Start Num: 37

Candidate Starts for Goobery_17:

(Start: 37 @13635 has 140 MA's), (Start: 39 @13641 has 6 MA's), (Start: 44 @13674 has 1 MA's), (Start: 45 @13707 has 2 MA's), (55, 13800), (56, 13824), (57, 13827), (62, 13863), (68, 13902), (80, 14004), (96, 14166), (104, 14235),

Gene: Goulash_17 Start: 13563, Stop: 14249, Start Num: 37

Candidate Starts for Goulash_17:

(Start: 37 @13563 has 140 MA's), (Start: 39 @13569 has 6 MA's), (Start: 44 @13602 has 1 MA's), (Start: 45 @13635 has 2 MA's), (55, 13728), (56, 13752), (57, 13755), (62, 13791), (68, 13830), (80, 13932), (96, 14094), (104, 14154),

Gene: Grayscar_17 Start: 13642, Stop: 14337, Start Num: 37

Candidate Starts for Grayscar_17:

(Start: 37 @13642 has 140 MA's), (Start: 39 @13648 has 6 MA's), (Start: 44 @13681 has 1 MA's), (Start: 45 @13714 has 2 MA's), (55, 13807), (56, 13831), (57, 13834), (62, 13870), (68, 13909), (80, 14011), (96, 14173), (104, 14242),

Gene: HarperAnne_17 Start: 13102, Stop: 13797, Start Num: 37

Candidate Starts for HarperAnne_17:

(Start: 37 @13102 has 140 MA's), (Start: 39 @13108 has 6 MA's), (Start: 44 @13141 has 1 MA's), (Start: 45 @13174 has 2 MA's), (55, 13267), (56, 13291), (57, 13294), (62, 13330), (68, 13369), (75, 13441), (80, 13471), (96, 13633), (104, 13702),

Gene: HeadMave_17 Start: 13635, Stop: 14330, Start Num: 37

Candidate Starts for HeadMave_17:

(Start: 37 @13635 has 140 MA's), (Start: 39 @13641 has 6 MA's), (Start: 44 @13674 has 1 MA's), (Start: 45 @13707 has 2 MA's), (55, 13800), (56, 13824), (57, 13827), (62, 13863), (68, 13902), (80, 14004), (96, 14166), (104, 14235),

Gene: Hernandez44_17 Start: 13667, Stop: 14362, Start Num: 37

Candidate Starts for Hernandez44_17:

(Start: 37 @13667 has 140 MA's), (Start: 39 @13673 has 6 MA's), (Start: 44 @13706 has 1 MA's), (Start: 45 @13739 has 2 MA's), (55, 13832), (56, 13856), (57, 13859), (62, 13895), (68, 13934), (80, 14036), (96, 14198), (104, 14267), (106, 14303),

Gene: HitchHiker_40 Start: 38289, Stop: 39149, Start Num: 36

Candidate Starts for HitchHiker_40:

(1, 37974), (3, 38043), (4, 38070), (7, 38115), (9, 38130), (12, 38148), (18, 38190), (20, 38196), (21, 38199), (24, 38229), (25, 38232), (27, 38238), (28, 38241), (30, 38256), (Start: 36 @38289 has 7 MA's), (41, 38322), (49, 38427), (51, 38445), (61, 38529), (70, 38595), (75, 38643), (82, 38697), (83, 38706),

Gene: Horacetta_17 Start: 13563, Stop: 14249, Start Num: 37

Candidate Starts for Horacetta_17:

(Start: 37 @13563 has 140 MA's), (Start: 39 @13569 has 6 MA's), (Start: 44 @13602 has 1 MA's), (Start: 45 @13635 has 2 MA's), (55, 13728), (56, 13752), (57, 13755), (62, 13791), (68, 13830), (80, 13932), (96, 14094), (104, 14154),

Gene: Hulk_17 Start: 13579, Stop: 14274, Start Num: 37

Candidate Starts for Hulk_17:

(Start: 37 @13579 has 140 MA's), (Start: 39 @13585 has 6 MA's), (Start: 44 @13618 has 1 MA's), (Start: 45 @13651 has 2 MA's), (55, 13744), (56, 13768), (57, 13771), (62, 13807), (68, 13846), (80, 13948), (96, 14110), (104, 14179),

Gene: IzzyPants24_17 Start: 13153, Stop: 13848, Start Num: 37

Candidate Starts for IzzyPants24_17:

(Start: 37 @13153 has 140 MA's), (Start: 39 @13159 has 6 MA's), (Start: 44 @13192 has 1 MA's), (Start: 45 @13225 has 2 MA's), (55, 13318), (56, 13342), (57, 13345), (62, 13381), (68, 13420), (75, 13492), (80, 13522), (96, 13684), (104, 13753),

Gene: JRok_17 Start: 13566, Stop: 14258, Start Num: 37

Candidate Starts for JRok_17:

(Start: 37 @13566 has 140 MA's), (Start: 39 @13572 has 6 MA's), (Start: 44 @13605 has 1 MA's), (Start: 45 @13638 has 2 MA's), (55, 13731), (56, 13755), (57, 13758), (62, 13794), (68, 13830), (95, 14079), (96, 14094), (106, 14199),

Gene: Jahseh_17 Start: 13563, Stop: 14249, Start Num: 37

Candidate Starts for Jahseh_17:

(Start: 37 @13563 has 140 MA's), (Start: 39 @13569 has 6 MA's), (Start: 44 @13602 has 1 MA's),
(Start: 45 @13635 has 2 MA's), (55, 13728), (56, 13752), (57, 13755), (62, 13791), (68, 13830), (80,
13932), (96, 14094), (104, 14154),

Gene: JaimeB_17 Start: 13635, Stop: 14330, Start Num: 37

Candidate Starts for JaimeB_17:

(Start: 37 @13635 has 140 MA's), (Start: 39 @13641 has 6 MA's), (Start: 44 @13674 has 1 MA's),
(Start: 45 @13707 has 2 MA's), (55, 13800), (56, 13824), (57, 13827), (62, 13863), (68, 13902), (80,
14004), (96, 14166), (104, 14235),

Gene: Jannah_17 Start: 13630, Stop: 14316, Start Num: 37

Candidate Starts for Jannah_17:

(Start: 37 @13630 has 140 MA's), (Start: 39 @13636 has 6 MA's), (Start: 44 @13669 has 1 MA's),
(Start: 45 @13702 has 2 MA's), (55, 13795), (56, 13819), (57, 13822), (62, 13858), (68, 13897), (80,
13999), (96, 14161), (104, 14221),

Gene: Jella_18 Start: 13653, Stop: 14348, Start Num: 37

Candidate Starts for Jella_18:

(Start: 37 @13653 has 140 MA's), (Start: 39 @13659 has 6 MA's), (Start: 44 @13692 has 1 MA's),
(Start: 45 @13725 has 2 MA's), (55, 13818), (56, 13842), (57, 13845), (62, 13881), (68, 13920), (80,
14022), (96, 14184), (104, 14253), (106, 14289),

Gene: Jerky_17 Start: 13716, Stop: 14411, Start Num: 37

Candidate Starts for Jerky_17:

(Start: 37 @13716 has 140 MA's), (Start: 39 @13722 has 6 MA's), (Start: 44 @13755 has 1 MA's),
(Start: 45 @13788 has 2 MA's), (55, 13881), (56, 13905), (57, 13908), (62, 13944), (68, 13983), (80,
14085), (96, 14247), (104, 14316),

Gene: JessellCookie_39 Start: 39685, Stop: 40626, Start Num: 39

Candidate Starts for JessellCookie_39:

(Start: 39 @39685 has 6 MA's), (53, 39829), (56, 39871), (64, 39925), (83, 40081), (124, 40573), (125,
40576),

Gene: JimmyPG_39 Start: 40864, Stop: 41835, Start Num: 35

Candidate Starts for JimmyPG_39:

(Start: 35 @40864 has 41 MA's), (Start: 44 @40912 has 1 MA's), (65, 41125), (68, 41146), (84, 41290),
(89, 41350), (115, 41653), (117, 41695), (122, 41758), (125, 41785),

Gene: JoBros_17 Start: 13564, Stop: 14250, Start Num: 37

Candidate Starts for JoBros_17:

(Start: 37 @13564 has 140 MA's), (Start: 39 @13570 has 6 MA's), (Start: 44 @13603 has 1 MA's),
(Start: 45 @13636 has 2 MA's), (55, 13729), (56, 13753), (57, 13756), (62, 13792), (68, 13831), (80,
13933), (96, 14095), (104, 14155),

Gene: JooneeDee_17 Start: 13650, Stop: 14345, Start Num: 37

Candidate Starts for JooneeDee_17:

(31, 13617), (Start: 37 @13650 has 140 MA's), (Start: 39 @13656 has 6 MA's), (Start: 44 @13689 has
1 MA's), (Start: 45 @13722 has 2 MA's), (55, 13815), (56, 13839), (57, 13842), (62, 13878), (68,
13917), (75, 13989), (80, 14019), (96, 14181), (104, 14250), (106, 14286),

Gene: JordanFarm_41 Start: 40639, Stop: 41610, Start Num: 35

Candidate Starts for JordanFarm_41:

(Start: 35 @40639 has 41 MA's), (65, 40900), (68, 40921), (84, 41065), (85, 41089), (89, 41125), (117, 41470), (122, 41533), (125, 41560),

Gene: Josuke_17 Start: 13642, Stop: 14337, Start Num: 37

Candidate Starts for Josuke_17:

(Start: 37 @13642 has 140 MA's), (Start: 39 @13648 has 6 MA's), (Start: 44 @13681 has 1 MA's), (Start: 45 @13714 has 2 MA's), (55, 13807), (56, 13831), (57, 13834), (62, 13870), (68, 13909), (80, 14011), (96, 14173), (104, 14242),

Gene: JrWilcox_77 Start: 41624, Stop: 42604, Start Num: 34

Candidate Starts for JrWilcox_77:

(Start: 34 @41624 has 1 MA's), (59, 41849), (67, 41900), (74, 41972), (81, 42032), (88, 42101), (99, 42215), (107, 42338), (112, 42407), (120, 42530), (121, 42542), (123, 42545),

Gene: Kaijohn_17 Start: 13601, Stop: 14293, Start Num: 37

Candidate Starts for Kaijohn_17:

(Start: 37 @13601 has 140 MA's), (Start: 39 @13607 has 6 MA's), (Start: 44 @13640 has 1 MA's), (Start: 45 @13673 has 2 MA's), (55, 13766), (56, 13790), (57, 13793), (62, 13829), (68, 13865), (80, 13967), (96, 14129), (104, 14198),

Gene: KayPaulus_17 Start: 13638, Stop: 14321, Start Num: 37

Candidate Starts for KayPaulus_17:

(Start: 37 @13638 has 140 MA's), (Start: 39 @13644 has 6 MA's), (Start: 44 @13677 has 1 MA's), (Start: 45 @13710 has 2 MA's), (55, 13803), (56, 13827), (57, 13830), (62, 13866), (68, 13902), (96, 14166), (104, 14226),

Gene: Keough_38 Start: 40297, Stop: 41268, Start Num: 35

Candidate Starts for Keough_38:

(Start: 35 @40297 has 41 MA's), (Start: 44 @40345 has 1 MA's), (65, 40558), (68, 40579), (84, 40723), (85, 40747), (89, 40783), (117, 41128), (122, 41191), (125, 41218),

Gene: Kevanna_17 Start: 13627, Stop: 14310, Start Num: 37

Candidate Starts for Kevanna_17:

(Start: 37 @13627 has 140 MA's), (Start: 39 @13633 has 6 MA's), (Start: 44 @13666 has 1 MA's), (Start: 45 @13699 has 2 MA's), (55, 13792), (56, 13816), (57, 13819), (62, 13855), (68, 13891), (96, 14155), (104, 14215), (106, 14251),

Gene: KillerTomato_17 Start: 13620, Stop: 14312, Start Num: 37

Candidate Starts for KillerTomato_17:

(Start: 37 @13620 has 140 MA's), (Start: 39 @13626 has 6 MA's), (Start: 44 @13659 has 1 MA's), (Start: 45 @13692 has 2 MA's), (55, 13785), (56, 13809), (57, 13812), (62, 13848), (68, 13884), (95, 14133), (96, 14148), (104, 14217),

Gene: KingKamren_37 Start: 41535, Stop: 42503, Start Num: 35

Candidate Starts for KingKamren_37:

(Start: 35 @41535 has 41 MA's), (66, 41799), (84, 41961), (125, 42453),

Gene: Kojax4_17 Start: 13641, Stop: 14336, Start Num: 37

Candidate Starts for Kojax4_17:

(Start: 37 @13641 has 140 MA's), (Start: 39 @13647 has 6 MA's), (Start: 44 @13680 has 1 MA's), (Start: 45 @13713 has 2 MA's), (55, 13806), (56, 13830), (57, 13833), (62, 13869), (68, 13908), (80, 14010), (96, 14172), (104, 14241),

Gene: Kosier_38 Start: 39138, Stop: 40106, Start Num: 35

Candidate Starts for Kosier_38:

(Start: 35 @39138 has 41 MA's), (66, 39402), (82, 39546), (84, 39564), (125, 40056),

Gene: KyriosFaba_17 Start: 13563, Stop: 14249, Start Num: 37

Candidate Starts for KyriosFaba_17:

(Start: 37 @13563 has 140 MA's), (Start: 39 @13569 has 6 MA's), (Start: 44 @13602 has 1 MA's),
(Start: 45 @13635 has 2 MA's), (55, 13728), (56, 13752), (57, 13755), (62, 13791), (68, 13830), (80,
13932), (96, 14094), (104, 14154),

Gene: LaviMo_17 Start: 13642, Stop: 14337, Start Num: 37

Candidate Starts for LaviMo_17:

(Start: 37 @13642 has 140 MA's), (Start: 39 @13648 has 6 MA's), (Start: 44 @13681 has 1 MA's),
(Start: 45 @13714 has 2 MA's), (55, 13807), (56, 13831), (57, 13834), (62, 13870), (68, 13909), (80,
14011), (96, 14173), (104, 14242),

Gene: Leafy_17 Start: 13581, Stop: 14273, Start Num: 37

Candidate Starts for Leafy_17:

(Start: 37 @13581 has 140 MA's), (Start: 39 @13587 has 6 MA's), (Start: 44 @13620 has 1 MA's),
(Start: 45 @13653 has 2 MA's), (55, 13746), (56, 13770), (57, 13773), (62, 13809), (68, 13845), (95,
14094), (96, 14109), (104, 14178), (106, 14214),

Gene: LemonPepper_17 Start: 13563, Stop: 14249, Start Num: 37

Candidate Starts for LemonPepper_17:

(Start: 37 @13563 has 140 MA's), (Start: 39 @13569 has 6 MA's), (Start: 44 @13602 has 1 MA's),
(Start: 45 @13635 has 2 MA's), (55, 13728), (56, 13752), (57, 13755), (62, 13791), (68, 13830), (80,
13932), (96, 14094), (104, 14154),

Gene: LesNorah_38 Start: 38648, Stop: 39616, Start Num: 35

Candidate Starts for LesNorah_38:

(Start: 35 @38648 has 41 MA's), (52, 38822), (60, 38897), (64, 38921), (66, 38927), (79, 39050), (82,
39071), (83, 39080), (94, 39212), (109, 39356), (125, 39566),

Gene: LilyLou_39 Start: 38251, Stop: 39210, Start Num: 35

Candidate Starts for LilyLou_39:

(Start: 35 @38251 has 41 MA's), (52, 38425), (60, 38500), (64, 38524), (66, 38530), (82, 38674), (83,
38683), (90, 38758), (125, 39160), (126, 39196),

Gene: LionelHutz_17 Start: 13635, Stop: 14330, Start Num: 37

Candidate Starts for LionelHutz_17:

(Start: 37 @13635 has 140 MA's), (Start: 39 @13641 has 6 MA's), (Start: 44 @13674 has 1 MA's),
(Start: 45 @13707 has 2 MA's), (55, 13800), (56, 13824), (57, 13827), (62, 13863), (68, 13902), (80,
14004), (96, 14166), (104, 14235),

Gene: Livingwater_17 Start: 13624, Stop: 14316, Start Num: 37

Candidate Starts for Livingwater_17:

(Start: 37 @13624 has 140 MA's), (Start: 39 @13630 has 6 MA's), (Start: 44 @13663 has 1 MA's),
(Start: 45 @13696 has 2 MA's), (55, 13789), (56, 13813), (57, 13816), (62, 13852), (68, 13888), (95,
14137), (96, 14152), (104, 14221), (106, 14257),

Gene: Loca_17 Start: 13648, Stop: 14340, Start Num: 37

Candidate Starts for Loca_17:

(Start: 37 @13648 has 140 MA's), (Start: 39 @13654 has 6 MA's), (Start: 44 @13687 has 1 MA's),
(Start: 45 @13720 has 2 MA's), (55, 13813), (56, 13837), (57, 13840), (62, 13876), (68, 13912), (95,
14161), (96, 14176), (104, 14245),

Gene: Lola20_17 Start: 13583, Stop: 14275, Start Num: 37

Candidate Starts for Lola20_17:

(Start: 37 @13583 has 140 MA's), (Start: 39 @13589 has 6 MA's), (Start: 44 @13622 has 1 MA's),
(Start: 45 @13655 has 2 MA's), (55, 13748), (56, 13772), (57, 13775), (62, 13811), (68, 13847), (95,
14096), (96, 14111), (104, 14180),

Gene: Lunatic_17 Start: 13105, Stop: 13800, Start Num: 37

Candidate Starts for Lunatic_17:

(Start: 37 @13105 has 140 MA's), (Start: 39 @13111 has 6 MA's), (Start: 44 @13144 has 1 MA's),
(Start: 45 @13177 has 2 MA's), (55, 13270), (56, 13294), (57, 13297), (62, 13333), (68, 13372), (75,
13444), (80, 13474), (96, 13636), (104, 13705), (106, 13741),

Gene: Luxx_17 Start: 13653, Stop: 14348, Start Num: 37

Candidate Starts for Luxx_17:

(Start: 37 @13653 has 140 MA's), (Start: 39 @13659 has 6 MA's), (Start: 44 @13692 has 1 MA's),
(Start: 45 @13725 has 2 MA's), (55, 13818), (56, 13842), (57, 13845), (62, 13881), (68, 13920), (80,
14022), (96, 14184), (104, 14253), (106, 14289),

Gene: Madebyisha_17 Start: 13716, Stop: 14411, Start Num: 37

Candidate Starts for Madebyisha_17:

(Start: 37 @13716 has 140 MA's), (Start: 39 @13722 has 6 MA's), (Start: 44 @13755 has 1 MA's),
(Start: 45 @13788 has 2 MA's), (55, 13881), (56, 13905), (57, 13908), (62, 13944), (68, 13983), (80,
14085), (96, 14247), (104, 14316),

Gene: Majesty_17 Start: 13635, Stop: 14330, Start Num: 37

Candidate Starts for Majesty_17:

(Start: 37 @13635 has 140 MA's), (Start: 39 @13641 has 6 MA's), (Start: 44 @13674 has 1 MA's),
(Start: 45 @13707 has 2 MA's), (55, 13800), (56, 13824), (57, 13827), (62, 13863), (68, 13902), (80,
14004), (96, 14166), (104, 14235),

Gene: ManAs_17 Start: 13563, Stop: 14249, Start Num: 37

Candidate Starts for ManAs_17:

(Start: 37 @13563 has 140 MA's), (Start: 39 @13569 has 6 MA's), (Start: 44 @13602 has 1 MA's),
(Start: 45 @13635 has 2 MA's), (55, 13728), (56, 13752), (57, 13755), (62, 13791), (68, 13830), (80,
13932), (96, 14094), (104, 14154),

Gene: Maneater_17 Start: 13617, Stop: 14312, Start Num: 37

Candidate Starts for Maneater_17:

(Start: 37 @13617 has 140 MA's), (Start: 39 @13623 has 6 MA's), (Start: 44 @13656 has 1 MA's),
(Start: 45 @13689 has 2 MA's), (55, 13782), (56, 13806), (57, 13809), (62, 13845), (68, 13884), (80,
13986), (96, 14148), (104, 14217),

Gene: Marichuy_18 Start: 13665, Stop: 14360, Start Num: 37

Candidate Starts for Marichuy_18:

(Start: 37 @13665 has 140 MA's), (Start: 39 @13671 has 6 MA's), (Start: 44 @13704 has 1 MA's),
(Start: 45 @13737 has 2 MA's), (55, 13830), (56, 13854), (57, 13857), (62, 13893), (68, 13932), (80,
14034), (96, 14196), (104, 14265),

Gene: MasterPitts_17 Start: 13572, Stop: 14267, Start Num: 37

Candidate Starts for MasterPitts_17:

(Start: 37 @13572 has 140 MA's), (Start: 39 @13578 has 6 MA's), (Start: 44 @13611 has 1 MA's),
(Start: 45 @13644 has 2 MA's), (55, 13737), (56, 13761), (57, 13764), (62, 13800), (68, 13839), (80,
13941), (96, 14103), (104, 14172),

Gene: Mauilvory_17 Start: 13220, Stop: 13915, Start Num: 37

Candidate Starts for Mauilvory_17:

(29, 13187), (Start: 37 @13220 has 140 MA's), (Start: 39 @13226 has 6 MA's), (Start: 44 @13259 has
1 MA's), (Start: 45 @13292 has 2 MA's), (55, 13385), (56, 13409), (57, 13412), (62, 13448), (68,
13487), (75, 13559), (80, 13589), (96, 13751), (104, 13820),

Gene: Mazun_40 Start: 40886, Stop: 41857, Start Num: 35

Candidate Starts for Mazun_40:

(Start: 35 @40886 has 41 MA's), (Start: 44 @40934 has 1 MA's), (65, 41147), (68, 41168), (84, 41312),
(85, 41336), (89, 41372), (117, 41717), (122, 41780), (125, 41807),

Gene: McShie_17 Start: 13618, Stop: 14310, Start Num: 37

Candidate Starts for McShie_17:

(Start: 37 @13618 has 140 MA's), (Start: 39 @13624 has 6 MA's), (Start: 44 @13657 has 1 MA's),
(Start: 45 @13690 has 2 MA's), (55, 13783), (56, 13807), (57, 13810), (62, 13846), (68, 13882), (96,
14146), (106, 14251),

Gene: MelBee03_17 Start: 13627, Stop: 14310, Start Num: 37

Candidate Starts for MelBee03_17:

(Start: 37 @13627 has 140 MA's), (Start: 39 @13633 has 6 MA's), (Start: 44 @13666 has 1 MA's),
(Start: 45 @13699 has 2 MA's), (55, 13792), (56, 13816), (57, 13819), (62, 13855), (68, 13891), (96,
14155), (104, 14215), (106, 14251),

Gene: MiamiPanther_39 Start: 39685, Stop: 40626, Start Num: 39

Candidate Starts for MiamiPanther_39:

(Start: 39 @39685 has 6 MA's), (53, 39829), (56, 39871), (62, 39910), (64, 39925), (83, 40081), (91,
40171), (124, 40573), (125, 40576),

Gene: Miaurora_17 Start: 13222, Stop: 13917, Start Num: 37

Candidate Starts for Miaurora_17:

(Start: 37 @13222 has 140 MA's), (Start: 39 @13228 has 6 MA's), (Start: 44 @13261 has 1 MA's),
(Start: 45 @13294 has 2 MA's), (55, 13387), (56, 13411), (57, 13414), (62, 13450), (68, 13489), (75,
13561), (80, 13591), (96, 13753), (104, 13822), (106, 13858),

Gene: Minima_17 Start: 13563, Stop: 14249, Start Num: 37

Candidate Starts for Minima_17:

(Start: 37 @13563 has 140 MA's), (Start: 39 @13569 has 6 MA's), (Start: 44 @13602 has 1 MA's),
(Start: 45 @13635 has 2 MA's), (55, 13728), (56, 13752), (57, 13755), (62, 13791), (68, 13830), (80,
13932), (96, 14094), (104, 14154),

Gene: MirimarMandM_17 Start: 13693, Stop: 14388, Start Num: 37

Candidate Starts for MirimarMandM_17:

(29, 13660), (Start: 37 @13693 has 140 MA's), (Start: 39 @13699 has 6 MA's), (Start: 44 @13732 has
1 MA's), (Start: 45 @13765 has 2 MA's), (55, 13858), (56, 13882), (57, 13885), (62, 13921), (68,
13960), (75, 14032), (80, 14062), (96, 14224), (104, 14293),

Gene: Moleficent_39 Start: 40571, Stop: 41518, Start Num: 35

Candidate Starts for Moleficent_39:

(Start: 35 @40571 has 41 MA's), (Start: 44 @40619 has 1 MA's), (54, 40739), (65, 40832), (68, 40853), (84, 40997), (90, 41063), (94, 41114), (109, 41258), (125, 41468),

Gene: Morrill_37 Start: 39963, Stop: 40910, Start Num: 35

Candidate Starts for Morrill_37:

(16, 39858), (17, 39861), (19, 39870), (22, 39894), (23, 39897), (26, 39909), (Start: 32 @39939 has 1 MA's), (Start: 35 @39963 has 41 MA's), (Start: 44 @40011 has 1 MA's), (65, 40224), (68, 40245), (77, 40329), (84, 40389), (90, 40455), (94, 40506), (109, 40650), (125, 40860),

Gene: MrGreen_17 Start: 13591, Stop: 14283, Start Num: 37

Candidate Starts for MrGreen_17:

(Start: 37 @13591 has 140 MA's), (Start: 39 @13597 has 6 MA's), (Start: 44 @13630 has 1 MA's), (Start: 45 @13663 has 2 MA's), (55, 13756), (56, 13780), (62, 13819), (68, 13855), (95, 14104), (96, 14119), (104, 14188),

Gene: Myram_17 Start: 13563, Stop: 14249, Start Num: 37

Candidate Starts for Myram_17:

(Start: 37 @13563 has 140 MA's), (Start: 39 @13569 has 6 MA's), (Start: 44 @13602 has 1 MA's), (Start: 45 @13635 has 2 MA's), (55, 13728), (56, 13752), (57, 13755), (62, 13791), (68, 13830), (80, 13932), (96, 14094), (104, 14154),

Gene: Namsahir_18 Start: 13177, Stop: 13872, Start Num: 37

Candidate Starts for Namsahir_18:

(Start: 37 @13177 has 140 MA's), (Start: 39 @13183 has 6 MA's), (Start: 44 @13216 has 1 MA's), (Start: 45 @13249 has 2 MA's), (55, 13342), (56, 13366), (57, 13369), (62, 13405), (68, 13444), (75, 13516), (80, 13546), (96, 13708), (104, 13777),

Gene: NeumannU_17 Start: 13635, Stop: 14330, Start Num: 37

Candidate Starts for NeumannU_17:

(Start: 37 @13635 has 140 MA's), (Start: 39 @13641 has 6 MA's), (Start: 44 @13674 has 1 MA's), (Start: 45 @13707 has 2 MA's), (55, 13800), (56, 13824), (57, 13827), (62, 13863), (68, 13902), (80, 14004), (96, 14166), (104, 14235),

Gene: Niffler_17 Start: 13195, Stop: 13890, Start Num: 37

Candidate Starts for Niffler_17:

(Start: 37 @13195 has 140 MA's), (Start: 39 @13201 has 6 MA's), (Start: 44 @13234 has 1 MA's), (Start: 45 @13267 has 2 MA's), (55, 13360), (56, 13384), (57, 13387), (62, 13423), (68, 13462), (75, 13534), (80, 13564), (96, 13726), (104, 13795),

Gene: Nobel_17 Start: 13222, Stop: 13917, Start Num: 37

Candidate Starts for Nobel_17:

(Start: 37 @13222 has 140 MA's), (Start: 39 @13228 has 6 MA's), (Start: 44 @13261 has 1 MA's), (Start: 45 @13294 has 2 MA's), (55, 13387), (56, 13411), (57, 13414), (62, 13450), (68, 13489), (75, 13561), (80, 13591), (96, 13753), (104, 13822),

Gene: Noelani_17 Start: 13525, Stop: 14217, Start Num: 37

Candidate Starts for Noelani_17:

(5, 13351), (Start: 37 @13525 has 140 MA's), (Start: 39 @13531 has 6 MA's), (Start: 44 @13564 has 1 MA's), (Start: 50 @13672 has 1 MA's), (55, 13690), (56, 13714), (57, 13717), (62, 13753), (68, 13789), (96, 14053), (104, 14122), (106, 14158),

Gene: Oaklynn_17 Start: 13568, Stop: 14260, Start Num: 37

Candidate Starts for Oaklynn_17:

(Start: 37 @13568 has 140 MA's), (Start: 39 @13574 has 6 MA's), (Start: 44 @13607 has 1 MA's), (Start: 45 @13640 has 2 MA's), (55, 13733), (56, 13757), (57, 13760), (62, 13796), (68, 13832), (95, 14081), (96, 14096), (106, 14201),

Gene: Oatly_39 Start: 37849, Stop: 38709, Start Num: 36

Candidate Starts for Oatly_39:

(1, 37534), (3, 37603), (4, 37630), (7, 37675), (9, 37690), (18, 37750), (20, 37756), (21, 37759), (24, 37789), (25, 37792), (27, 37798), (28, 37801), (30, 37816), (Start: 36 @37849 has 7 MA's), (41, 37882), (49, 37987), (51, 38005), (61, 38089), (70, 38155), (75, 38203), (82, 38257), (83, 38266),

Gene: Octopus_17 Start: 13563, Stop: 14249, Start Num: 37

Candidate Starts for Octopus_17:

(Start: 37 @13563 has 140 MA's), (Start: 39 @13569 has 6 MA's), (Start: 44 @13602 has 1 MA's), (Start: 45 @13635 has 2 MA's), (55, 13728), (56, 13752), (57, 13755), (62, 13791), (68, 13830), (80, 13932), (96, 14094), (104, 14154),

Gene: OdetoJoy_17 Start: 13716, Stop: 14411, Start Num: 37

Candidate Starts for OdetoJoy_17:

(Start: 37 @13716 has 140 MA's), (Start: 39 @13722 has 6 MA's), (Start: 44 @13755 has 1 MA's), (Start: 45 @13788 has 2 MA's), (55, 13881), (56, 13905), (57, 13908), (62, 13944), (68, 13983), (80, 14085), (96, 14247), (104, 14316),

Gene: Otwor_17 Start: 13643, Stop: 14338, Start Num: 37

Candidate Starts for Otwor_17:

(Start: 37 @13643 has 140 MA's), (Start: 39 @13649 has 6 MA's), (Start: 44 @13682 has 1 MA's), (Start: 45 @13715 has 2 MA's), (55, 13808), (56, 13832), (57, 13835), (62, 13871), (68, 13910), (80, 14012), (96, 14174), (104, 14243),

Gene: Owens_17 Start: 13635, Stop: 14330, Start Num: 37

Candidate Starts for Owens_17:

(Start: 37 @13635 has 140 MA's), (Start: 39 @13641 has 6 MA's), (Start: 44 @13674 has 1 MA's), (Start: 45 @13707 has 2 MA's), (55, 13800), (56, 13824), (57, 13827), (62, 13863), (68, 13902), (80, 14004), (96, 14166), (104, 14235),

Gene: Pabst_37 Start: 37910, Stop: 38773, Start Num: 36

Candidate Starts for Pabst_37:

(2, 37643), (3, 37670), (4, 37697), (13, 37784), (20, 37823), (21, 37826), (24, 37856), (28, 37868), (Start: 36 @37910 has 7 MA's), (60, 38144), (66, 38174), (75, 38264), (82, 38318), (83, 38327), (86, 38366), (93, 38432), (98, 38498),

Gene: PaoPu_17 Start: 13563, Stop: 14249, Start Num: 37

Candidate Starts for PaoPu_17:

(Start: 37 @13563 has 140 MA's), (Start: 39 @13569 has 6 MA's), (Start: 44 @13602 has 1 MA's), (Start: 45 @13635 has 2 MA's), (55, 13728), (56, 13752), (57, 13755), (62, 13791), (68, 13830), (80, 13932), (96, 14094), (104, 14154),

Gene: PensacolaC28_13 Start: 11328, Stop: 12149, Start Num: 50

Candidate Starts for PensacolaC28_13:

(15, 11043), (43, 11217), (46, 11256), (Start: 50 @11328 has 1 MA's), (57, 11385), (100, 11763), (102, 11811), (103, 11814), (110, 11913),

Gene: Pharky_39 Start: 40567, Stop: 41514, Start Num: 35

Candidate Starts for Pharky_39:

(Start: 35 @40567 has 41 MA's), (Start: 44 @40615 has 1 MA's), (65, 40828), (68, 40849), (84, 40993), (90, 41059), (94, 41110), (109, 41254), (125, 41464),

Gene: Phedro_39 Start: 40567, Stop: 41514, Start Num: 35

Candidate Starts for Phedro_39:

(Start: 35 @40567 has 41 MA's), (Start: 44 @40615 has 1 MA's), (65, 40828), (68, 40849), (84, 40993), (90, 41059), (94, 41110), (109, 41254), (125, 41464),

Gene: Phogo_38 Start: 38073, Stop: 39038, Start Num: 35

Candidate Starts for Phogo_38:

(Start: 35 @38073 has 41 MA's), (52, 38247), (60, 38322), (64, 38346), (66, 38352), (68, 38370), (79, 38475), (82, 38496), (83, 38505), (90, 38586), (125, 38988), (126, 39024),

Gene: Phracted_39 Start: 40567, Stop: 41514, Start Num: 35

Candidate Starts for Phracted_39:

(Start: 35 @40567 has 41 MA's), (Start: 44 @40615 has 1 MA's), (65, 40828), (68, 40849), (84, 40993), (90, 41059), (94, 41110), (109, 41254), (125, 41464),

Gene: PhriedRice_40 Start: 40671, Stop: 41618, Start Num: 35

Candidate Starts for PhriedRice_40:

(Start: 35 @40671 has 41 MA's), (Start: 44 @40719 has 1 MA's), (65, 40932), (68, 40953), (84, 41097), (90, 41163), (94, 41214), (109, 41358), (125, 41568),

Gene: Picconator_17 Start: 13635, Stop: 14330, Start Num: 37

Candidate Starts for Picconator_17:

(Start: 37 @13635 has 140 MA's), (Start: 39 @13641 has 6 MA's), (Start: 44 @13674 has 1 MA's), (Start: 45 @13707 has 2 MA's), (55, 13800), (56, 13824), (57, 13827), (62, 13863), (68, 13902), (80, 14004), (96, 14166), (104, 14235),

Gene: Picnic_17 Start: 13563, Stop: 14249, Start Num: 37

Candidate Starts for Picnic_17:

(Start: 37 @13563 has 140 MA's), (Start: 39 @13569 has 6 MA's), (Start: 44 @13602 has 1 MA's), (Start: 45 @13635 has 2 MA's), (55, 13728), (56, 13752), (57, 13755), (62, 13791), (68, 13830), (80, 13932), (96, 14094), (104, 14154),

Gene: PineapplePluto_40 Start: 38211, Stop: 39071, Start Num: 36

Candidate Starts for PineapplePluto_40:

(1, 37896), (3, 37965), (4, 37992), (7, 38037), (9, 38052), (18, 38112), (20, 38118), (21, 38121), (24, 38151), (25, 38154), (27, 38160), (28, 38163), (30, 38178), (Start: 36 @38211 has 7 MA's), (41, 38244), (49, 38349), (51, 38367), (61, 38451), (70, 38517), (75, 38565), (82, 38619), (83, 38628),

Gene: PoRanda_17 Start: 13693, Stop: 14388, Start Num: 37

Candidate Starts for PoRanda_17:

(29, 13660), (Start: 37 @13693 has 140 MA's), (Start: 39 @13699 has 6 MA's), (Start: 44 @13732 has 1 MA's), (Start: 45 @13765 has 2 MA's), (55, 13858), (56, 13882), (57, 13885), (62, 13921), (68, 13960), (75, 14032), (80, 14062), (96, 14224), (104, 14293),

Gene: Pondwater_17 Start: 13563, Stop: 14249, Start Num: 37

Candidate Starts for Pondwater_17:

(Start: 37 @13563 has 140 MA's), (Start: 39 @13569 has 6 MA's), (Start: 44 @13602 has 1 MA's), (Start: 45 @13635 has 2 MA's), (55, 13728), (56, 13752), (57, 13755), (62, 13791), (68, 13830), (80, 13932), (96, 14094), (104, 14154),

Gene: Publix_17 Start: 13177, Stop: 13872, Start Num: 37

Candidate Starts for Publix_17:

(Start: 37 @13177 has 140 MA's), (Start: 39 @13183 has 6 MA's), (Start: 44 @13216 has 1 MA's),
(Start: 45 @13249 has 2 MA's), (55, 13342), (56, 13366), (57, 13369), (62, 13405), (68, 13444), (75,
13516), (80, 13546), (96, 13708), (104, 13777),

Gene: Puddles3_17 Start: 13563, Stop: 14249, Start Num: 37

Candidate Starts for Puddles3_17:

(Start: 37 @13563 has 140 MA's), (Start: 39 @13569 has 6 MA's), (Start: 44 @13602 has 1 MA's),
(Start: 45 @13635 has 2 MA's), (55, 13728), (56, 13752), (57, 13755), (62, 13791), (68, 13830), (80,
13932), (96, 14094), (104, 14154),

Gene: PuffyCat_17 Start: 13147, Stop: 13842, Start Num: 37

Candidate Starts for PuffyCat_17:

(Start: 37 @13147 has 140 MA's), (Start: 39 @13153 has 6 MA's), (Start: 44 @13186 has 1 MA's),
(Start: 45 @13219 has 2 MA's), (55, 13312), (56, 13336), (57, 13339), (62, 13375), (68, 13414), (75,
13486), (80, 13516), (96, 13678), (104, 13747),

Gene: Quaker_17 Start: 13624, Stop: 14316, Start Num: 37

Candidate Starts for Quaker_17:

(Start: 37 @13624 has 140 MA's), (Start: 39 @13630 has 6 MA's), (Start: 44 @13663 has 1 MA's),
(Start: 45 @13696 has 2 MA's), (55, 13789), (56, 13813), (57, 13816), (62, 13852), (68, 13888), (95,
14137), (96, 14152), (104, 14221), (106, 14257),

Gene: Rhogar_17 Start: 13635, Stop: 14330, Start Num: 37

Candidate Starts for Rhogar_17:

(Start: 37 @13635 has 140 MA's), (Start: 39 @13641 has 6 MA's), (Start: 44 @13674 has 1 MA's),
(Start: 45 @13707 has 2 MA's), (55, 13800), (56, 13824), (57, 13827), (62, 13863), (68, 13902), (80,
14004), (96, 14166), (104, 14235),

Gene: Rhysand_17 Start: 13642, Stop: 14337, Start Num: 37

Candidate Starts for Rhysand_17:

(Start: 37 @13642 has 140 MA's), (Start: 39 @13648 has 6 MA's), (Start: 44 @13681 has 1 MA's),
(Start: 45 @13714 has 2 MA's), (55, 13807), (56, 13831), (57, 13834), (62, 13870), (68, 13909), (80,
14011), (96, 14173), (104, 14242),

Gene: RicoCaldo_39 Start: 40649, Stop: 41596, Start Num: 35

Candidate Starts for RicoCaldo_39:

(Start: 35 @40649 has 41 MA's), (Start: 44 @40697 has 1 MA's), (65, 40910), (68, 40931), (84, 41075),
(90, 41141), (94, 41192), (109, 41336), (125, 41546),

Gene: Rira_17 Start: 13153, Stop: 13848, Start Num: 37

Candidate Starts for Rira_17:

(Start: 37 @13153 has 140 MA's), (Start: 39 @13159 has 6 MA's), (Start: 44 @13192 has 1 MA's),
(Start: 45 @13225 has 2 MA's), (55, 13318), (56, 13342), (57, 13345), (62, 13381), (68, 13420), (75,
13492), (80, 13522), (96, 13684), (104, 13753),

Gene: RoscoWindex_17 Start: 13642, Stop: 14337, Start Num: 37

Candidate Starts for RoscoWindex_17:

(Start: 37 @13642 has 140 MA's), (Start: 39 @13648 has 6 MA's), (Start: 44 @13681 has 1 MA's),
(Start: 45 @13714 has 2 MA's), (55, 13807), (56, 13831), (57, 13834), (62, 13870), (68, 13909), (80,
14011), (96, 14173), (104, 14242),

Gene: Sachet_17 Start: 13563, Stop: 14249, Start Num: 37

Candidate Starts for Sachet_17:

(Start: 37 @13563 has 140 MA's), (Start: 39 @13569 has 6 MA's), (Start: 44 @13602 has 1 MA's),
(Start: 45 @13635 has 2 MA's), (55, 13728), (56, 13752), (57, 13755), (62, 13791), (68, 13830), (80,
13932), (96, 14094), (104, 14154),

Gene: Sage7_17 Start: 13641, Stop: 14336, Start Num: 37

Candidate Starts for Sage7_17:

(Start: 37 @13641 has 140 MA's), (Start: 39 @13647 has 6 MA's), (Start: 44 @13680 has 1 MA's),
(Start: 45 @13713 has 2 MA's), (55, 13806), (56, 13830), (57, 13833), (62, 13869), (68, 13908), (80,
14010), (96, 14172), (104, 14241),

Gene: Salvatore2000_38 Start: 39685, Stop: 40626, Start Num: 39

Candidate Starts for Salvatore2000_38:

(Start: 39 @39685 has 6 MA's), (53, 39829), (56, 39871), (64, 39925), (83, 40081), (90, 40147), (124,
40573), (125, 40576),

Gene: SantasSleigh_17 Start: 13665, Stop: 14360, Start Num: 37

Candidate Starts for SantasSleigh_17:

(Start: 37 @13665 has 140 MA's), (Start: 39 @13671 has 6 MA's), (Start: 44 @13704 has 1 MA's),
(Start: 45 @13737 has 2 MA's), (55, 13830), (56, 13854), (57, 13857), (62, 13893), (68, 13932), (80,
14034), (96, 14196), (104, 14265),

Gene: Sara_17 Start: 13563, Stop: 14249, Start Num: 37

Candidate Starts for Sara_17:

(Start: 37 @13563 has 140 MA's), (Start: 39 @13569 has 6 MA's), (Start: 44 @13602 has 1 MA's),
(Start: 45 @13635 has 2 MA's), (55, 13728), (56, 13752), (57, 13755), (62, 13791), (68, 13830), (80,
13932), (96, 14094), (104, 14154),

Gene: Scamander_17 Start: 13641, Stop: 14336, Start Num: 37

Candidate Starts for Scamander_17:

(Start: 37 @13641 has 140 MA's), (Start: 39 @13647 has 6 MA's), (Start: 44 @13680 has 1 MA's),
(Start: 45 @13713 has 2 MA's), (55, 13806), (56, 13830), (57, 13833), (62, 13869), (68, 13908), (80,
14010), (96, 14172), (104, 14241),

Gene: Scrunchy_17 Start: 13635, Stop: 14330, Start Num: 37

Candidate Starts for Scrunchy_17:

(Start: 37 @13635 has 140 MA's), (Start: 39 @13641 has 6 MA's), (Start: 44 @13674 has 1 MA's),
(Start: 45 @13707 has 2 MA's), (55, 13800), (56, 13824), (57, 13827), (62, 13863), (68, 13902), (80,
14004), (96, 14166), (104, 14235),

Gene: SeaWolves_17 Start: 13563, Stop: 14249, Start Num: 37

Candidate Starts for SeaWolves_17:

(Start: 37 @13563 has 140 MA's), (Start: 39 @13569 has 6 MA's), (Start: 44 @13602 has 1 MA's),
(Start: 45 @13635 has 2 MA's), (55, 13728), (56, 13752), (57, 13755), (62, 13791), (68, 13830), (80,
13932), (96, 14094), (104, 14154),

Gene: ShyRosie_39 Start: 40647, Stop: 41618, Start Num: 35

Candidate Starts for ShyRosie_39:

(Start: 35 @40647 has 41 MA's), (65, 40908), (68, 40929), (84, 41073), (85, 41097), (89, 41133), (117,
41478), (122, 41541), (125, 41568),

Gene: Sippinontea_17 Start: 13656, Stop: 14339, Start Num: 37

Candidate Starts for Sippinontea_17:

(Start: 37 @13656 has 140 MA's), (Start: 39 @13662 has 6 MA's), (Start: 44 @13695 has 1 MA's),
(Start: 45 @13728 has 2 MA's), (55, 13821), (56, 13845), (57, 13848), (62, 13884), (68, 13920), (96,
14184), (104, 14244),

Gene: Slentz_17 Start: 13635, Stop: 14330, Start Num: 37

Candidate Starts for Slentz_17:

(Start: 37 @13635 has 140 MA's), (Start: 39 @13641 has 6 MA's), (Start: 44 @13674 has 1 MA's),
(Start: 45 @13707 has 2 MA's), (55, 13800), (56, 13824), (57, 13827), (62, 13863), (68, 13902), (80,
14004), (96, 14166), (104, 14235),

Gene: Slizam_17 Start: 13153, Stop: 13848, Start Num: 37

Candidate Starts for Slizam_17:

(Start: 37 @13153 has 140 MA's), (Start: 39 @13159 has 6 MA's), (Start: 44 @13192 has 1 MA's),
(Start: 45 @13225 has 2 MA's), (55, 13318), (56, 13342), (57, 13345), (62, 13381), (68, 13420), (75,
13492), (80, 13522), (96, 13684), (104, 13753),

Gene: Snuffles_18 Start: 13331, Stop: 14020, Start Num: 39

Candidate Starts for Snuffles_18:

(Start: 37 @13325 has 140 MA's), (Start: 39 @13331 has 6 MA's), (Start: 44 @13364 has 1 MA's),
(Start: 45 @13397 has 2 MA's), (55, 13490), (56, 13514), (57, 13517), (62, 13553), (68, 13592), (75,
13664), (80, 13694), (96, 13856), (104, 13925),

Gene: SoilSleuth_41 Start: 40469, Stop: 41440, Start Num: 35

Candidate Starts for SoilSleuth_41:

(Start: 35 @40469 has 41 MA's), (65, 40730), (68, 40751), (84, 40895), (85, 40919), (89, 40955), (117,
41300), (122, 41363), (125, 41390),

Gene: Sorvannah_38 Start: 39685, Stop: 40626, Start Num: 39

Candidate Starts for Sorvannah_38:

(Start: 39 @39685 has 6 MA's), (53, 39829), (56, 39871), (64, 39925), (83, 40081), (90, 40147), (124,
40573), (125, 40576),

Gene: StagePhright_39 Start: 40567, Stop: 41514, Start Num: 35

Candidate Starts for StagePhright_39:

(Start: 35 @40567 has 41 MA's), (Start: 44 @40615 has 1 MA's), (65, 40828), (68, 40849), (84, 40993),
(90, 41059), (94, 41110), (109, 41254), (125, 41464),

Gene: Stem_17 Start: 13153, Stop: 13848, Start Num: 37

Candidate Starts for Stem_17:

(Start: 37 @13153 has 140 MA's), (Start: 39 @13159 has 6 MA's), (Start: 44 @13192 has 1 MA's),
(Start: 45 @13225 has 2 MA's), (55, 13318), (56, 13342), (57, 13345), (62, 13381), (68, 13420), (75,
13492), (80, 13522), (96, 13684), (104, 13753),

Gene: Stormbreaker_38 Start: 38167, Stop: 39126, Start Num: 35

Candidate Starts for Stormbreaker_38:

(Start: 35 @38167 has 41 MA's), (52, 38341), (60, 38416), (64, 38440), (66, 38446), (82, 38590), (83,
38599), (90, 38674), (125, 39076), (126, 39112),

Gene: SwissCheezer_37 Start: 37813, Stop: 38778, Start Num: 35

Candidate Starts for SwissCheezer_37:

(Start: 35 @37813 has 41 MA's), (52, 37987), (66, 38092), (82, 38236), (83, 38245), (90, 38326), (125,
38728), (126, 38764),

Gene: TeddyBoy_17 Start: 13636, Stop: 14331, Start Num: 37

Candidate Starts for TeddyBoy_17:

(Start: 37 @13636 has 140 MA's), (Start: 39 @13642 has 6 MA's), (Start: 44 @13675 has 1 MA's), (Start: 45 @13708 has 2 MA's), (55, 13801), (56, 13825), (57, 13828), (62, 13864), (68, 13903), (80, 14005), (96, 14167), (104, 14236),

Gene: ThirteenKH_39 Start: 40021, Stop: 40920, Start Num: 44

Candidate Starts for ThirteenKH_39:

(Start: 32 @39949 has 1 MA's), (Start: 35 @39973 has 41 MA's), (Start: 44 @40021 has 1 MA's), (65, 40234), (68, 40255), (84, 40399), (90, 40465), (94, 40516), (109, 40660), (125, 40870),

Gene: TicTac_39 Start: 38210, Stop: 39070, Start Num: 36

Candidate Starts for TicTac_39:

(1, 37895), (3, 37964), (4, 37991), (7, 38036), (9, 38051), (11, 38066), (18, 38111), (20, 38117), (21, 38120), (24, 38150), (25, 38153), (27, 38159), (28, 38162), (30, 38177), (Start: 36 @38210 has 7 MA's), (41, 38243), (49, 38348), (51, 38366), (61, 38450), (70, 38516), (75, 38564), (82, 38618), (83, 38627),

Gene: TimoTea_17 Start: 13617, Stop: 14312, Start Num: 37

Candidate Starts for TimoTea_17:

(Start: 37 @13617 has 140 MA's), (Start: 39 @13623 has 6 MA's), (Start: 44 @13656 has 1 MA's), (Start: 45 @13689 has 2 MA's), (55, 13782), (56, 13806), (57, 13809), (62, 13845), (68, 13884), (80, 13986), (96, 14148), (104, 14217),

Gene: TinyTimothy_37 Start: 39685, Stop: 40626, Start Num: 39

Candidate Starts for TinyTimothy_37:

(Start: 39 @39685 has 6 MA's), (53, 39829), (56, 39871), (64, 39925), (83, 40081), (124, 40573), (125, 40576),

Gene: TinyTruffula_17 Start: 13222, Stop: 13917, Start Num: 37

Candidate Starts for TinyTruffula_17:

(Start: 37 @13222 has 140 MA's), (Start: 39 @13228 has 6 MA's), (Start: 44 @13261 has 1 MA's), (Start: 45 @13294 has 2 MA's), (55, 13387), (56, 13411), (57, 13414), (62, 13450), (68, 13489), (75, 13561), (80, 13591), (96, 13753), (104, 13822),

Gene: TlaliMex_18 Start: 13760, Stop: 14416, Start Num: 44

Candidate Starts for TlaliMex_18:

(29, 13688), (Start: 37 @13721 has 140 MA's), (Start: 39 @13727 has 6 MA's), (Start: 44 @13760 has 1 MA's), (55, 13886), (56, 13910), (57, 13913), (62, 13949), (68, 13988), (75, 14060), (80, 14090), (96, 14252), (104, 14321),

Gene: TomBrady12_17 Start: 13154, Stop: 13849, Start Num: 37

Candidate Starts for TomBrady12_17:

(Start: 37 @13154 has 140 MA's), (Start: 39 @13160 has 6 MA's), (Start: 44 @13193 has 1 MA's), (Start: 45 @13226 has 2 MA's), (55, 13319), (56, 13343), (57, 13346), (62, 13382), (68, 13421), (75, 13493), (80, 13523), (96, 13685), (104, 13754),

Gene: TownLake_36 Start: 37938, Stop: 38906, Start Num: 35

Candidate Starts for TownLake_36:

(Start: 35 @37938 has 41 MA's), (52, 38112), (60, 38187), (63, 38208), (64, 38211), (66, 38217), (79, 38340), (82, 38361), (83, 38370), (109, 38646), (125, 38856),

Gene: Toxicola_18 Start: 13471, Stop: 14163, Start Num: 37

Candidate Starts for Toxicola_18:

(Start: 37 @13471 has 140 MA's), (Start: 39 @13477 has 6 MA's), (Start: 44 @13510 has 1 MA's), (Start: 45 @13543 has 2 MA's), (55, 13636), (56, 13660), (62, 13699), (68, 13735), (95, 13984), (96, 13999), (104, 14068),

Gene: Trackstar_17 Start: 13222, Stop: 13917, Start Num: 37

Candidate Starts for Trackstar_17:

(Start: 37 @13222 has 140 MA's), (Start: 39 @13228 has 6 MA's), (Start: 44 @13261 has 1 MA's), (Start: 45 @13294 has 2 MA's), (55, 13387), (56, 13411), (57, 13414), (62, 13450), (68, 13489), (75, 13561), (80, 13591), (96, 13753), (104, 13822), (106, 13858),

Gene: TrippleS_38 Start: 40121, Stop: 41068, Start Num: 35

Candidate Starts for TrippleS_38:

(8, 39956), (10, 39974), (14, 39992), (16, 40016), (17, 40019), (19, 40028), (26, 40067), (Start: 35 @40121 has 41 MA's), (Start: 44 @40169 has 1 MA's), (65, 40382), (68, 40403), (77, 40487), (84, 40547), (90, 40613), (94, 40664), (109, 40808), (125, 41018),

Gene: Trireme_17 Start: 13220, Stop: 13915, Start Num: 37

Candidate Starts for Trireme_17:

(Start: 37 @13220 has 140 MA's), (Start: 39 @13226 has 6 MA's), (Start: 44 @13259 has 1 MA's), (Start: 45 @13292 has 2 MA's), (55, 13385), (56, 13409), (57, 13412), (62, 13448), (68, 13487), (75, 13559), (80, 13589), (96, 13751), (104, 13820), (106, 13856),

Gene: Truong_39 Start: 40427, Stop: 41398, Start Num: 35

Candidate Starts for Truong_39:

(Start: 35 @40427 has 41 MA's), (65, 40688), (68, 40709), (84, 40853), (85, 40877), (89, 40913), (117, 41258), (122, 41321), (125, 41348),

Gene: Tyrellus_17 Start: 13635, Stop: 14330, Start Num: 37

Candidate Starts for Tyrellus_17:

(Start: 37 @13635 has 140 MA's), (Start: 39 @13641 has 6 MA's), (Start: 44 @13674 has 1 MA's), (Start: 45 @13707 has 2 MA's), (55, 13800), (56, 13824), (57, 13827), (62, 13863), (68, 13902), (80, 14004), (96, 14166), (104, 14235),

Gene: Unphazed_38 Start: 38043, Stop: 39002, Start Num: 35

Candidate Starts for Unphazed_38:

(Start: 35 @38043 has 41 MA's), (52, 38217), (66, 38322), (82, 38466), (83, 38475), (90, 38550), (125, 38952), (126, 38988),

Gene: Upsilon_17 Start: 13693, Stop: 14388, Start Num: 37

Candidate Starts for Upsilon_17:

(29, 13660), (Start: 37 @13693 has 140 MA's), (Start: 39 @13699 has 6 MA's), (Start: 44 @13732 has 1 MA's), (Start: 45 @13765 has 2 MA's), (55, 13858), (56, 13882), (57, 13885), (62, 13921), (68, 13960), (75, 14032), (80, 14062), (96, 14224), (104, 14293),

Gene: ValentiniPuff_75 Start: 42759, Stop: 43736, Start Num: 34

Candidate Starts for ValentiniPuff_75:

(Start: 34 @42759 has 1 MA's), (68, 43047), (69, 43068), (74, 43107), (87, 43230), (88, 43239), (92, 43281), (97, 43347), (107, 43473), (112, 43542), (120, 43662), (121, 43674), (123, 43677),

Gene: Vanisius_17 Start: 13642, Stop: 14337, Start Num: 37

Candidate Starts for Vanisius_17:

(Start: 37 @13642 has 140 MA's), (Start: 39 @13648 has 6 MA's), (Start: 44 @13681 has 1 MA's), (Start: 45 @13714 has 2 MA's), (55, 13807), (56, 13831), (57, 13834), (62, 13870), (68, 13909), (80, 14011), (96, 14173), (104, 14242),

Gene: VitulaEligans_17 Start: 13723, Stop: 14418, Start Num: 37

Candidate Starts for VitulaEligans_17:

(Start: 37 @13723 has 140 MA's), (Start: 39 @13729 has 6 MA's), (Start: 44 @13762 has 1 MA's), (Start: 45 @13795 has 2 MA's), (55, 13888), (56, 13912), (57, 13915), (62, 13951), (68, 13990), (80, 14092), (96, 14254), (104, 14323),

Gene: Waterlily_42 Start: 40681, Stop: 41652, Start Num: 35

Candidate Starts for Waterlily_42:

(Start: 35 @40681 has 41 MA's), (65, 40942), (68, 40963), (84, 41107), (85, 41131), (89, 41167), (117, 41512), (122, 41575), (125, 41602),

Gene: Wesak_38 Start: 39527, Stop: 40468, Start Num: 39

Candidate Starts for Wesak_38:

(Start: 39 @39527 has 6 MA's), (53, 39671), (56, 39713), (64, 39767), (83, 39923), (90, 39989), (124, 40415), (125, 40418),

Gene: Witch_17 Start: 13564, Stop: 14250, Start Num: 37

Candidate Starts for Witch_17:

(Start: 37 @13564 has 140 MA's), (Start: 39 @13570 has 6 MA's), (Start: 44 @13603 has 1 MA's), (Start: 45 @13636 has 2 MA's), (55, 13729), (56, 13753), (57, 13756), (62, 13792), (68, 13831), (80, 13933), (96, 14095), (104, 14155),

Gene: Wolfpack_17 Start: 13638, Stop: 14321, Start Num: 37

Candidate Starts for Wolfpack_17:

(Start: 37 @13638 has 140 MA's), (Start: 39 @13644 has 6 MA's), (Start: 44 @13677 has 1 MA's), (Start: 45 @13710 has 2 MA's), (55, 13803), (56, 13827), (57, 13830), (62, 13866), (68, 13902), (96, 14166), (104, 14226),

Gene: Xitlalli_36 Start: 38035, Stop: 39003, Start Num: 35

Candidate Starts for Xitlalli_36:

(Start: 35 @38035 has 41 MA's), (52, 38209), (60, 38284), (64, 38308), (66, 38314), (79, 38437), (82, 38458), (83, 38467), (109, 38743), (125, 38953),

Gene: Yafa_40 Start: 39925, Stop: 40824, Start Num: 44

Candidate Starts for Yafa_40:

(Start: 32 @39853 has 1 MA's), (Start: 35 @39877 has 41 MA's), (Start: 44 @39925 has 1 MA's), (65, 40138), (68, 40159), (84, 40303), (90, 40369), (94, 40420), (109, 40564), (125, 40774),

Gene: Yami_17 Start: 13177, Stop: 13800, Start Num: 45

Candidate Starts for Yami_17:

(Start: 37 @13105 has 140 MA's), (Start: 39 @13111 has 6 MA's), (Start: 44 @13144 has 1 MA's), (Start: 45 @13177 has 2 MA's), (55, 13270), (56, 13294), (57, 13297), (62, 13333), (68, 13372), (75, 13444), (80, 13474), (96, 13636), (104, 13705),

Gene: Yasuo_17 Start: 13626, Stop: 14321, Start Num: 37

Candidate Starts for Yasuo_17:

(Start: 37 @13626 has 140 MA's), (Start: 39 @13632 has 6 MA's), (Start: 44 @13665 has 1 MA's), (Start: 45 @13698 has 2 MA's), (55, 13791), (56, 13815), (57, 13818), (62, 13854), (68, 13893), (80, 13995), (96, 14157), (104, 14226),

Gene: YellowPanda_40 Start: 39408, Stop: 40349, Start Num: 39

Candidate Starts for YellowPanda_40:

(Start: 39 @39408 has 6 MA's), (53, 39552), (56, 39594), (64, 39648), (83, 39804), (124, 40296), (125, 40299),

Gene: YertPhresh_17 Start: 13563, Stop: 14249, Start Num: 37

Candidate Starts for YertPhresh_17:

(Start: 37 @13563 has 140 MA's), (Start: 39 @13569 has 6 MA's), (Start: 44 @13602 has 1 MA's), (Start: 45 @13635 has 2 MA's), (55, 13728), (56, 13752), (57, 13755), (62, 13791), (68, 13830), (80, 13932), (96, 14094), (104, 14154),

Gene: Yubaba_17 Start: 13597, Stop: 14283, Start Num: 37

Candidate Starts for Yubaba_17:

(Start: 37 @13597 has 140 MA's), (Start: 39 @13603 has 6 MA's), (Start: 44 @13636 has 1 MA's), (Start: 45 @13669 has 2 MA's), (55, 13762), (56, 13786), (57, 13789), (62, 13825), (68, 13864), (80, 13966), (96, 14128), (104, 14188),

Gene: Zahlia_17 Start: 13671, Stop: 14366, Start Num: 37

Candidate Starts for Zahlia_17:

(Start: 37 @13671 has 140 MA's), (Start: 39 @13677 has 6 MA's), (Start: 44 @13710 has 1 MA's), (Start: 45 @13743 has 2 MA's), (55, 13836), (56, 13860), (57, 13863), (62, 13899), (68, 13938), (80, 14040), (96, 14202), (104, 14271),

Gene: Zeta1847_19 Start: 17757, Stop: 18641, Start Num: 37

Candidate Starts for Zeta1847_19:

(Start: 37 @17757 has 140 MA's), (62, 17979), (73, 18072), (92, 18222), (98, 18285), (113, 18465), (119, 18561),

Gene: Zhengyi_38 Start: 41630, Stop: 42598, Start Num: 35

Candidate Starts for Zhengyi_38:

(Start: 35 @41630 has 41 MA's), (58, 41846), (66, 41894), (84, 42056), (125, 42548),