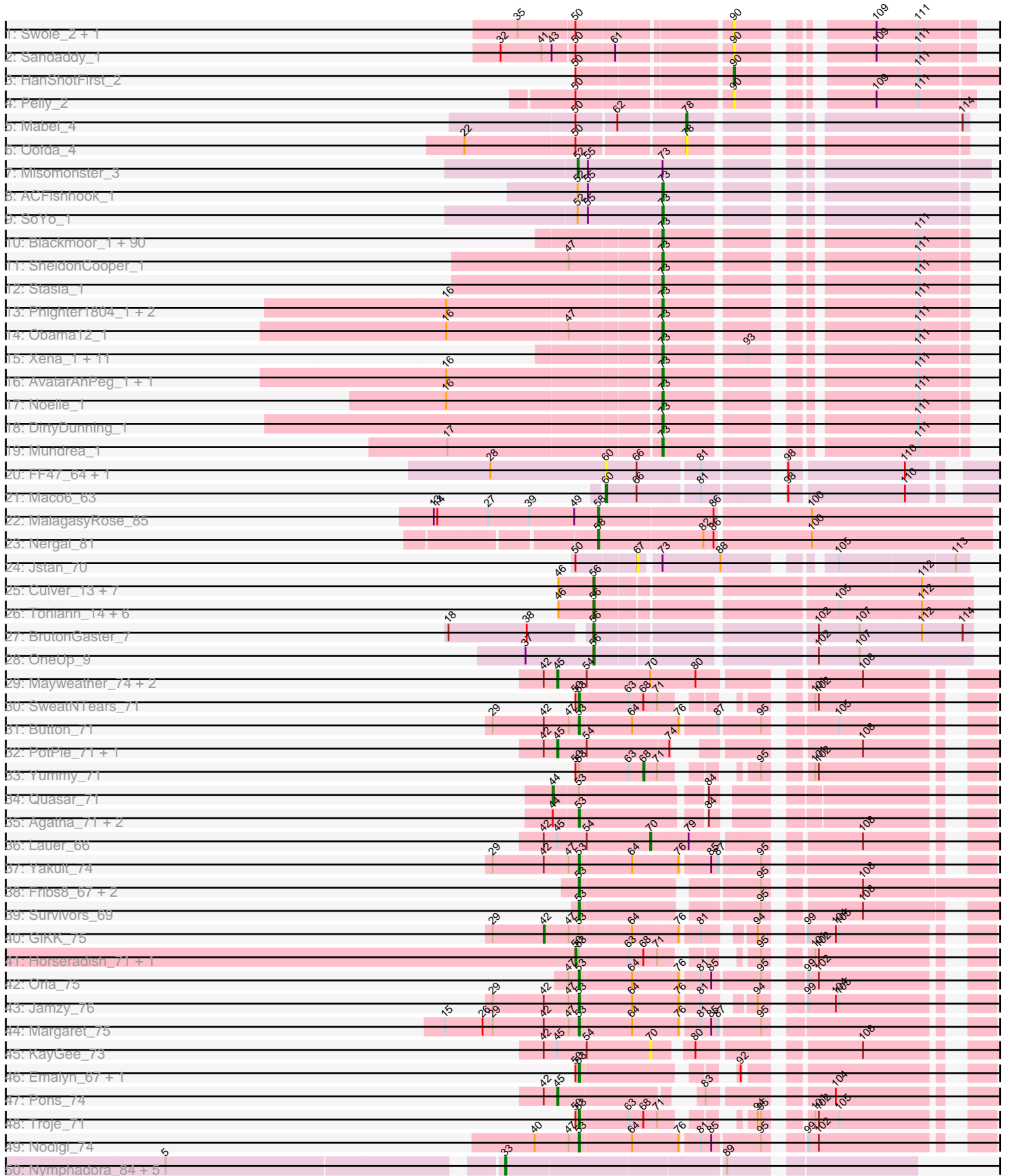
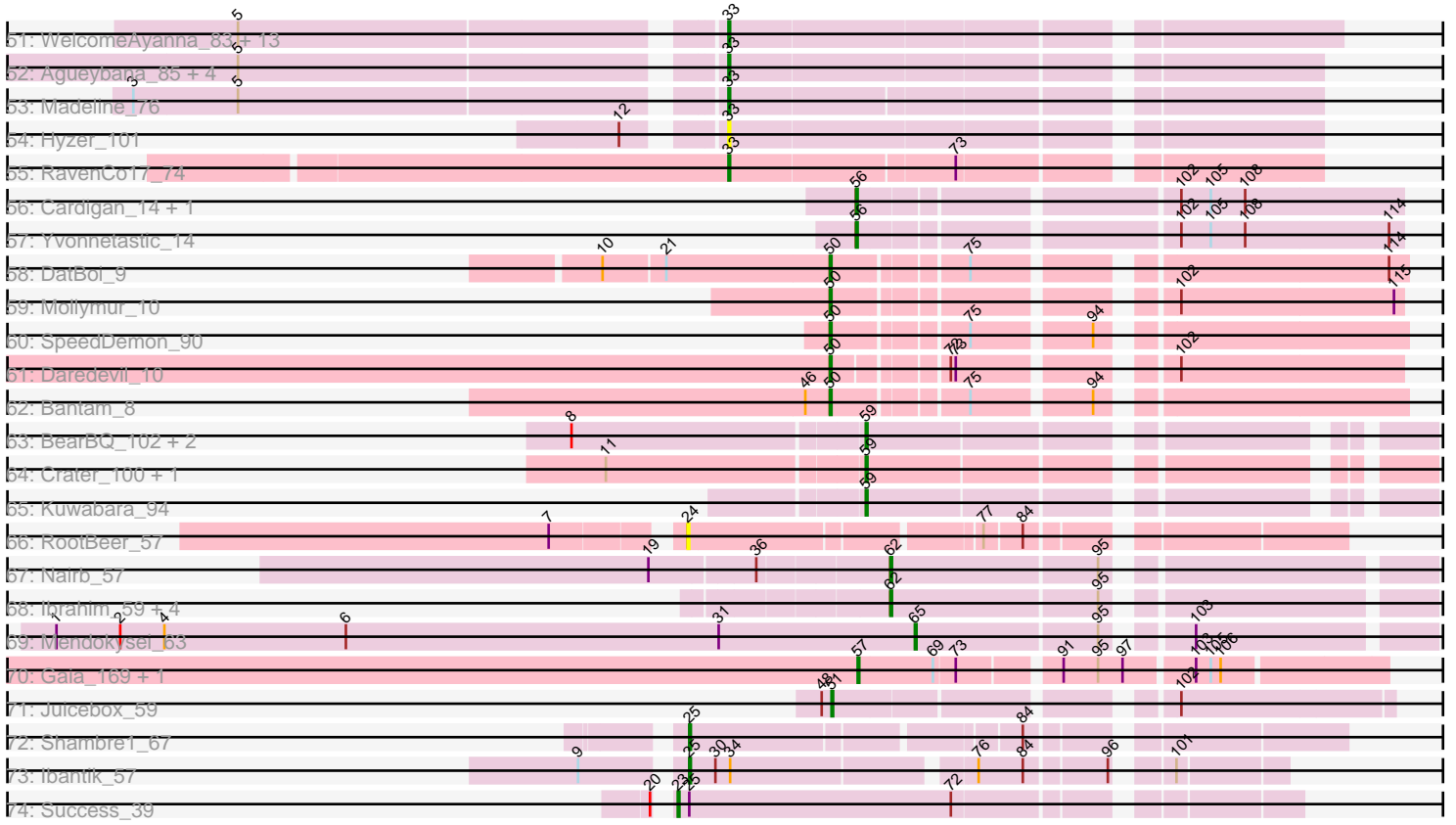


Pham 171182



Pham 171182



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 171182 Report

This analysis was run 07/10/24 on database version 566.

Pham number 171182 has 233 members, 16 are drafts.

Phages represented in each track:

- Track 1 : Swole_2, Agaliana_2
- Track 2 : Sandaddy_1
- Track 3 : HanShotFirst_2
- Track 4 : Pelly_2
- Track 5 : Mabel_4
- Track 6 : Oofda_4
- Track 7 : Misomonster_3
- Track 8 : ACFishhook_1
- Track 9 : SoYo_1
- Track 10 : Blackmoor_1, LittleGuy_1, ICleared_1, Avle17_1, Eris_1, Cocoaberry_1, Holli_1, Kratark_1, Polymorphads_1, BellusTerra_1, Kamy_1, Palestino_1, Medusa_1, Wizard007_1, Morrow_1, Melvin_1, Baby16_1, Lunsford_1, Funston_1, Houdini22_1, Lorenzo_1, Phontbonne_1, Koreni_1, Iracema64_1, Nemo27_1, TroyPia_1, Ohfah_1, Shygu2_1, BubbleTrouble_1, Broseidon_1, OKaNui_1, Sabertooth_1, Taquarus_1, Millski_1, Citius_1, Clarenza_1, JetBlade_1, CentreCat_1, Lemur_1, Cintron_1, Romney_1, Sparxx_1, Eapen_1, NotAPhaseMom_1, Arturo_86, Iceman_1, Florean_1, Kyee_1, Maxo_1, Connomayer_1, Pipcraft_1, Mazhar510_1, Nyxis_1, Skipitt_1, Bartimeaus_1, Relief_1, Alberto7_1, Chaph_1, JoongJeon_1, Flux_1, Spino_1, TygerBlood_1, Roosevelt_1, TinaFeyge_1, Eros_1, Albee_1, Eurydice_1, Gadost_1, Thanksgivukkah_1, Nebs_1, Bombshell_1, NorthStar_1, Jaykayelowell_1, LittleB_1, Scamp_1, Annyong_1, KFPoly_1, Happiness_1, Deano_1, YoSam321_1, Wilbur_1, Dhanush_1, Wander_1, Abdiel_1, PeterPeter_1, Bruiser_1, Phacado_1, Kingmustik0402_1, Druantia_1, Ruin_1, Camperdownii_1
- Track 11 : SheldonCooper_1
- Track 12 : Stasia_1
- Track 13 : Phighter1804_1, LochMonster_1, Pumbaa_1
- Track 14 : Obama12_1
- Track 15 : Xena_1, Badger_1, Katalie136_1, Datway_1, PetiteSangsue_1, Cici_1, Morpher26_1, Wile_1, Achebe_1, Perplexer_1, AbbysRanger_1, Bumblebee11_1
- Track 16 : AvatarAhPeg_1, Miramae_1
- Track 17 : Noelle_1
- Track 18 : DirtyDunning_1
- Track 19 : Mundrea_1
- Track 20 : FF47_64, 8UZL_67
- Track 21 : Maco6_63
- Track 22 : MalagasyRose_85

- Track 23 : Nergal_81
- Track 24 : Jstan_70
- Track 25 : Culver_13, PhinkBoden_15, Abscondus_14, ClubL_14, Cucurbita_13, WilliamBoone_12, Bachita_15, Dusty_13
- Track 26 : Toniann_14, Norvs_14, Smoothie_14, Aphelion_14, Engineer_14, Miskis_16, Lozinak_14
- Track 27 : BrutonGaster_7
- Track 28 : OneUp_9
- Track 29 : Mayweather_74, Elinal_76, Vine_74
- Track 30 : SweatNTears_71
- Track 31 : Button_71
- Track 32 : PotPie_71, SummitAcademy_71
- Track 33 : Yummy_71
- Track 34 : Quasar_71
- Track 35 : Agatha_71, Burnsey_70, Axym_69
- Track 36 : Lauer_66
- Track 37 : Yakult_74
- Track 38 : Fribs8_67, Nibbles_67, Azira_67
- Track 39 : Survivors_69
- Track 40 : GiKK_75
- Track 41 : Horseradish_71, Buttrmlkdreams_71
- Track 42 : Orla_75
- Track 43 : Jamzy_76
- Track 44 : Margaret_75
- Track 45 : KayGee_73
- Track 46 : Emalyn_67, Amok_68
- Track 47 : Pons_74
- Track 48 : Troje_71
- Track 49 : Nodigi_74
- Track 50 : Nymphadora_84, TimTam_84, Eviarto_84, Bosnia_82, Herod_84, BatStarr_83
- Track 51 : WelcomeAyanna_83, Trumpet_79, Zameen_79, Manasvini_81, Antonio_78, Neobush_81, Tayonia_79, Kita_80, Maridalia_83, ThankyouJordi_83, Susceptit_79, Polly_76, Bunnybear_78, Eudoria_79
- Track 52 : Agueybana_85, AlumE_82, Zirinka_79, BoyNamedSue_82, Bialota_79
- Track 53 : Madeline_76
- Track 54 : Hyzer_101
- Track 55 : RavenCo17_74
- Track 56 : Cardigan_14, JonJames_13
- Track 57 : Yvonnetastic_14
- Track 58 : DatBoi_9
- Track 59 : Mollymur_10
- Track 60 : SpeedDemon_90
- Track 61 : Daredevil_10
- Track 62 : Bantam_8
- Track 63 : BearBQ_102, MortyNRick_99, Birdsong_96
- Track 64 : Crater_100, Apricot_101
- Track 65 : Kuwabara_94
- Track 66 : RootBeer_57
- Track 67 : Nairb_57
- Track 68 : Ibrahim_59, ZenTime222_65, RonRayGun_59, Bernal13_59, Whitty_58
- Track 69 : Mendokysei_63
- Track 70 : Gaia_169, Nebkiss_165

- Track 71 : Juicebox_59
- Track 72 : Shambre1_67
- Track 73 : Ibantik_57
- Track 74 : Success_39

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

The start number called the most often in the published annotations is 73, it was called in 116 of the 217 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- ACFishhook_1, AbbysRanger_1, Abdiel_1, Achebe_1, Albee_1, Alberto7_1, Annyong_1, Arturo_86, AvatarAhPeg_1, Avle17_1, Baby16_1, Badger_1, Bartimeaus_1, BellusTerra_1, Blackmoor_1, Bombshell_1, Broseidon_1, Bruiser_1, BubbleTrouble_1, Bumblebee11_1, Camperdownii_1, CentreCat_1, Chaph_1, Cici_1, Cintron_1, Citius_1, Clarenza_1, Cocoaberry_1, Connomayer_1, Datway_1, Deano_1, Dhanush_1, DirtyDunning_1, Druantia_1, Eapen_1, Eris_1, Eros_1, Eurydice_1, Floean_1, Flux_1, Funston_1, Gadost_1, Happiness_1, Holli_1, Houdini22_1, ICleared_1, Iceman_1, Iracema64_1, Jaykayelowell_1, JetBlade_1, JoongJeon_1, KFPoly_1, Kampy_1, Katalie136_1, Kingmustik0402_1, Koreni_1, Kratak_1, Kyee_1, Lemur_1, LittleB_1, LittleGuy_1, LochMonster_1, Lorenzo_1, Lunsford_1, Maxo_1, Mazhar510_1, Medusa_1, Melvin_1, Millski_1, Miramae_1, Morpher26_1, Morrow_1, Mundrea_1, Nebs_1, Nemo27_1, Noelle_1, NorthStar_1, NotAPhaseMom_1, Nyxis_1, OKaNui_1, Obama12_1, Ohfah_1, Palestino_1, Perplexer_1, PeterPeter_1, PetiteSangsue_1, Phacado_1, Phighter1804_1, Phontbonne_1, Pipcraft_1, Polymorphads_1, Pumbaa_1, Relief_1, Romney_1, Roosevelt_1, Ruin_1, Sabertooth_1, Scamp_1, SheldonCooper_1, Shygu2_1, Skipitt_1, SoYo_1, Sparxx_1, Spino_1, Stasia_1, Taquarus_1, Thanksgivukkah_1, TinaFeyge_1, TroyPia_1, TygerBlood_1, Wander_1, Wilbur_1, Wile_1, Wizard007_1, Xena_1, YoSam321_1,

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

- Daredevil_10, Gaia_169, Jstan_70, Misomonster_3, Nebkiss_165, RavenCo17_74,

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

- 8UZL_67, Abscondus_14, Agaliana_2, Agatha_71, Agueybana_85, AlumE_82, Amok_68, Antonio_78, Aphelion_14, Apricot_101, Axym_69, Azira_67, Bachita_15, Bantam_8, BatStarr_83, BearBQ_102, Bernal13_59, Bialota_79, Birdsong_96, Bosnia_82, BoyNamedSue_82, BrutonGaster_7, Bunnybear_78, Burnsey_70, Button_71, Buttrmlkdreams_71, Cardigan_14, ClubL_14, Crater_100, Cucurbita_13, Culver_13, DatBoi_9, Dusty_13, Elinal_76, Emalyn_67, Engineer_14, Eudoria_79, Eviarto_84, FF47_64, Fribs8_67, GiKK_75, HanShotFirst_2, Herod_84, Horseradish_71, Hyzer_101, Ibantik_57, Ibrahim_59, Jamzy_76, JonJames_13, Juicebox_59, KayGee_73, Kita_80, Kuwabara_94, Lauer_66, Lozinak_14, Mabel_4, Maco6_63, Madeline_76, MalagasyRose_85, Manasvini_81, Margaret_75, Maridalia_83, Mayweather_74, Mendokysei_63, Miskis_16, Mollymur_10, MortyNRick_99, Nairb_57, Neobush_81, Nergal_81, Nibbles_67, Nodigi_74, Norvs_14, Nymphadora_84, OneUp_9, Oofda_4, Orla_75, Pelly_2, PhinkBoden_15, Polly_76, Pons_74, PotPie_71, Quasar_71, RonRayGun_59, RootBeer_57, Sandaddy_1, Shambre1_67, Smoothie_14, SpeedDemon_90, Success_39,

SummitAcademy_71, Survivors_69, Suscepit_79, SweatNTears_71, Swole_2, Tayonia_79, ThankyouJordi_83, TimTam_84, Toniann_14, Troje_71, Trumpet_79, Vine_74, WelcomeAyanna_83, Whitty_58, WilliamBoone_12, Yakult_74, Yummy_71, Yvonnestic_14, Zameen_79, ZenTime222_65, Zirinka_79,

Summary by start number:

Start 23:

- Found in 1 of 233 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 217
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Success_39 (singleton),

Start 24:

- Found in 1 of 233 (0.4%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: RootBeer_57 (FA),

Start 25:

- Found in 3 of 233 (1.3%) of genes in pham
- Manual Annotations of this start: 2 of 217
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Ibantik_57 (singleton), Shambre1_67 (singleton),

Start 33:

- Found in 28 of 233 (12.0%) of genes in pham
- Manual Annotations of this start: 27 of 217
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Agueybana_85 (CZ1), AlumE_82 (CZ1), Antonio_78 (CZ1), BatStarr_83 (CZ1), Bialota_79 (CZ1), Bosnia_82 (CZ1), BoyNamedSue_82 (CZ1), Bunnybear_78 (CZ), Eudoria_79 (CZ1), Eviarto_84 (CZ1), Herod_84 (CZ1), Hyzer_101 (CZ1), Kita_80 (CZ1), Madeline_76 (CZ1), Manasvini_81 (CZ1), Maridalia_83 (CZ1), Neobush_81 (CZ1), Nymphadora_84 (CZ1), Polly_76 (CZ1), RavenCo17_74 (CZ8), Suscepit_79 (CZ1), Tayonia_79 (CZ1), ThankyouJordi_83 (CZ1), TimTam_84 (CZ1), Trumpet_79 (CZ1), WelcomeAyanna_83 (CZ1), Zameen_79 (CZ1), Zirinka_79 (CZ1),

Start 42:

- Found in 13 of 233 (5.6%) of genes in pham
- Manual Annotations of this start: 1 of 217
- Called 7.7% of time when present
- Phage (with cluster) where this start called: GiKK_75 (CT),

Start 44:

- Found in 4 of 233 (1.7%) of genes in pham
- Manual Annotations of this start: 1 of 217
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Quasar_71 (CT),

Start 45:

- Found in 8 of 233 (3.4%) of genes in pham

- Manual Annotations of this start: 6 of 217
- Called 75.0% of time when present
- Phage (with cluster) where this start called: Elinal_76 (CT), Mayweather_74 (CT), Pons_74 (CT), PotPie_71 (CT), SummitAcademy_71 (CT), Vine_74 (CT),

Start 50:

- Found in 20 of 233 (8.6%) of genes in pham
- Manual Annotations of this start: 7 of 217
- Called 35.0% of time when present
- Phage (with cluster) where this start called: Bantam_8 (DL), Buttrmlkdreams_71 (CT), Daredevil_10 (DL), DatBoi_9 (DL), Horseradish_71 (CT), Mollymur_10 (DL), SpeedDemon_90 (DL),

Start 51:

- Found in 1 of 233 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 217
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Juicebox_59 (singleton),

Start 52:

- Found in 3 of 233 (1.3%) of genes in pham
- Manual Annotations of this start: 1 of 217
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Misomonster_3 (A3),

Start 53:

- Found in 22 of 233 (9.4%) of genes in pham
- Manual Annotations of this start: 17 of 217
- Called 77.3% of time when present
- Phage (with cluster) where this start called: Agatha_71 (CT), Amok_68 (CT), Axym_69 (CT), Azira_67 (CT), Burnsey_70 (CT), Button_71 (CT), Emalyn_67 (CT), Fribs8_67 (CT), Jamzy_76 (CT), Margaret_75 (CT), Nibbles_67 (CT), Nodigi_74 (CT), Orla_75 (CT), Survivors_69 (CT), SweatNTears_71 (CT), Troje_71 (CT), Yakult_74 (CT),

Start 56:

- Found in 20 of 233 (8.6%) of genes in pham
- Manual Annotations of this start: 16 of 217
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Abscondus_14 (CQ), Aphelion_14 (CQ1), Bachita_15 (CQ1), BrutonGaster_7 (CQ2), Cardigan_14 (DD), ClubL_14 (CQ1), Cucurbita_13 (CQ1), Culver_13 (CQ1), Dusty_13 (CQ), Engineer_14 (CQ1), JonJames_13 (DD), Lozinak_14 (CQ1), Miskis_16 (CQ), Norvs_14 (CQ), OneUp_9 (CQ2), PhinkBoden_15 (CQ1), Smoothie_14 (CQ1), Toniann_14 (CQ1), WilliamBoone_12 (CQ1), Yvonnetastic_14 (DD),

Start 57:

- Found in 2 of 233 (0.9%) of genes in pham
- Manual Annotations of this start: 2 of 217
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Gaia_169 (X), Nebkiss_165 (X),

Start 58:

- Found in 2 of 233 (0.9%) of genes in pham
- Manual Annotations of this start: 2 of 217
- Called 100.0% of time when present
- Phage (with cluster) where this start called: MalagasyRose_85 (AG), Nergal_81 (AG),

Start 59:

- Found in 6 of 233 (2.6%) of genes in pham
- Manual Annotations of this start: 5 of 217
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Apricot_101 (DN3), BearBQ_102 (DN), Birdsong_96 (DN), Crater_100 (DN3), Kuwabara_94 (DN4), MortyNRick_99 (DN),

Start 60:

- Found in 3 of 233 (1.3%) of genes in pham
- Manual Annotations of this start: 1 of 217
- Called 100.0% of time when present
- Phage (with cluster) where this start called: 8UZL_67 (AB), FF47_64 (AB), Maco6_63 (AB),

Start 62:

- Found in 7 of 233 (3.0%) of genes in pham
- Manual Annotations of this start: 6 of 217
- Called 85.7% of time when present
- Phage (with cluster) where this start called: Bernal13_59 (T), Ibrahim_59 (T), Nairb_57 (T), RonRayGun_59 (T), Whitty_58 (T), ZenTime222_65 (T),

Start 65:

- Found in 1 of 233 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 217
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Mendokysei_63 (T),

Start 67:

- Found in 1 of 233 (0.4%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Jstan_70 (AZ1),

Start 68:

- Found in 5 of 233 (2.1%) of genes in pham
- Manual Annotations of this start: 1 of 217
- Called 20.0% of time when present
- Phage (with cluster) where this start called: Yummy_71 (CT),

Start 70:

- Found in 5 of 233 (2.1%) of genes in pham
- Manual Annotations of this start: 1 of 217
- Called 40.0% of time when present
- Phage (with cluster) where this start called: KayGee_73 (CT), Lauer_66 (CT),

Start 73:

- Found in 122 of 233 (52.4%) of genes in pham

- Manual Annotations of this start: 116 of 217
- Called 95.1% of time when present
- Phage (with cluster) where this start called: ACFishhook_1 (A3), AbbysRanger_1 (A4), Abdiel_1 (A4), Achebe_1 (A4), Albee_1 (A4), Alberto7_1 (A4), Annyong_1 (A4), Arturo_86 (A4), AvatarAhPeg_1 (A4), Avle17_1 (A4), Baby16_1 (A4), Badger_1 (A4), Bartimeaus_1 (A4), BellusTerra_1 (A4), Blackmoor_1 (A4), Bombshell_1 (A4), Broseidon_1 (A4), Bruiser_1 (A4), BubbleTrouble_1 (A4), Bumblebee11_1 (A4), Camperdownii_1 (A4), CentreCat_1 (A4), Chaph_1 (A4), Cici_1 (A4), Cintron_1 (A4), Citius_1 (A4), Clarenza_1 (A4), Cocoaberry_1 (A4), Connomayer_1 (A4), Datway_1 (A4), Deano_1 (A4), Dhanush_1 (A4), DirtyDunning_1 (A4), Druantia_1 (A4), Eapen_1 (A4), Eris_1 (A4), Eros_1 (A4), Eurydice_1 (A4), Florean_1 (A4), Flux_1 (A4), Funston_1 (A4), Gadost_1 (A4), Happiness_1 (A4), Holli_1 (A4), Houdini22_1 (A4), ICleared_1 (A4), Iceman_1 (A4), Iracema64_1 (A4), Jaykayelowell_1 (A4), JetBlade_1 (A4), JoongJeon_1 (A4), KFPoly_1 (A4), Kampy_1 (A4), Katalie136_1 (A4), Kingmustik0402_1 (A4), Koreni_1 (A4), Kratark_1 (A4), Kyee_1 (A4), Lemur_1 (A4), LittleB_1 (A4), LittleGuy_1 (A4), LochMonster_1 (A4), Lorenzo_1 (A4), Lunsford_1 (A4), Maxo_1 (A4), Mazhar510_1 (A4), Medusa_1 (A4), Melvin_1 (A4), Millski_1 (A4), Miramae_1 (A4), Morpher26_1 (A4), Morrow_1 (A4), Mundrea_1 (A4), Nebs_1 (A4), Nemo27_1 (A4), Noelle_1 (A4), NorthStar_1 (A4), NotAPhaseMom_1 (A4), Nyxis_1 (A4), OKaNui_1 (A4), Obama12_1 (A4), Ohfah_1 (A4), Palestino_1 (A4), Perplexer_1 (A4), PeterPeter_1 (A4), PetiteSangsue_1 (A4), Phacado_1 (A4), Phighter1804_1 (A4), Phontbonne_1 (A4), Pipcraft_1 (A4), Polymorphads_1 (A4), Pumbaa_1 (A4), Relief_1 (A4), Romney_1 (A4), Roosevelt_1 (A4), Ruin_1 (A4), Sabertooth_1 (A4), Scamp_1 (A4), SheldonCooper_1 (A4), Shygu2_1 (A4), Skipitt_1 (A4), SoYo_1 (A3), Sparxx_1 (A4), Spino_1 (A4), Stasia_1 (A4), Taquarus_1 (A4), Thanksgivukkah_1 (A4), TinaFeyge_1 (A4), TroyPia_1 (A4), TygerBlood_1 (A4), Wander_1 (A4), Wilbur_1 (A4), Wile_1 (A4), Wizard007_1 (A4), Xena_1 (A4), YoSam321_1 (A4),

Start 78:

- Found in 2 of 233 (0.9%) of genes in pham
- Manual Annotations of this start: 1 of 217
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Mabel_4 (A11), Oofda_4 (A15),

Start 90:

- Found in 5 of 233 (2.1%) of genes in pham
- Manual Annotations of this start: 1 of 217
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Agaliana_2 (A1), HanShotFirst_2 (A1), Pelly_2 (A1), Sandaddy_1 (A1), Swole_2 (A1),

Summary by clusters:

There are 24 clusters represented in this pham: DN, singleton, DD, CZ1, DL, FA, CZ8, A15, A11, A1, DN4, A3, A4, DN3, CQ2, CQ1, AB, AG, CZ, T, X, CQ, CT, AZ1,

Info for manual annotations of cluster A1:

- Start number 90 was manually annotated 1 time for cluster A1.

Info for manual annotations of cluster A11:

- Start number 78 was manually annotated 1 time for cluster A11.

Info for manual annotations of cluster A3:

- Start number 52 was manually annotated 1 time for cluster A3.
- Start number 73 was manually annotated 2 times for cluster A3.

Info for manual annotations of cluster A4:

- Start number 73 was manually annotated 114 times for cluster A4.

Info for manual annotations of cluster AB:

- Start number 60 was manually annotated 1 time for cluster AB.

Info for manual annotations of cluster AG:

- Start number 58 was manually annotated 2 times for cluster AG.

Info for manual annotations of cluster CQ:

- Start number 56 was manually annotated 1 time for cluster CQ.

Info for manual annotations of cluster CQ1:

- Start number 56 was manually annotated 11 times for cluster CQ1.

Info for manual annotations of cluster CQ2:

- Start number 56 was manually annotated 2 times for cluster CQ2.

Info for manual annotations of cluster CT:

- Start number 42 was manually annotated 1 time for cluster CT.
- Start number 44 was manually annotated 1 time for cluster CT.
- Start number 45 was manually annotated 6 times for cluster CT.
- Start number 50 was manually annotated 2 times for cluster CT.
- Start number 53 was manually annotated 17 times for cluster CT.
- Start number 68 was manually annotated 1 time for cluster CT.
- Start number 70 was manually annotated 1 time for cluster CT.

Info for manual annotations of cluster CZ:

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

Info for manual annotations of cluster CZ1:

- Start number 33 was manually annotated 25 times for cluster CZ1.

Info for manual annotations of cluster CZ8:

- Start number 33 was manually annotated 1 time for cluster CZ8.

Info for manual annotations of cluster DD:

- Start number 56 was manually annotated 2 times for cluster DD.

Info for manual annotations of cluster DL:

- Start number 50 was manually annotated 5 times for cluster DL.

Info for manual annotations of cluster DN:

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

Info for manual annotations of cluster DN3:

- Start number 59 was manually annotated 2 times for cluster DN3.

Info for manual annotations of cluster DN4:

- Start number 59 was manually annotated 1 time for cluster DN4.

Info for manual annotations of cluster T:

- Start number 62 was manually annotated 6 times for cluster T.
- Start number 65 was manually annotated 1 time for cluster T.

Info for manual annotations of cluster X:

- Start number 57 was manually annotated 2 times for cluster X.

Gene Information:

Gene: 8UZL_67 Start: 46153, Stop: 46452, Start Num: 60

Candidate Starts for 8UZL_67:

(28, 46051), (Start: 60 @46153 has 1 MA's), (66, 46180), (81, 46231), (98, 46288), (110, 46384),

Gene: ACFishhook_1 Start: 596, Stop: 823, Start Num: 73

Candidate Starts for ACFishhook_1:

(Start: 52 @521 has 1 MA's), (55, 530), (Start: 73 @596 has 116 MA's),

Gene: AbbysRanger_1 Start: 542, Stop: 769, Start Num: 73

Candidate Starts for AbbysRanger_1:

(Start: 73 @542 has 116 MA's), (93, 608), (111, 728),

Gene: Abdiel_1 Start: 538, Stop: 765, Start Num: 73

Candidate Starts for Abdiel_1:

(Start: 73 @538 has 116 MA's), (111, 724),

Gene: Abscondus_14 Start: 3104, Stop: 3412, Start Num: 56

Candidate Starts for Abscondus_14:

(46, 3074), (Start: 56 @3104 has 16 MA's), (112, 3368),

Gene: Achebe_1 Start: 542, Stop: 769, Start Num: 73

Candidate Starts for Achebe_1:

(Start: 73 @542 has 116 MA's), (93, 608), (111, 728),

Gene: Agaliana_2 Start: 958, Stop: 1131, Start Num: 90

Candidate Starts for Agaliana_2:

(35, 787), (Start: 50 @835 has 7 MA's), (Start: 90 @958 has 1 MA's), (109, 1048), (111, 1084),

Gene: Agatha_71 Start: 46233, Stop: 46523, Start Num: 53

Candidate Starts for Agatha_71:

(Start: 44 @46212 has 1 MA's), (Start: 53 @46233 has 17 MA's), (84, 46332),

Gene: Agueybana_85 Start: 52421, Stop: 52756, Start Num: 33

Candidate Starts for Agueybana_85:

(5, 52148), (Start: 33 @52421 has 27 MA's),

Gene: Albee_1 Start: 538, Stop: 765, Start Num: 73

Candidate Starts for Albee_1:
(Start: 73 @538 has 116 MA's), (111, 724),

Gene: Alberto7_1 Start: 538, Stop: 765, Start Num: 73
Candidate Starts for Alberto7_1:
(Start: 73 @538 has 116 MA's), (111, 724),

Gene: AlumE_82 Start: 52312, Stop: 52647, Start Num: 33
Candidate Starts for AlumE_82:
(5, 52039), (Start: 33 @52312 has 27 MA's),

Gene: Amok_68 Start: 44983, Stop: 45258, Start Num: 53
Candidate Starts for Amok_68:
(Start: 50 @44980 has 7 MA's), (Start: 53 @44983 has 17 MA's), (92, 45088),

Gene: Annyong_1 Start: 538, Stop: 765, Start Num: 73
Candidate Starts for Annyong_1:
(Start: 73 @538 has 116 MA's), (111, 724),

Gene: Antonio_78 Start: 49950, Stop: 50285, Start Num: 33
Candidate Starts for Antonio_78:
(5, 49677), (Start: 33 @49950 has 27 MA's),

Gene: Aphelion_14 Start: 3268, Stop: 3576, Start Num: 56
Candidate Starts for Aphelion_14:
(46, 3238), (Start: 56 @3268 has 16 MA's), (105, 3460), (112, 3532),

Gene: Apricot_101 Start: 51816, Stop: 52109, Start Num: 59
Candidate Starts for Apricot_101:
(11, 51666), (Start: 59 @51816 has 5 MA's),

Gene: Arturo_86 Start: 538, Stop: 765, Start Num: 73
Candidate Starts for Arturo_86:
(Start: 73 @538 has 116 MA's), (111, 724),

Gene: AvatarAhPeg_1 Start: 535, Stop: 762, Start Num: 73
Candidate Starts for AvatarAhPeg_1:
(16, 355), (Start: 73 @535 has 116 MA's), (111, 721),

Gene: Avle17_1 Start: 538, Stop: 765, Start Num: 73
Candidate Starts for Avle17_1:
(Start: 73 @538 has 116 MA's), (111, 724),

Gene: Axym_69 Start: 46163, Stop: 46453, Start Num: 53
Candidate Starts for Axym_69:
(Start: 44 @46142 has 1 MA's), (Start: 53 @46163 has 17 MA's), (84, 46262),

Gene: Azira_67 Start: 45015, Stop: 45332, Start Num: 53
Candidate Starts for Azira_67:
(Start: 53 @45015 has 17 MA's), (95, 45153), (108, 45222),

Gene: Baby16_1 Start: 538, Stop: 765, Start Num: 73
Candidate Starts for Baby16_1:

(Start: 73 @538 has 116 MA's), (111, 724),

Gene: Bachita_15 Start: 3780, Stop: 4088, Start Num: 56

Candidate Starts for Bachita_15:

(46, 3750), (Start: 56 @3780 has 16 MA's), (112, 4044),

Gene: Badger_1 Start: 543, Stop: 770, Start Num: 73

Candidate Starts for Badger_1:

(Start: 73 @543 has 116 MA's), (93, 609), (111, 729),

Gene: Bantam_8 Start: 4561, Stop: 4869, Start Num: 50

Candidate Starts for Bantam_8:

(46, 4546), (Start: 50 @4561 has 7 MA's), (75, 4633), (94, 4699),

Gene: Bartimeaus_1 Start: 538, Stop: 765, Start Num: 73

Candidate Starts for Bartimeaus_1:

(Start: 73 @538 has 116 MA's), (111, 724),

Gene: BatStarr_83 Start: 53046, Stop: 53381, Start Num: 33

Candidate Starts for BatStarr_83:

(5, 52773), (Start: 33 @53046 has 27 MA's), (89, 53232),

Gene: BearBQ_102 Start: 54695, Stop: 54988, Start Num: 59

Candidate Starts for BearBQ_102:

(8, 54524), (Start: 59 @54695 has 5 MA's),

Gene: BellusTerra_1 Start: 538, Stop: 765, Start Num: 73

Candidate Starts for BellusTerra_1:

(Start: 73 @538 has 116 MA's), (111, 724),

Gene: Bernal13_59 Start: 40895, Stop: 41194, Start Num: 62

Candidate Starts for Bernal13_59:

(Start: 62 @40895 has 6 MA's), (95, 41018),

Gene: Bialota_79 Start: 51706, Stop: 52038, Start Num: 33

Candidate Starts for Bialota_79:

(5, 51433), (Start: 33 @51706 has 27 MA's),

Gene: Birdsong_96 Start: 52683, Stop: 52976, Start Num: 59

Candidate Starts for Birdsong_96:

(8, 52512), (Start: 59 @52683 has 5 MA's),

Gene: Blackmoor_1 Start: 538, Stop: 765, Start Num: 73

Candidate Starts for Blackmoor_1:

(Start: 73 @538 has 116 MA's), (111, 724),

Gene: Bombshell_1 Start: 538, Stop: 765, Start Num: 73

Candidate Starts for Bombshell_1:

(Start: 73 @538 has 116 MA's), (111, 724),

Gene: Bosnia_82 Start: 54160, Stop: 54495, Start Num: 33

Candidate Starts for Bosnia_82:

(5, 53887), (Start: 33 @54160 has 27 MA's), (89, 54346),

Gene: BoyNamedSue_82 Start: 52312, Stop: 52647, Start Num: 33
Candidate Starts for BoyNamedSue_82:
(5, 52039), (Start: 33 @52312 has 27 MA's),

Gene: Broseidon_1 Start: 538, Stop: 765, Start Num: 73
Candidate Starts for Broseidon_1:
(Start: 73 @538 has 116 MA's), (111, 724),

Gene: Bruiser_1 Start: 538, Stop: 765, Start Num: 73
Candidate Starts for Bruiser_1:
(Start: 73 @538 has 116 MA's), (111, 724),

Gene: BrutonGaster_7 Start: 1661, Stop: 1969, Start Num: 56
Candidate Starts for BrutonGaster_7:
(18, 1544), (38, 1613), (Start: 56 @1661 has 16 MA's), (102, 1835), (107, 1871), (112, 1925), (114, 1961),

Gene: BubbleTrouble_1 Start: 538, Stop: 765, Start Num: 73
Candidate Starts for BubbleTrouble_1:
(Start: 73 @538 has 116 MA's), (111, 724),

Gene: Bumblebee11_1 Start: 542, Stop: 769, Start Num: 73
Candidate Starts for Bumblebee11_1:
(Start: 73 @542 has 116 MA's), (93, 608), (111, 728),

Gene: Bunnybear_78 Start: 50882, Stop: 51217, Start Num: 33
Candidate Starts for Bunnybear_78:
(5, 50609), (Start: 33 @50882 has 27 MA's),

Gene: Burnsey_70 Start: 45875, Stop: 46165, Start Num: 53
Candidate Starts for Burnsey_70:
(Start: 44 @45854 has 1 MA's), (Start: 53 @45875 has 17 MA's), (84, 45974),

Gene: Button_71 Start: 45762, Stop: 46070, Start Num: 53
Candidate Starts for Button_71:
(29, 45687), (Start: 42 @45732 has 1 MA's), (47, 45753), (Start: 53 @45762 has 17 MA's), (64, 45807), (76, 45846), (87, 45876), (95, 45909), (105, 45960),

Gene: Buttrmlkdreams_71 Start: 45701, Stop: 45979, Start Num: 50
Candidate Starts for Buttrmlkdreams_71:
(Start: 50 @45701 has 7 MA's), (Start: 53 @45704 has 17 MA's), (63, 45746), (Start: 68 @45758 has 1 MA's), (71, 45770), (95, 45821), (101, 45848), (102, 45851),

Gene: Camperdownii_1 Start: 538, Stop: 765, Start Num: 73
Candidate Starts for Camperdownii_1:
(Start: 73 @538 has 116 MA's), (111, 724),

Gene: Cardigan_14 Start: 3818, Stop: 4126, Start Num: 56
Candidate Starts for Cardigan_14:
(Start: 56 @3818 has 16 MA's), (102, 3992), (105, 4010), (108, 4031),

Gene: CentreCat_1 Start: 538, Stop: 765, Start Num: 73

Candidate Starts for CentreCat_1:
(Start: 73 @538 has 116 MA's), (111, 724),

Gene: Chaph_1 Start: 538, Stop: 765, Start Num: 73
Candidate Starts for Chaph_1:
(Start: 73 @538 has 116 MA's), (111, 724),

Gene: Cici_1 Start: 542, Stop: 769, Start Num: 73
Candidate Starts for Cici_1:
(Start: 73 @542 has 116 MA's), (93, 608), (111, 728),

Gene: Cintron_1 Start: 538, Stop: 765, Start Num: 73
Candidate Starts for Cintron_1:
(Start: 73 @538 has 116 MA's), (111, 724),

Gene: Citius_1 Start: 538, Stop: 765, Start Num: 73
Candidate Starts for Citius_1:
(Start: 73 @538 has 116 MA's), (111, 724),

Gene: Clarenza_1 Start: 538, Stop: 765, Start Num: 73
Candidate Starts for Clarenza_1:
(Start: 73 @538 has 116 MA's), (111, 724),

Gene: ClubL_14 Start: 3280, Stop: 3588, Start Num: 56
Candidate Starts for ClubL_14:
(46, 3250), (Start: 56 @3280 has 16 MA's), (112, 3544),

Gene: Cocoaberry_1 Start: 538, Stop: 765, Start Num: 73
Candidate Starts for Cocoaberry_1:
(Start: 73 @538 has 116 MA's), (111, 724),

Gene: Connomayer_1 Start: 538, Stop: 765, Start Num: 73
Candidate Starts for Connomayer_1:
(Start: 73 @538 has 116 MA's), (111, 724),

Gene: Crater_100 Start: 52160, Stop: 52453, Start Num: 59
Candidate Starts for Crater_100:
(11, 52010), (Start: 59 @52160 has 5 MA's),

Gene: Cucurbita_13 Start: 3280, Stop: 3588, Start Num: 56
Candidate Starts for Cucurbita_13:
(46, 3250), (Start: 56 @3280 has 16 MA's), (112, 3544),

Gene: Culver_13 Start: 3104, Stop: 3412, Start Num: 56
Candidate Starts for Culver_13:
(46, 3074), (Start: 56 @3104 has 16 MA's), (112, 3368),

Gene: Daredevil_10 Start: 3047, Stop: 3349, Start Num: 50
Candidate Starts for Daredevil_10:
(Start: 50 @3047 has 7 MA's), (72, 3104), (Start: 73 @3107 has 116 MA's), (102, 3215),

Gene: DatBoi_9 Start: 5103, Stop: 5411, Start Num: 50
Candidate Starts for DatBoi_9:

(10, 4968), (21, 5004), (Start: 50 @5103 has 7 MA's), (75, 5175), (114, 5400),

Gene: Datway_1 Start: 542, Stop: 769, Start Num: 73

Candidate Starts for Datway_1:

(Start: 73 @542 has 116 MA's), (93, 608), (111, 728),

Gene: Deano_1 Start: 538, Stop: 765, Start Num: 73

Candidate Starts for Deano_1:

(Start: 73 @538 has 116 MA's), (111, 724),

Gene: Dhanush_1 Start: 537, Stop: 764, Start Num: 73

Candidate Starts for Dhanush_1:

(Start: 73 @537 has 116 MA's), (111, 723),

Gene: DirtyDunning_1 Start: 536, Stop: 763, Start Num: 73

Candidate Starts for DirtyDunning_1:

(Start: 73 @536 has 116 MA's), (111, 722),

Gene: Druantia_1 Start: 539, Stop: 766, Start Num: 73

Candidate Starts for Druantia_1:

(Start: 73 @539 has 116 MA's), (111, 725),

Gene: Dusty_13 Start: 3104, Stop: 3412, Start Num: 56

Candidate Starts for Dusty_13:

(46, 3074), (Start: 56 @3104 has 16 MA's), (112, 3368),

Gene: Eapen_1 Start: 538, Stop: 765, Start Num: 73

Candidate Starts for Eapen_1:

(Start: 73 @538 has 116 MA's), (111, 724),

Gene: Elinal_76 Start: 48006, Stop: 48332, Start Num: 45

Candidate Starts for Elinal_76:

(Start: 42 @47994 has 1 MA's), (Start: 45 @48006 has 6 MA's), (54, 48030), (Start: 70 @48084 has 1 MA's), (80, 48111), (108, 48231),

Gene: Emalyn_67 Start: 43687, Stop: 43962, Start Num: 53

Candidate Starts for Emalyn_67:

(Start: 50 @43684 has 7 MA's), (Start: 53 @43687 has 17 MA's), (92, 43792),

Gene: Engineer_14 Start: 3268, Stop: 3576, Start Num: 56

Candidate Starts for Engineer_14:

(46, 3238), (Start: 56 @3268 has 16 MA's), (105, 3460), (112, 3532),

Gene: Eris_1 Start: 538, Stop: 765, Start Num: 73

Candidate Starts for Eris_1:

(Start: 73 @538 has 116 MA's), (111, 724),

Gene: Eros_1 Start: 538, Stop: 765, Start Num: 73

Candidate Starts for Eros_1:

(Start: 73 @538 has 116 MA's), (111, 724),

Gene: Eudoria_79 Start: 49950, Stop: 50285, Start Num: 33

Candidate Starts for Eudoria_79:

(5, 49677), (Start: 33 @49950 has 27 MA's),

Gene: Eurydice_1 Start: 538, Stop: 765, Start Num: 73

Candidate Starts for Eurydice_1:

(Start: 73 @538 has 116 MA's), (111, 724),

Gene: Eviarto_84 Start: 53021, Stop: 53356, Start Num: 33

Candidate Starts for Eviarto_84:

(5, 52748), (Start: 33 @53021 has 27 MA's), (89, 53207),

Gene: FF47_64 Start: 46067, Stop: 46366, Start Num: 60

Candidate Starts for FF47_64:

(28, 45965), (Start: 60 @46067 has 1 MA's), (66, 46094), (81, 46145), (98, 46202), (110, 46298),

Gene: Florean_1 Start: 538, Stop: 765, Start Num: 73

Candidate Starts for Florean_1:

(Start: 73 @538 has 116 MA's), (111, 724),

Gene: Flux_1 Start: 538, Stop: 765, Start Num: 73

Candidate Starts for Flux_1:

(Start: 73 @538 has 116 MA's), (111, 724),

Gene: Fribs8_67 Start: 45643, Stop: 45981, Start Num: 53

Candidate Starts for Fribs8_67:

(Start: 53 @45643 has 17 MA's), (95, 45781), (108, 45850),

Gene: Funston_1 Start: 538, Stop: 765, Start Num: 73

Candidate Starts for Funston_1:

(Start: 73 @538 has 116 MA's), (111, 724),

Gene: Gadost_1 Start: 538, Stop: 765, Start Num: 73

Candidate Starts for Gadost_1:

(Start: 73 @538 has 116 MA's), (111, 724),

Gene: Gaia_169 Start: 83930, Stop: 84226, Start Num: 57

Candidate Starts for Gaia_169:

(Start: 57 @83930 has 2 MA's), (69, 83975), (Start: 73 @83987 has 116 MA's), (91, 84041), (95, 84062), (97, 84077), (103, 84116), (105, 84125), (106, 84131),

Gene: GiKK_75 Start: 47115, Stop: 47441, Start Num: 42

Candidate Starts for GiKK_75:

(29, 47070), (Start: 42 @47115 has 1 MA's), (47, 47136), (Start: 53 @47145 has 17 MA's), (64, 47190), (76, 47229), (81, 47244), (94, 47277), (99, 47304), (104, 47328), (105, 47331),

Gene: HanShotFirst_2 Start: 873, Stop: 1067, Start Num: 90

Candidate Starts for HanShotFirst_2:

(Start: 50 @750 has 7 MA's), (Start: 90 @873 has 1 MA's), (111, 999),

Gene: Happiness_1 Start: 537, Stop: 764, Start Num: 73

Candidate Starts for Happiness_1:

(Start: 73 @537 has 116 MA's), (111, 723),

Gene: Herod_84 Start: 53440, Stop: 53775, Start Num: 33

Candidate Starts for Herod_84:
(5, 53167), (Start: 33 @53440 has 27 MA's), (89, 53626),

Gene: Holli_1 Start: 538, Stop: 765, Start Num: 73
Candidate Starts for Holli_1:
(Start: 73 @538 has 116 MA's), (111, 724),

Gene: Horseradish_71 Start: 45465, Stop: 45743, Start Num: 50
Candidate Starts for Horseradish_71:
(Start: 50 @45465 has 7 MA's), (Start: 53 @45468 has 17 MA's), (63, 45510), (Start: 68 @45522 has 1 MA's), (71, 45534), (95, 45585), (101, 45612), (102, 45615),

Gene: Houdini22_1 Start: 538, Stop: 765, Start Num: 73
Candidate Starts for Houdini22_1:
(Start: 73 @538 has 116 MA's), (111, 724),

Gene: Hyzer_101 Start: 60183, Stop: 60518, Start Num: 33
Candidate Starts for Hyzer_101:
(12, 60138), (Start: 33 @60183 has 27 MA's),

Gene: ICleared_1 Start: 538, Stop: 765, Start Num: 73
Candidate Starts for ICleared_1:
(Start: 73 @538 has 116 MA's), (111, 724),

Gene: Ibantik_57 Start: 25161, Stop: 25478, Start Num: 25
Candidate Starts for Ibantik_57:
(9, 25107), (Start: 25 @25161 has 2 MA's), (30, 25176), (34, 25185), (76, 25320), (84, 25347), (96, 25392), (101, 25416),

Gene: Ibrahim_59 Start: 41099, Stop: 41398, Start Num: 62
Candidate Starts for Ibrahim_59:
(Start: 62 @41099 has 6 MA's), (95, 41222),

Gene: Iceman_1 Start: 538, Stop: 765, Start Num: 73
Candidate Starts for Iceman_1:
(Start: 73 @538 has 116 MA's), (111, 724),

Gene: Iracema64_1 Start: 538, Stop: 765, Start Num: 73
Candidate Starts for Iracema64_1:
(Start: 73 @538 has 116 MA's), (111, 724),

Gene: Jamzy_76 Start: 46875, Stop: 47171, Start Num: 53
Candidate Starts for Jamzy_76:
(29, 46800), (Start: 42 @46845 has 1 MA's), (47, 46866), (Start: 53 @46875 has 17 MA's), (64, 46920), (76, 46959), (81, 46974), (94, 47007), (99, 47034), (104, 47058), (105, 47061),

Gene: Jaykayelowell_1 Start: 538, Stop: 765, Start Num: 73
Candidate Starts for Jaykayelowell_1:
(Start: 73 @538 has 116 MA's), (111, 724),

Gene: JetBlade_1 Start: 538, Stop: 765, Start Num: 73
Candidate Starts for JetBlade_1:
(Start: 73 @538 has 116 MA's), (111, 724),

Gene: JonJames_13 Start: 3969, Stop: 4277, Start Num: 56
Candidate Starts for JonJames_13:
(Start: 56 @3969 has 16 MA's), (102, 4143), (105, 4161), (108, 4182),

Gene: JoongJeon_1 Start: 538, Stop: 765, Start Num: 73
Candidate Starts for JoongJeon_1:
(Start: 73 @538 has 116 MA's), (111, 724),

Gene: Jstan_70 Start: 43158, Stop: 43409, Start Num: 67
Candidate Starts for Jstan_70:
(Start: 50 @43107 has 7 MA's), (67, 43158), (Start: 73 @43173 has 116 MA's), (88, 43224), (105, 43299), (113, 43398),

Gene: Juicebox_59 Start: 41044, Stop: 41346, Start Num: 51
Candidate Starts for Juicebox_59:
(48, 41038), (Start: 51 @41044 has 1 MA's), (102, 41221),

Gene: KFPoly_1 Start: 538, Stop: 765, Start Num: 73
Candidate Starts for KFPoly_1:
(Start: 73 @538 has 116 MA's), (111, 724),

Gene: Kampy_1 Start: 538, Stop: 765, Start Num: 73
Candidate Starts for Kampy_1:
(Start: 73 @538 has 116 MA's), (111, 724),

Gene: Katalie136_1 Start: 542, Stop: 769, Start Num: 73
Candidate Starts for Katalie136_1:
(Start: 73 @542 has 116 MA's), (93, 608), (111, 728),

Gene: KayGee_73 Start: 48113, Stop: 48361, Start Num: 70
Candidate Starts for KayGee_73:
(Start: 42 @48023 has 1 MA's), (Start: 45 @48035 has 6 MA's), (54, 48059), (Start: 70 @48113 has 1 MA's), (80, 48140), (108, 48260),

Gene: Kingmustik0402_1 Start: 538, Stop: 765, Start Num: 73
Candidate Starts for Kingmustik0402_1:
(Start: 73 @538 has 116 MA's), (111, 724),

Gene: Kita_80 Start: 49959, Stop: 50294, Start Num: 33
Candidate Starts for Kita_80:
(5, 49686), (Start: 33 @49959 has 27 MA's),

Gene: Koreni_1 Start: 538, Stop: 765, Start Num: 73
Candidate Starts for Koreni_1:
(Start: 73 @538 has 116 MA's), (111, 724),

Gene: Kratark_1 Start: 538, Stop: 765, Start Num: 73
Candidate Starts for Kratark_1:
(Start: 73 @538 has 116 MA's), (111, 724),

Gene: Kuwabara_94 Start: 53726, Stop: 54019, Start Num: 59
Candidate Starts for Kuwabara_94:

(Start: 59 @53726 has 5 MA's),

Gene: Kyee_1 Start: 538, Stop: 765, Start Num: 73

Candidate Starts for Kyee_1:

(Start: 73 @538 has 116 MA's), (111, 724),

Gene: Lauer_66 Start: 47856, Stop: 48119, Start Num: 70

Candidate Starts for Lauer_66:

(Start: 42 @47766 has 1 MA's), (Start: 45 @47778 has 6 MA's), (54, 47802), (Start: 70 @47856 has 1 MA's), (79, 47889), (108, 48015),

Gene: Lemur_1 Start: 538, Stop: 765, Start Num: 73

Candidate Starts for Lemur_1:

(Start: 73 @538 has 116 MA's), (111, 724),

Gene: LittleB_1 Start: 538, Stop: 765, Start Num: 73

Candidate Starts for LittleB_1:

(Start: 73 @538 has 116 MA's), (111, 724),

Gene: LittleGuy_1 Start: 538, Stop: 765, Start Num: 73

Candidate Starts for LittleGuy_1:

(Start: 73 @538 has 116 MA's), (111, 724),

Gene: LochMonster_1 Start: 536, Stop: 763, Start Num: 73

Candidate Starts for LochMonster_1:

(16, 356), (Start: 73 @536 has 116 MA's), (111, 722),

Gene: Lorenzo_1 Start: 538, Stop: 765, Start Num: 73

Candidate Starts for Lorenzo_1:

(Start: 73 @538 has 116 MA's), (111, 724),

Gene: Lozinak_14 Start: 3268, Stop: 3576, Start Num: 56

Candidate Starts for Lozinak_14:

(46, 3238), (Start: 56 @3268 has 16 MA's), (105, 3460), (112, 3532),

Gene: Lunsford_1 Start: 538, Stop: 765, Start Num: 73

Candidate Starts for Lunsford_1:

(Start: 73 @538 has 116 MA's), (111, 724),

Gene: Mabel_4 Start: 2458, Stop: 2664, Start Num: 78

Candidate Starts for Mabel_4:

(Start: 50 @2368 has 7 MA's), (Start: 62 @2401 has 6 MA's), (Start: 78 @2458 has 1 MA's), (114, 2659),

Gene: Maco6_63 Start: 45489, Stop: 45788, Start Num: 60

Candidate Starts for Maco6_63:

(Start: 60 @45489 has 1 MA's), (66, 45516), (81, 45567), (98, 45624), (110, 45720),

Gene: Madeline_76 Start: 51284, Stop: 51616, Start Num: 33

Candidate Starts for Madeline_76:

(3, 50948), (5, 51011), (Start: 33 @51284 has 27 MA's),

Gene: MalagasyRose_85 Start: 53161, Stop: 53499, Start Num: 58

Candidate Starts for MalagasyRose_85:

(13, 53017), (14, 53020), (27, 53065), (39, 53101), (49, 53140), (Start: 58 @53161 has 2 MA's), (86, 53260), (100, 53341),

Gene: Manasvini_81 Start: 49974, Stop: 50309, Start Num: 33

Candidate Starts for Manasvini_81:

(5, 49701), (Start: 33 @49974 has 27 MA's),

Gene: Margaret_75 Start: 46622, Stop: 46930, Start Num: 53

Candidate Starts for Margaret_75:

(15, 46505), (26, 46538), (29, 46547), (Start: 42 @46592 has 1 MA's), (47, 46613), (Start: 53 @46622 has 17 MA's), (64, 46667), (76, 46706), (81, 46721), (85, 46730), (87, 46736), (95, 46769),

Gene: Maridalia_83 Start: 51242, Stop: 51577, Start Num: 33

Candidate Starts for Maridalia_83:

(5, 50969), (Start: 33 @51242 has 27 MA's),

Gene: Maxo_1 Start: 538, Stop: 765, Start Num: 73

Candidate Starts for Maxo_1:

(Start: 73 @538 has 116 MA's), (111, 724),

Gene: Mayweather_74 Start: 48037, Stop: 48378, Start Num: 45

Candidate Starts for Mayweather_74:

(Start: 42 @48025 has 1 MA's), (Start: 45 @48037 has 6 MA's), (54, 48061), (Start: 70 @48115 has 1 MA's), (80, 48154), (108, 48274),

Gene: Mazhar510_1 Start: 539, Stop: 766, Start Num: 73

Candidate Starts for Mazhar510_1:

(Start: 73 @539 has 116 MA's), (111, 725),

Gene: Medusa_1 Start: 538, Stop: 765, Start Num: 73

Candidate Starts for Medusa_1:

(Start: 73 @538 has 116 MA's), (111, 724),

Gene: Melvin_1 Start: 538, Stop: 765, Start Num: 73

Candidate Starts for Melvin_1:

(Start: 73 @538 has 116 MA's), (111, 724),

Gene: Mendokysei_63 Start: 42026, Stop: 42310, Start Num: 65

Candidate Starts for Mendokysei_63:

(1, 41501), (2, 41540), (4, 41567), (6, 41678), (31, 41906), (Start: 65 @42026 has 1 MA's), (95, 42134), (103, 42173),

Gene: Millski_1 Start: 538, Stop: 765, Start Num: 73

Candidate Starts for Millski_1:

(Start: 73 @538 has 116 MA's), (111, 724),

Gene: Miramae_1 Start: 535, Stop: 762, Start Num: 73

Candidate Starts for Miramae_1:

(16, 355), (Start: 73 @535 has 116 MA's), (111, 721),

Gene: Miskis_16 Start: 3268, Stop: 3576, Start Num: 56

Candidate Starts for Miskis_16:

(46, 3238), (Start: 56 @3268 has 16 MA's), (105, 3460), (112, 3532),

Gene: Misomonster_3 Start: 518, Stop: 838, Start Num: 52

Candidate Starts for Misomonster_3:

(Start: 52 @518 has 1 MA's), (55, 527), (Start: 73 @593 has 116 MA's),

Gene: Mollymur_10 Start: 5419, Stop: 5724, Start Num: 50

Candidate Starts for Mollymur_10:

(Start: 50 @5419 has 7 MA's), (102, 5590), (115, 5719),

Gene: Morpher26_1 Start: 542, Stop: 769, Start Num: 73

Candidate Starts for Morpher26_1:

(Start: 73 @542 has 116 MA's), (93, 608), (111, 728),

Gene: Morrow_1 Start: 538, Stop: 765, Start Num: 73

Candidate Starts for Morrow_1:

(Start: 73 @538 has 116 MA's), (111, 724),

Gene: MortyNRick_99 Start: 53600, Stop: 53893, Start Num: 59

Candidate Starts for MortyNRick_99:

(8, 53429), (Start: 59 @53600 has 5 MA's),

Gene: Mundrea_1 Start: 539, Stop: 766, Start Num: 73

Candidate Starts for Mundrea_1:

(17, 359), (Start: 73 @539 has 116 MA's), (111, 725),

Gene: Nairb_57 Start: 40896, Stop: 41195, Start Num: 62

Candidate Starts for Nairb_57:

(19, 40761), (36, 40821), (Start: 62 @40896 has 6 MA's), (95, 41019),

Gene: Nebkiss_165 Start: 79421, Stop: 79717, Start Num: 57

Candidate Starts for Nebkiss_165:

(Start: 57 @79421 has 2 MA's), (69, 79466), (Start: 73 @79478 has 116 MA's), (91, 79532), (95, 79553), (97, 79568), (103, 79607), (105, 79616), (106, 79622),

Gene: Nebs_1 Start: 538, Stop: 765, Start Num: 73

Candidate Starts for Nebs_1:

(Start: 73 @538 has 116 MA's), (111, 724),

Gene: Nemo27_1 Start: 537, Stop: 764, Start Num: 73

Candidate Starts for Nemo27_1:

(Start: 73 @537 has 116 MA's), (111, 723),

Gene: Neobush_81 Start: 50518, Stop: 50853, Start Num: 33

Candidate Starts for Neobush_81:

(5, 50245), (Start: 33 @50518 has 27 MA's),

Gene: Nergal_81 Start: 54725, Stop: 55063, Start Num: 58

Candidate Starts for Nergal_81:

(Start: 58 @54725 has 2 MA's), (82, 54815), (86, 54824), (100, 54905),

Gene: Nibbles_67 Start: 45280, Stop: 45597, Start Num: 53

Candidate Starts for Nibbles_67:

(Start: 53 @45280 has 17 MA's), (95, 45418), (108, 45487),

Gene: Nodigi_74 Start: 46877, Stop: 47185, Start Num: 53

Candidate Starts for Nodigi_74:

(40, 46838), (47, 46868), (Start: 53 @46877 has 17 MA's), (64, 46922), (76, 46961), (81, 46976), (85, 46985), (95, 47024), (99, 47048), (102, 47057),

Gene: Noelle_1 Start: 526, Stop: 753, Start Num: 73

Candidate Starts for Noelle_1:

(16, 346), (Start: 73 @526 has 116 MA's), (111, 712),

Gene: NorthStar_1 Start: 538, Stop: 765, Start Num: 73

Candidate Starts for NorthStar_1:

(Start: 73 @538 has 116 MA's), (111, 724),

Gene: Norvs_14 Start: 3268, Stop: 3576, Start Num: 56

Candidate Starts for Norvs_14:

(46, 3238), (Start: 56 @3268 has 16 MA's), (105, 3460), (112, 3532),

Gene: NotAPhaseMom_1 Start: 538, Stop: 765, Start Num: 73

Candidate Starts for NotAPhaseMom_1:

(Start: 73 @538 has 116 MA's), (111, 724),

Gene: Nymphadora_84 Start: 53045, Stop: 53380, Start Num: 33

Candidate Starts for Nymphadora_84:

(5, 52772), (Start: 33 @53045 has 27 MA's), (89, 53231),

Gene: Nyxis_1 Start: 539, Stop: 766, Start Num: 73

Candidate Starts for Nyxis_1:

(Start: 73 @539 has 116 MA's), (111, 725),

Gene: OKaNui_1 Start: 537, Stop: 764, Start Num: 73

Candidate Starts for OKaNui_1:

(Start: 73 @537 has 116 MA's), (111, 723),

Gene: Obama12_1 Start: 537, Stop: 764, Start Num: 73

Candidate Starts for Obama12_1:

(16, 357), (47, 462), (Start: 73 @537 has 116 MA's), (111, 723),

Gene: Ohfah_1 Start: 538, Stop: 765, Start Num: 73

Candidate Starts for Ohfah_1:

(Start: 73 @538 has 116 MA's), (111, 724),

Gene: OneUp_9 Start: 2116, Stop: 2424, Start Num: 56

Candidate Starts for OneUp_9:

(37, 2056), (Start: 56 @2116 has 16 MA's), (102, 2290), (107, 2326),

Gene: Oofda_4 Start: 2372, Stop: 2578, Start Num: 78

Candidate Starts for Oofda_4:

(22, 2186), (Start: 50 @2282 has 7 MA's), (Start: 78 @2372 has 1 MA's),

Gene: Orla_75 Start: 47026, Stop: 47334, Start Num: 53

Candidate Starts for Orla_75:

(47, 47017), (Start: 53 @47026 has 17 MA's), (64, 47071), (76, 47110), (81, 47125), (85, 47134), (95, 47173), (99, 47197), (102, 47206),

Gene: Palestino_1 Start: 538, Stop: 765, Start Num: 73
Candidate Starts for Palestino_1:
(Start: 73 @538 has 116 MA's), (111, 724),

Gene: Pelly_2 Start: 905, Stop: 1078, Start Num: 90
Candidate Starts for Pelly_2:
(Start: 50 @782 has 7 MA's), (Start: 90 @905 has 1 MA's), (109, 995), (111, 1031),

Gene: Perplexer_1 Start: 542, Stop: 769, Start Num: 73
Candidate Starts for Perplexer_1:
(Start: 73 @542 has 116 MA's), (93, 608), (111, 728),

Gene: PeterPeter_1 Start: 538, Stop: 765, Start Num: 73
Candidate Starts for PeterPeter_1:
(Start: 73 @538 has 116 MA's), (111, 724),

Gene: PetiteSangsue_1 Start: 542, Stop: 769, Start Num: 73
Candidate Starts for PetiteSangsue_1:
(Start: 73 @542 has 116 MA's), (93, 608), (111, 728),

Gene: Phacado_1 Start: 537, Stop: 764, Start Num: 73
Candidate Starts for Phacado_1:
(Start: 73 @537 has 116 MA's), (111, 723),

Gene: Phighter1804_1 Start: 536, Stop: 763, Start Num: 73
Candidate Starts for Phighter1804_1:
(16, 356), (Start: 73 @536 has 116 MA's), (111, 722),

Gene: PhinkBoden_15 Start: 3766, Stop: 4074, Start Num: 56
Candidate Starts for PhinkBoden_15:
(46, 3736), (Start: 56 @3766 has 16 MA's), (112, 4030),

Gene: Phontbonne_1 Start: 536, Stop: 763, Start Num: 73
Candidate Starts for Phontbonne_1:
(Start: 73 @536 has 116 MA's), (111, 722),

Gene: Pipcraft_1 Start: 538, Stop: 765, Start Num: 73
Candidate Starts for Pipcraft_1:
(Start: 73 @538 has 116 MA's), (111, 724),

Gene: Polly_76 Start: 49393, Stop: 49728, Start Num: 33
Candidate Starts for Polly_76:
(5, 49120), (Start: 33 @49393 has 27 MA's),

Gene: Polymorphads_1 Start: 538, Stop: 765, Start Num: 73
Candidate Starts for Polymorphads_1:
(Start: 73 @538 has 116 MA's), (111, 724),

Gene: Pons_74 Start: 47664, Stop: 47978, Start Num: 45
Candidate Starts for Pons_74:

(Start: 42 @47652 has 1 MA's), (Start: 45 @47664 has 6 MA's), (83, 47763), (104, 47850),

Gene: PotPie_71 Start: 47864, Stop: 48178, Start Num: 45

Candidate Starts for PotPie_71:

(Start: 42 @47852 has 1 MA's), (Start: 45 @47864 has 6 MA's), (54, 47888), (74, 47957), (108, 48074),

Gene: Pumbaa_1 Start: 536, Stop: 763, Start Num: 73

Candidate Starts for Pumbaa_1:

(16, 356), (Start: 73 @536 has 116 MA's), (111, 722),

Gene: Quasar_71 Start: 46628, Stop: 46939, Start Num: 44

Candidate Starts for Quasar_71:

(Start: 44 @46628 has 1 MA's), (Start: 53 @46649 has 17 MA's), (84, 46748),

Gene: RavenCo17_74 Start: 49279, Stop: 49611, Start Num: 33

Candidate Starts for RavenCo17_74:

(Start: 33 @49279 has 27 MA's), (Start: 73 @49411 has 116 MA's),

Gene: Relief_1 Start: 538, Stop: 765, Start Num: 73

Candidate Starts for Relief_1:

(Start: 73 @538 has 116 MA's), (111, 724),

Gene: Romney_1 Start: 538, Stop: 765, Start Num: 73

Candidate Starts for Romney_1:

(Start: 73 @538 has 116 MA's), (111, 724),

Gene: RonRayGun_59 Start: 41099, Stop: 41398, Start Num: 62

Candidate Starts for RonRayGun_59:

(Start: 62 @41099 has 6 MA's), (95, 41222),

Gene: Roosevelt_1 Start: 538, Stop: 765, Start Num: 73

Candidate Starts for Roosevelt_1:

(Start: 73 @538 has 116 MA's), (111, 724),

Gene: RootBeer_57 Start: 38956, Stop: 39309, Start Num: 24

Candidate Starts for RootBeer_57:

(7, 38890), (24, 38956), (77, 39118), (84, 39139),

Gene: Ruin_1 Start: 537, Stop: 764, Start Num: 73

Candidate Starts for Ruin_1:

(Start: 73 @537 has 116 MA's), (111, 723),

Gene: Sabertooth_1 Start: 538, Stop: 765, Start Num: 73

Candidate Starts for Sabertooth_1:

(Start: 73 @538 has 116 MA's), (111, 724),

Gene: Sandaddy_1 Start: 722, Stop: 895, Start Num: 90

Candidate Starts for Sandaddy_1:

(32, 536), (41, 572), (43, 581), (Start: 50 @599 has 7 MA's), (61, 632), (Start: 90 @722 has 1 MA's), (109, 812), (111, 848),

Gene: Scamp_1 Start: 538, Stop: 765, Start Num: 73

Candidate Starts for Scamp_1:
(Start: 73 @538 has 116 MA's), (111, 724),

Gene: Shambre1_67 Start: 41812, Stop: 42165, Start Num: 25
Candidate Starts for Shambre1_67:
(Start: 25 @41812 has 2 MA's), (84, 41995),

Gene: SheldonCooper_1 Start: 536, Stop: 763, Start Num: 73
Candidate Starts for SheldonCooper_1:
(47, 461), (Start: 73 @536 has 116 MA's), (111, 722),

Gene: Shygu2_1 Start: 542, Stop: 769, Start Num: 73
Candidate Starts for Shygu2_1:
(Start: 73 @542 has 116 MA's), (111, 728),

Gene: Skipitt_1 Start: 538, Stop: 765, Start Num: 73
Candidate Starts for Skipitt_1:
(Start: 73 @538 has 116 MA's), (111, 724),

Gene: Smoothie_14 Start: 3268, Stop: 3576, Start Num: 56
Candidate Starts for Smoothie_14:
(46, 3238), (Start: 56 @3268 has 16 MA's), (105, 3460), (112, 3532),

Gene: SoYo_1 Start: 592, Stop: 819, Start Num: 73
Candidate Starts for SoYo_1:
(Start: 52 @517 has 1 MA's), (55, 526), (Start: 73 @592 has 116 MA's),

Gene: Sparxx_1 Start: 538, Stop: 765, Start Num: 73
Candidate Starts for Sparxx_1:
(Start: 73 @538 has 116 MA's), (111, 724),

Gene: SpeedDemon_90 Start: 4494, Stop: 4802, Start Num: 50
Candidate Starts for SpeedDemon_90:
(Start: 50 @4494 has 7 MA's), (75, 4566), (94, 4632),

Gene: Spino_1 Start: 538, Stop: 765, Start Num: 73
Candidate Starts for Spino_1:
(Start: 73 @538 has 116 MA's), (111, 724),

Gene: Stasia_1 Start: 544, Stop: 771, Start Num: 73
Candidate Starts for Stasia_1:
(Start: 73 @544 has 116 MA's), (111, 730),

Gene: Success_39 Start: 23746, Stop: 24093, Start Num: 23
Candidate Starts for Success_39:
(20, 23743), (Start: 23 @23746 has 1 MA's), (Start: 25 @23752 has 2 MA's), (72, 23911),

Gene: SummitAcademy_71 Start: 47007, Stop: 47324, Start Num: 45
Candidate Starts for SummitAcademy_71:
(Start: 42 @46995 has 1 MA's), (Start: 45 @47007 has 6 MA's), (54, 47031), (74, 47100), (108, 47217),

Gene: Survivors_69 Start: 45115, Stop: 45432, Start Num: 53

Candidate Starts for Survivors_69:
(Start: 53 @45115 has 17 MA's), (95, 45253), (108, 45322),

Gene: Suscepit_79 Start: 49951, Stop: 50286, Start Num: 33
Candidate Starts for Suscepit_79:
(5, 49678), (Start: 33 @49951 has 27 MA's),

Gene: SweatNTears_71 Start: 45622, Stop: 45897, Start Num: 53
Candidate Starts for SweatNTears_71:
(Start: 50 @45619 has 7 MA's), (Start: 53 @45622 has 17 MA's), (63, 45664), (Start: 68 @45676 has 1 MA's), (71, 45688), (101, 45766), (102, 45769),

Gene: Swole_2 Start: 957, Stop: 1130, Start Num: 90
Candidate Starts for Swole_2:
(35, 786), (Start: 50 @834 has 7 MA's), (Start: 90 @957 has 1 MA's), (109, 1047), (111, 1083),

Gene: Taquarus_1 Start: 538, Stop: 765, Start Num: 73
Candidate Starts for Taquarus_1:
(Start: 73 @538 has 116 MA's), (111, 724),

Gene: Tayonia_79 Start: 49950, Stop: 50285, Start Num: 33
Candidate Starts for Tayonia_79:
(5, 49677), (Start: 33 @49950 has 27 MA's),

Gene: Thanksgivukkah_1 Start: 539, Stop: 766, Start Num: 73
Candidate Starts for Thanksgivukkah_1:
(Start: 73 @539 has 116 MA's), (111, 725),

Gene: ThankyouJordi_83 Start: 53067, Stop: 53414, Start Num: 33
Candidate Starts for ThankyouJordi_83:
(5, 52794), (Start: 33 @53067 has 27 MA's),

Gene: TimTam_84 Start: 53045, Stop: 53380, Start Num: 33
Candidate Starts for TimTam_84:
(5, 52772), (Start: 33 @53045 has 27 MA's), (89, 53231),

Gene: TinaFeyge_1 Start: 538, Stop: 765, Start Num: 73
Candidate Starts for TinaFeyge_1:
(Start: 73 @538 has 116 MA's), (111, 724),

Gene: Toniann_14 Start: 3268, Stop: 3576, Start Num: 56
Candidate Starts for Toniann_14:
(46, 3238), (Start: 56 @3268 has 16 MA's), (105, 3460), (112, 3532),

Gene: Troje_71 Start: 45614, Stop: 45889, Start Num: 53
Candidate Starts for Troje_71:
(Start: 50 @45611 has 7 MA's), (Start: 53 @45614 has 17 MA's), (63, 45656), (Start: 68 @45668 has 1 MA's), (71, 45680), (94, 45728), (95, 45731), (101, 45758), (102, 45761), (105, 45779),

Gene: TroyPia_1 Start: 538, Stop: 765, Start Num: 73
Candidate Starts for TroyPia_1:
(Start: 73 @538 has 116 MA's), (111, 724),

Gene: Trumpet_79 Start: 49951, Stop: 50286, Start Num: 33
Candidate Starts for Trumpet_79:
(5, 49678), (Start: 33 @49951 has 27 MA's),

Gene: TygerBlood_1 Start: 540, Stop: 767, Start Num: 73
Candidate Starts for TygerBlood_1:
(Start: 73 @540 has 116 MA's), (111, 726),

Gene: Vine_74 Start: 47747, Stop: 48088, Start Num: 45
Candidate Starts for Vine_74:
(Start: 42 @47735 has 1 MA's), (Start: 45 @47747 has 6 MA's), (54, 47771), (Start: 70 @47825 has 1 MA's), (80, 47864), (108, 47984),

Gene: Wander_1 Start: 538, Stop: 765, Start Num: 73
Candidate Starts for Wander_1:
(Start: 73 @538 has 116 MA's), (111, 724),

Gene: WelcomeAyanna_83 Start: 53214, Stop: 53561, Start Num: 33
Candidate Starts for WelcomeAyanna_83:
(5, 52941), (Start: 33 @53214 has 27 MA's),

Gene: Whitty_58 Start: 40896, Stop: 41195, Start Num: 62
Candidate Starts for Whitty_58:
(Start: 62 @40896 has 6 MA's), (95, 41019),

Gene: Wilbur_1 Start: 538, Stop: 765, Start Num: 73
Candidate Starts for Wilbur_1:
(Start: 73 @538 has 116 MA's), (111, 724),

Gene: Wile_1 Start: 543, Stop: 770, Start Num: 73
Candidate Starts for Wile_1:
(Start: 73 @543 has 116 MA's), (93, 609), (111, 729),

Gene: WilliamBoone_12 Start: 2893, Stop: 3201, Start Num: 56
Candidate Starts for WilliamBoone_12:
(46, 2863), (Start: 56 @2893 has 16 MA's), (112, 3157),

Gene: Wizard007_1 Start: 540, Stop: 767, Start Num: 73
Candidate Starts for Wizard007_1:
(Start: 73 @540 has 116 MA's), (111, 726),

Gene: Xena_1 Start: 542, Stop: 769, Start Num: 73
Candidate Starts for Xena_1:
(Start: 73 @542 has 116 MA's), (93, 608), (111, 728),

Gene: Yakult_74 Start: 46869, Stop: 47177, Start Num: 53
Candidate Starts for Yakult_74:
(29, 46794), (Start: 42 @46839 has 1 MA's), (47, 46860), (Start: 53 @46869 has 17 MA's), (64, 46914), (76, 46953), (85, 46977), (87, 46983), (95, 47016),

Gene: YoSam321_1 Start: 538, Stop: 765, Start Num: 73
Candidate Starts for YoSam321_1:
(Start: 73 @538 has 116 MA's), (111, 724),

Gene: Yummy_71 Start: 45636, Stop: 45857, Start Num: 68

Candidate Starts for Yummy_71:

(Start: 50 @45579 has 7 MA's), (Start: 53 @45582 has 17 MA's), (63, 45624), (Start: 68 @45636 has 1 MA's), (71, 45648), (95, 45699), (101, 45726), (102, 45729),

Gene: Yvonnetastic_14 Start: 3602, Stop: 3910, Start Num: 56

Candidate Starts for Yvonnetastic_14:

(Start: 56 @3602 has 16 MA's), (102, 3776), (105, 3794), (108, 3815), (114, 3902),

Gene: Zameen_79 Start: 49950, Stop: 50285, Start Num: 33

Candidate Starts for Zameen_79:

(5, 49677), (Start: 33 @49950 has 27 MA's),

Gene: ZenTime222_65 Start: 41847, Stop: 42146, Start Num: 62

Candidate Starts for ZenTime222_65:

(Start: 62 @41847 has 6 MA's), (95, 41970),

Gene: Zirinka_79 Start: 51694, Stop: 52026, Start Num: 33

Candidate Starts for Zirinka_79:

(5, 51421), (Start: 33 @51694 has 27 MA's),