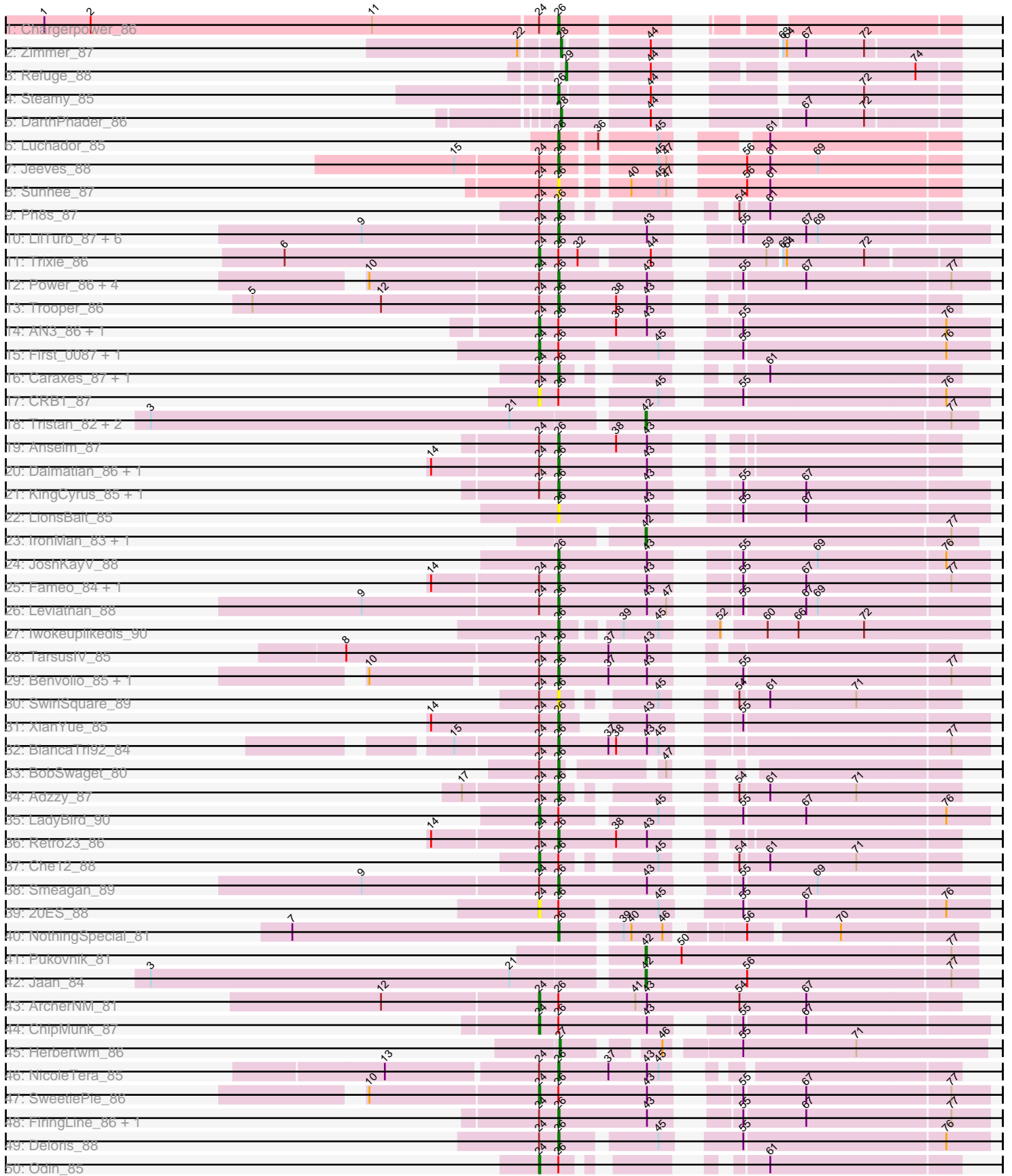
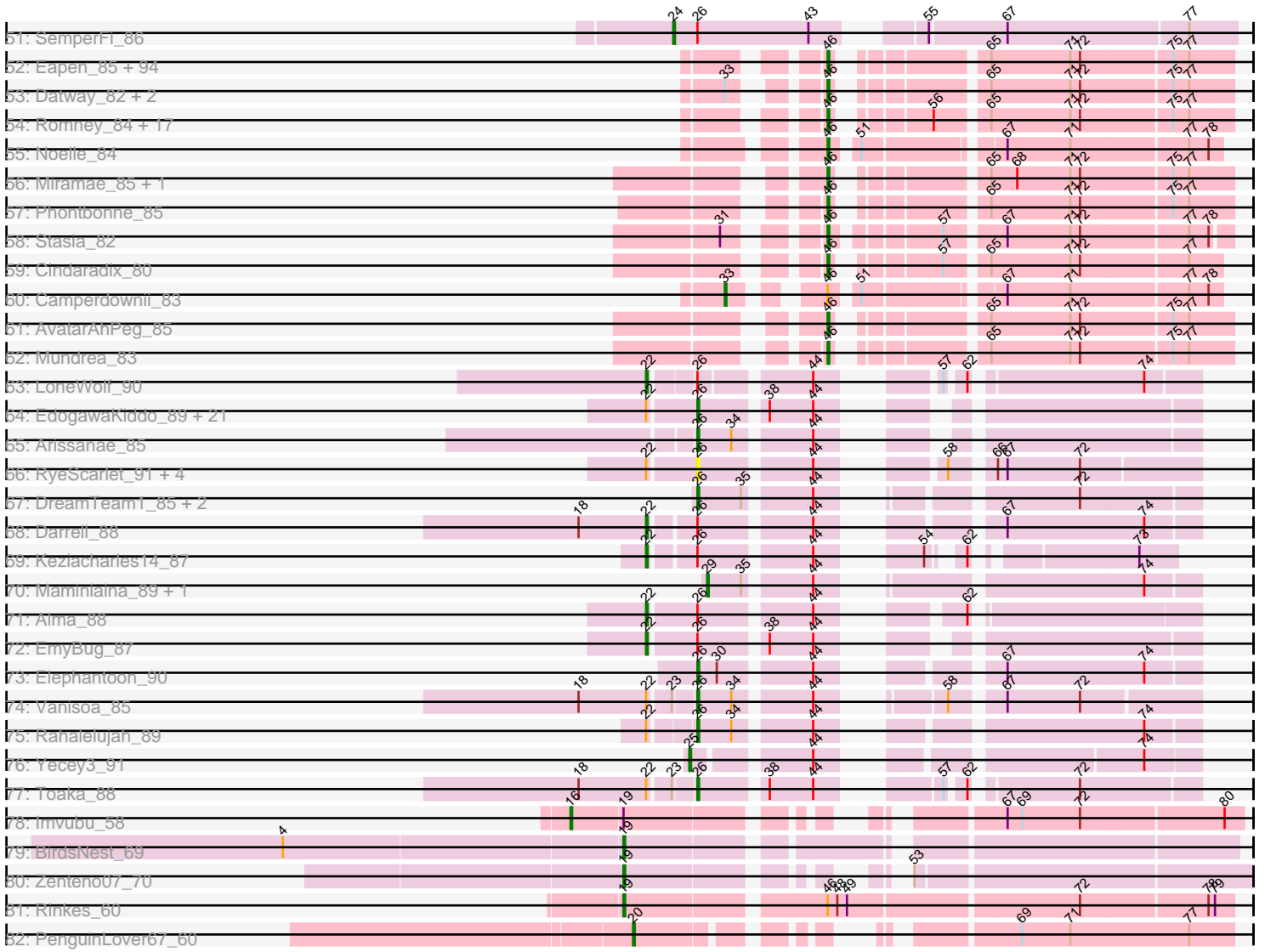


Pham 224263



Pham 224263



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 224263 Report

This analysis was run 03/28/25 on database version 593.

Pham number 224263 has 245 members, 20 are drafts.

Phages represented in each track:

- Track 1 : Chargerpower_86
- Track 2 : Zimmer_87
- Track 3 : Refuge_88
- Track 4 : Steamy_85
- Track 5 : DarthPhader_86
- Track 6 : Luchador_85
- Track 7 : Jeeves_88
- Track 8 : Sunhee_87
- Track 9 : Ph8s_87
- Track 10 : LilTurb_87, Jerm_88, Agape74_88, Whabigail7_85, Turbido_87, Dignity_88, AbbyPaige_88
- Track 11 : Trixie_86
- Track 12 : Power_86, QueenB2_83, SnapTap_86, Georgie2_88, Crucio_86
- Track 13 : Trooper_86
- Track 14 : AN3_86, VA6_86
- Track 15 : First_0087, BengiVuitton_88
- Track 16 : Caraxes_87, Superchunk_86
- Track 17 : CRB1_87
- Track 18 : Tristan_82, Phaded_80, Bactobuster_78
- Track 19 : Anselm_87
- Track 20 : Dalmatian_86, DudeLittle_84
- Track 21 : KingCyrus_85, EvilGenius_86
- Track 22 : LionsBait_85
- Track 23 : IronMan_83, Landor_84
- Track 24 : JoshKayV_88
- Track 25 : Fameo_84, Heffalump_83
- Track 26 : Leviathan_88
- Track 27 : Iwokeuplikedis_90
- Track 28 : TarsusIV_85
- Track 29 : Benvolio_85, Echild_89
- Track 30 : SwirlSquare_89
- Track 31 : XianYue_85
- Track 32 : BiancaTri92_84
- Track 33 : BobSwaget_80
- Track 34 : Adzzy_87
- Track 35 : LadyBird_90
- Track 36 : Retro23_86

- Track 37 : Che12_88
- Track 38 : Smeagan_89
- Track 39 : 20ES_88
- Track 40 : NothingSpecial_81
- Track 41 : Pukovnik_81
- Track 42 : Jaan_84
- Track 43 : ArcherNM_81
- Track 44 : ChipMunk_87
- Track 45 : Herbertwm_86
- Track 46 : NicoleTera_85
- Track 47 : SweetiePie_86
- Track 48 : FiringLine_86, QueenBeesly_86
- Track 49 : Deloris_88
- Track 50 : Odin_85
- Track 51 : SemperFi_86
- Track 52 : Eapen_85, Eurydice_86, Happiness_84, Deano_82, Arturo_82, Annyong_84, Chaph_85, LappelDuVide_85, Tinybot_84, Peaches_83, Burger_83, Obama12_86, DirtyDunning_84, Ohfah_86, BubbleTrouble_84, Kratak_84, Eagle_84, Baby16_85, Citius_85, Flux_86, Funston_84, Thanksgivukkah_84, Broseidon_85, Maverick_84, LittleGuy_85, Bombshell_85, Iceman_83, SenorClean_80, TinaFeyge_83, Kampy_84, Gadost_85, Kyee_85, ChampagnePapi_88, Palestino_84, Nemo27_84, Maxo_87, ICleared_84, Koreni_84, Commander_83, NorthStar_82, Florean_85, Roosevelt_83, Taquarus_84, MeeZee_84, Holli_84, Eris_84, Lemur_85, Mazhar510_85, JoongJeon_84, CentreCat_85, Rosa24_81, Jaykayelowell_82, NotAPhaseMom_84, Caelakin_83, Polymorphads_86, Ulysses_84, Melvin_87, OKaNui_84, Ruin_85, Lorenzo_85, Cocoaberry_85, TygerBlood_85, Millski_84, Wander_85, TroyPia_86, Connomayer_85, Dhanush_85, Avle17_85, YoSam321_85, Pipcraft_81, Houdini22_84, Bruiser_84, Shaka_83, Phelipe_85, Alberto7_86, Morrow_87, LHTSCC_88, Medusa_84, Nyxis_84, Blackmoor_84, Phacado_85, HamSlice_81, Sabertooth_85, Koan_80, TiroTheta9_84, Eros_85, KFPoly_84, Bartimeaus_85, BellusTerra_85, Clarenza_84, Lunsford_85, Iracema64_85, Scamp_85, Huxley_74, Nebs_86
- Track 53 : Datway_82, Shygu2_83, Xena_81
- Track 54 : Romney_84, Abdiel_84, Wilbur_85, Pumbaa_85, LochMonster_86, Sparxx_86, JetBlade_86, Phighter1804_85, Kingmustik0402_85, Spino_84, PeterPeter_85, Cerulean_87, BangNhom_82, Relief_84, LittleB_85, Albee_85, SheldonCooper_85, Skipitt_84
- Track 55 : Noelle_84
- Track 56 : Miramae_85, Stink_85
- Track 57 : Phontbonne_85
- Track 58 : Stasia_82
- Track 59 : Cindaradix_80
- Track 60 : Camperdownii_83
- Track 61 : AvatarAhPeg_85
- Track 62 : Mundrea_83
- Track 63 : LoneWolf_90
- Track 64 : EdogawaKiddo_89, Scherzo_88, HortumSL17_91, Qobbit_88, Aliter_83, Fayely_88, Tubs_90, Sachima_86, Conquerage_88, Catalina_92, Eidsmoe_88, Beemo_90, Pioneer_90, Ugenie5_77, Myxus_90, ExplosioNervosa_88, Priya_88, Phaeder_90, Phonnegut_90, Lilleskat_87, PackMan_85, Spouty_88
- Track 65 : Arissanae_85
- Track 66 : RyeScarlet_91, Jiawan_88, Onglai_88, Holecx_89, Hanray_88

- Track 67 : DreamTeam1_85, SheaKeira_85, Charm_85
- Track 68 : Darrell_88
- Track 69 : Keziacharles14_87
- Track 70 : Maminiaina_89, BogosyJay_89
- Track 71 : Alma_88
- Track 72 : EmyBug_87
- Track 73 : Elephantoon_90
- Track 74 : Vanisoa_85
- Track 75 : Rahalelujah_89
- Track 76 : Yecey3_91
- Track 77 : Toaka_88
- Track 78 : Imvubu_58
- Track 79 : BirdsNest_69
- Track 80 : Zenteno07_70
- Track 81 : Rinkes_60
- Track 82 : PenguinLover67_60

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

The start number called the most often in the published annotations is 46, it was called in 120 of the 225 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Abdiel_84, Albee_85, Alberto7_86, Annyong_84, Arturo_82, AvatarAhPeg_85, Avle17_85, Baby16_85, BangNhom_82, Bartimeaus_85, BellusTerra_85, Blackmoor_84, Bombshell_85, Broseidon_85, Bruiser_84, BubbleTrouble_84, Burger_83, Caelakin_83, CentreCat_85, Cerulean_87, ChampagnePapi_88, Chaph_85, Cindaradix_80, Citius_85, Clarenza_84, Cocoaberry_85, Commander_83, Connomayer_85, Datway_82, Deano_82, Dhanush_85, DirtyDunning_84, Eagle_84, Eapen_85, Eris_84, Eros_85, Eurydice_86, Floean_85, Flux_86, Funston_84, Gadost_85, HamSlice_81, Happiness_84, Holli_84, Houdini22_84, Huxley_74, ICleared_84, Iceman_83, Iracema64_85, Jaykayelowell_82, JetBlade_86, JoongJeon_84, KFPoly_84, Kampy_84, Kingmustik0402_85, Koan_80, Koreni_84, Kratak_84, Kyee_85, LHTSCC_88, LappelDuVide_85, Lemur_85, LittleB_85, LittleGuy_85, LochMonster_86, Lorenzo_85, Lunsford_85, Maverick_84, Maxo_87, Mazhar510_85, Medusa_84, MeeZee_84, Melvin_87, Millski_84, Miramae_85, Morrow_87, Mundrea_83, Nebs_86, Nemo27_84, Noelle_84, NorthStar_82, NotAPhaseMom_84, Nyxis_84, OKaNui_84, Obama12_86, Ohfah_86, Palestino_84, Peaches_83, PeterPeter_85, Phacado_85, Phelipe_85, Phighter1804_85, Phontbonne_85, Pipcraft_81, Polymorphads_86, Pumbaa_85, Relief_84, Romney_84, Roosevelt_83, Rosa24_81, Ruin_85, Sabertooth_85, Scamp_85, SenorClean_80, Shaka_83, SheldonCooper_85, Shygu2_83, Skipitt_84, Sparxx_86, Spino_84, Stasia_82, Stink_85, Taquarus_84, Thanksgivukkah_84, TinaFeyge_83, Tinybot_84, TiroTheta9_84, TroyPia_86, TygerBlood_85, Ulysses_84, Wander_85, Wilbur_85, Xena_81, YoSam321_85,

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

- Camperdownii_83, Herbertwm_86, NothingSpecial_81, Rinkes_60,

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

- 20ES_88, AN3_86, AbbyPaige_88, Adzzy_87, Agape74_88, Aliter_83, Alma_88, Anselm_87, ArcherNM_81, Arissanae_85, Bactobuster_78, Beemo_90, BengiVuitton_88, Benvolio_85, BiancaTri92_84, BirdsNest_69, BobSwaget_80, BogosyJay_89, CRB1_87, Caraxes_87, Catalina_92, Chargerpower_86, Charm_85, Che12_88, ChipMunk_87, Conquerage_88, Crucio_86, Dalmatian_86, Darrell_88, DARTHPhader_86, Deloris_88, Dignity_88, DreamTeam1_85, DudeLittle_84, Echild_89, EdogawaKiddo_89, Eidsmoe_88, Elephantoon_90, EmyBug_87, EvilGenius_86, ExplosioNervosa_88, Fameo_84, Fayely_88, FiringLine_86, First_0087, Georgie2_88, Hanray_88, Heffalump_83, Halex_89, HortumSL17_91, Imvubu_58, IronMan_83, Iwokeuplikedis_90, Jaan_84, Jeeves_88, Jerm_88, Jiawan_88, JoshKayV_88, Keziacharles14_87, KingCyrus_85, LadyBird_90, Landor_84, Leviathan_88, LilTurb_87, Lilleskat_87, LionsBait_85, LoneWolf_90, Luchador_85, Maminiaina_89, Myxus_90, NicoleTera_85, Odin_85, Onglai_88, PackMan_85, PenguinLover67_60, Ph8s_87, Phaded_80, Phaeder_90, Phonnegut_90, Pioneer_90, Power_86, Priya_88, Pukovnik_81, Qobbit_88, QueenB2_83, QueenBeesly_86, Rahalelujah_89, Refuge_88, Retro23_86, RyeScarlet_91, Sachima_86, Scherzo_88, SemperFi_86, SheaKeira_85, Smeagan_89, SnapTap_86, Spouty_88, Steamy_85, Sunhee_87, Superchunk_86, SweetiePie_86, SwirlSquare_89, TarsusIV_85, Toaka_88, Tristan_82, Trixie_86, Trooper_86, Tubs_90, Turbido_87, Ugenie5_77, VA6_86, Vanisoa_85, Whabigail7_85, XianYue_85, Yecey3_91, Zenteno07_70, Zimmer_87,

Summary by start number:

Start 16:

- Found in 1 of 245 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 225
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Imvubu_58 (B10),

Start 19:

- Found in 4 of 245 (1.6%) of genes in pham
- Manual Annotations of this start: 3 of 225
- Called 75.0% of time when present
- Phage (with cluster) where this start called: BirdsNest_69 (B13), Rinkes_60 (B9), Zenteno07_70 (B13),

Start 20:

- Found in 1 of 245 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 225
- Called 100.0% of time when present
- Phage (with cluster) where this start called: PenguinLover67_60 (B9),

Start 22:

- Found in 36 of 245 (14.7%) of genes in pham
- Manual Annotations of this start: 5 of 225
- Called 13.9% of time when present
- Phage (with cluster) where this start called: Alma_88 (A9), Darrell_88 (A9), EmyBug_87 (A9), Keziacharles14_87 (A9), LoneWolf_90 (A9),

Start 24:

- Found in 55 of 245 (22.4%) of genes in pham
- Manual Annotations of this start: 11 of 225

- Called 25.5% of time when present
- Phage (with cluster) where this start called: 20ES_88 (A2), AN3_86 (A2), ArcherNM_81 (A2), BengiVuitton_88 (A2), CRB1_87 (A2), Che12_88 (A2), ChipMunk_87 (A2), First_0087 (A2), LadyBird_90 (A2), Odin_85 (A2), SemperFi_86 (A2), SweetiePie_86 (A2), Trixie_86 (A2), VA6_86 (A2),

Start 25:

- Found in 1 of 245 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 225
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Yecey3_91 (A9),

Start 26:

- Found in 101 of 245 (41.2%) of genes in pham
- Manual Annotations of this start: 70 of 225
- Called 81.2% of time when present
- Phage (with cluster) where this start called: AbbyPaige_88 (A2), Adzzy_87 (A2), Agape74_88 (A2), Aliter_83 (A9), Anselm_87 (A2), Arissanae_85 (A9), Beemo_90 (A9), Benvolio_85 (A2), BiancaTri92_84 (A2), BobSwaget_80 (A2), Caraxes_87 (A2), Catalina_92 (A9), Chargerpower_86 (A), Charm_85 (A9), Conquerage_88 (A9), Crucio_86 (A2), Dalmatian_86 (A2), Deloris_88 (A2), Dignity_88 (A2), DreamTeam1_85 (A9), DudeLittle_84 (A2), Echild_89 (A2), EdogawaKiddo_89 (A9), Eidsmoe_88 (A9), Elephantoon_90 (A9), EvilGenius_86 (A2), ExplosioNervosa_88 (A9), Fameo_84 (A2), Fayely_88 (A9), FiringLine_86 (A2), Georgie2_88 (A2), Hanray_88 (A9), Heffalump_83 (A2), Holes_89 (A9), HortumSL17_91 (A9), Iwokeuplikedis_90 (A2), Jeeves_88 (A14), Jerm_88 (A2), Jiawan_88 (A9), JoshKayV_88 (A2), KingCyrus_85 (A2), Leviathan_88 (A2), LilTurb_87 (A2), Lilleskat_87 (A9), LionsBait_85 (A2), Luchador_85 (A14), Myxus_90 (A9), NicoleTera_85 (A2), NothingSpecial_81 (A2), Onglai_88 (A9), PackMan_85 (A9), Ph8s_87 (A2), Phaeder_90 (A9), Phonnegut_90 (A9), Pioneer_90 (A9), Power_86 (A2), Priya_88 (A9), Qobbit_88 (A9), QueenB2_83 (A2), QueenBeesly_86 (A2), Rahalelujah_89 (A9), Retro23_86 (A2), RyeScarlet_91 (A9), Sachima_86 (A9), Scherzo_88 (A9), SheaKeira_85 (A9), Smeagan_89 (A2), SnapTap_86 (A2), Spouty_88 (A9), Steamy_85 (A12), Sunhee_87 (A14), Superchunk_86 (A2), SwirlSquare_89 (A2), TarsusIV_85 (A2), Toaka_88 (A9), Trooper_86 (A2), Tubs_90 (A9), Turbido_87 (A2), Ugenie5_77 (A9), Vanisoa_85 (A9), Whabigail7_85 (A2), XianYue_85 (A2),

Start 27:

- Found in 1 of 245 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 225
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Herbertwm_86 (A2),

Start 28:

- Found in 2 of 245 (0.8%) of genes in pham
- Manual Annotations of this start: 2 of 225
- Called 100.0% of time when present
- Phage (with cluster) where this start called: DARTHPhader_86 (A12), Zimmer_87 (A12),

Start 29:

- Found in 3 of 245 (1.2%) of genes in pham

- Manual Annotations of this start: 3 of 225
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BogosyJay_89 (A9), Maminiaina_89 (A9), Refuge_88 (A12),

Start 33:

- Found in 4 of 245 (1.6%) of genes in pham
- Manual Annotations of this start: 1 of 225
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Camperdownii_83 (A4),

Start 42:

- Found in 7 of 245 (2.9%) of genes in pham
- Manual Annotations of this start: 6 of 225
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bactobuster_78 (A2), IronMan_83 (A2), Jaan_84 (A2), Landor_84 (A2), Phaded_80 (A2), Pukovnik_81 (A2), Tristan_82 (A2),

Start 46:

- Found in 128 of 245 (52.2%) of genes in pham
- Manual Annotations of this start: 120 of 225
- Called 96.9% of time when present
- Phage (with cluster) where this start called: Abdiel_84 (A4), Albee_85 (A4), Alberto7_86 (A4), Annyong_84 (A4), Arturo_82 (A4), AvatarAhPeg_85 (A4), Avle17_85 (A4), Baby16_85 (A4), BangNhom_82 (A4), Bartimeaus_85 (A4), BellusTerra_85 (A4), Blackmoor_84 (A4), Bombshell_85 (A4), Broseidon_85 (A4), Bruiser_84 (A4), BubbleTrouble_84 (A4), Burger_83 (A4), Caelakin_83 (A4), CentreCat_85 (A4), Cerulean_87 (A4), ChampagnePapi_88 (A4), Chaph_85 (A4), Cindaradix_80 (A4), Citius_85 (A4), Clarenza_84 (A4), Cocoaberry_85 (A4), Commander_83 (A4), Connomayer_85 (A4), Datway_82 (A4), Deano_82 (A4), Dhanush_85 (A4), DirtyDunning_84 (A4), Eagle_84 (A4), Eapen_85 (A4), Eris_84 (A4), Eros_85 (A4), Eurydice_86 (A4), Florean_85 (A4), Flux_86 (A4), Funston_84 (A4), Gadost_85 (A4), HamSlice_81 (A4), Happiness_84 (A4), Holli_84 (A4), Houdini22_84 (A4), Huxley_74 (A4), ICleared_84 (A4), Iceman_83 (A4), Iracema64_85 (A4), Jaykayelowell_82 (A4), JetBlade_86 (A4), JoongJeon_84 (A4), KFPoly_84 (A4), Kamy_84 (A4), Kingmustik0402_85 (A4), Koan_80 (A4), Koreni_84 (A4), Kratak_84 (A4), Kyee_85 (A4), LHTSCC_88 (A4), LappelDuVide_85 (A4), Lemur_85 (A4), LittleB_85 (A4), LittleGuy_85 (A4), LochMonster_86 (A4), Lorenzo_85 (A4), Lunsford_85 (A4), Maverick_84 (A4), Maxo_87 (A4), Mazhar510_85 (A4), Medusa_84 (A4), MeeZee_84 (A4), Melvin_87 (A4), Millski_84 (A4), Miramae_85 (A4), Morrow_87 (A4), Mundrea_83 (A4), Nebs_86 (A4), Nemo27_84 (A4), Noelle_84 (A4), NorthStar_82 (A4), NotAPhaseMom_84 (A4), Nyxis_84 (A4), OKaNui_84 (A4), Obama12_86 (A4), Ohfah_86 (A4), Palestino_84 (A4), Peaches_83 (A4), PeterPeter_85 (A4), Phacado_85 (A4), Phelipe_85 (A4), Phighter1804_85 (A4), Phontbonne_85 (A4), Pipcraft_81 (A4), Polymorphads_86 (A4), Pumbaa_85 (A4), Relief_84 (A4), Romney_84 (A4), Roosevelt_83 (A4), Rosa24_81 (A4), Ruin_85 (A4), Sabertooth_85 (A4), Scamp_85 (A4), SenorClean_80 (A4), Shaka_83 (A4), SheldonCooper_85 (A4), Shygu2_83 (A4), Skipitt_84 (A4), Sparxx_86 (A4), Spino_84 (A4), Stasia_82 (A4), Stink_85 (A4), Taquarus_84 (A4), Thanksgivingkah_84 (A4), TinaFeyge_83 (A4), Tinybot_84 (A4), TiroTheta9_84 (A4), TroyPia_86 (A4), TygerBlood_85 (A4), Ulysses_84 (A4), Wander_85 (A4), Wilbur_85 (A4), Xena_81 (A4), YoSam321_85 (A4),

Summary by clusters:

There are 9 clusters represented in this pham: A, A14, A12, A2, A4, B10, A9, B9, B13,

Info for manual annotations of cluster A:

- Start number 26 was manually annotated 1 time for cluster A.

Info for manual annotations of cluster A12:

- Start number 26 was manually annotated 1 time for cluster A12.
- Start number 28 was manually annotated 2 times for cluster A12.
- Start number 29 was manually annotated 1 time for cluster A12.

Info for manual annotations of cluster A14:

- Start number 26 was manually annotated 2 times for cluster A14.

Info for manual annotations of cluster A2:

- Start number 24 was manually annotated 11 times for cluster A2.
- Start number 26 was manually annotated 39 times for cluster A2.
- Start number 27 was manually annotated 1 time for cluster A2.
- Start number 42 was manually annotated 6 times for cluster A2.

Info for manual annotations of cluster A4:

- Start number 33 was manually annotated 1 time for cluster A4.
- Start number 46 was manually annotated 120 times for cluster A4.

Info for manual annotations of cluster A9:

- Start number 22 was manually annotated 5 times for cluster A9.
- Start number 25 was manually annotated 1 time for cluster A9.
- Start number 26 was manually annotated 27 times for cluster A9.
- Start number 29 was manually annotated 2 times for cluster A9.

Info for manual annotations of cluster B10:

- Start number 16 was manually annotated 1 time for cluster B10.

Info for manual annotations of cluster B13:

- Start number 19 was manually annotated 2 times for cluster B13.

Info for manual annotations of cluster B9:

- Start number 19 was manually annotated 1 time for cluster B9.
- Start number 20 was manually annotated 1 time for cluster B9.

Gene Information:

Gene: 20ES_88 Start: 48926, Stop: 48621, Start Num: 24

Candidate Starts for 20ES_88:

(Start: 24 @48926 has 11 MA's), (Start: 26 @48911 has 70 MA's), (45, 48845), (55, 48803), (67, 48758), (76, 48653),

Gene: AN3_86 Start: 47190, Stop: 46879, Start Num: 24

Candidate Starts for AN3_86:

(Start: 24 @47190 has 11 MA's), (Start: 26 @47175 has 70 MA's), (38, 47130), (43, 47106), (55, 47061), (76, 46911),

Gene: AbbyPaige_88 Start: 49174, Stop: 48878, Start Num: 26

Candidate Starts for AbbyPaige_88:

(9, 49324), (Start: 24 @49189 has 11 MA's), (Start: 26 @49174 has 70 MA's), (43, 49105), (55, 49060), (67, 49015), (69, 49006),

Gene: Abdiel_84 Start: 48815, Stop: 48603, Start Num: 46

Candidate Starts for Abdiel_84:

(Start: 46 @48815 has 120 MA's), (56, 48773), (65, 48746), (71, 48698), (72, 48692), (75, 48638), (77, 48629),

Gene: Adzzy_87 Start: 47625, Stop: 47383, Start Num: 26

Candidate Starts for Adzzy_87:

(17, 47697), (Start: 24 @47640 has 11 MA's), (Start: 26 @47625 has 70 MA's), (54, 47547), (61, 47526), (71, 47460),

Gene: Agape74_88 Start: 49150, Stop: 48854, Start Num: 26

Candidate Starts for Agape74_88:

(9, 49300), (Start: 24 @49165 has 11 MA's), (Start: 26 @49150 has 70 MA's), (43, 49081), (55, 49036), (67, 48991), (69, 48982),

Gene: Albee_85 Start: 48803, Stop: 48591, Start Num: 46

Candidate Starts for Albee_85:

(Start: 46 @48803 has 120 MA's), (56, 48761), (65, 48734), (71, 48686), (72, 48680), (75, 48626), (77, 48617),

Gene: Alberto7_86 Start: 49140, Stop: 48928, Start Num: 46

Candidate Starts for Alberto7_86:

(Start: 46 @49140 has 120 MA's), (65, 49071), (71, 49023), (72, 49017), (75, 48963), (77, 48954),

Gene: Aliter_83 Start: 46251, Stop: 46006, Start Num: 26

Candidate Starts for Aliter_83:

(Start: 22 @46278 has 5 MA's), (Start: 26 @46251 has 70 MA's), (38, 46215), (44, 46188),

Gene: Alma_88 Start: 49120, Stop: 48845, Start Num: 22

Candidate Starts for Alma_88:

(Start: 22 @49120 has 5 MA's), (Start: 26 @49093 has 70 MA's), (44, 49030), (62, 48973),

Gene: Annyong_84 Start: 48848, Stop: 48636, Start Num: 46

Candidate Starts for Annyong_84:

(Start: 46 @48848 has 120 MA's), (65, 48779), (71, 48731), (72, 48725), (75, 48671), (77, 48662),

Gene: Anselm_87 Start: 49020, Stop: 48757, Start Num: 26

Candidate Starts for Anselm_87:

(Start: 24 @49035 has 11 MA's), (Start: 26 @49020 has 70 MA's), (38, 48975), (43, 48951),

Gene: ArcherNM_81 Start: 48470, Stop: 48147, Start Num: 24

Candidate Starts for ArcherNM_81:

(12, 48590), (Start: 24 @48470 has 11 MA's), (Start: 26 @48455 has 70 MA's), (41, 48395), (43, 48386), (54, 48314), (67, 48263),

Gene: Arissanae_85 Start: 48962, Stop: 48717, Start Num: 26

Candidate Starts for Arissanae_85:

(Start: 26 @48962 has 70 MA's), (34, 48941), (44, 48899),

Gene: Arturo_82 Start: 48931, Stop: 48719, Start Num: 46

Candidate Starts for Arturo_82:

(Start: 46 @48931 has 120 MA's), (65, 48862), (71, 48814), (72, 48808), (75, 48754), (77, 48745),

Gene: AvatarAhPeg_85 Start: 49056, Stop: 48844, Start Num: 46

Candidate Starts for AvatarAhPeg_85:

(Start: 46 @49056 has 120 MA's), (65, 48987), (71, 48939), (72, 48933), (75, 48879), (77, 48870),

Gene: Avle17_85 Start: 48797, Stop: 48585, Start Num: 46

Candidate Starts for Avle17_85:

(Start: 46 @48797 has 120 MA's), (65, 48728), (71, 48680), (72, 48674), (75, 48620), (77, 48611),

Gene: Baby16_85 Start: 48814, Stop: 48602, Start Num: 46

Candidate Starts for Baby16_85:

(Start: 46 @48814 has 120 MA's), (65, 48745), (71, 48697), (72, 48691), (75, 48637), (77, 48628),

Gene: Bactobuster_78 Start: 47603, Stop: 47352, Start Num: 42

Candidate Starts for Bactobuster_78:

(3, 47975), (21, 47696), (Start: 42 @47603 has 6 MA's), (77, 47372),

Gene: BangNhom_82 Start: 49240, Stop: 49028, Start Num: 46

Candidate Starts for BangNhom_82:

(Start: 46 @49240 has 120 MA's), (56, 49198), (65, 49171), (71, 49123), (72, 49117), (75, 49063), (77, 49054),

Gene: Bartimeaus_85 Start: 48805, Stop: 48593, Start Num: 46

Candidate Starts for Bartimeaus_85:

(Start: 46 @48805 has 120 MA's), (65, 48736), (71, 48688), (72, 48682), (75, 48628), (77, 48619),

Gene: Beemo_90 Start: 49084, Stop: 48839, Start Num: 26

Candidate Starts for Beemo_90:

(Start: 22 @49111 has 5 MA's), (Start: 26 @49084 has 70 MA's), (38, 49048), (44, 49021),

Gene: BellusTerra_85 Start: 48668, Stop: 48456, Start Num: 46

Candidate Starts for BellusTerra_85:

(Start: 46 @48668 has 120 MA's), (65, 48599), (71, 48551), (72, 48545), (75, 48491), (77, 48482),

Gene: BengiVuitton_88 Start: 49031, Stop: 48726, Start Num: 24

Candidate Starts for BengiVuitton_88:

(Start: 24 @49031 has 11 MA's), (Start: 26 @49016 has 70 MA's), (45, 48950), (55, 48908), (76, 48758),

Gene: Benvolio_85 Start: 48794, Stop: 48495, Start Num: 26

Candidate Starts for Benvolio_85:

(10, 48935), (Start: 24 @48809 has 11 MA's), (Start: 26 @48794 has 70 MA's), (37, 48755), (43, 48725), (55, 48677), (77, 48524),

Gene: BiancaTri92_84 Start: 48631, Stop: 48332, Start Num: 26

Candidate Starts for BiancaTri92_84:

(15, 48709), (Start: 24 @48646 has 11 MA's), (Start: 26 @48631 has 70 MA's), (37, 48592), (38, 48586), (43, 48562), (45, 48553), (77, 48361),

Gene: BirdsNest_69 Start: 56932, Stop: 56600, Start Num: 19

Candidate Starts for BirdsNest_69:

(4, 57136), (Start: 19 @56932 has 3 MA's),

Gene: Blackmoor_84 Start: 48805, Stop: 48593, Start Num: 46

Candidate Starts for Blackmoor_84:

(Start: 46 @48805 has 120 MA's), (65, 48736), (71, 48688), (72, 48682), (75, 48628), (77, 48619),

Gene: BobSwaget_80 Start: 46489, Stop: 46259, Start Num: 26

Candidate Starts for BobSwaget_80:

(Start: 24 @46504 has 11 MA's), (Start: 26 @46489 has 70 MA's), (47, 46426),

Gene: BogosyJay_89 Start: 49135, Stop: 48884, Start Num: 29

Candidate Starts for BogosyJay_89:

(Start: 29 @49135 has 3 MA's), (35, 49114), (44, 49078), (74, 48916),

Gene: Bombshell_85 Start: 48800, Stop: 48588, Start Num: 46

Candidate Starts for Bombshell_85:

(Start: 46 @48800 has 120 MA's), (65, 48731), (71, 48683), (72, 48677), (75, 48623), (77, 48614),

Gene: Broseidon_85 Start: 48806, Stop: 48594, Start Num: 46

Candidate Starts for Broseidon_85:

(Start: 46 @48806 has 120 MA's), (65, 48737), (71, 48689), (72, 48683), (75, 48629), (77, 48620),

Gene: Bruiser_84 Start: 48803, Stop: 48591, Start Num: 46

Candidate Starts for Bruiser_84:

(Start: 46 @48803 has 120 MA's), (65, 48734), (71, 48686), (72, 48680), (75, 48626), (77, 48617),

Gene: BubbleTrouble_84 Start: 48830, Stop: 48618, Start Num: 46

Candidate Starts for BubbleTrouble_84:

(Start: 46 @48830 has 120 MA's), (65, 48761), (71, 48713), (72, 48707), (75, 48653), (77, 48644),

Gene: Burger_83 Start: 48803, Stop: 48591, Start Num: 46

Candidate Starts for Burger_83:

(Start: 46 @48803 has 120 MA's), (65, 48734), (71, 48686), (72, 48680), (75, 48626), (77, 48617),

Gene: CRB1_87 Start: 49179, Stop: 48874, Start Num: 24

Candidate Starts for CRB1_87:

(Start: 24 @49179 has 11 MA's), (Start: 26 @49164 has 70 MA's), (45, 49098), (55, 49056), (76, 48906),

Gene: Caelakin_83 Start: 48803, Stop: 48591, Start Num: 46

Candidate Starts for Caelakin_83:

(Start: 46 @48803 has 120 MA's), (65, 48734), (71, 48686), (72, 48680), (75, 48626), (77, 48617),

Gene: Camperdownii_83 Start: 48398, Stop: 48144, Start Num: 33

Candidate Starts for Camperdownii_83:

(Start: 33 @48398 has 1 MA's), (Start: 46 @48359 has 120 MA's), (51, 48347), (67, 48272), (71, 48233), (77, 48164), (78, 48152),

Gene: Caraxes_87 Start: 47583, Stop: 47341, Start Num: 26
Candidate Starts for Caraxes_87:
(Start: 24 @47598 has 11 MA's), (Start: 26 @47583 has 70 MA's), (61, 47484),

Gene: Catalina_92 Start: 49198, Stop: 48953, Start Num: 26
Candidate Starts for Catalina_92:
(Start: 22 @49225 has 5 MA's), (Start: 26 @49198 has 70 MA's), (38, 49162), (44, 49135),

Gene: CentreCat_85 Start: 48843, Stop: 48631, Start Num: 46
Candidate Starts for CentreCat_85:
(Start: 46 @48843 has 120 MA's), (65, 48774), (71, 48726), (72, 48720), (75, 48666), (77, 48657),

Gene: Cerulean_87 Start: 49241, Stop: 49029, Start Num: 46
Candidate Starts for Cerulean_87:
(Start: 46 @49241 has 120 MA's), (56, 49199), (65, 49172), (71, 49124), (72, 49118), (75, 49064), (77, 49055),

Gene: ChampagnePapi_88 Start: 49243, Stop: 49031, Start Num: 46
Candidate Starts for ChampagnePapi_88:
(Start: 46 @49243 has 120 MA's), (65, 49174), (71, 49126), (72, 49120), (75, 49066), (77, 49057),

Gene: Chaph_85 Start: 48814, Stop: 48602, Start Num: 46
Candidate Starts for Chaph_85:
(Start: 46 @48814 has 120 MA's), (65, 48745), (71, 48697), (72, 48691), (75, 48637), (77, 48628),

Gene: Chargerpower_86 Start: 47145, Stop: 46894, Start Num: 26
Candidate Starts for Chargerpower_86:
(1, 47541), (2, 47505), (11, 47286), (Start: 24 @47160 has 11 MA's), (Start: 26 @47145 has 70 MA's),

Gene: Charm_85 Start: 48488, Stop: 48237, Start Num: 26
Candidate Starts for Charm_85:
(Start: 26 @48488 has 70 MA's), (35, 48461), (44, 48425), (72, 48308),

Gene: Che12_88 Start: 47719, Stop: 47462, Start Num: 24
Candidate Starts for Che12_88:
(Start: 24 @47719 has 11 MA's), (Start: 26 @47704 has 70 MA's), (45, 47650), (54, 47626), (61, 47605), (71, 47539),

Gene: ChipMunk_87 Start: 50092, Stop: 49781, Start Num: 24
Candidate Starts for ChipMunk_87:
(Start: 24 @50092 has 11 MA's), (Start: 26 @50077 has 70 MA's), (43, 50008), (55, 49963), (67, 49918),

Gene: Cindaradix_80 Start: 49002, Stop: 48796, Start Num: 46
Candidate Starts for Cindaradix_80:
(Start: 46 @49002 has 120 MA's), (57, 48954), (65, 48933), (71, 48885), (72, 48879), (77, 48816),

Gene: Citius_85 Start: 48824, Stop: 48612, Start Num: 46
Candidate Starts for Citius_85:
(Start: 46 @48824 has 120 MA's), (65, 48755), (71, 48707), (72, 48701), (75, 48647), (77, 48638),

Gene: Clarenza_84 Start: 48800, Stop: 48588, Start Num: 46
Candidate Starts for Clarenza_84:

(Start: 46 @48800 has 120 MA's), (65, 48731), (71, 48683), (72, 48677), (75, 48623), (77, 48614),

Gene: Cocoaberry_85 Start: 48804, Stop: 48592, Start Num: 46

Candidate Starts for Cocoaberry_85:

(Start: 46 @48804 has 120 MA's), (65, 48735), (71, 48687), (72, 48681), (75, 48627), (77, 48618),

Gene: Commander_83 Start: 48807, Stop: 48595, Start Num: 46

Candidate Starts for Commander_83:

(Start: 46 @48807 has 120 MA's), (65, 48738), (71, 48690), (72, 48684), (75, 48630), (77, 48621),

Gene: Connomayer_85 Start: 48803, Stop: 48591, Start Num: 46

Candidate Starts for Connomayer_85:

(Start: 46 @48803 has 120 MA's), (65, 48734), (71, 48686), (72, 48680), (75, 48626), (77, 48617),

Gene: Conquerage_88 Start: 48859, Stop: 48614, Start Num: 26

Candidate Starts for Conquerage_88:

(Start: 22 @48886 has 5 MA's), (Start: 26 @48859 has 70 MA's), (38, 48823), (44, 48796),

Gene: Crucio_86 Start: 49024, Stop: 48728, Start Num: 26

Candidate Starts for Crucio_86:

(10, 49168), (Start: 24 @49039 has 11 MA's), (Start: 26 @49024 has 70 MA's), (43, 48955), (55, 48910), (67, 48865), (77, 48757),

Gene: Dalmatian_86 Start: 48805, Stop: 48542, Start Num: 26

Candidate Starts for Dalmatian_86:

(14, 48901), (Start: 24 @48820 has 11 MA's), (Start: 26 @48805 has 70 MA's), (43, 48736),

Gene: Darrell_88 Start: 48317, Stop: 48039, Start Num: 22

Candidate Starts for Darrell_88:

(18, 48359), (Start: 22 @48317 has 5 MA's), (Start: 26 @48293 has 70 MA's), (44, 48230), (67, 48155), (74, 48071),

Gene: DarthPhader_86 Start: 50000, Stop: 49740, Start Num: 28

Candidate Starts for DarthPhader_86:

(Start: 28 @50000 has 2 MA's), (44, 49940), (67, 49853), (72, 49808),

Gene: Datway_82 Start: 48614, Stop: 48402, Start Num: 46

Candidate Starts for Datway_82:

(Start: 33 @48650 has 1 MA's), (Start: 46 @48614 has 120 MA's), (65, 48545), (71, 48497), (72, 48491), (75, 48437), (77, 48428),

Gene: Deano_82 Start: 48811, Stop: 48599, Start Num: 46

Candidate Starts for Deano_82:

(Start: 46 @48811 has 120 MA's), (65, 48742), (71, 48694), (72, 48688), (75, 48634), (77, 48625),

Gene: Deloris_88 Start: 48709, Stop: 48419, Start Num: 26

Candidate Starts for Deloris_88:

(Start: 24 @48724 has 11 MA's), (Start: 26 @48709 has 70 MA's), (45, 48643), (55, 48601), (76, 48451),

Gene: Dhanush_85 Start: 48806, Stop: 48594, Start Num: 46

Candidate Starts for Dhanush_85:

(Start: 46 @48806 has 120 MA's), (65, 48737), (71, 48689), (72, 48683), (75, 48629), (77, 48620),

Gene: Dignity_88 Start: 49257, Stop: 48961, Start Num: 26

Candidate Starts for Dignity_88:

(9, 49407), (Start: 24 @49272 has 11 MA's), (Start: 26 @49257 has 70 MA's), (43, 49188), (55, 49143), (67, 49098), (69, 49089),

Gene: DirtyDunning_84 Start: 48815, Stop: 48603, Start Num: 46

Candidate Starts for DirtyDunning_84:

(Start: 46 @48815 has 120 MA's), (65, 48746), (71, 48698), (72, 48692), (75, 48638), (77, 48629),

Gene: DreamTeam1_85 Start: 48336, Stop: 48085, Start Num: 26

Candidate Starts for DreamTeam1_85:

(Start: 26 @48336 has 70 MA's), (35, 48309), (44, 48273), (72, 48156),

Gene: DudeLittle_84 Start: 48523, Stop: 48260, Start Num: 26

Candidate Starts for DudeLittle_84:

(14, 48619), (Start: 24 @48538 has 11 MA's), (Start: 26 @48523 has 70 MA's), (43, 48454),

Gene: Eagle_84 Start: 48865, Stop: 48653, Start Num: 46

Candidate Starts for Eagle_84:

(Start: 46 @48865 has 120 MA's), (65, 48796), (71, 48748), (72, 48742), (75, 48688), (77, 48679),

Gene: Eapen_85 Start: 48798, Stop: 48586, Start Num: 46

Candidate Starts for Eapen_85:

(Start: 46 @48798 has 120 MA's), (65, 48729), (71, 48681), (72, 48675), (75, 48621), (77, 48612),

Gene: Echild_89 Start: 48818, Stop: 48519, Start Num: 26

Candidate Starts for Echild_89:

(10, 48959), (Start: 24 @48833 has 11 MA's), (Start: 26 @48818 has 70 MA's), (37, 48779), (43, 48749), (55, 48701), (77, 48548),

Gene: EdogawaKiddo_89 Start: 49161, Stop: 48916, Start Num: 26

Candidate Starts for EdogawaKiddo_89:

(Start: 22 @49188 has 5 MA's), (Start: 26 @49161 has 70 MA's), (38, 49125), (44, 49098),

Gene: Eidsmoe_88 Start: 48852, Stop: 48607, Start Num: 26

Candidate Starts for Eidsmoe_88:

(Start: 22 @48879 has 5 MA's), (Start: 26 @48852 has 70 MA's), (38, 48816), (44, 48789),

Gene: Elephantoon_90 Start: 49016, Stop: 48762, Start Num: 26

Candidate Starts for Elephantoon_90:

(Start: 26 @49016 has 70 MA's), (30, 49004), (44, 48953), (67, 48878), (74, 48794),

Gene: EmyBug_87 Start: 48881, Stop: 48609, Start Num: 22

Candidate Starts for EmyBug_87:

(Start: 22 @48881 has 5 MA's), (Start: 26 @48854 has 70 MA's), (38, 48818), (44, 48791),

Gene: Eris_84 Start: 48815, Stop: 48603, Start Num: 46

Candidate Starts for Eris_84:

(Start: 46 @48815 has 120 MA's), (65, 48746), (71, 48698), (72, 48692), (75, 48638), (77, 48629),

Gene: Eros_85 Start: 48811, Stop: 48599, Start Num: 46

Candidate Starts for Eros_85:

(Start: 46 @48811 has 120 MA's), (65, 48742), (71, 48694), (72, 48688), (75, 48634), (77, 48625),

Gene: Eurydice_86 Start: 48840, Stop: 48628, Start Num: 46

Candidate Starts for Eurydice_86:

(Start: 46 @48840 has 120 MA's), (65, 48771), (71, 48723), (72, 48717), (75, 48663), (77, 48654),

Gene: EvilGenius_86 Start: 50078, Stop: 49782, Start Num: 26

Candidate Starts for EvilGenius_86:

(Start: 24 @50093 has 11 MA's), (Start: 26 @50078 has 70 MA's), (43, 50009), (55, 49964), (67, 49919),

Gene: ExplosioNervosa_88 Start: 48920, Stop: 48675, Start Num: 26

Candidate Starts for ExplosioNervosa_88:

(Start: 22 @48947 has 5 MA's), (Start: 26 @48920 has 70 MA's), (38, 48884), (44, 48857),

Gene: Fameo_84 Start: 48576, Stop: 48280, Start Num: 26

Candidate Starts for Fameo_84:

(14, 48672), (Start: 24 @48591 has 11 MA's), (Start: 26 @48576 has 70 MA's), (43, 48507), (55, 48462), (67, 48417), (77, 48309),

Gene: Fayely_88 Start: 48828, Stop: 48583, Start Num: 26

Candidate Starts for Fayely_88:

(Start: 22 @48855 has 5 MA's), (Start: 26 @48828 has 70 MA's), (38, 48792), (44, 48765),

Gene: FiringLine_86 Start: 48964, Stop: 48668, Start Num: 26

Candidate Starts for FiringLine_86:

(Start: 24 @48979 has 11 MA's), (Start: 26 @48964 has 70 MA's), (43, 48895), (55, 48850), (67, 48805), (77, 48697),

Gene: First_0087 Start: 48829, Stop: 48521, Start Num: 24

Candidate Starts for First_0087:

(Start: 24 @48829 has 11 MA's), (Start: 26 @48814 has 70 MA's), (45, 48748), (55, 48706), (76, 48553),

Gene: Florean_85 Start: 48802, Stop: 48590, Start Num: 46

Candidate Starts for Florean_85:

(Start: 46 @48802 has 120 MA's), (65, 48733), (71, 48685), (72, 48679), (75, 48625), (77, 48616),

Gene: Flux_86 Start: 48801, Stop: 48589, Start Num: 46

Candidate Starts for Flux_86:

(Start: 46 @48801 has 120 MA's), (65, 48732), (71, 48684), (72, 48678), (75, 48624), (77, 48615),

Gene: Funston_84 Start: 48800, Stop: 48588, Start Num: 46

Candidate Starts for Funston_84:

(Start: 46 @48800 has 120 MA's), (65, 48731), (71, 48683), (72, 48677), (75, 48623), (77, 48614),

Gene: Gadost_85 Start: 48804, Stop: 48592, Start Num: 46

Candidate Starts for Gadost_85:

(Start: 46 @48804 has 120 MA's), (65, 48735), (71, 48687), (72, 48681), (75, 48627), (77, 48618),

Gene: Georgie2_88 Start: 49168, Stop: 48872, Start Num: 26

Candidate Starts for Georgie2_88:

(10, 49312), (Start: 24 @49183 has 11 MA's), (Start: 26 @49168 has 70 MA's), (43, 49099), (55, 49054), (67, 49009), (77, 48901),

Gene: HamSlice_81 Start: 48802, Stop: 48590, Start Num: 46

Candidate Starts for HamSlice_81:

(Start: 46 @48802 has 120 MA's), (65, 48733), (71, 48685), (72, 48679), (75, 48625), (77, 48616),

Gene: Hanray_88 Start: 49149, Stop: 48895, Start Num: 26

Candidate Starts for Hanray_88:

(Start: 22 @49176 has 5 MA's), (Start: 26 @49149 has 70 MA's), (44, 49086), (58, 49038), (66, 49017), (67, 49011), (72, 48966),

Gene: Happiness_84 Start: 48826, Stop: 48614, Start Num: 46

Candidate Starts for Happiness_84:

(Start: 46 @48826 has 120 MA's), (65, 48757), (71, 48709), (72, 48703), (75, 48649), (77, 48640),

Gene: Heffalump_83 Start: 49044, Stop: 48748, Start Num: 26

Candidate Starts for Heffalump_83:

(14, 49140), (Start: 24 @49059 has 11 MA's), (Start: 26 @49044 has 70 MA's), (43, 48975), (55, 48930), (67, 48885), (77, 48777),

Gene: Herbertwm_86 Start: 49248, Stop: 48952, Start Num: 27

Candidate Starts for Herbertwm_86:

(Start: 27 @49248 has 1 MA's), (Start: 46 @49188 has 120 MA's), (55, 49137), (71, 49050),

Gene: Holec_89 Start: 49162, Stop: 48908, Start Num: 26

Candidate Starts for Holec_89:

(Start: 22 @49189 has 5 MA's), (Start: 26 @49162 has 70 MA's), (44, 49099), (58, 49051), (66, 49030), (67, 49024), (72, 48979),

Gene: Holli_84 Start: 48593, Stop: 48381, Start Num: 46

Candidate Starts for Holli_84:

(Start: 46 @48593 has 120 MA's), (65, 48524), (71, 48476), (72, 48470), (75, 48416), (77, 48407),

Gene: HortumSL17_91 Start: 49196, Stop: 48951, Start Num: 26

Candidate Starts for HortumSL17_91:

(Start: 22 @49223 has 5 MA's), (Start: 26 @49196 has 70 MA's), (38, 49160), (44, 49133),

Gene: Houdini22_84 Start: 48804, Stop: 48592, Start Num: 46

Candidate Starts for Houdini22_84:

(Start: 46 @48804 has 120 MA's), (65, 48735), (71, 48687), (72, 48681), (75, 48627), (77, 48618),

Gene: Huxley_74 Start: 46696, Stop: 46484, Start Num: 46

Candidate Starts for Huxley_74:

(Start: 46 @46696 has 120 MA's), (65, 46627), (71, 46579), (72, 46573), (75, 46519), (77, 46510),

Gene: ICleared_84 Start: 48871, Stop: 48659, Start Num: 46

Candidate Starts for ICleared_84:

(Start: 46 @48871 has 120 MA's), (65, 48802), (71, 48754), (72, 48748), (75, 48694), (77, 48685),

Gene: Iceman_83 Start: 49093, Stop: 48881, Start Num: 46

Candidate Starts for Iceman_83:

(Start: 46 @49093 has 120 MA's), (65, 49024), (71, 48976), (72, 48970), (75, 48916), (77, 48907),

Gene: Imvubu_58 Start: 54802, Stop: 54467, Start Num: 16

Candidate Starts for Imvubu_58:

(Start: 16 @54802 has 1 MA's), (Start: 19 @54772 has 3 MA's), (67, 54607), (69, 54598), (72, 54562), (80, 54478),

Gene: Iracema64_85 Start: 49067, Stop: 48855, Start Num: 46

Candidate Starts for Iracema64_85:

(Start: 46 @49067 has 120 MA's), (65, 48998), (71, 48950), (72, 48944), (75, 48890), (77, 48881),

Gene: IronMan_83 Start: 49127, Stop: 48876, Start Num: 42

Candidate Starts for IronMan_83:

(Start: 42 @49127 has 6 MA's), (77, 48896),

Gene: Iwokeuplikedis_90 Start: 49128, Stop: 48847, Start Num: 26

Candidate Starts for Iwokeuplikedis_90:

(Start: 26 @49128 has 70 MA's), (39, 49092), (45, 49065), (52, 49044), (60, 49017), (66, 48993), (72, 48942),

Gene: Jaan_84 Start: 49235, Stop: 48984, Start Num: 42

Candidate Starts for Jaan_84:

(3, 49607), (21, 49328), (Start: 42 @49235 has 6 MA's), (56, 49157), (77, 49004),

Gene: Jaykayelowell_82 Start: 48796, Stop: 48584, Start Num: 46

Candidate Starts for Jaykayelowell_82:

(Start: 46 @48796 has 120 MA's), (65, 48727), (71, 48679), (72, 48673), (75, 48619), (77, 48610),

Gene: Jeeves_88 Start: 47130, Stop: 46858, Start Num: 26

Candidate Starts for Jeeves_88:

(15, 47208), (Start: 24 @47145 has 11 MA's), (Start: 26 @47130 has 70 MA's), (45, 47067), (47, 47061), (56, 47019), (61, 47001), (69, 46965),

Gene: Jerm_88 Start: 49225, Stop: 48929, Start Num: 26

Candidate Starts for Jerm_88:

(9, 49375), (Start: 24 @49240 has 11 MA's), (Start: 26 @49225 has 70 MA's), (43, 49156), (55, 49111), (67, 49066), (69, 49057),

Gene: JetBlade_86 Start: 48831, Stop: 48619, Start Num: 46

Candidate Starts for JetBlade_86:

(Start: 46 @48831 has 120 MA's), (56, 48789), (65, 48762), (71, 48714), (72, 48708), (75, 48654), (77, 48645),

Gene: Jiawan_88 Start: 49179, Stop: 48925, Start Num: 26

Candidate Starts for Jiawan_88:

(Start: 22 @49206 has 5 MA's), (Start: 26 @49179 has 70 MA's), (44, 49116), (58, 49068), (66, 49047), (67, 49041), (72, 48996),

Gene: JoongJeon_84 Start: 48797, Stop: 48585, Start Num: 46

Candidate Starts for JoongJeon_84:

(Start: 46 @48797 has 120 MA's), (65, 48728), (71, 48680), (72, 48674), (75, 48620), (77, 48611),

Gene: JoshKayV_88 Start: 49393, Stop: 49097, Start Num: 26

Candidate Starts for JoshKayV_88:

(Start: 26 @49393 has 70 MA's), (43, 49324), (55, 49279), (69, 49225), (76, 49129),

Gene: KFPoly_84 Start: 48797, Stop: 48585, Start Num: 46

Candidate Starts for KFPoly_84:

(Start: 46 @48797 has 120 MA's), (65, 48728), (71, 48680), (72, 48674), (75, 48620), (77, 48611),

Gene: Kamy_84 Start: 48806, Stop: 48594, Start Num: 46

Candidate Starts for Kamy_84:

(Start: 46 @48806 has 120 MA's), (65, 48737), (71, 48689), (72, 48683), (75, 48629), (77, 48620),

Gene: Keziacharles14_87 Start: 49677, Stop: 49432, Start Num: 22

Candidate Starts for Keziacharles14_87:

(Start: 22 @49677 has 5 MA's), (Start: 26 @49653 has 70 MA's), (44, 49590), (54, 49551), (62, 49539), (73, 49455),

Gene: KingCyrus_85 Start: 50091, Stop: 49795, Start Num: 26

Candidate Starts for KingCyrus_85:

(Start: 24 @50106 has 11 MA's), (Start: 26 @50091 has 70 MA's), (43, 50022), (55, 49977), (67, 49932),

Gene: Kingmustik0402_85 Start: 48792, Stop: 48580, Start Num: 46

Candidate Starts for Kingmustik0402_85:

(Start: 46 @48792 has 120 MA's), (56, 48750), (65, 48723), (71, 48675), (72, 48669), (75, 48615), (77, 48606),

Gene: Koan_80 Start: 48803, Stop: 48591, Start Num: 46

Candidate Starts for Koan_80:

(Start: 46 @48803 has 120 MA's), (65, 48734), (71, 48686), (72, 48680), (75, 48626), (77, 48617),

Gene: Koreni_84 Start: 48484, Stop: 48272, Start Num: 46

Candidate Starts for Koreni_84:

(Start: 46 @48484 has 120 MA's), (65, 48415), (71, 48367), (72, 48361), (75, 48307), (77, 48298),

Gene: Kratak_84 Start: 48837, Stop: 48625, Start Num: 46

Candidate Starts for Kratak_84:

(Start: 46 @48837 has 120 MA's), (65, 48768), (71, 48720), (72, 48714), (75, 48660), (77, 48651),

Gene: Kyee_85 Start: 48798, Stop: 48586, Start Num: 46

Candidate Starts for Kyee_85:

(Start: 46 @48798 has 120 MA's), (65, 48729), (71, 48681), (72, 48675), (75, 48621), (77, 48612),

Gene: LHTSCC_88 Start: 49244, Stop: 49032, Start Num: 46

Candidate Starts for LHTSCC_88:

(Start: 46 @49244 has 120 MA's), (65, 49175), (71, 49127), (72, 49121), (75, 49067), (77, 49058),

Gene: LadyBird_90 Start: 49324, Stop: 49019, Start Num: 24

Candidate Starts for LadyBird_90:

(Start: 24 @49324 has 11 MA's), (Start: 26 @49309 has 70 MA's), (45, 49243), (55, 49201), (67, 49156), (76, 49051),

Gene: Landor_84 Start: 49160, Stop: 48909, Start Num: 42

Candidate Starts for Landor_84:

(Start: 42 @49160 has 6 MA's), (77, 48929),

Gene: LappelDuVide_85 Start: 48803, Stop: 48591, Start Num: 46
Candidate Starts for LappelDuVide_85:
(Start: 46 @48803 has 120 MA's), (65, 48734), (71, 48686), (72, 48680), (75, 48626), (77, 48617),

Gene: Lemur_85 Start: 48800, Stop: 48588, Start Num: 46
Candidate Starts for Lemur_85:
(Start: 46 @48800 has 120 MA's), (65, 48731), (71, 48683), (72, 48677), (75, 48623), (77, 48614),

Gene: Leviathan_88 Start: 49306, Stop: 49010, Start Num: 26
Candidate Starts for Leviathan_88:
(9, 49456), (Start: 24 @49321 has 11 MA's), (Start: 26 @49306 has 70 MA's), (43, 49237), (47, 49222),
(55, 49192), (67, 49147), (69, 49138),

Gene: LilTurb_87 Start: 49102, Stop: 48806, Start Num: 26
Candidate Starts for LilTurb_87:
(9, 49252), (Start: 24 @49117 has 11 MA's), (Start: 26 @49102 has 70 MA's), (43, 49033), (55, 48988),
(67, 48943), (69, 48934),

Gene: Lilleskat_87 Start: 49150, Stop: 48905, Start Num: 26
Candidate Starts for Lilleskat_87:
(Start: 22 @49177 has 5 MA's), (Start: 26 @49150 has 70 MA's), (38, 49114), (44, 49087),

Gene: LionsBait_85 Start: 49616, Stop: 49320, Start Num: 26
Candidate Starts for LionsBait_85:
(Start: 26 @49616 has 70 MA's), (43, 49547), (55, 49502), (67, 49457),

Gene: LittleB_85 Start: 48804, Stop: 48592, Start Num: 46
Candidate Starts for LittleB_85:
(Start: 46 @48804 has 120 MA's), (56, 48762), (65, 48735), (71, 48687), (72, 48681), (75, 48627), (77,
48618),

Gene: LittleGuy_85 Start: 48694, Stop: 48482, Start Num: 46
Candidate Starts for LittleGuy_85:
(Start: 46 @48694 has 120 MA's), (65, 48625), (71, 48577), (72, 48571), (75, 48517), (77, 48508),

Gene: LochMonster_86 Start: 49040, Stop: 48828, Start Num: 46
Candidate Starts for LochMonster_86:
(Start: 46 @49040 has 120 MA's), (56, 48998), (65, 48971), (71, 48923), (72, 48917), (75, 48863), (77,
48854),

Gene: LoneWolf_90 Start: 49212, Stop: 48946, Start Num: 22
Candidate Starts for LoneWolf_90:
(Start: 22 @49212 has 5 MA's), (Start: 26 @49188 has 70 MA's), (44, 49128), (57, 49083), (62, 49074),
(74, 48978),

Gene: Lorenzo_85 Start: 48801, Stop: 48589, Start Num: 46
Candidate Starts for Lorenzo_85:
(Start: 46 @48801 has 120 MA's), (65, 48732), (71, 48684), (72, 48678), (75, 48624), (77, 48615),

Gene: Luchador_85 Start: 48225, Stop: 47965, Start Num: 26
Candidate Starts for Luchador_85:
(Start: 26 @48225 has 70 MA's), (36, 48201), (45, 48162), (61, 48108),

Gene: Lunsford_85 Start: 48796, Stop: 48584, Start Num: 46
Candidate Starts for Lunsford_85:
(Start: 46 @48796 has 120 MA's), (65, 48727), (71, 48679), (72, 48673), (75, 48619), (77, 48610),

Gene: Maminiaina_89 Start: 49117, Stop: 48866, Start Num: 29
Candidate Starts for Maminiaina_89:
(Start: 29 @49117 has 3 MA's), (35, 49096), (44, 49060), (74, 48898),

Gene: Maverick_84 Start: 48800, Stop: 48588, Start Num: 46
Candidate Starts for Maverick_84:
(Start: 46 @48800 has 120 MA's), (65, 48731), (71, 48683), (72, 48677), (75, 48623), (77, 48614),

Gene: Maxo_87 Start: 48806, Stop: 48594, Start Num: 46
Candidate Starts for Maxo_87:
(Start: 46 @48806 has 120 MA's), (65, 48737), (71, 48689), (72, 48683), (75, 48629), (77, 48620),

Gene: Mazhar510_85 Start: 48801, Stop: 48589, Start Num: 46
Candidate Starts for Mazhar510_85:
(Start: 46 @48801 has 120 MA's), (65, 48732), (71, 48684), (72, 48678), (75, 48624), (77, 48615),

Gene: Medusa_84 Start: 48816, Stop: 48604, Start Num: 46
Candidate Starts for Medusa_84:
(Start: 46 @48816 has 120 MA's), (65, 48747), (71, 48699), (72, 48693), (75, 48639), (77, 48630),

Gene: MeeZee_84 Start: 48797, Stop: 48585, Start Num: 46
Candidate Starts for MeeZee_84:
(Start: 46 @48797 has 120 MA's), (65, 48728), (71, 48680), (72, 48674), (75, 48620), (77, 48611),

Gene: Melvin_87 Start: 48798, Stop: 48586, Start Num: 46
Candidate Starts for Melvin_87:
(Start: 46 @48798 has 120 MA's), (65, 48729), (71, 48681), (72, 48675), (75, 48621), (77, 48612),

Gene: Millski_84 Start: 48804, Stop: 48592, Start Num: 46
Candidate Starts for Millski_84:
(Start: 46 @48804 has 120 MA's), (65, 48735), (71, 48687), (72, 48681), (75, 48627), (77, 48618),

Gene: Miramae_85 Start: 48719, Stop: 48507, Start Num: 46
Candidate Starts for Miramae_85:
(Start: 46 @48719 has 120 MA's), (65, 48650), (68, 48635), (71, 48602), (72, 48596), (75, 48542), (77, 48533),

Gene: Morrow_87 Start: 48843, Stop: 48631, Start Num: 46
Candidate Starts for Morrow_87:
(Start: 46 @48843 has 120 MA's), (65, 48774), (71, 48726), (72, 48720), (75, 48666), (77, 48657),

Gene: Mundrea_83 Start: 48681, Stop: 48469, Start Num: 46
Candidate Starts for Mundrea_83:
(Start: 46 @48681 has 120 MA's), (65, 48612), (71, 48564), (72, 48558), (75, 48504), (77, 48495),

Gene: Myxus_90 Start: 49196, Stop: 48951, Start Num: 26
Candidate Starts for Myxus_90:
(Start: 22 @49223 has 5 MA's), (Start: 26 @49196 has 70 MA's), (38, 49160), (44, 49133),

Gene: Nebs_86 Start: 48843, Stop: 48631, Start Num: 46
Candidate Starts for Nebs_86:
(Start: 46 @48843 has 120 MA's), (65, 48774), (71, 48726), (72, 48720), (75, 48666), (77, 48657),

Gene: Nemo27_84 Start: 48799, Stop: 48587, Start Num: 46
Candidate Starts for Nemo27_84:
(Start: 46 @48799 has 120 MA's), (65, 48730), (71, 48682), (72, 48676), (75, 48622), (77, 48613),

Gene: NicoleTera_85 Start: 48705, Stop: 48442, Start Num: 26
Candidate Starts for NicoleTera_85:
(13, 48834), (Start: 24 @48720 has 11 MA's), (Start: 26 @48705 has 70 MA's), (37, 48666), (43, 48636), (45, 48627),

Gene: Noelle_84 Start: 48915, Stop: 48700, Start Num: 46
Candidate Starts for Noelle_84:
(Start: 46 @48915 has 120 MA's), (51, 48903), (67, 48828), (71, 48789), (77, 48720), (78, 48708),

Gene: NorthStar_82 Start: 48803, Stop: 48591, Start Num: 46
Candidate Starts for NorthStar_82:
(Start: 46 @48803 has 120 MA's), (65, 48734), (71, 48686), (72, 48680), (75, 48626), (77, 48617),

Gene: NotAPhaseMom_84 Start: 48804, Stop: 48592, Start Num: 46
Candidate Starts for NotAPhaseMom_84:
(Start: 46 @48804 has 120 MA's), (65, 48735), (71, 48687), (72, 48681), (75, 48627), (77, 48618),

Gene: NothingSpecial_81 Start: 48512, Stop: 48231, Start Num: 26
Candidate Starts for NothingSpecial_81:
(7, 48719), (Start: 26 @48512 has 70 MA's), (39, 48473), (40, 48467), (Start: 46 @48443 has 120 MA's), (56, 48395), (70, 48332),

Gene: Nyxis_84 Start: 48688, Stop: 48476, Start Num: 46
Candidate Starts for Nyxis_84:
(Start: 46 @48688 has 120 MA's), (65, 48619), (71, 48571), (72, 48565), (75, 48511), (77, 48502),

Gene: OKaNui_84 Start: 48854, Stop: 48642, Start Num: 46
Candidate Starts for OKaNui_84:
(Start: 46 @48854 has 120 MA's), (65, 48785), (71, 48737), (72, 48731), (75, 48677), (77, 48668),

Gene: Obama12_86 Start: 49227, Stop: 49015, Start Num: 46
Candidate Starts for Obama12_86:
(Start: 46 @49227 has 120 MA's), (65, 49158), (71, 49110), (72, 49104), (75, 49050), (77, 49041),

Gene: Odin_85 Start: 48071, Stop: 47814, Start Num: 24
Candidate Starts for Odin_85:
(Start: 24 @48071 has 11 MA's), (Start: 26 @48056 has 70 MA's), (61, 47957),

Gene: Ohfah_86 Start: 48843, Stop: 48631, Start Num: 46
Candidate Starts for Ohfah_86:
(Start: 46 @48843 has 120 MA's), (65, 48774), (71, 48726), (72, 48720), (75, 48666), (77, 48657),

Gene: Onglai_88 Start: 47351, Stop: 47097, Start Num: 26
Candidate Starts for Onglai_88:

(Start: 22 @47378 has 5 MA's), (Start: 26 @47351 has 70 MA's), (44, 47288), (58, 47240), (66, 47219), (67, 47213), (72, 47168),

Gene: PackMan_85 Start: 47110, Stop: 46865, Start Num: 26

Candidate Starts for PackMan_85:

(Start: 22 @47137 has 5 MA's), (Start: 26 @47110 has 70 MA's), (38, 47074), (44, 47047),

Gene: Palestino_84 Start: 48800, Stop: 48588, Start Num: 46

Candidate Starts for Palestino_84:

(Start: 46 @48800 has 120 MA's), (65, 48731), (71, 48683), (72, 48677), (75, 48623), (77, 48614),

Gene: Peaches_83 Start: 48808, Stop: 48596, Start Num: 46

Candidate Starts for Peaches_83:

(Start: 46 @48808 has 120 MA's), (65, 48739), (71, 48691), (72, 48685), (75, 48631), (77, 48622),

Gene: PenguinLover67_60 Start: 56278, Stop: 55991, Start Num: 20

Candidate Starts for PenguinLover67_60:

(Start: 20 @56278 has 1 MA's), (69, 56119), (71, 56089), (77, 56017),

Gene: PeterPeter_85 Start: 48797, Stop: 48585, Start Num: 46

Candidate Starts for PeterPeter_85:

(Start: 46 @48797 has 120 MA's), (56, 48755), (65, 48728), (71, 48680), (72, 48674), (75, 48620), (77, 48611),

Gene: Ph8s_87 Start: 47838, Stop: 47596, Start Num: 26

Candidate Starts for Ph8s_87:

(Start: 24 @47853 has 11 MA's), (Start: 26 @47838 has 70 MA's), (54, 47760), (61, 47739),

Gene: Phacado_85 Start: 48799, Stop: 48587, Start Num: 46

Candidate Starts for Phacado_85:

(Start: 46 @48799 has 120 MA's), (65, 48730), (71, 48682), (72, 48676), (75, 48622), (77, 48613),

Gene: Phaded_80 Start: 49118, Stop: 48867, Start Num: 42

Candidate Starts for Phaded_80:

(3, 49490), (21, 49211), (Start: 42 @49118 has 6 MA's), (77, 48887),

Gene: Phaeder_90 Start: 49071, Stop: 48826, Start Num: 26

Candidate Starts for Phaeder_90:

(Start: 22 @49098 has 5 MA's), (Start: 26 @49071 has 70 MA's), (38, 49035), (44, 49008),

Gene: Phelipe_85 Start: 48764, Stop: 48552, Start Num: 46

Candidate Starts for Phelipe_85:

(Start: 46 @48764 has 120 MA's), (65, 48695), (71, 48647), (72, 48641), (75, 48587), (77, 48578),

Gene: Phighter1804_85 Start: 48864, Stop: 48652, Start Num: 46

Candidate Starts for Phighter1804_85:

(Start: 46 @48864 has 120 MA's), (56, 48822), (65, 48795), (71, 48747), (72, 48741), (75, 48687), (77, 48678),

Gene: Phonnegut_90 Start: 49083, Stop: 48838, Start Num: 26

Candidate Starts for Phonnegut_90:

(Start: 22 @49110 has 5 MA's), (Start: 26 @49083 has 70 MA's), (38, 49047), (44, 49020),

Gene: Phontbonne_85 Start: 48704, Stop: 48492, Start Num: 46
Candidate Starts for Phontbonne_85:
(Start: 46 @48704 has 120 MA's), (65, 48635), (71, 48587), (72, 48581), (75, 48527), (77, 48518),

Gene: Pioneer_90 Start: 49083, Stop: 48838, Start Num: 26
Candidate Starts for Pioneer_90:
(Start: 22 @49110 has 5 MA's), (Start: 26 @49083 has 70 MA's), (38, 49047), (44, 49020),

Gene: Pipcraft_81 Start: 48804, Stop: 48592, Start Num: 46
Candidate Starts for Pipcraft_81:
(Start: 46 @48804 has 120 MA's), (65, 48735), (71, 48687), (72, 48681), (75, 48627), (77, 48618),

Gene: Polymorphads_86 Start: 48824, Stop: 48612, Start Num: 46
Candidate Starts for Polymorphads_86:
(Start: 46 @48824 has 120 MA's), (65, 48755), (71, 48707), (72, 48701), (75, 48647), (77, 48638),

Gene: Power_86 Start: 49167, Stop: 48871, Start Num: 26
Candidate Starts for Power_86:
(10, 49311), (Start: 24 @49182 has 11 MA's), (Start: 26 @49167 has 70 MA's), (43, 49098), (55, 49053), (67, 49008), (77, 48900),

Gene: Priya_88 Start: 48855, Stop: 48610, Start Num: 26
Candidate Starts for Priya_88:
(Start: 22 @48882 has 5 MA's), (Start: 26 @48855 has 70 MA's), (38, 48819), (44, 48792),

Gene: Pukovnik_81 Start: 48588, Stop: 48337, Start Num: 42
Candidate Starts for Pukovnik_81:
(Start: 42 @48588 has 6 MA's), (50, 48561), (77, 48357),

Gene: Pumbaa_85 Start: 48748, Stop: 48536, Start Num: 46
Candidate Starts for Pumbaa_85:
(Start: 46 @48748 has 120 MA's), (56, 48706), (65, 48679), (71, 48631), (72, 48625), (75, 48571), (77, 48562),

Gene: Qobbit_88 Start: 48817, Stop: 48572, Start Num: 26
Candidate Starts for Qobbit_88:
(Start: 22 @48844 has 5 MA's), (Start: 26 @48817 has 70 MA's), (38, 48781), (44, 48754),

Gene: QueenB2_83 Start: 48257, Stop: 47961, Start Num: 26
Candidate Starts for QueenB2_83:
(10, 48401), (Start: 24 @48272 has 11 MA's), (Start: 26 @48257 has 70 MA's), (43, 48188), (55, 48143), (67, 48098), (77, 47990),

Gene: QueenBeesly_86 Start: 48964, Stop: 48668, Start Num: 26
Candidate Starts for QueenBeesly_86:
(Start: 24 @48979 has 11 MA's), (Start: 26 @48964 has 70 MA's), (43, 48895), (55, 48850), (67, 48805), (77, 48697),

Gene: Rahalelujah_89 Start: 48618, Stop: 48364, Start Num: 26
Candidate Starts for Rahalelujah_89:
(Start: 22 @48642 has 5 MA's), (Start: 26 @48618 has 70 MA's), (34, 48597), (44, 48555), (74, 48396),

Gene: Refuge_88 Start: 50832, Stop: 50584, Start Num: 29

Candidate Starts for Refuge_88:

(Start: 29 @50832 has 3 MA's), (44, 50775), (74, 50616),

Gene: Relief_84 Start: 48800, Stop: 48588, Start Num: 46

Candidate Starts for Relief_84:

(Start: 46 @48800 has 120 MA's), (56, 48758), (65, 48731), (71, 48683), (72, 48677), (75, 48623), (77, 48614),

Gene: Retro23_86 Start: 48647, Stop: 48384, Start Num: 26

Candidate Starts for Retro23_86:

(14, 48743), (Start: 24 @48662 has 11 MA's), (Start: 26 @48647 has 70 MA's), (38, 48602), (43, 48578),

Gene: Rinkes_60 Start: 56279, Stop: 55929, Start Num: 19

Candidate Starts for Rinkes_60:

(Start: 19 @56279 has 3 MA's), (Start: 46 @56165 has 120 MA's), (48, 56159), (49, 56153), (72, 56018), (78, 55943), (79, 55940),

Gene: Romney_84 Start: 48800, Stop: 48588, Start Num: 46

Candidate Starts for Romney_84:

(Start: 46 @48800 has 120 MA's), (56, 48758), (65, 48731), (71, 48683), (72, 48677), (75, 48623), (77, 48614),

Gene: Roosevelt_83 Start: 48805, Stop: 48593, Start Num: 46

Candidate Starts for Roosevelt_83:

(Start: 46 @48805 has 120 MA's), (65, 48736), (71, 48688), (72, 48682), (75, 48628), (77, 48619),

Gene: Rosa24_81 Start: 48831, Stop: 48619, Start Num: 46

Candidate Starts for Rosa24_81:

(Start: 46 @48831 has 120 MA's), (65, 48762), (71, 48714), (72, 48708), (75, 48654), (77, 48645),

Gene: Ruin_85 Start: 48796, Stop: 48584, Start Num: 46

Candidate Starts for Ruin_85:

(Start: 46 @48796 has 120 MA's), (65, 48727), (71, 48679), (72, 48673), (75, 48619), (77, 48610),

Gene: RyeScarlet_91 Start: 49069, Stop: 48815, Start Num: 26

Candidate Starts for RyeScarlet_91:

(Start: 22 @49096 has 5 MA's), (Start: 26 @49069 has 70 MA's), (44, 49006), (58, 48958), (66, 48937), (67, 48931), (72, 48886),

Gene: Sabertooth_85 Start: 48808, Stop: 48596, Start Num: 46

Candidate Starts for Sabertooth_85:

(Start: 46 @48808 has 120 MA's), (65, 48739), (71, 48691), (72, 48685), (75, 48631), (77, 48622),

Gene: Sachima_86 Start: 49098, Stop: 48853, Start Num: 26

Candidate Starts for Sachima_86:

(Start: 22 @49125 has 5 MA's), (Start: 26 @49098 has 70 MA's), (38, 49062), (44, 49035),

Gene: Scamp_85 Start: 48805, Stop: 48593, Start Num: 46

Candidate Starts for Scamp_85:

(Start: 46 @48805 has 120 MA's), (65, 48736), (71, 48688), (72, 48682), (75, 48628), (77, 48619),

Gene: Scherzo_88 Start: 49115, Stop: 48870, Start Num: 26

Candidate Starts for Scherzo_88:

(Start: 22 @49142 has 5 MA's), (Start: 26 @49115 has 70 MA's), (38, 49079), (44, 49052),

Gene: SemperFi_86 Start: 48867, Stop: 48556, Start Num: 24

Candidate Starts for SemperFi_86:

(Start: 24 @48867 has 11 MA's), (Start: 26 @48852 has 70 MA's), (43, 48783), (55, 48738), (67, 48693), (77, 48585),

Gene: SenorClean_80 Start: 48803, Stop: 48591, Start Num: 46

Candidate Starts for SenorClean_80:

(Start: 46 @48803 has 120 MA's), (65, 48734), (71, 48686), (72, 48680), (75, 48626), (77, 48617),

Gene: Shaka_83 Start: 48801, Stop: 48589, Start Num: 46

Candidate Starts for Shaka_83:

(Start: 46 @48801 has 120 MA's), (65, 48732), (71, 48684), (72, 48678), (75, 48624), (77, 48615),

Gene: SheaKeira_85 Start: 48361, Stop: 48110, Start Num: 26

Candidate Starts for SheaKeira_85:

(Start: 26 @48361 has 70 MA's), (35, 48334), (44, 48298), (72, 48181),

Gene: SheldonCooper_85 Start: 49241, Stop: 49029, Start Num: 46

Candidate Starts for SheldonCooper_85:

(Start: 46 @49241 has 120 MA's), (56, 49199), (65, 49172), (71, 49124), (72, 49118), (75, 49064), (77, 49055),

Gene: Shygu2_83 Start: 48747, Stop: 48535, Start Num: 46

Candidate Starts for Shygu2_83:

(Start: 33 @48783 has 1 MA's), (Start: 46 @48747 has 120 MA's), (65, 48678), (71, 48630), (72, 48624), (75, 48570), (77, 48561),

Gene: Skipitt_84 Start: 48797, Stop: 48585, Start Num: 46

Candidate Starts for Skipitt_84:

(Start: 46 @48797 has 120 MA's), (56, 48755), (65, 48728), (71, 48680), (72, 48674), (75, 48620), (77, 48611),

Gene: Smeagan_89 Start: 49397, Stop: 49101, Start Num: 26

Candidate Starts for Smeagan_89:

(9, 49547), (Start: 24 @49412 has 11 MA's), (Start: 26 @49397 has 70 MA's), (43, 49328), (55, 49283), (69, 49229),

Gene: SnapTap_86 Start: 48823, Stop: 48527, Start Num: 26

Candidate Starts for SnapTap_86:

(10, 48967), (Start: 24 @48838 has 11 MA's), (Start: 26 @48823 has 70 MA's), (43, 48754), (55, 48709), (67, 48664), (77, 48556),

Gene: Sparxx_86 Start: 48799, Stop: 48587, Start Num: 46

Candidate Starts for Sparxx_86:

(Start: 46 @48799 has 120 MA's), (56, 48757), (65, 48730), (71, 48682), (72, 48676), (75, 48622), (77, 48613),

Gene: Spino_84 Start: 48803, Stop: 48591, Start Num: 46

Candidate Starts for Spino_84:

(Start: 46 @48803 has 120 MA's), (56, 48761), (65, 48734), (71, 48686), (72, 48680), (75, 48626), (77, 48617),

Gene: Spouty_88 Start: 48854, Stop: 48609, Start Num: 26

Candidate Starts for Spouty_88:

(Start: 22 @48881 has 5 MA's), (Start: 26 @48854 has 70 MA's), (38, 48818), (44, 48791),

Gene: Stasia_82 Start: 48786, Stop: 48571, Start Num: 46

Candidate Starts for Stasia_82:

(31, 48828), (Start: 46 @48786 has 120 MA's), (57, 48732), (67, 48702), (71, 48663), (72, 48657), (77, 48594), (78, 48582),

Gene: Steamy_85 Start: 49811, Stop: 49554, Start Num: 26

Candidate Starts for Steamy_85:

(Start: 26 @49811 has 70 MA's), (44, 49751), (72, 49625),

Gene: Stink_85 Start: 49027, Stop: 48815, Start Num: 46

Candidate Starts for Stink_85:

(Start: 46 @49027 has 120 MA's), (65, 48958), (68, 48943), (71, 48910), (72, 48904), (75, 48850), (77, 48841),

Gene: Sunhee_87 Start: 46599, Stop: 46327, Start Num: 26

Candidate Starts for Sunhee_87:

(Start: 24 @46614 has 11 MA's), (Start: 26 @46599 has 70 MA's), (40, 46557), (45, 46536), (47, 46530), (56, 46488), (61, 46470),

Gene: Superchunk_86 Start: 47583, Stop: 47341, Start Num: 26

Candidate Starts for Superchunk_86:

(Start: 24 @47598 has 11 MA's), (Start: 26 @47583 has 70 MA's), (61, 47484),

Gene: SweetiePie_86 Start: 48971, Stop: 48660, Start Num: 24

Candidate Starts for SweetiePie_86:

(10, 49100), (Start: 24 @48971 has 11 MA's), (Start: 26 @48956 has 70 MA's), (43, 48887), (55, 48842), (67, 48797), (77, 48689),

Gene: SwirlSquare_89 Start: 47313, Stop: 47071, Start Num: 26

Candidate Starts for SwirlSquare_89:

(Start: 24 @47328 has 11 MA's), (Start: 26 @47313 has 70 MA's), (45, 47259), (54, 47235), (61, 47214), (71, 47148),

Gene: Taquarus_84 Start: 48812, Stop: 48600, Start Num: 46

Candidate Starts for Taquarus_84:

(Start: 46 @48812 has 120 MA's), (65, 48743), (71, 48695), (72, 48689), (75, 48635), (77, 48626),

Gene: TarsusIV_85 Start: 48814, Stop: 48545, Start Num: 26

Candidate Starts for TarsusIV_85:

(8, 48976), (Start: 24 @48829 has 11 MA's), (Start: 26 @48814 has 70 MA's), (37, 48775), (43, 48745),

Gene: Thanksgivukkah_84 Start: 48801, Stop: 48589, Start Num: 46

Candidate Starts for Thanksgivukkah_84:

(Start: 46 @48801 has 120 MA's), (65, 48732), (71, 48684), (72, 48678), (75, 48624), (77, 48615),

Gene: TinaFeyge_83 Start: 48798, Stop: 48586, Start Num: 46

Candidate Starts for TinaFeyge_83:

(Start: 46 @48798 has 120 MA's), (65, 48729), (71, 48681), (72, 48675), (75, 48621), (77, 48612),

Gene: Tinybot_84 Start: 48830, Stop: 48618, Start Num: 46

Candidate Starts for Tinybot_84:

(Start: 46 @48830 has 120 MA's), (65, 48761), (71, 48713), (72, 48707), (75, 48653), (77, 48644),

Gene: TiroTheta9_84 Start: 48797, Stop: 48585, Start Num: 46

Candidate Starts for TiroTheta9_84:

(Start: 46 @48797 has 120 MA's), (65, 48728), (71, 48680), (72, 48674), (75, 48620), (77, 48611),

Gene: Toaka_88 Start: 48957, Stop: 48709, Start Num: 26

Candidate Starts for Toaka_88:

(18, 49023), (Start: 22 @48981 has 5 MA's), (23, 48969), (Start: 26 @48957 has 70 MA's), (38, 48921), (44, 48894), (57, 48846), (62, 48837), (72, 48780),

Gene: Tristan_82 Start: 48950, Stop: 48699, Start Num: 42

Candidate Starts for Tristan_82:

(3, 49322), (21, 49043), (Start: 42 @48950 has 6 MA's), (77, 48719),

Gene: Trixie_86 Start: 49391, Stop: 49113, Start Num: 24

Candidate Starts for Trixie_86:

(6, 49589), (Start: 24 @49391 has 11 MA's), (Start: 26 @49376 has 70 MA's), (32, 49361), (44, 49313), (59, 49253), (63, 49244), (64, 49241), (72, 49181),

Gene: Trooper_86 Start: 48532, Stop: 48263, Start Num: 26

Candidate Starts for Trooper_86:

(5, 48766), (12, 48667), (Start: 24 @48547 has 11 MA's), (Start: 26 @48532 has 70 MA's), (38, 48487), (43, 48463),

Gene: TroyPia_86 Start: 48838, Stop: 48626, Start Num: 46

Candidate Starts for TroyPia_86:

(Start: 46 @48838 has 120 MA's), (65, 48769), (71, 48721), (72, 48715), (75, 48661), (77, 48652),

Gene: Tubs_90 Start: 49071, Stop: 48826, Start Num: 26

Candidate Starts for Tubs_90:

(Start: 22 @49098 has 5 MA's), (Start: 26 @49071 has 70 MA's), (38, 49035), (44, 49008),

Gene: Turbido_87 Start: 49118, Stop: 48822, Start Num: 26

Candidate Starts for Turbido_87:

(9, 49268), (Start: 24 @49133 has 11 MA's), (Start: 26 @49118 has 70 MA's), (43, 49049), (55, 49004), (67, 48959), (69, 48950),

Gene: TygerBlood_85 Start: 48803, Stop: 48591, Start Num: 46

Candidate Starts for TygerBlood_85:

(Start: 46 @48803 has 120 MA's), (65, 48734), (71, 48686), (72, 48680), (75, 48626), (77, 48617),

Gene: Ugenie5_77 Start: 46559, Stop: 46314, Start Num: 26

Candidate Starts for Ugenie5_77:

(Start: 22 @46586 has 5 MA's), (Start: 26 @46559 has 70 MA's), (38, 46523), (44, 46496),

Gene: Ulysses_84 Start: 48486, Stop: 48274, Start Num: 46

Candidate Starts for Ulysses_84:

(Start: 46 @48486 has 120 MA's), (65, 48417), (71, 48369), (72, 48363), (75, 48309), (77, 48300),

Gene: VA6_86 Start: 48761, Stop: 48450, Start Num: 24

Candidate Starts for VA6_86:

(Start: 24 @48761 has 11 MA's), (Start: 26 @48746 has 70 MA's), (38, 48701), (43, 48677), (55, 48632), (76, 48482),

Gene: Vanisoa_85 Start: 49296, Stop: 49042, Start Num: 26

Candidate Starts for Vanisoa_85:

(18, 49362), (Start: 22 @49320 has 5 MA's), (23, 49308), (Start: 26 @49296 has 70 MA's), (34, 49275), (44, 49233), (58, 49185), (67, 49158), (72, 49113),

Gene: Wander_85 Start: 48797, Stop: 48585, Start Num: 46

Candidate Starts for Wander_85:

(Start: 46 @48797 has 120 MA's), (65, 48728), (71, 48680), (72, 48674), (75, 48620), (77, 48611),

Gene: Whabigail7_85 Start: 49116, Stop: 48820, Start Num: 26

Candidate Starts for Whabigail7_85:

(9, 49266), (Start: 24 @49131 has 11 MA's), (Start: 26 @49116 has 70 MA's), (43, 49047), (55, 49002), (67, 48957), (69, 48948),

Gene: Wilbur_85 Start: 48800, Stop: 48588, Start Num: 46

Candidate Starts for Wilbur_85:

(Start: 46 @48800 has 120 MA's), (56, 48758), (65, 48731), (71, 48683), (72, 48677), (75, 48623), (77, 48614),

Gene: Xena_81 Start: 48622, Stop: 48410, Start Num: 46

Candidate Starts for Xena_81:

(Start: 33 @48658 has 1 MA's), (Start: 46 @48622 has 120 MA's), (65, 48553), (71, 48505), (72, 48499), (75, 48445), (77, 48436),

Gene: XianYue_85 Start: 48882, Stop: 48607, Start Num: 26

Candidate Starts for XianYue_85:

(14, 48981), (Start: 24 @48897 has 11 MA's), (Start: 26 @48882 has 70 MA's), (43, 48837), (55, 48789),

Gene: Yecey3_91 Start: 48834, Stop: 48583, Start Num: 25

Candidate Starts for Yecey3_91:

(Start: 25 @48834 has 1 MA's), (44, 48771), (74, 48615),

Gene: YoSam321_85 Start: 48798, Stop: 48586, Start Num: 46

Candidate Starts for YoSam321_85:

(Start: 46 @48798 has 120 MA's), (65, 48729), (71, 48681), (72, 48675), (75, 48621), (77, 48612),

Gene: Zenteno07_70 Start: 57108, Stop: 56800, Start Num: 19

Candidate Starts for Zenteno07_70:

(Start: 19 @57108 has 3 MA's), (53, 56994),

Gene: Zimmer_87 Start: 50279, Stop: 50019, Start Num: 28

Candidate Starts for Zimmer_87:

(Start: 22 @50306 has 5 MA's), (Start: 28 @50279 has 2 MA's), (44, 50222), (63, 50153), (64, 50150), (67, 50135), (72, 50090),