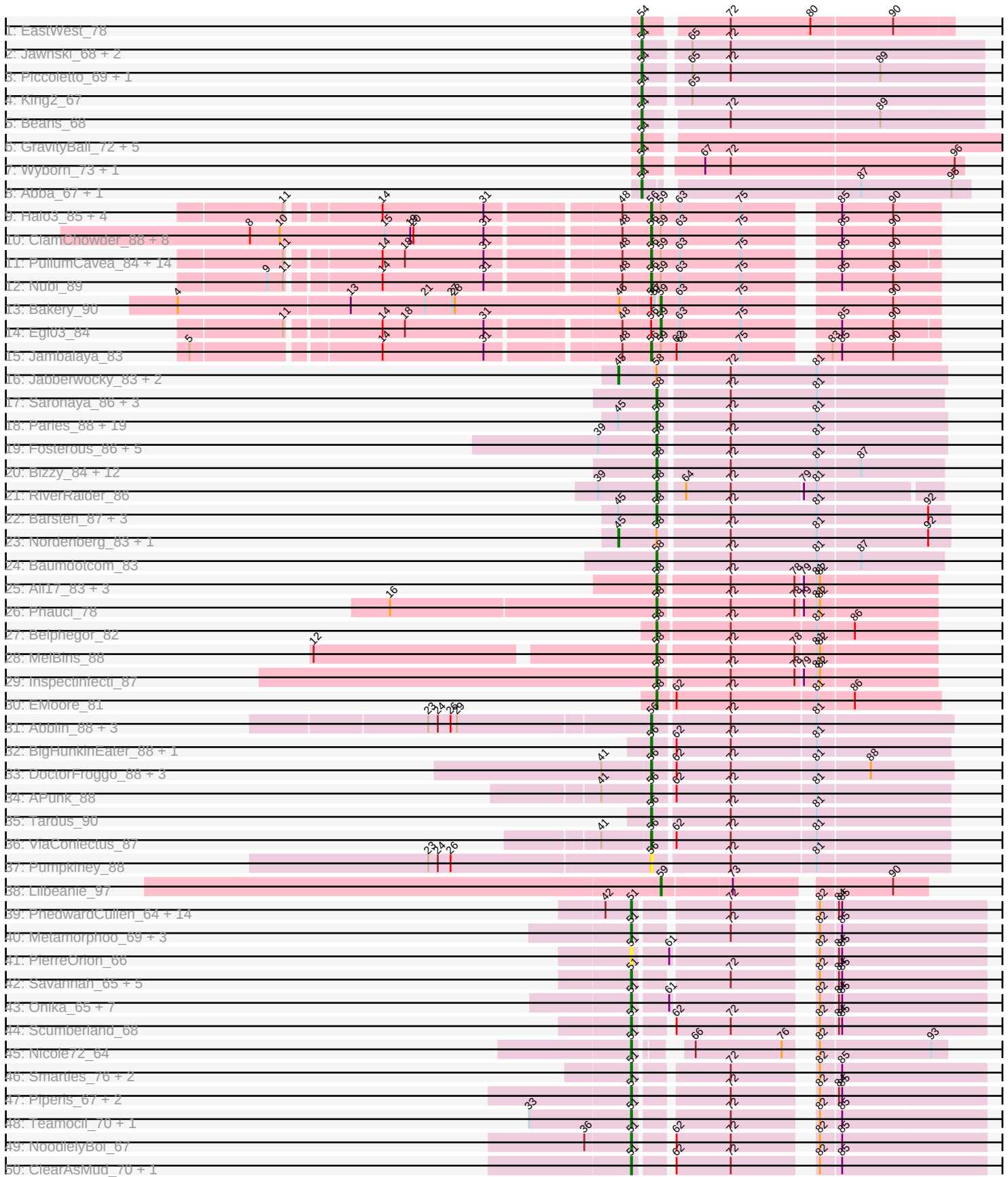
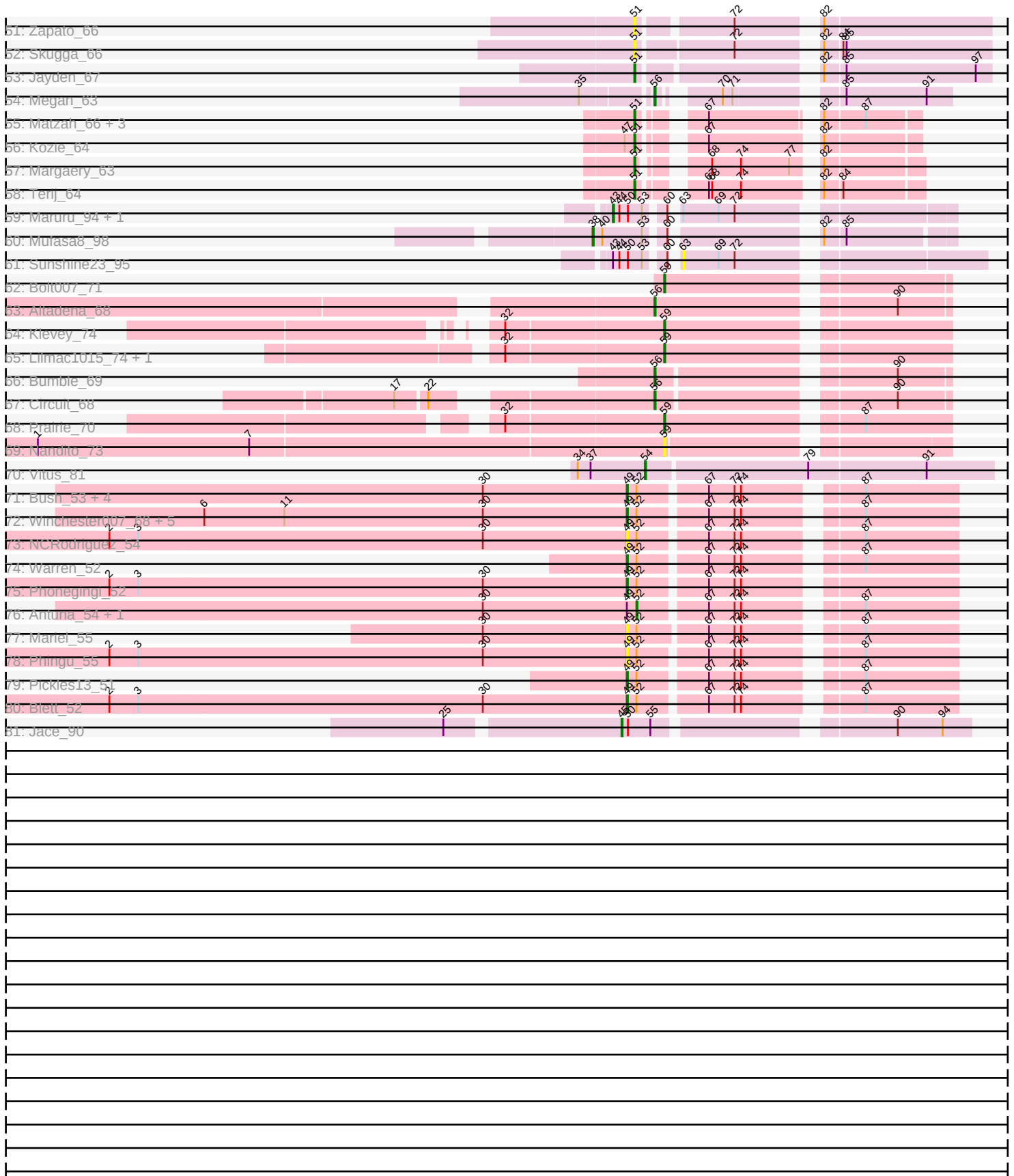






Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly 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 280088 Report

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

Pham number 280088 has 222 members, 29 are drafts.

Phages represented in each track:

- Track 1 : EastWest_78
- Track 2 : Jawnski_68, Brent_69, Franzy_67
- Track 3 : Piccoletto_69, NathanVaag_68
- Track 4 : King2_67
- Track 5 : Beans_68
- Track 6 : GravityBall_72, BigDome_72, Timinator_73, LeeroyJ_73, StevieBAY_73, BarretLemon_72
- Track 7 : Wyborn_73, Sicarius2_74
- Track 8 : Abba_67, Nostromo_67
- Track 9 : Halo3_85, SmokingBunny_87, Salvador_86, Evamon_86, Togo_86
- Track 10 : ClamChowder_88, Barb_89, Danyall_86, TillyBobJoe_84, YungMoney_85, Fugax_89, PinkCoffee_87, CoveyB_87, Mutzi_85
- Track 11 : PullumCavea_84, Twister6_85, Arri_86, Wizard_81, VanDeWege_88, Fireball_89, Valary_87, CherryCola_86, RogerDodger_89, Savbucketdawg_81, Phlop_83, Gezellig_82, KimmyK_84, Portcullis_86, Shinji_85
- Track 12 : Nubi_89
- Track 13 : Bakery_90
- Track 14 : Egi03_84
- Track 15 : Jambalaya_83
- Track 16 : Jabberwocky_83, MoontowerMania_85, Keitabear_82
- Track 17 : Saronaya_86, StorminNorm_85, Gaea_85, Gustavo_86
- Track 18 : Paries_88, BobBob_86, Stultus_79, FuegoCuervo_89, Fitzgerald_82, ChadMasterC_83, Angelicage_83, Shivanishola_86, Kewpiedoll_85, Sanjuju_82, Ailee_82, Baddon_82, Bibwit_82, Affeca_86, McKinley_87, Sitar_83, Love_90, Lennon_84, Brandonk123_88, Sedona_82
- Track 19 : Fosterous_86, Rofo_84, Kamashten_85, Galadriel_85, McCrothy_83, Thing3_85
- Track 20 : Bizzy_84, Kroos_84, YorkOnyx_83, Derg_77, Ribeye_84, Tycho_84, Tangerine_84, Ashertheman_84, Flatwoods_84, LilHam_78, JKSyngboy_81, SchottB_83, Kwobi_86
- Track 21 : RiverRaider_86
- Track 22 : Barsten_87, Tangent_87, Vivi2_88, Geodirt_84
- Track 23 : Nordenberg_83, Charming_87
- Track 24 : Baumdotcom_83
- Track 25 : Ali17_83, Leonard_86, Hans_87, Phinally_86
- Track 26 : Phauci_78
- Track 27 : Belphegor_82

- Track 28 : MelBins_88
- Track 29 : Inspectinfecti_87
- Track 30 : EMoore_81
- Track 31 : Abblin_88, Natkenzie_88, Sampson_90, Scioto_88
- Track 32 : BigHunkinEater_88, Zitch_90
- Track 33 : DoctorFroggo_88, Verity_87, Zipp_88, Delrey21_88
- Track 34 : APunk_88
- Track 35 : Tardus_90
- Track 36 : ViaConlectus_87
- Track 37 : Pumpkiney_88
- Track 38 : Lilbeanie_97
- Track 39 : PhedwardCullen_64, Crisis_67, Antares_66, Phorgeous_66, CrazyRich_65, Honeyfin_67, Phrancesco_66, Busephilis_65, Ganandorf_65, Shotgun_66, Jefe_66, Selwyn23_67, Pulchra_68, Lucretia_66, Glorp_67
- Track 40 : Metamorphoo_69, Tyrumbra_65, Shrubaron_70, RobsFeet_70
- Track 41 : PierreOrion_66
- Track 42 : Savannah_65, Hermeonysus_66, Quhwah_70, BeagleBug_65, LittleFortune_68, Cranjis_67
- Track 43 : Onika_65, Kowalski_65, Rockwell_65, Paschalis_66, BrazzalePHS_65, Jollipop_67, PiperSansNom_67, Ramiel05_65
- Track 44 : Scumberland_68
- Track 45 : Nicole72_64
- Track 46 : Smarties_76, Fireman_69, Ariadne_76
- Track 47 : Piperis_67, KaiHaiDragon_67, EarickHC_67
- Track 48 : Teamocil_70, Gina_70
- Track 49 : NoodlelyBoi_67
- Track 50 : ClearAsMud_70, SirFrank_66
- Track 51 : Zapato_66
- Track 52 : Skugga_66
- Track 53 : Jayden_67
- Track 54 : Megan_63
- Track 55 : Matzah_66, MementoMori_65, Cressida_67, Cinna_64
- Track 56 : Kozie_64
- Track 57 : Margaery_63
- Track 58 : Terij_64
- Track 59 : Maruru_94, Sonali_93
- Track 60 : Mufasa8_98
- Track 61 : Sunshine23_95
- Track 62 : Bolt007_71
- Track 63 : Altadena_68
- Track 64 : Klevey_74
- Track 65 : Lilmac1015_74, CalWood4100_74
- Track 66 : Bumble_69
- Track 67 : Circuit_68
- Track 68 : Prairie_70
- Track 69 : Nandito_73
- Track 70 : Vitus_81
- Track 71 : Bush_53, Violeta_54, Carrillo_54, Jakelyne_55, MenE_54
- Track 72 : Winchester007_68, Guzman_52, CookieDog_52, Dropshot_52, Appa_52, PhillyJawn_53
- Track 73 : NCRodriguez_54
- Track 74 : Warren_52
- Track 75 : Phonegingi_52

- Track 76 : Antuna_54, Losacky_54
- Track 77 : Mariel_55
- Track 78 : Phingu_55
- Track 79 : Pickles13_51
- Track 80 : Blett_52
- Track 81 : Jace_90

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

The start number called the most often in the published annotations is 58, it was called in 56 of the 193 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Affeca_86, Ailee_82, Ali17_83, Angelicage_83, Ashertheman_84, Baddon_82, Barsten_87, Baumdotcom_83, Belphegor_82, Bibwit_82, Bizzy_84, BobBob_86, Brandonk123_88, ChadMasterC_83, Derg_77, EMOore_81, Fitzgerald_82, Flatwoods_84, Fosterous_86, FuegoCuervo_89, Gaea_85, Galadriel_85, Geodirt_84, Gustavo_86, Hans_87, Inspectinfecti_87, JKSyngboy_81, Kamashten_85, Kewpiedoll_85, Kroos_84, Kwobi_86, Lennon_84, Leonard_86, LilHam_78, Love_90, McCrothy_83, McKinley_87, MelBins_88, Paries_88, Phauci_78, Phinally_86, Ribeye_84, RiverRaider_86, Rofo_84, Sanjuju_82, Saronaya_86, SchottB_83, Sedona_82, Shivanishola_86, Sitar_83, StorminNorm_85, Stultus_79, Tangent_87, Tangerine_84, Thing3_85, Tycho_84, Vivi2_88, YorkOnyx_83,

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

- Charming_87, Jabberwocky_83, Keitabear_82, MoontowerMania_85, Nordenberg_83,

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

- APunk_88, Abba_67, Abblin_88, Altadena_68, Antares_66, Antuna_54, Appa_52, Ariadne_76, Arri_86, Bakery_90, Barb_89, BarretLemon_72, BeagleBug_65, Beans_68, BigDome_72, BigHunkinEater_88, Blett_52, Bolt007_71, BrazzaLePHS_65, Brent_69, Bumble_69, Busephilis_65, Bush_53, CalWood4100_74, Carrillo_54, CherryCola_86, Cinna_64, Circuit_68, ClamChowder_88, ClearAsMud_70, CookieDog_52, CoveyB_87, Cranjis_67, CrazyRich_65, Cressida_67, Crisis_67, Danyall_86, Delrey21_88, DoctorFroggo_88, Dropshot_52, EarickHC_67, EastWest_78, Egi03_84, Evamon_86, Fireball_89, Fireman_69, Franzy_67, Fugax_89, Ganandorf_65, Gezellig_82, Gina_70, Glorp_67, GravityBall_72, Guzman_52, Halo3_85, Hermeonysus_66, Honeyfin_67, Jace_90, Jakelyne_55, Jambalaya_83, Jawnski_68, Jayden_67, Jefe_66, Jollipop_67, KaiHaiDragon_67, KimmyK_84, King2_67, Klevey_74, Kowalski_65, Kozie_64, LeeroyJ_73, Lilbeanie_97, Lilmac1015_74, LittleFortune_68, Losacky_54, Lucretia_66, Margaery_63, Mariel_55, Maruru_94, Matzah_66, Megan_63, MementoMori_65, MenE_54, Metamorphoo_69, Mufasa8_98, Mutzi_85, NCRodriguez_54, Nandito_73, NathanVaag_68, Natkenzie_88, Nicole72_64, NoodlelyBoi_67, Nostromo_67, Nubi_89, Onika_65, Paschalis_66, PhedwardCullen_64, PhillyJawn_53, Phingu_55, Phlop_83, Phonegingi_52, Phorgeous_66, Phrancesco_66, Piccoletto_69, Pickles13_51, PierreOrion_66, PinkCoffee_87, PiperSansNom_67, Piperis_67, Portcullis_86, Prairie_70, Pulchra_68, PullumCavea_84, Pumpkiney_88, Quhwah_70, Ramiel05_65,

RobsFeet_70, Rockwell_65, RogerDodger_89, Salvador_86, Sampson_90, Savannah_65, Savbucketdawg_81, Scioto_88, Scumberland_68, Selwyn23_67, Shinji_85, Shotgun_66, Shrubaron_70, Sicarius2_74, SirFrank_66, Skugga_66, Smarties_76, SmokingBunny_87, Sonali_93, StevieBAY_73, Sunshine23_95, Tardus_90, Teamocil_70, Terij_64, TillyBobJoe_84, Timinator_73, Togo_86, Twister6_85, Tyrumbra_65, Valary_87, VanDeWege_88, Verity_87, ViaConlectus_87, Violeta_54, Vitus_81, Warren_52, Winchester007_68, Wizard_81, Wyborn_73, YungMoney_85, Zapato_66, Zipp_88, Zitch_90,

Summary by start number:

Start 38:

- Found in 1 of 222 (0.5%) of genes in pham
- Manual Annotations of this start: 1 of 193
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Mufasa8_98 (FG),

Start 43:

- Found in 3 of 222 (1.4%) of genes in pham
- Manual Annotations of this start: 2 of 193
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Maruru_94 (FG), Sonali_93 (FG),

Start 45:

- Found in 30 of 222 (13.5%) of genes in pham
- Manual Annotations of this start: 6 of 193
- Called 20.0% of time when present
- Phage (with cluster) where this start called: Charming_87 (DE1), Jabberwocky_83 (DE1), Jace_90 (singleton), Keitabear_82 (DE1), MoontowerMania_85 (DE1), Nordenberg_83 (DE1),

Start 49:

- Found in 20 of 222 (9.0%) of genes in pham
- Manual Annotations of this start: 9 of 193
- Called 90.0% of time when present
- Phage (with cluster) where this start called: Appa_52 (GA), Blett_52 (GA), Bush_53 (GA), Carrillo_54 (GA), CookieDog_52 (GA), Dropshot_52 (GA), Guzman_52 (GA), Jakelyne_55 (GA), Mariel_55 (GA), MenE_54 (GA), NCRodriguez_54 (GA), PhillyJawn_53 (GA), Phingu_55 (GA), Phonegingi_52 (GA), Pickles13_51 (GA), Violeta_54 (GA), Warren_52 (GA), Winchester007_68 (GA),

Start 51:

- Found in 57 of 222 (25.7%) of genes in pham
- Manual Annotations of this start: 50 of 193
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Antares_66 (EC), Ariadne_76 (EC), BeagleBug_65 (EC), BrazzalePHS_65 (EC), Busephilis_65 (EC), Cinna_64 (EI), ClearAsMud_70 (EC), Cranjis_67 (EC), CrazyRich_65 (EC), Cressida_67 (EI), Crisis_67 (EC), EarickHC_67 (EC), Fireman_69 (EC), Ganandorf_65 (EC), Gina_70 (EC), Glorp_67 (EC), Hermeonysus_66 (EC), Honeyfin_67 (EC), Jayden_67 (EC), Jefe_66 (EC), Jollipop_67 (EC), KaiHaiDragon_67 (EC), Kowalski_65 (EC), Kozi_64 (EI), LittleFortune_68 (EC), Lucretia_66 (EC), Margaery_63 (EI), Matzah_66 (EI), MementoMori_65 (EI), Metamorphoo_69 (EC), Nicole72_64 (EC), NoodlelyBoi_67

(EC), Onika_65 (EC), Paschalis_66 (EC), PhedwardCullen_64 (EC), Phorgeous_66 (EC), Phrancesco_66 (EC), PierreOrion_66 (EC), PiperSansNom_67 (EC), Piperis_67 (EC), Pulchra_68 (EC), Quhwah_70 (EC), Ramiel05_65 (EC), RobsFeet_70 (EC), Rockwell_65 (EC), Savannah_65 (EC), Scumberland_68 (EC), Selwyn23_67 (EC), Shotgun_66 (EC), Shrubaron_70 (EC), SirFrank_66 (EC), Skugga_66 (EC), Smarties_76 (EC), Teamocil_70 (EC), Terij_64 (EI), Tyrumbra_65 (EC), Zapato_66 (EC),

Start 52:

- Found in 20 of 222 (9.0%) of genes in pham
- Manual Annotations of this start: 2 of 193
- Called 10.0% of time when present
- Phage (with cluster) where this start called: Antuna_54 (GA), Losacky_54 (GA),

Start 54:

- Found in 19 of 222 (8.6%) of genes in pham
- Manual Annotations of this start: 18 of 193
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Abba_67 (AO3), BarretLemon_72 (AO2), Beans_68 (AO1), BigDome_72 (AO2), Brent_69 (AO1), EastWest_78 (AO), Franzy_67 (AO1), GravityBall_72 (AO2), Jawnski_68 (AO1), King2_67 (AO1), LeeroyJ_73 (AO2), NathanVaag_68 (AO1), Nostromo_67 (AO3), Piccoletto_69 (AO1), Sicarius2_74 (AO2), StevieBAY_73 (AO2), Timinator_73 (AO2), Vitus_81 (FL), Wyborn_73 (AO2),

Start 56:

- Found in 51 of 222 (23.0%) of genes in pham
- Manual Annotations of this start: 42 of 193
- Called 96.1% of time when present
- Phage (with cluster) where this start called: APunk_88 (DE4), Abblin_88 (DE4), Altadena_68 (FH), Arri_86 (DC1), Barb_89 (DC1), BigHunkinEater_88 (DE4), Bumble_69 (FH), CherryCola_86 (DC1), Circuit_68 (FH), ClamChowder_88 (DC1), CoveyB_87 (DC1), Danyall_86 (DC1), Delrey21_88 (DE4), DoctorFroggo_88 (DE4), Evamon_86 (DC1), Fireball_89 (DC1), Fugax_89 (DC1), Gezellig_82 (DC1), Halo3_85 (DC1), Jambalaya_83 (DC1), KimmyK_84 (DC1), Megan_63 (EC), Mutzi_85 (DC1), Natkenzie_88 (DE4), Nubi_89 (DC1), Phlop_83 (DC1), PinkCoffee_87 (DC1), Portcullis_86 (DC1), PullumCavea_84 (DC1), Pumpkiney_88 (DE4), RogerDodger_89 (DC1), Salvador_86 (DC1), Sampson_90 (DE4), Savbucketdawg_81 (DC1), Scioto_88 (DE4), Shinji_85 (DC1), SmokingBunny_87 (DC1), Tardus_90 (DE4), TillyBobJoe_84 (DC1), Togo_86 (DC1), Twister6_85 (DC1), Valary_87 (DC1), VanDeWege_88 (DC1), Verity_87 (DE4), ViaConlectus_87 (DE4), Wizard_81 (DC1), YungMoney_85 (DC1), Zipp_88 (DE4), Zitch_90 (DE4),

Start 58:

- Found in 63 of 222 (28.4%) of genes in pham
- Manual Annotations of this start: 56 of 193
- Called 92.1% of time when present
- Phage (with cluster) where this start called: Affeca_86 (DE1), Ailee_82 (DE1), Ali17_83 (DE2), Angelicage_83 (DE1), Ashertheman_84 (DE1), Baddon_82 (DE1), Barsten_87 (DE1), Baumdotcom_83 (DE1), Belphegor_82 (DE2), Bibwit_82 (DE1), Bizzy_84 (DE1), BobBob_86 (DE1), Brandonk123_88 (DE1), ChadMasterC_83 (DE1), Derg_77 (DE1), EMoore_81 (DE2), Fitzgerald_82 (DE1), Flatwoods_84 (DE1), Fosterous_86 (DE1), FuegoCuervo_89 (DE1), Gaea_85 (DE1), Galadriel_85 (DE1),

Geodirt_84 (DE1), Gustavo_86 (DE1), Hans_87 (DE2), Inspectinfecti_87 (DE2), JKSyngboy_81 (DE1), Kamashten_85 (DE1), Kewpiedoll_85 (DE1), Kroos_84 (DE1), Kwobi_86 (DE1), Lennon_84 (DE1), Leonard_86 (DE2), LilHam_78 (DE1), Love_90 (DE1), McCrothy_83 (DE1), McKinley_87 (DE1), MelBins_88 (DE2), Paries_88 (DE1), Phauci_78 (DE2), Phinally_86 (DE2), Ribeye_84 (DE1), RiverRaider_86 (DE1), Rofo_84 (DE1), Sanjuju_82 (DE1), Saronaya_86 (DE1), SchottB_83 (DE1), Sedona_82 (DE1), Shivanishola_86 (DE1), Sitar_83 (DE1), StorminNorm_85 (DE1), Stultus_79 (DE1), Tangent_87 (DE1), Tangerine_84 (DE1), Thing3_85 (DE1), Tycho_84 (DE1), Vivi2_88 (DE1), YorkOnyx_83 (DE1),

Start 59:

- Found in 40 of 222 (18.0%) of genes in pham
- Manual Annotations of this start: 7 of 193
- Called 22.5% of time when present
- Phage (with cluster) where this start called: Bakery_90 (DC1), Bolt007_71 (FH), CalWood4100_74 (FH), Egi03_84 (DC1), Klevey_74 (FH), Lilbeanie_97 (DE5), Lilmac1015_74 (FH), Nandito_73 (FH), Prairie_70 (FH),

Start 63:

- Found in 36 of 222 (16.2%) of genes in pham
- No Manual Annotations of this start.
- Called 2.8% of time when present
- Phage (with cluster) where this start called: Sunshine23_95 (FG),

Summary by clusters:

There are 16 clusters represented in this pham: singleton, EI, AO1, AO, DE1, DE2, DE4, DE5, EC, AO3, AO2, GA, FG, FH, FL, DC1,

Info for manual annotations of cluster AO:

- Start number 54 was manually annotated 1 time for cluster AO.

Info for manual annotations of cluster AO1:

- Start number 54 was manually annotated 7 times for cluster AO1.

Info for manual annotations of cluster AO2:

- Start number 54 was manually annotated 7 times for cluster AO2.

Info for manual annotations of cluster AO3:

- Start number 54 was manually annotated 2 times for cluster AO3.

Info for manual annotations of cluster DC1:

- Start number 56 was manually annotated 29 times for cluster DC1.
- Start number 59 was manually annotated 2 times for cluster DC1.

Info for manual annotations of cluster DE1:

- Start number 45 was manually annotated 5 times for cluster DE1.
- Start number 58 was manually annotated 47 times for cluster DE1.

Info for manual annotations of cluster DE2:

- Start number 58 was manually annotated 9 times for cluster DE2.

Info for manual annotations of cluster DE4:

- Start number 56 was manually annotated 9 times for cluster DE4.

Info for manual annotations of cluster DE5:

- Start number 59 was manually annotated 1 time for cluster DE5.

Info for manual annotations of cluster EC:

- Start number 51 was manually annotated 43 times for cluster EC.
- Start number 56 was manually annotated 1 time for cluster EC.

Info for manual annotations of cluster EI:

- Start number 51 was manually annotated 7 times for cluster EI.

Info for manual annotations of cluster FG:

- Start number 38 was manually annotated 1 time for cluster FG.
- Start number 43 was manually annotated 2 times for cluster FG.

Info for manual annotations of cluster FH:

- Start number 56 was manually annotated 3 times for cluster FH.
- Start number 59 was manually annotated 4 times for cluster FH.

Info for manual annotations of cluster FL:

- Start number 54 was manually annotated 1 time for cluster FL.

Info for manual annotations of cluster GA:

- Start number 49 was manually annotated 9 times for cluster GA.
- Start number 52 was manually annotated 2 times for cluster GA.

Gene Information:

Gene: APunk_88 Start: 58714, Stop: 58983, Start Num: 56

Candidate Starts for APunk_88:

(41, 58669), (Start: 56 @58714 has 42 MA's), (62, 58732), (72, 58783), (81, 58861),

Gene: Abba_67 Start: 42825, Stop: 42538, Start Num: 54

Candidate Starts for Abba_67:

(Start: 54 @42825 has 18 MA's), (87, 42639), (95, 42555),

Gene: Abblin_88 Start: 58873, Stop: 59145, Start Num: 56

Candidate Starts for Abblin_88:

(23, 58672), (24, 58681), (26, 58693), (29, 58699), (Start: 56 @58873 has 42 MA's), (72, 58942), (81, 59020),

Gene: Affeca_86 Start: 58157, Stop: 58420, Start Num: 58

Candidate Starts for Affeca_86:

(Start: 45 @58124 has 6 MA's), (Start: 58 @58157 has 56 MA's), (72, 58220), (81, 58301),

Gene: Ailee_82 Start: 57328, Stop: 57591, Start Num: 58

Candidate Starts for Ailee_82:

(Start: 45 @57295 has 6 MA's), (Start: 58 @57328 has 56 MA's), (72, 57391), (81, 57472),

Gene: Ali17_83 Start: 57614, Stop: 57865, Start Num: 58

Candidate Starts for Ali17_83:

(Start: 58 @57614 has 56 MA's), (72, 57677), (78, 57737), (79, 57743), (81, 57755), (82, 57758),

Gene: Altadena_68 Start: 43198, Stop: 42947, Start Num: 56

Candidate Starts for Altadena_68:

(Start: 56 @43198 has 42 MA's), (90, 42994),

Gene: Angelicage_83 Start: 58231, Stop: 58494, Start Num: 58

Candidate Starts for Angelicage_83:

(Start: 45 @58198 has 6 MA's), (Start: 58 @58231 has 56 MA's), (72, 58294), (81, 58375),

Gene: Antares_66 Start: 41631, Stop: 41924, Start Num: 51

Candidate Starts for Antares_66:

(42, 41607), (Start: 51 @41631 has 50 MA's), (72, 41709), (82, 41772), (84, 41787), (85, 41790),

Gene: Antuna_54 Start: 32652, Stop: 32918, Start Num: 52

Candidate Starts for Antuna_54:

(30, 32508), (Start: 49 @32643 has 9 MA's), (Start: 52 @32652 has 2 MA's), (67, 32709), (72, 32733), (74, 32739), (87, 32832),

Gene: Appa_52 Start: 32408, Stop: 32683, Start Num: 49

Candidate Starts for Appa_52:

(6, 32012), (11, 32087), (30, 32273), (Start: 49 @32408 has 9 MA's), (Start: 52 @32417 has 2 MA's), (67, 32474), (72, 32498), (74, 32504), (87, 32597),

Gene: Ariadne_76 Start: 43251, Stop: 43544, Start Num: 51

Candidate Starts for Ariadne_76:

(Start: 51 @43251 has 50 MA's), (72, 43329), (82, 43392), (85, 43410),

Gene: Arri_86 Start: 56263, Stop: 56015, Start Num: 56

Candidate Starts for Arri_86:

(11, 56575), (14, 56497), (18, 56476), (31, 56404), (48, 56290), (Start: 56 @56263 has 42 MA's), (Start: 59 @56254 has 7 MA's), (63, 56236), (75, 56179), (85, 56104), (90, 56056),

Gene: Ashertheman_84 Start: 56563, Stop: 56823, Start Num: 58

Candidate Starts for Ashertheman_84:

(Start: 58 @56563 has 56 MA's), (72, 56626), (81, 56707), (87, 56746),

Gene: Baddon_82 Start: 57243, Stop: 57506, Start Num: 58

Candidate Starts for Baddon_82:

(Start: 45 @57210 has 6 MA's), (Start: 58 @57243 has 56 MA's), (72, 57306), (81, 57387),

Gene: Bakery_90 Start: 58633, Stop: 58391, Start Num: 59

Candidate Starts for Bakery_90:

(4, 59074), (13, 58915), (21, 58846), (27, 58822), (28, 58819), (46, 58666), (Start: 56 @58639 has 42 MA's), (57, 58636), (Start: 59 @58633 has 7 MA's), (63, 58615), (75, 58558), (90, 58435),

Gene: Barb_89 Start: 56790, Stop: 56539, Start Num: 56

Candidate Starts for Barb_89:

(8, 57147), (10, 57120), (15, 57021), (19, 56997), (20, 56994), (31, 56931), (48, 56817), (Start: 56 @56790 has 42 MA's), (Start: 59 @56781 has 7 MA's), (63, 56763), (75, 56706), (85, 56631), (90, 56583),

Gene: BarretLemon_72 Start: 46543, Stop: 46214, Start Num: 54

Candidate Starts for BarretLemon_72:

(Start: 54 @46543 has 18 MA's),

Gene: Barsten_87 Start: 58499, Stop: 58765, Start Num: 58

Candidate Starts for Barsten_87:

(Start: 45 @58466 has 6 MA's), (Start: 58 @58499 has 56 MA's), (72, 58562), (81, 58643), (92, 58745),

Gene: Baumdotcom_83 Start: 56963, Stop: 57223, Start Num: 58

Candidate Starts for Baumdotcom_83:

(Start: 58 @56963 has 56 MA's), (72, 57026), (81, 57107), (87, 57146),

Gene: BeagleBug_65 Start: 41411, Stop: 41704, Start Num: 51

Candidate Starts for BeagleBug_65:

(Start: 51 @41411 has 50 MA's), (72, 41489), (82, 41552), (84, 41567), (85, 41570),

Gene: Beans_68 Start: 45863, Stop: 45561, Start Num: 54

Candidate Starts for Beans_68:

(Start: 54 @45863 has 18 MA's), (72, 45794), (89, 45656),

Gene: Belphegor_82 Start: 58991, Stop: 59245, Start Num: 58

Candidate Starts for Belphegor_82:

(Start: 58 @58991 has 56 MA's), (72, 59057), (81, 59135), (86, 59168),

Gene: Bibwit_82 Start: 56692, Stop: 56955, Start Num: 58

Candidate Starts for Bibwit_82:

(Start: 45 @56659 has 6 MA's), (Start: 58 @56692 has 56 MA's), (72, 56755), (81, 56836),

Gene: BigDome_72 Start: 46718, Stop: 46389, Start Num: 54

Candidate Starts for BigDome_72:

(Start: 54 @46718 has 18 MA's),

Gene: BigHunkinEater_88 Start: 58349, Stop: 58618, Start Num: 56

Candidate Starts for BigHunkinEater_88:

(Start: 56 @58349 has 42 MA's), (62, 58367), (72, 58418), (81, 58496),

Gene: Bizzy_84 Start: 56320, Stop: 56580, Start Num: 58

Candidate Starts for Bizzy_84:

(Start: 58 @56320 has 56 MA's), (72, 56383), (81, 56464), (87, 56503),

Gene: Blett_52 Start: 32593, Stop: 32868, Start Num: 49

Candidate Starts for Blett_52:

(2, 32110), (3, 32137), (30, 32458), (Start: 49 @32593 has 9 MA's), (Start: 52 @32602 has 2 MA's), (67, 32659), (72, 32683), (74, 32689), (87, 32782),

Gene: BobBob_86 Start: 57531, Stop: 57794, Start Num: 58

Candidate Starts for BobBob_86:

(Start: 45 @57498 has 6 MA's), (Start: 58 @57531 has 56 MA's), (72, 57594), (81, 57675),

Gene: Bolt007_71 Start: 45075, Stop: 44833, Start Num: 59

Candidate Starts for Bolt007_71:

(Start: 59 @45075 has 7 MA's),

Gene: Brandonk123_88 Start: 57696, Stop: 57959, Start Num: 58
Candidate Starts for Brandonk123_88:
(Start: 45 @57663 has 6 MA's), (Start: 58 @57696 has 56 MA's), (72, 57759), (81, 57840),

Gene: BrazzalePHS_65 Start: 41393, Stop: 41692, Start Num: 51
Candidate Starts for BrazzalePHS_65:
(Start: 51 @41393 has 50 MA's), (61, 41423), (82, 41540), (84, 41555), (85, 41558),

Gene: Brent_69 Start: 46039, Stop: 45731, Start Num: 54
Candidate Starts for Brent_69:
(Start: 54 @46039 has 18 MA's), (65, 46000), (72, 45964),

Gene: Bumble_69 Start: 44314, Stop: 44069, Start Num: 56
Candidate Starts for Bumble_69:
(Start: 56 @44314 has 42 MA's), (90, 44116),

Gene: Busephilis_65 Start: 41338, Stop: 41631, Start Num: 51
Candidate Starts for Busephilis_65:
(42, 41314), (Start: 51 @41338 has 50 MA's), (72, 41416), (82, 41479), (84, 41494), (85, 41497),

Gene: Bush_53 Start: 32542, Stop: 32817, Start Num: 49
Candidate Starts for Bush_53:
(30, 32407), (Start: 49 @32542 has 9 MA's), (Start: 52 @32551 has 2 MA's), (67, 32608), (72, 32632),
(74, 32638), (87, 32731),

Gene: CalWood4100_74 Start: 45377, Stop: 45132, Start Num: 59
Candidate Starts for CalWood4100_74:
(32, 45521), (Start: 59 @45377 has 7 MA's),

Gene: Carrillo_54 Start: 32516, Stop: 32791, Start Num: 49
Candidate Starts for Carrillo_54:
(30, 32381), (Start: 49 @32516 has 9 MA's), (Start: 52 @32525 has 2 MA's), (67, 32582), (72, 32606),
(74, 32612), (87, 32705),

Gene: ChadMasterC_83 Start: 58686, Stop: 58949, Start Num: 58
Candidate Starts for ChadMasterC_83:
(Start: 45 @58653 has 6 MA's), (Start: 58 @58686 has 56 MA's), (72, 58749), (81, 58830),

Gene: Charming_87 Start: 56965, Stop: 57264, Start Num: 45
Candidate Starts for Charming_87:
(Start: 45 @56965 has 6 MA's), (Start: 58 @56998 has 56 MA's), (72, 57061), (81, 57142), (92, 57244),

Gene: CherryCola_86 Start: 56676, Stop: 56428, Start Num: 56
Candidate Starts for CherryCola_86:
(11, 56988), (14, 56910), (18, 56889), (31, 56817), (48, 56703), (Start: 56 @56676 has 42 MA's),
(Start: 59 @56667 has 7 MA's), (63, 56649), (75, 56592), (85, 56517), (90, 56469),

Gene: Cinna_64 Start: 43061, Stop: 43273, Start Num: 51
Candidate Starts for Cinna_64:
(Start: 51 @43061 has 50 MA's), (67, 43103), (82, 43190), (87, 43226),

Gene: Circuit_68 Start: 44623, Stop: 44378, Start Num: 56
Candidate Starts for Circuit_68:

(17, 44824), (22, 44797), (Start: 56 @44623 has 42 MA's), (90, 44425),

Gene: ClamChowder_88 Start: 56790, Stop: 56539, Start Num: 56

Candidate Starts for ClamChowder_88:

(8, 57147), (10, 57120), (15, 57021), (19, 56997), (20, 56994), (31, 56931), (48, 56817), (Start: 56 @56790 has 42 MA's), (Start: 59 @56781 has 7 MA's), (63, 56763), (75, 56706), (85, 56631), (90, 56583),

Gene: ClearAsMud_70 Start: 41913, Stop: 42206, Start Num: 51

Candidate Starts for ClearAsMud_70:

(Start: 51 @41913 has 50 MA's), (62, 41940), (72, 41991), (82, 42054), (85, 42072),

Gene: CookieDog_52 Start: 32516, Stop: 32791, Start Num: 49

Candidate Starts for CookieDog_52:

(6, 32120), (11, 32195), (30, 32381), (Start: 49 @32516 has 9 MA's), (Start: 52 @32525 has 2 MA's), (67, 32582), (72, 32606), (74, 32612), (87, 32705),

Gene: CoveyB_87 Start: 56277, Stop: 56026, Start Num: 56

Candidate Starts for CoveyB_87:

(8, 56634), (10, 56607), (15, 56508), (19, 56484), (20, 56481), (31, 56418), (48, 56304), (Start: 56 @56277 has 42 MA's), (Start: 59 @56268 has 7 MA's), (63, 56250), (75, 56193), (85, 56118), (90, 56070),

Gene: Cranjis_67 Start: 41586, Stop: 41879, Start Num: 51

Candidate Starts for Cranjis_67:

(Start: 51 @41586 has 50 MA's), (72, 41664), (82, 41727), (84, 41742), (85, 41745),

Gene: CrazyRich_65 Start: 41392, Stop: 41685, Start Num: 51

Candidate Starts for CrazyRich_65:

(42, 41368), (Start: 51 @41392 has 50 MA's), (72, 41470), (82, 41533), (84, 41548), (85, 41551),

Gene: Cressida_67 Start: 42667, Stop: 42879, Start Num: 51

Candidate Starts for Cressida_67:

(Start: 51 @42667 has 50 MA's), (67, 42709), (82, 42796), (87, 42832),

Gene: Crisis_67 Start: 41401, Stop: 41694, Start Num: 51

Candidate Starts for Crisis_67:

(42, 41377), (Start: 51 @41401 has 50 MA's), (72, 41479), (82, 41542), (84, 41557), (85, 41560),

Gene: Danyall_86 Start: 55971, Stop: 55720, Start Num: 56

Candidate Starts for Danyall_86:

(8, 56328), (10, 56301), (15, 56202), (19, 56178), (20, 56175), (31, 56112), (48, 55998), (Start: 56 @55971 has 42 MA's), (Start: 59 @55962 has 7 MA's), (63, 55944), (75, 55887), (85, 55812), (90, 55764),

Gene: Delrey21_88 Start: 60349, Stop: 60621, Start Num: 56

Candidate Starts for Delrey21_88:

(41, 60304), (Start: 56 @60349 has 42 MA's), (62, 60367), (72, 60418), (81, 60496), (88, 60544),

Gene: Derg_77 Start: 55217, Stop: 55477, Start Num: 58

Candidate Starts for Derg_77:

(Start: 58 @55217 has 56 MA's), (72, 55280), (81, 55361), (87, 55400),

Gene: DoctorFroggo_88 Start: 60349, Stop: 60621, Start Num: 56
Candidate Starts for DoctorFroggo_88:
(41, 60304), (Start: 56 @60349 has 42 MA's), (62, 60367), (72, 60418), (81, 60496), (88, 60544),

Gene: Dropshot_52 Start: 32243, Stop: 32518, Start Num: 49
Candidate Starts for Dropshot_52:
(6, 31847), (11, 31922), (30, 32108), (Start: 49 @32243 has 9 MA's), (Start: 52 @32252 has 2 MA's),
(67, 32309), (72, 32333), (74, 32339), (87, 32432),

Gene: EMoore_81 Start: 58164, Stop: 58421, Start Num: 58
Candidate Starts for EMoore_81:
(Start: 58 @58164 has 56 MA's), (62, 58179), (72, 58230), (81, 58308), (86, 58341),

Gene: EarickHC_67 Start: 41323, Stop: 41616, Start Num: 51
Candidate Starts for EarickHC_67:
(Start: 51 @41323 has 50 MA's), (72, 41401), (82, 41464), (84, 41479), (85, 41482),

Gene: EastWest_78 Start: 46071, Stop: 45799, Start Num: 54
Candidate Starts for EastWest_78:
(Start: 54 @46071 has 18 MA's), (72, 46002), (80, 45927), (90, 45852),

Gene: Egi03_84 Start: 55689, Stop: 55450, Start Num: 59
Candidate Starts for Egi03_84:
(11, 56010), (14, 55932), (18, 55911), (31, 55839), (48, 55725), (Start: 56 @55698 has 42 MA's),
(Start: 59 @55689 has 7 MA's), (63, 55671), (75, 55614), (85, 55539), (90, 55491),

Gene: Evamon_86 Start: 56075, Stop: 55827, Start Num: 56
Candidate Starts for Evamon_86:
(11, 56387), (14, 56309), (31, 56216), (48, 56102), (Start: 56 @56075 has 42 MA's), (Start: 59 @56066
has 7 MA's), (63, 56048), (75, 55991), (85, 55916), (90, 55868),

Gene: Fireball_89 Start: 56537, Stop: 56289, Start Num: 56
Candidate Starts for Fireball_89:
(11, 56849), (14, 56771), (18, 56750), (31, 56678), (48, 56564), (Start: 56 @56537 has 42 MA's),
(Start: 59 @56528 has 7 MA's), (63, 56510), (75, 56453), (85, 56378), (90, 56330),

Gene: Fireman_69 Start: 43363, Stop: 43656, Start Num: 51
Candidate Starts for Fireman_69:
(Start: 51 @43363 has 50 MA's), (72, 43441), (82, 43504), (85, 43522),

Gene: Fitzgerald_82 Start: 57842, Stop: 58105, Start Num: 58
Candidate Starts for Fitzgerald_82:
(Start: 45 @57809 has 6 MA's), (Start: 58 @57842 has 56 MA's), (72, 57905), (81, 57986),

Gene: Flatwoods_84 Start: 56131, Stop: 56391, Start Num: 58
Candidate Starts for Flatwoods_84:
(Start: 58 @56131 has 56 MA's), (72, 56194), (81, 56275), (87, 56314),

Gene: Fosterous_86 Start: 57990, Stop: 58253, Start Num: 58
Candidate Starts for Fosterous_86:
(39, 57939), (Start: 58 @57990 has 56 MA's), (72, 58053), (81, 58134),

Gene: Franzy_67 Start: 46121, Stop: 45813, Start Num: 54

Candidate Starts for Franzy_67:

(Start: 54 @46121 has 18 MA's), (65, 46082), (72, 46046),

Gene: FuegoCuervo_89 Start: 58028, Stop: 58291, Start Num: 58

Candidate Starts for FuegoCuervo_89:

(Start: 45 @57995 has 6 MA's), (Start: 58 @58028 has 56 MA's), (72, 58091), (81, 58172),

Gene: Fugax_89 Start: 56782, Stop: 56531, Start Num: 56

Candidate Starts for Fugax_89:

(8, 57139), (10, 57112), (15, 57013), (19, 56989), (20, 56986), (31, 56923), (48, 56809), (Start: 56 @56782 has 42 MA's), (Start: 59 @56773 has 7 MA's), (63, 56755), (75, 56698), (85, 56623), (90, 56575),

Gene: Gaea_85 Start: 56481, Stop: 56741, Start Num: 58

Candidate Starts for Gaea_85:

(Start: 58 @56481 has 56 MA's), (72, 56544), (81, 56625),

Gene: Galadriel_85 Start: 58206, Stop: 58469, Start Num: 58

Candidate Starts for Galadriel_85:

(39, 58155), (Start: 58 @58206 has 56 MA's), (72, 58269), (81, 58350),

Gene: Ganandorf_65 Start: 41419, Stop: 41712, Start Num: 51

Candidate Starts for Ganandorf_65:

(42, 41395), (Start: 51 @41419 has 50 MA's), (72, 41497), (82, 41560), (84, 41575), (85, 41578),

Gene: Geodirt_84 Start: 58493, Stop: 58759, Start Num: 58

Candidate Starts for Geodirt_84:

(Start: 45 @58460 has 6 MA's), (Start: 58 @58493 has 56 MA's), (72, 58556), (81, 58637), (92, 58739),

Gene: Gezellig_82 Start: 55921, Stop: 55673, Start Num: 56

Candidate Starts for Gezellig_82:

(11, 56233), (14, 56155), (18, 56134), (31, 56062), (48, 55948), (Start: 56 @55921 has 42 MA's), (Start: 59 @55912 has 7 MA's), (63, 55894), (75, 55837), (85, 55762), (90, 55714),

Gene: Gina_70 Start: 41480, Stop: 41773, Start Num: 51

Candidate Starts for Gina_70:

(33, 41387), (Start: 51 @41480 has 50 MA's), (72, 41558), (82, 41621), (85, 41639),

Gene: Glorp_67 Start: 41383, Stop: 41676, Start Num: 51

Candidate Starts for Glorp_67:

(42, 41359), (Start: 51 @41383 has 50 MA's), (72, 41461), (82, 41524), (84, 41539), (85, 41542),

Gene: GravityBall_72 Start: 46734, Stop: 46405, Start Num: 54

Candidate Starts for GravityBall_72:

(Start: 54 @46734 has 18 MA's),

Gene: Gustavo_86 Start: 57313, Stop: 57573, Start Num: 58

Candidate Starts for Gustavo_86:

(Start: 58 @57313 has 56 MA's), (72, 57376), (81, 57457),

Gene: Guzman_52 Start: 32499, Stop: 32774, Start Num: 49

Candidate Starts for Guzman_52:

(6, 32103), (11, 32178), (30, 32364), (Start: 49 @32499 has 9 MA's), (Start: 52 @32508 has 2 MA's), (67, 32565), (72, 32589), (74, 32595), (87, 32688),

Gene: Halo3_85 Start: 56796, Stop: 56545, Start Num: 56

Candidate Starts for Halo3_85:

(11, 57108), (14, 57030), (31, 56937), (48, 56823), (Start: 56 @56796 has 42 MA's), (Start: 59 @56787 has 7 MA's), (63, 56769), (75, 56712), (85, 56637), (90, 56589),

Gene: Hans_87 Start: 58571, Stop: 58822, Start Num: 58

Candidate Starts for Hans_87:

(Start: 58 @58571 has 56 MA's), (72, 58634), (78, 58694), (79, 58700), (81, 58712), (82, 58715),

Gene: Hermeonysus_66 Start: 41314, Stop: 41607, Start Num: 51

Candidate Starts for Hermeonysus_66:

(Start: 51 @41314 has 50 MA's), (72, 41392), (82, 41455), (84, 41470), (85, 41473),

Gene: Honeyfin_67 Start: 41574, Stop: 41867, Start Num: 51

Candidate Starts for Honeyfin_67:

(42, 41550), (Start: 51 @41574 has 50 MA's), (72, 41652), (82, 41715), (84, 41730), (85, 41733),

Gene: Inspectinfecti_87 Start: 58519, Stop: 58770, Start Num: 58

Candidate Starts for Inspectinfecti_87:

(Start: 58 @58519 has 56 MA's), (72, 58582), (78, 58642), (79, 58648), (81, 58660), (82, 58663),

Gene: JKSyngboy_81 Start: 56985, Stop: 57245, Start Num: 58

Candidate Starts for JKSyngboy_81:

(Start: 58 @56985 has 56 MA's), (72, 57048), (81, 57129), (87, 57168),

Gene: Jabberwocky_83 Start: 58270, Stop: 58566, Start Num: 45

Candidate Starts for Jabberwocky_83:

(Start: 45 @58270 has 6 MA's), (Start: 58 @58303 has 56 MA's), (72, 58366), (81, 58447),

Gene: Jace_90 Start: 50456, Stop: 50166, Start Num: 45

Candidate Starts for Jace_90:

(25, 50609), (Start: 45 @50456 has 6 MA's), (50, 50450), (55, 50429), (90, 50234), (94, 50192),

Gene: Jakelyne_55 Start: 32609, Stop: 32884, Start Num: 49

Candidate Starts for Jakelyne_55:

(30, 32474), (Start: 49 @32609 has 9 MA's), (Start: 52 @32618 has 2 MA's), (67, 32675), (72, 32699), (74, 32705), (87, 32798),

Gene: Jambalaya_83 Start: 55378, Stop: 55127, Start Num: 56

Candidate Starts for Jambalaya_83:

(5, 55774), (14, 55612), (31, 55519), (48, 55405), (Start: 56 @55378 has 42 MA's), (Start: 59 @55369 has 7 MA's), (62, 55354), (63, 55351), (75, 55294), (83, 55228), (85, 55219), (90, 55171),

Gene: Jawnski_68 Start: 45564, Stop: 45256, Start Num: 54

Candidate Starts for Jawnski_68:

(Start: 54 @45564 has 18 MA's), (65, 45525), (72, 45489),

Gene: Jayden_67 Start: 41914, Stop: 42210, Start Num: 51

Candidate Starts for Jayden_67:

(Start: 51 @41914 has 50 MA's), (82, 42058), (85, 42076), (97, 42196),

Gene: Jefe_66 Start: 41369, Stop: 41662, Start Num: 51

Candidate Starts for Jefe_66:

(42, 41345), (Start: 51 @41369 has 50 MA's), (72, 41447), (82, 41510), (84, 41525), (85, 41528),

Gene: Jollipop_67 Start: 41751, Stop: 42050, Start Num: 51

Candidate Starts for Jollipop_67:

(Start: 51 @41751 has 50 MA's), (61, 41781), (82, 41898), (84, 41913), (85, 41916),

Gene: KaiHaiDragon_67 Start: 41323, Stop: 41616, Start Num: 51

Candidate Starts for KaiHaiDragon_67:

(Start: 51 @41323 has 50 MA's), (72, 41401), (82, 41464), (84, 41479), (85, 41482),

Gene: Kamashten_85 Start: 58100, Stop: 58363, Start Num: 58

Candidate Starts for Kamashten_85:

(39, 58049), (Start: 58 @58100 has 56 MA's), (72, 58163), (81, 58244),

Gene: Keitabear_82 Start: 58580, Stop: 58876, Start Num: 45

Candidate Starts for Keitabear_82:

(Start: 45 @58580 has 6 MA's), (Start: 58 @58613 has 56 MA's), (72, 58676), (81, 58757),

Gene: Kewpiedoll_85 Start: 58474, Stop: 58737, Start Num: 58

Candidate Starts for Kewpiedoll_85:

(Start: 45 @58441 has 6 MA's), (Start: 58 @58474 has 56 MA's), (72, 58537), (81, 58618),

Gene: KimmyK_84 Start: 56368, Stop: 56120, Start Num: 56

Candidate Starts for KimmyK_84:

(11, 56680), (14, 56602), (18, 56581), (31, 56509), (48, 56395), (Start: 56 @56368 has 42 MA's),
(Start: 59 @56359 has 7 MA's), (63, 56341), (75, 56284), (85, 56209), (90, 56161),

Gene: King2_67 Start: 46100, Stop: 45792, Start Num: 54

Candidate Starts for King2_67:

(Start: 54 @46100 has 18 MA's), (65, 46061),

Gene: Klevey_74 Start: 45284, Stop: 45039, Start Num: 59

Candidate Starts for Klevey_74:

(32, 45428), (Start: 59 @45284 has 7 MA's),

Gene: Kowalski_65 Start: 41388, Stop: 41687, Start Num: 51

Candidate Starts for Kowalski_65:

(Start: 51 @41388 has 50 MA's), (61, 41418), (82, 41535), (84, 41550), (85, 41553),

Gene: Kozie_64 Start: 42302, Stop: 42514, Start Num: 51

Candidate Starts for Kozie_64:

(47, 42293), (Start: 51 @42302 has 50 MA's), (67, 42344), (82, 42431),

Gene: Kroos_84 Start: 56981, Stop: 57241, Start Num: 58

Candidate Starts for Kroos_84:

(Start: 58 @56981 has 56 MA's), (72, 57044), (81, 57125), (87, 57164),

Gene: Kwobi_86 Start: 57490, Stop: 57750, Start Num: 58

Candidate Starts for Kwobi_86:

(Start: 58 @57490 has 56 MA's), (72, 57553), (81, 57634), (87, 57673),

Gene: LeeroyJ_73 Start: 46660, Stop: 46331, Start Num: 54

Candidate Starts for LeeroyJ_73:

(Start: 54 @46660 has 18 MA's),

Gene: Lennon_84 Start: 59043, Stop: 59306, Start Num: 58

Candidate Starts for Lennon_84:

(Start: 45 @59010 has 6 MA's), (Start: 58 @59043 has 56 MA's), (72, 59106), (81, 59187),

Gene: Leonard_86 Start: 58581, Stop: 58832, Start Num: 58

Candidate Starts for Leonard_86:

(Start: 58 @58581 has 56 MA's), (72, 58644), (78, 58704), (79, 58710), (81, 58722), (82, 58725),

Gene: LilHam_78 Start: 54602, Stop: 54862, Start Num: 58

Candidate Starts for LilHam_78:

(Start: 58 @54602 has 56 MA's), (72, 54665), (81, 54746), (87, 54785),

Gene: Lilbeanie_97 Start: 58823, Stop: 59047, Start Num: 59

Candidate Starts for Lilbeanie_97:

(Start: 59 @58823 has 7 MA's), (73, 58886), (90, 59015),

Gene: Lilmac1015_74 Start: 45377, Stop: 45132, Start Num: 59

Candidate Starts for Lilmac1015_74:

(32, 45521), (Start: 59 @45377 has 7 MA's),

Gene: LittleFortune_68 Start: 41679, Stop: 41972, Start Num: 51

Candidate Starts for LittleFortune_68:

(Start: 51 @41679 has 50 MA's), (72, 41757), (82, 41820), (84, 41835), (85, 41838),

Gene: Losacky_54 Start: 32783, Stop: 33049, Start Num: 52

Candidate Starts for Losacky_54:

(30, 32639), (Start: 49 @32774 has 9 MA's), (Start: 52 @32783 has 2 MA's), (67, 32840), (72, 32864), (74, 32870), (87, 32963),

Gene: Love_90 Start: 58854, Stop: 59117, Start Num: 58

Candidate Starts for Love_90:

(Start: 45 @58821 has 6 MA's), (Start: 58 @58854 has 56 MA's), (72, 58917), (81, 58998),

Gene: Lucretia_66 Start: 41301, Stop: 41594, Start Num: 51

Candidate Starts for Lucretia_66:

(42, 41277), (Start: 51 @41301 has 50 MA's), (72, 41379), (82, 41442), (84, 41457), (85, 41460),

Gene: Margaery_63 Start: 42267, Stop: 42482, Start Num: 51

Candidate Starts for Margaery_63:

(Start: 51 @42267 has 50 MA's), (68, 42309), (74, 42336), (77, 42381), (82, 42396),

Gene: Mariel_55 Start: 32980, Stop: 33258, Start Num: 49

Candidate Starts for Mariel_55:

(30, 32845), (Start: 49 @32980 has 9 MA's), (Start: 52 @32989 has 2 MA's), (67, 33049), (72, 33073), (74, 33079), (87, 33172),

Gene: Maruru_94 Start: 57349, Stop: 57080, Start Num: 43

Candidate Starts for Maruru_94:

(Start: 43 @57349 has 2 MA's), (44, 57343), (50, 57337), (53, 57325), (60, 57310), (63, 57307), (69, 57274), (72, 57259),

Gene: Matzah_66 Start: 43128, Stop: 43340, Start Num: 51

Candidate Starts for Matzah_66:

(Start: 51 @43128 has 50 MA's), (67, 43170), (82, 43257), (87, 43293),

Gene: McCrothy_83 Start: 58830, Stop: 59093, Start Num: 58

Candidate Starts for McCrothy_83:

(39, 58779), (Start: 58 @58830 has 56 MA's), (72, 58893), (81, 58974),

Gene: McKinley_87 Start: 57834, Stop: 58097, Start Num: 58

Candidate Starts for McKinley_87:

(Start: 45 @57801 has 6 MA's), (Start: 58 @57834 has 56 MA's), (72, 57897), (81, 57978),

Gene: Megan_63 Start: 45613, Stop: 45837, Start Num: 56

Candidate Starts for Megan_63:

(35, 45556), (Start: 56 @45613 has 42 MA's), (70, 45652), (71, 45661), (85, 45739), (91, 45814),

Gene: MelBins_88 Start: 59070, Stop: 59321, Start Num: 58

Candidate Starts for MelBins_88:

(12, 58767), (Start: 58 @59070 has 56 MA's), (72, 59133), (78, 59193), (81, 59211), (82, 59214),

Gene: MementoMori_65 Start: 42723, Stop: 42935, Start Num: 51

Candidate Starts for MementoMori_65:

(Start: 51 @42723 has 50 MA's), (67, 42765), (82, 42852), (87, 42888),

Gene: MenE_54 Start: 32665, Stop: 32940, Start Num: 49

Candidate Starts for MenE_54:

(30, 32530), (Start: 49 @32665 has 9 MA's), (Start: 52 @32674 has 2 MA's), (67, 32731), (72, 32755), (74, 32761), (87, 32854),

Gene: Metamorphoo_69 Start: 42657, Stop: 42950, Start Num: 51

Candidate Starts for Metamorphoo_69:

(Start: 51 @42657 has 50 MA's), (72, 42735), (82, 42798), (85, 42816),

Gene: MoontowerMania_85 Start: 58915, Stop: 59211, Start Num: 45

Candidate Starts for MoontowerMania_85:

(Start: 45 @58915 has 6 MA's), (Start: 58 @58948 has 56 MA's), (72, 59011), (81, 59092),

Gene: Mufasa8_98 Start: 57231, Stop: 56944, Start Num: 38

Candidate Starts for Mufasa8_98:

(Start: 38 @57231 has 1 MA's), (40, 57222), (53, 57186), (60, 57171), (82, 57057), (85, 57039),

Gene: Mutzi_85 Start: 56931, Stop: 56680, Start Num: 56

Candidate Starts for Mutzi_85:

(8, 57288), (10, 57261), (15, 57162), (19, 57138), (20, 57135), (31, 57072), (48, 56958), (Start: 56 @56931 has 42 MA's), (Start: 59 @56922 has 7 MA's), (63, 56904), (75, 56847), (85, 56772), (90, 56724),

Gene: NCRodriguez_54 Start: 32734, Stop: 33009, Start Num: 49

Candidate Starts for NCRodriguez_54:

(2, 32251), (3, 32278), (30, 32599), (Start: 49 @32734 has 9 MA's), (Start: 52 @32743 has 2 MA's), (67, 32800), (72, 32824), (74, 32830), (87, 32923),

Gene: Nandito_73 Start: 45609, Stop: 45370, Start Num: 59

Candidate Starts for Nandito_73:

(1, 46188), (7, 45990), (Start: 59 @45609 has 7 MA's),

Gene: NathanVaag_68 Start: 45795, Stop: 45487, Start Num: 54

Candidate Starts for NathanVaag_68:

(Start: 54 @45795 has 18 MA's), (65, 45756), (72, 45720), (89, 45582),

Gene: Natkenzie_88 Start: 58873, Stop: 59145, Start Num: 56

Candidate Starts for Natkenzie_88:

(23, 58672), (24, 58681), (26, 58693), (29, 58699), (Start: 56 @58873 has 42 MA's), (72, 58942), (81, 59020),

Gene: Nicole72_64 Start: 46099, Stop: 46344, Start Num: 51

Candidate Starts for Nicole72_64:

(Start: 51 @46099 has 50 MA's), (66, 46132), (76, 46213), (82, 46228), (93, 46330),

Gene: NoodlelyBoi_67 Start: 42162, Stop: 42455, Start Num: 51

Candidate Starts for NoodlelyBoi_67:

(36, 42120), (Start: 51 @42162 has 50 MA's), (62, 42189), (72, 42240), (82, 42303), (85, 42321),

Gene: Nordenberg_83 Start: 56540, Stop: 56839, Start Num: 45

Candidate Starts for Nordenberg_83:

(Start: 45 @56540 has 6 MA's), (Start: 58 @56573 has 56 MA's), (72, 56636), (81, 56717), (92, 56819),

Gene: Nostromo_67 Start: 43577, Stop: 43287, Start Num: 54

Candidate Starts for Nostromo_67:

(Start: 54 @43577 has 18 MA's), (87, 43391), (95, 43307),

Gene: Nubi_89 Start: 56334, Stop: 56083, Start Num: 56

Candidate Starts for Nubi_89:

(9, 56661), (11, 56646), (14, 56568), (31, 56475), (48, 56361), (Start: 56 @56334 has 42 MA's), (Start: 59 @56325 has 7 MA's), (63, 56307), (75, 56250), (85, 56175), (90, 56127),

Gene: Onika_65 Start: 41397, Stop: 41696, Start Num: 51

Candidate Starts for Onika_65:

(Start: 51 @41397 has 50 MA's), (61, 41427), (82, 41544), (84, 41559), (85, 41562),

Gene: Paries_88 Start: 59125, Stop: 59388, Start Num: 58

Candidate Starts for Paries_88:

(Start: 45 @59092 has 6 MA's), (Start: 58 @59125 has 56 MA's), (72, 59188), (81, 59269),

Gene: Paschalis_66 Start: 41416, Stop: 41715, Start Num: 51

Candidate Starts for Paschalis_66:

(Start: 51 @41416 has 50 MA's), (61, 41446), (82, 41563), (84, 41578), (85, 41581),

Gene: Phauci_78 Start: 55646, Stop: 55897, Start Num: 58

Candidate Starts for Phauci_78:

(16, 55400), (Start: 58 @55646 has 56 MA's), (72, 55709), (78, 55769), (79, 55775), (81, 55787), (82, 55790),

Gene: PhedwardCullen_64 Start: 41139, Stop: 41432, Start Num: 51

Candidate Starts for PhedwardCullen_64:

(42, 41115), (Start: 51 @41139 has 50 MA's), (72, 41217), (82, 41280), (84, 41295), (85, 41298),

Gene: PhillyJawn_53 Start: 32405, Stop: 32680, Start Num: 49

Candidate Starts for PhillyJawn_53:

(6, 32009), (11, 32084), (30, 32270), (Start: 49 @32405 has 9 MA's), (Start: 52 @32414 has 2 MA's), (67, 32471), (72, 32495), (74, 32501), (87, 32594),

Gene: Phinally_86 Start: 58578, Stop: 58829, Start Num: 58

Candidate Starts for Phinally_86:

(Start: 58 @58578 has 56 MA's), (72, 58641), (78, 58701), (79, 58707), (81, 58719), (82, 58722),

Gene: Phingu_55 Start: 32629, Stop: 32904, Start Num: 49

Candidate Starts for Phingu_55:

(2, 32146), (3, 32173), (30, 32494), (Start: 49 @32629 has 9 MA's), (Start: 52 @32638 has 2 MA's), (67, 32695), (72, 32719), (74, 32725), (87, 32818),

Gene: Phlop_83 Start: 55971, Stop: 55723, Start Num: 56

Candidate Starts for Phlop_83:

(11, 56283), (14, 56205), (18, 56184), (31, 56112), (48, 55998), (Start: 56 @55971 has 42 MA's), (Start: 59 @55962 has 7 MA's), (63, 55944), (75, 55887), (85, 55812), (90, 55764),

Gene: Phonegingi_52 Start: 32447, Stop: 32722, Start Num: 49

Candidate Starts for Phonegingi_52:

(2, 31964), (3, 31991), (30, 32312), (Start: 49 @32447 has 9 MA's), (Start: 52 @32456 has 2 MA's), (67, 32513), (72, 32537), (74, 32543),

Gene: Phorgeous_66 Start: 41205, Stop: 41498, Start Num: 51

Candidate Starts for Phorgeous_66:

(42, 41181), (Start: 51 @41205 has 50 MA's), (72, 41283), (82, 41346), (84, 41361), (85, 41364),

Gene: Phrancesco_66 Start: 41528, Stop: 41821, Start Num: 51

Candidate Starts for Phrancesco_66:

(42, 41504), (Start: 51 @41528 has 50 MA's), (72, 41606), (82, 41669), (84, 41684), (85, 41687),

Gene: Piccoletto_69 Start: 45957, Stop: 45649, Start Num: 54

Candidate Starts for Piccoletto_69:

(Start: 54 @45957 has 18 MA's), (65, 45918), (72, 45882), (89, 45744),

Gene: Pickles13_51 Start: 32723, Stop: 32998, Start Num: 49

Candidate Starts for Pickles13_51:

(Start: 49 @32723 has 9 MA's), (Start: 52 @32732 has 2 MA's), (67, 32789), (72, 32813), (74, 32819), (87, 32912),

Gene: PierreOrion_66 Start: 41628, Stop: 41927, Start Num: 51

Candidate Starts for PierreOrion_66:

(Start: 51 @41628 has 50 MA's), (61, 41658), (82, 41775), (84, 41790), (85, 41793),

Gene: PinkCoffee_87 Start: 55835, Stop: 55587, Start Num: 56

Candidate Starts for PinkCoffee_87:

(8, 56192), (10, 56165), (15, 56066), (19, 56042), (20, 56039), (31, 55976), (48, 55862), (Start: 56 @55835 has 42 MA's), (Start: 59 @55826 has 7 MA's), (63, 55808), (75, 55751), (85, 55676), (90, 55628),

Gene: PiperSansNom_67 Start: 41707, Stop: 42006, Start Num: 51

Candidate Starts for PiperSansNom_67:

(Start: 51 @41707 has 50 MA's), (61, 41737), (82, 41854), (84, 41869), (85, 41872),

Gene: Piperis_67 Start: 41330, Stop: 41623, Start Num: 51

Candidate Starts for Piperis_67:

(Start: 51 @41330 has 50 MA's), (72, 41408), (82, 41471), (84, 41486), (85, 41489),

Gene: Portcullis_86 Start: 55977, Stop: 55729, Start Num: 56

Candidate Starts for Portcullis_86:

(11, 56289), (14, 56211), (18, 56190), (31, 56118), (48, 56004), (Start: 56 @55977 has 42 MA's), (Start: 59 @55968 has 7 MA's), (63, 55950), (75, 55893), (85, 55818), (90, 55770),

Gene: Prairie_70 Start: 44683, Stop: 44438, Start Num: 59

Candidate Starts for Prairie_70:

(32, 44827), (Start: 59 @44683 has 7 MA's), (87, 44518),

Gene: Pulchra_68 Start: 41726, Stop: 42019, Start Num: 51

Candidate Starts for Pulchra_68:

(42, 41702), (Start: 51 @41726 has 50 MA's), (72, 41804), (82, 41867), (84, 41882), (85, 41885),

Gene: PullumCavea_84 Start: 56148, Stop: 55900, Start Num: 56

Candidate Starts for PullumCavea_84:

(11, 56460), (14, 56382), (18, 56361), (31, 56289), (48, 56175), (Start: 56 @56148 has 42 MA's), (Start: 59 @56139 has 7 MA's), (63, 56121), (75, 56064), (85, 55989), (90, 55941),

Gene: Pumpkiney_88 Start: 57465, Stop: 57734, Start Num: 56

Candidate Starts for Pumpkiney_88:

(23, 57261), (24, 57270), (26, 57282), (Start: 56 @57465 has 42 MA's), (72, 57534), (81, 57612),

Gene: Quhwah_70 Start: 42015, Stop: 42308, Start Num: 51

Candidate Starts for Quhwah_70:

(Start: 51 @42015 has 50 MA's), (72, 42093), (82, 42156), (84, 42171), (85, 42174),

Gene: Ramiel05_65 Start: 41388, Stop: 41687, Start Num: 51

Candidate Starts for Ramiel05_65:

(Start: 51 @41388 has 50 MA's), (61, 41418), (82, 41535), (84, 41550), (85, 41553),

Gene: Ribeye_84 Start: 56456, Stop: 56716, Start Num: 58

Candidate Starts for Ribeye_84:

(Start: 58 @56456 has 56 MA's), (72, 56519), (81, 56600), (87, 56639),

Gene: RiverRaider_86 Start: 55943, Stop: 56194, Start Num: 58

Candidate Starts for RiverRaider_86:

(39, 55889), (Start: 58 @55943 has 56 MA's), (64, 55964), (72, 56006), (79, 56072), (81, 56084),

Gene: RobsFeet_70 Start: 42943, Stop: 43236, Start Num: 51

Candidate Starts for RobsFeet_70:

(Start: 51 @42943 has 50 MA's), (72, 43021), (82, 43084), (85, 43102),

Gene: Rockwell_65 Start: 41418, Stop: 41717, Start Num: 51

Candidate Starts for Rockwell_65:

(Start: 51 @41418 has 50 MA's), (61, 41448), (82, 41565), (84, 41580), (85, 41583),

Gene: Rofo_84 Start: 57573, Stop: 57836, Start Num: 58

Candidate Starts for Rofo_84:

(39, 57522), (Start: 58 @57573 has 56 MA's), (72, 57636), (81, 57717),

Gene: RogerDodger_89 Start: 56736, Stop: 56488, Start Num: 56

Candidate Starts for RogerDodger_89:

(11, 57048), (14, 56970), (18, 56949), (31, 56877), (48, 56763), (Start: 56 @56736 has 42 MA's),
(Start: 59 @56727 has 7 MA's), (63, 56709), (75, 56652), (85, 56577), (90, 56529),

Gene: Salvador_86 Start: 56073, Stop: 55825, Start Num: 56

Candidate Starts for Salvador_86:

(11, 56385), (14, 56307), (31, 56214), (48, 56100), (Start: 56 @56073 has 42 MA's), (Start: 59 @56064
has 7 MA's), (63, 56046), (75, 55989), (85, 55914), (90, 55866),

Gene: Sampson_90 Start: 59024, Stop: 59296, Start Num: 56

Candidate Starts for Sampson_90:

(23, 58823), (24, 58832), (26, 58844), (29, 58850), (Start: 56 @59024 has 42 MA's), (72, 59093), (81,
59171),

Gene: Sanjuju_82 Start: 57928, Stop: 58191, Start Num: 58

Candidate Starts for Sanjuju_82:

(Start: 45 @57895 has 6 MA's), (Start: 58 @57928 has 56 MA's), (72, 57991), (81, 58072),

Gene: Saronaya_86 Start: 57313, Stop: 57573, Start Num: 58

Candidate Starts for Saronaya_86:

(Start: 58 @57313 has 56 MA's), (72, 57376), (81, 57457),

Gene: Savannah_65 Start: 41445, Stop: 41738, Start Num: 51

Candidate Starts for Savannah_65:

(Start: 51 @41445 has 50 MA's), (72, 41523), (82, 41586), (84, 41601), (85, 41604),

Gene: Savbucketdawg_81 Start: 55415, Stop: 55167, Start Num: 56

Candidate Starts for Savbucketdawg_81:

(11, 55727), (14, 55649), (18, 55628), (31, 55556), (48, 55442), (Start: 56 @55415 has 42 MA's),
(Start: 59 @55406 has 7 MA's), (63, 55388), (75, 55331), (85, 55256), (90, 55208),

Gene: SchottB_83 Start: 57376, Stop: 57636, Start Num: 58

Candidate Starts for SchottB_83:

(Start: 58 @57376 has 56 MA's), (72, 57439), (81, 57520), (87, 57559),

Gene: Scioto_88 Start: 58874, Stop: 59146, Start Num: 56

Candidate Starts for Scioto_88:

(23, 58673), (24, 58682), (26, 58694), (29, 58700), (Start: 56 @58874 has 42 MA's), (72, 58943), (81,
59021),

Gene: Scumberland_68 Start: 41640, Stop: 41933, Start Num: 51

Candidate Starts for Scumberland_68:

(Start: 51 @41640 has 50 MA's), (62, 41667), (72, 41718), (82, 41781), (84, 41796), (85, 41799),

Gene: Sedona_82 Start: 58425, Stop: 58688, Start Num: 58

Candidate Starts for Sedona_82:

(Start: 45 @58392 has 6 MA's), (Start: 58 @58425 has 56 MA's), (72, 58488), (81, 58569),

Gene: Selwyn23_67 Start: 41557, Stop: 41850, Start Num: 51

Candidate Starts for Selwyn23_67:

(42, 41533), (Start: 51 @41557 has 50 MA's), (72, 41635), (82, 41698), (84, 41713), (85, 41716),

Gene: Shinji_85 Start: 56154, Stop: 55906, Start Num: 56

Candidate Starts for Shinji_85:

(11, 56466), (14, 56388), (18, 56367), (31, 56295), (48, 56181), (Start: 56 @56154 has 42 MA's),
(Start: 59 @56145 has 7 MA's), (63, 56127), (75, 56070), (85, 55995), (90, 55947),

Gene: Shivanishola_86 Start: 56589, Stop: 56852, Start Num: 58

Candidate Starts for Shivanishola_86:

(Start: 45 @56556 has 6 MA's), (Start: 58 @56589 has 56 MA's), (72, 56652), (81, 56733),

Gene: Shotgun_66 Start: 41324, Stop: 41617, Start Num: 51

Candidate Starts for Shotgun_66:

(42, 41300), (Start: 51 @41324 has 50 MA's), (72, 41402), (82, 41465), (84, 41480), (85, 41483),

Gene: Shrubaron_70 Start: 42538, Stop: 42831, Start Num: 51

Candidate Starts for Shrubaron_70:

(Start: 51 @42538 has 50 MA's), (72, 42616), (82, 42679), (85, 42697),

Gene: Sicarius2_74 Start: 44932, Stop: 44645, Start Num: 54

Candidate Starts for Sicarius2_74:

(Start: 54 @44932 has 18 MA's), (67, 44884), (72, 44860), (96, 44653),

Gene: SirFrank_66 Start: 41608, Stop: 41901, Start Num: 51

Candidate Starts for SirFrank_66:

(Start: 51 @41608 has 50 MA's), (62, 41635), (72, 41686), (82, 41749), (85, 41767),

Gene: Sitar_83 Start: 58447, Stop: 58710, Start Num: 58

Candidate Starts for Sitar_83:

(Start: 45 @58414 has 6 MA's), (Start: 58 @58447 has 56 MA's), (72, 58510), (81, 58591),

Gene: Skugga_66 Start: 41866, Stop: 42165, Start Num: 51

Candidate Starts for Skugga_66:

(Start: 51 @41866 has 50 MA's), (72, 41950), (82, 42013), (84, 42028), (85, 42031),

Gene: Smarties_76 Start: 43251, Stop: 43544, Start Num: 51

Candidate Starts for Smarties_76:

(Start: 51 @43251 has 50 MA's), (72, 43329), (82, 43392), (85, 43410),

Gene: SmokingBunny_87 Start: 57069, Stop: 56821, Start Num: 56

Candidate Starts for SmokingBunny_87:

(11, 57381), (14, 57303), (31, 57210), (48, 57096), (Start: 56 @57069 has 42 MA's), (Start: 59 @57060 has 7 MA's), (63, 57042), (75, 56985), (85, 56910), (90, 56862),

Gene: Sonali_93 Start: 57959, Stop: 57690, Start Num: 43

Candidate Starts for Sonali_93:

(Start: 43 @57959 has 2 MA's), (44, 57953), (50, 57947), (53, 57935), (60, 57920), (63, 57917), (69, 57884), (72, 57869),

Gene: StevieBAY_73 Start: 46953, Stop: 46624, Start Num: 54
Candidate Starts for StevieBAY_73:
(Start: 54 @46953 has 18 MA's),

Gene: StorminNorm_85 Start: 57257, Stop: 57517, Start Num: 58
Candidate Starts for StorminNorm_85:
(Start: 58 @57257 has 56 MA's), (72, 57320), (81, 57401),

Gene: Stultus_79 Start: 56719, Stop: 56982, Start Num: 58
Candidate Starts for Stultus_79:
(Start: 45 @56686 has 6 MA's), (Start: 58 @56719 has 56 MA's), (72, 56782), (81, 56863),

Gene: Sunshine23_95 Start: 57525, Stop: 57268, Start Num: 63
Candidate Starts for Sunshine23_95:
(Start: 43 @57567 has 2 MA's), (44, 57561), (50, 57555), (53, 57543), (60, 57528), (63, 57525), (69, 57492), (72, 57477),

Gene: Tangent_87 Start: 57279, Stop: 57545, Start Num: 58
Candidate Starts for Tangent_87:
(Start: 45 @57246 has 6 MA's), (Start: 58 @57279 has 56 MA's), (72, 57342), (81, 57423), (92, 57525),

Gene: Tangerine_84 Start: 56314, Stop: 56574, Start Num: 58
Candidate Starts for Tangerine_84:
(Start: 58 @56314 has 56 MA's), (72, 56377), (81, 56458), (87, 56497),

Gene: Tardus_90 Start: 59420, Stop: 59689, Start Num: 56
Candidate Starts for Tardus_90:
(Start: 56 @59420 has 42 MA's), (72, 59489), (81, 59567),

Gene: Teamocil_70 Start: 41573, Stop: 41866, Start Num: 51
Candidate Starts for Teamocil_70:
(33, 41480), (Start: 51 @41573 has 50 MA's), (72, 41651), (82, 41714), (85, 41732),

Gene: Terij_64 Start: 41499, Stop: 41717, Start Num: 51
Candidate Starts for Terij_64:
(Start: 51 @41499 has 50 MA's), (67, 41541), (68, 41544), (74, 41571), (82, 41631), (84, 41646),

Gene: Thing3_85 Start: 58100, Stop: 58363, Start Num: 58
Candidate Starts for Thing3_85:
(39, 58049), (Start: 58 @58100 has 56 MA's), (72, 58163), (81, 58244),

Gene: TillyBobJoe_84 Start: 55955, Stop: 55707, Start Num: 56
Candidate Starts for TillyBobJoe_84:
(8, 56312), (10, 56285), (15, 56186), (19, 56162), (20, 56159), (31, 56096), (48, 55982), (Start: 56 @55955 has 42 MA's), (Start: 59 @55946 has 7 MA's), (63, 55928), (75, 55871), (85, 55796), (90, 55748),

Gene: Timinator_73 Start: 46773, Stop: 46444, Start Num: 54
Candidate Starts for Timinator_73:
(Start: 54 @46773 has 18 MA's),

Gene: Togo_86 Start: 57069, Stop: 56821, Start Num: 56

Candidate Starts for Togo_86:

(11, 57381), (14, 57303), (31, 57210), (48, 57096), (Start: 56 @57069 has 42 MA's), (Start: 59 @57060 has 7 MA's), (63, 57042), (75, 56985), (85, 56910), (90, 56862),

Gene: Twister6_85 Start: 55418, Stop: 55170, Start Num: 56

Candidate Starts for Twister6_85:

(11, 55730), (14, 55652), (18, 55631), (31, 55559), (48, 55445), (Start: 56 @55418 has 42 MA's), (Start: 59 @55409 has 7 MA's), (63, 55391), (75, 55334), (85, 55259), (90, 55211),

Gene: Tycho_84 Start: 56791, Stop: 57051, Start Num: 58

Candidate Starts for Tycho_84:

(Start: 58 @56791 has 56 MA's), (72, 56854), (81, 56935), (87, 56974),

Gene: Tyrumbra_65 Start: 42225, Stop: 42518, Start Num: 51

Candidate Starts for Tyrumbra_65:

(Start: 51 @42225 has 50 MA's), (72, 42303), (82, 42366), (85, 42384),

Gene: Valary_87 Start: 57061, Stop: 56813, Start Num: 56

Candidate Starts for Valary_87:

(11, 57373), (14, 57295), (18, 57274), (31, 57202), (48, 57088), (Start: 56 @57061 has 42 MA's), (Start: 59 @57052 has 7 MA's), (63, 57034), (75, 56977), (85, 56902), (90, 56854),

Gene: VanDeWege_88 Start: 56586, Stop: 56338, Start Num: 56

Candidate Starts for VanDeWege_88:

(11, 56898), (14, 56820), (18, 56799), (31, 56727), (48, 56613), (Start: 56 @56586 has 42 MA's), (Start: 59 @56577 has 7 MA's), (63, 56559), (75, 56502), (85, 56427), (90, 56379),

Gene: Verity_87 Start: 60121, Stop: 60393, Start Num: 56

Candidate Starts for Verity_87:

(41, 60076), (Start: 56 @60121 has 42 MA's), (62, 60139), (72, 60190), (81, 60268), (88, 60316),

Gene: ViaConlectus_87 Start: 57801, Stop: 58070, Start Num: 56

Candidate Starts for ViaConlectus_87:

(41, 57756), (Start: 56 @57801 has 42 MA's), (62, 57819), (72, 57870), (81, 57948),

Gene: Violeta_54 Start: 32507, Stop: 32782, Start Num: 49

Candidate Starts for Violeta_54:

(30, 32372), (Start: 49 @32507 has 9 MA's), (Start: 52 @32516 has 2 MA's), (67, 32573), (72, 32597), (74, 32603), (87, 32696),

Gene: Vitus_81 Start: 47279, Stop: 46962, Start Num: 54

Candidate Starts for Vitus_81:

(34, 47342), (37, 47330), (Start: 54 @47279 has 18 MA's), (79, 47132), (91, 47024),

Gene: Vivi2_88 Start: 58335, Stop: 58601, Start Num: 58

Candidate Starts for Vivi2_88:

(Start: 45 @58302 has 6 MA's), (Start: 58 @58335 has 56 MA's), (72, 58398), (81, 58479), (92, 58581),

Gene: Warren_52 Start: 32462, Stop: 32737, Start Num: 49

Candidate Starts for Warren_52:

(Start: 49 @32462 has 9 MA's), (Start: 52 @32471 has 2 MA's), (67, 32528), (72, 32552), (74, 32558), (87, 32651),

Gene: Winchester007_68 Start: 38187, Stop: 38462, Start Num: 49

Candidate Starts for Winchester007_68:

(6, 37791), (11, 37866), (30, 38052), (Start: 49 @38187 has 9 MA's), (Start: 52 @38196 has 2 MA's), (67, 38253), (72, 38277), (74, 38283), (87, 38376),

Gene: Wizard_81 Start: 55921, Stop: 55673, Start Num: 56

Candidate Starts for Wizard_81:

(11, 56233), (14, 56155), (18, 56134), (31, 56062), (48, 55948), (Start: 56 @55921 has 42 MA's), (Start: 59 @55912 has 7 MA's), (63, 55894), (75, 55837), (85, 55762), (90, 55714),

Gene: Wyborn_73 Start: 45667, Stop: 45380, Start Num: 54

Candidate Starts for Wyborn_73:

(Start: 54 @45667 has 18 MA's), (67, 45619), (72, 45595), (96, 45388),

Gene: YorkOnyx_83 Start: 56426, Stop: 56686, Start Num: 58

Candidate Starts for YorkOnyx_83:

(Start: 58 @56426 has 56 MA's), (72, 56489), (81, 56570), (87, 56609),

Gene: YungMoney_85 Start: 57771, Stop: 57520, Start Num: 56

Candidate Starts for YungMoney_85:

(8, 58128), (10, 58101), (15, 58002), (19, 57978), (20, 57975), (31, 57912), (48, 57798), (Start: 56 @57771 has 42 MA's), (Start: 59 @57762 has 7 MA's), (63, 57744), (75, 57687), (85, 57612), (90, 57564),

Gene: Zapato_66 Start: 42216, Stop: 42509, Start Num: 51

Candidate Starts for Zapato_66:

(Start: 51 @42216 has 50 MA's), (72, 42294), (82, 42357),

Gene: Zipp_88 Start: 60092, Stop: 60364, Start Num: 56

Candidate Starts for Zipp_88:

(41, 60047), (Start: 56 @60092 has 42 MA's), (62, 60110), (72, 60161), (81, 60239), (88, 60287),

Gene: Zitch_90 Start: 58345, Stop: 58614, Start Num: 56

Candidate Starts for Zitch_90:

(Start: 56 @58345 has 42 MA's), (62, 58363), (72, 58414), (81, 58492),