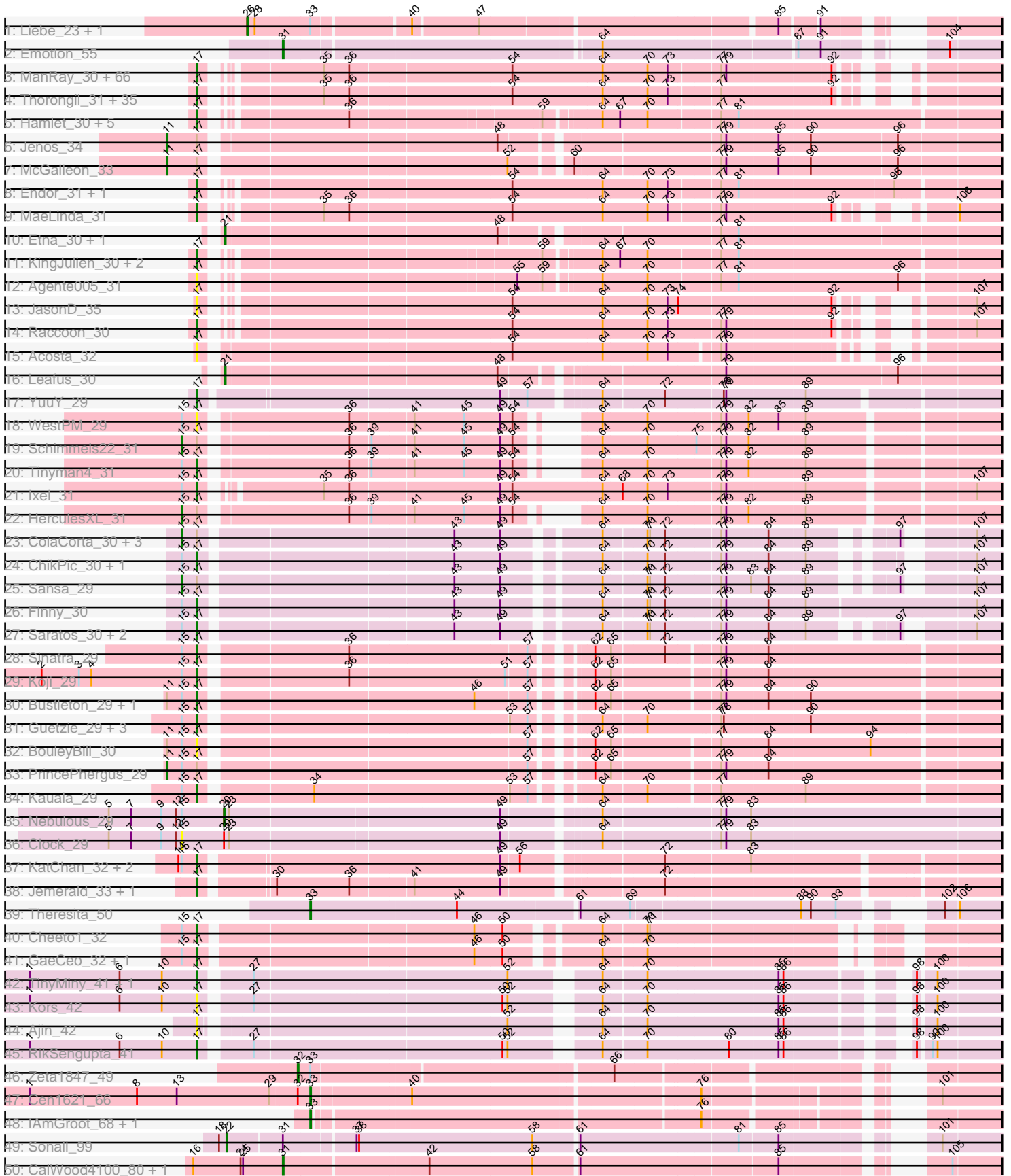
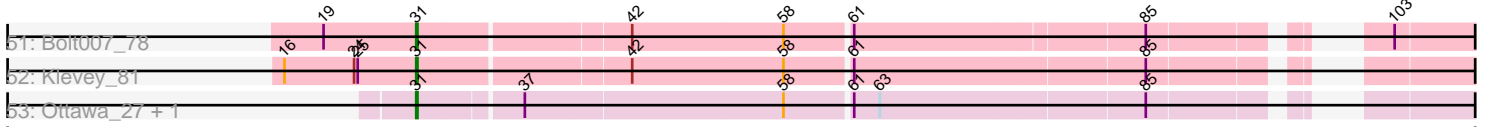


Pham 156147



Pham 156147



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 156147 Report

This analysis was run 04/12/24 on database version 558.

Pham number 156147 has 182 members, 26 are drafts.

Phages represented in each track:

- Track 1 : Liebe_23, Maureen_23
- Track 2 : Emotion_55
- Track 3 : ManRay_30, SonOfLevi_30, Strathdee_31, Asta_32, KannH_30, Nattles_30, TeddyBear_30, Etta_30, BeautPeep30_31, BonesMcCoy_31, Phiderman_32, Christoph_30, Erla_30, MrWorldwide_31, Inventa_31, Phireproof_31, Kale_30, Espinosa_30, MillyPhilly_31, HankSprout_32, StirfryIV_31, Jerbirus_31, Kurt1_31, Robinson_31, AranulaLuti_30, BigRedClifford_31, TatarkaPM_31, TinSulphur_31, Janus167_30, Gershwin_30, Clancy_30, ParleG_31, Dothraki_31, Aubergine_30, Pherferi_31, Bonino_30, Gargoyle_31, Rog141_31, Rappheph_31, HanSolo_30, Shee_31, Gubbabump_30, Blage_31, Calix_30, Winzigespinne_30, Stanktossa_31, Tenda_30, NickSell_32, Baines_30, Chamuel_30, Martin_32, Raptor_31, Convict_31, Chako_30, Duocatuli_30, Pocket_30, Byron23_31, Gelo_30, Klimt_30, Ioannes_31, PhredFlintston_31, Thompsons_31, Knox_31, Oats_30, JasperRussell_30, Garey24_30, Figueroism_31
- Track 4 : Thorongil_31, Ludgate_31, Benjalauren_31, Velene_31, Oxtober96_31, Alyxandracam_31, Ilzat_30, Antoinette_31, HungryHenry_31, JeriBeth_31, Phriends_31, AxiPup_31, Teagan_31, Superfresh_31, Nagem_31, ShaiHulud_31, PuppyEggo_31, Vispistious_31, Peep_31, Delphidian_32, AlexAdler_31, Papafritta_30, OldNelly_31, Bandik_31, Dave_31, Riyhil_31, Sedgewig_30, SJay_31, Den3_31, WildNOut_31, StingRay_30, Lovelyunicorn_31, Greys_31, Zada_31, SoilGremlin_31, Renzie_31
- Track 5 : Hamlet_30, Peppino_30, Redfield_30, Balsa_30, BeeBee8_31, Schnapsidee_30
- Track 6 : Jenos_34
- Track 7 : McGalleon_33
- Track 8 : Endor_31, MonChoix_29
- Track 9 : MaeLinda_31
- Track 10 : Etna_30, FarmerDoug_30
- Track 11 : KingJulien_30, Stormbreaker8_30, GardenB_30
- Track 12 : Agente005_31
- Track 13 : JasonD_35
- Track 14 : Raccoon_30
- Track 15 : Acosta_32
- Track 16 : Leafus_30
- Track 17 : YuuY_29
- Track 18 : WestPM_29
- Track 19 : Schimmels22_31

- Track 20 : Tinyman4_31
- Track 21 : Ixel_31
- Track 22 : HerculesXL_31
- Track 23 : ColaCorta_30, Andromedas_30, Eleri_30, Glamour_29
- Track 24 : ChikPic_30, MCubed_30
- Track 25 : Sansa_29
- Track 26 : Finny_30
- Track 27 : Saratos_30, Zenitsu_30, Shamu_30
- Track 28 : Sinatra_29
- Track 29 : Koji_29
- Track 30 : Bustleton_29, Pherbot_29
- Track 31 : Guetzie_29, Lucky3_29, SirVictor_29, Golden_29
- Track 32 : BouleyBill_30
- Track 33 : PrincePhergus_29
- Track 34 : Kauala_29
- Track 35 : Nebulous_29
- Track 36 : Clock_29
- Track 37 : KatChan_32, Luna18_32, Chepli_32
- Track 38 : Jemerald_33, Juicer_33
- Track 39 : Theresita_50
- Track 40 : Cheeto1_32
- Track 41 : GaeCeo_32, ChickenKing_31
- Track 42 : TinyMiny_41, Sparcetus_41
- Track 43 : Kors_42
- Track 44 : Ajin_42
- Track 45 : RikSengupta_41
- Track 46 : Zeta1847_49
- Track 47 : Cen1621_66
- Track 48 : IAmGroot_68, GardenState_69
- Track 49 : Sonali_99
- Track 50 : CalWood4100_80, Lilmac1015_80
- Track 51 : Bolt007_78
- Track 52 : Klevey_81
- Track 53 : Ottawa_27, Kharcho_27

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

The start number called the most often in the published annotations is 17, it was called in 129 of the 156 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Acosta_32, Agente005_31, Ajin_42, AlexAdler_31, Alyxandracam_31, Antoinette_31, AranulaLuti_30, Asta_32, Aubergine_30, AxiPup_31, Baines_30, Balsa_30, Bandik_31, BeautPeep30_31, BeeBee8_31, Benjalauren_31, BigRedClifford_31, Blage_31, BonesMcCoy_31, Bonino_30, BouleyBill_30, Bustleton_29, Byron23_31, Calix_30, Chako_30, Chamuel_30, Cheeto1_32, Chepli_32, ChickenKing_31, ChikPic_30, Christoph_30, Clancy_30, Convict_31, Dave_31, Delphidian_32, Den3_31, Dothraki_31, Duocatuli_30, Endor_31, Erla_30, Espinosa_30, Etta_30, Figueroism_31, Finny_30, GaeCeo_32, GardenB_30, Garey24_30, Gargoyle_31, Gelo_30, Gershwin_30, Golden_29, Greys_31,

Gubbabump_30, Guetzie_29, Hamlet_30, HanSolo_30, HankSprout_32, HungryHenry_31, Ilzat_30, Inventa_31, Ioannes_31, Ixel_31, Janus167_30, JasonD_35, JasperRussell_30, Jemerald_33, Jerbirus_31, JeriBeth_31, Juicer_33, Kale_30, KannH_30, KatChan_32, Kauala_29, KingJulien_30, Klimt_30, Knox_31, Koji_29, Kors_42, Kurt1_31, Lovelyunicorn_31, Lucky3_29, Ludgate_31, Luna18_32, MCubed_30, MaeLinda_31, ManRay_30, Martin_32, MillyPhilly_31, MonChoix_29, MrWorldwide_31, Nagem_31, Nattles_30, NickSell_32, Oats_30, OldNelly_31, Oxtober96_31, Papafritta_30, ParleG_31, Peep_31, Peppino_30, Pherbot_29, Pherferi_31, Phiderman_32, Phireproof_31, PhredFlintston_31, Phriends_31, Pocket_30, PuppyEggo_31, Raccoon_30, Rapphep_31, Raptor_31, Redfield_30, Renzie_31, RikSengupta_41, Rihhil_31, Robinson_31, Rog141_31, SJay_31, Saratos_30, Schnapsidee_30, Sedgewig_30, ShaiHulud_31, Shamu_30, Shee_31, Sinatra_29, SirVictor_29, SoilGremlin_31, SonOfLevi_30, Sparcetus_41, Stanktossa_31, StingRay_30, StirfryIV_31, Stormbreaker8_30, Strathdee_31, Superfresh_31, TatarkaPM_31, Teagan_31, TeddyBear_30, Tenda_30, Thompsone_31, Thorongil_31, TinSulphur_31, TinyMiny_41, Tinyman4_31, Velene_31, Vispistious_31, WestPM_29, WildNOut_31, Winzigespinne_30, YuuY_29, Zada_31, Zenitsu_30,

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

- Andromedas_30, ColaCorta_30, Eleri_30, Glamour_29, HerculesXL_31, Jenos_34, McGalleon_33, PrincePhergus_29, Sansa_29, Schimmels22_31,

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

- Bolt007_78, CalWood4100_80, Cen1621_66, Clock_29, Emotion_55, Etna_30, FarmerDoug_30, GardenState_69, IAmGroot_68, Kharcho_27, Klevey_81, Leafus_30, Liebe_23, Lilmac1015_80, Maureen_23, Nebulous_29, Ottawa_27, Sonali_99, Theresita_50, Zeta1847_49,

Summary by start number:

Start 11:

- Found in 6 of 182 (3.3%) of genes in pham
- Manual Annotations of this start: 3 of 156
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Jenos_34 (EA1), McGalleon_33 (EA1), PrincePhergus_29 (EA4),

Start 15:

- Found in 35 of 182 (19.2%) of genes in pham
- Manual Annotations of this start: 7 of 156
- Called 22.9% of time when present
- Phage (with cluster) where this start called: Andromedas_30 (EA2), Clock_29 (EA5), ColaCorta_30 (EA2), Eleri_30 (EA2), Glamour_29 (EA2), HerculesXL_31 (EA11), Sansa_29 (EA2), Schimmels22_31 (EA11),

Start 17:

- Found in 162 of 182 (89.0%) of genes in pham
- Manual Annotations of this start: 129 of 156
- Called 93.8% of time when present
- Phage (with cluster) where this start called: Acosta_32 (EA1), Agente005_31 (EA1), Ajin_42 (EF), AlexAdler_31 (EA1), Alyxandracam_31 (EA1), Antoinette_31 (EA1), AranulaLuti_30 (EA1), Asta_32 (EA1), Aubergine_30 (EA1), AxiPup_31 (EA1),

Baines_30 (EA1), Balsa_30 (EA1), Bandik_31 (EA1), BeautPeep30_31 (EA1), BeeBee8_31 (EA1), Benjalauen_31 (EA1), BigRedClifford_31 (EA1), Blage_31 (EA1), BonesMcCoy_31 (EA1), Bonino_30 (EA1), BouleyBill_30 (EA4), Bustleton_29 (EA4), Byron23_31 (EA1), Calix_30 (EA1), Chako_30 (EA1), Chamuel_30 (EA1), Cheeto1_32 (EA9), Chepli_32 (EA6), ChickenKing_31 (EA9), ChikPic_30 (EA2), Christoph_30 (EA1), Clancy_30 (EA1), Convict_31 (EA1), Dave_31 (EA1), Delphidian_32 (EA1), Den3_31 (EA1), Dothraki_31 (EA1), Duocatuli_30 (EA1), Endor_31 (EA1), Erla_30 (EA1), Espinosa_30 (EA1), Etta_30 (EA1), Figueroism_31 (EA1), Finny_30 (EA2), GaeCeo_32 (EA9), GardenB_30 (EA1), Garey24_30 (EA1), Gargoyle_31 (EA1), Gelo_30 (EA1), Gershwin_30 (EA1), Golden_29 (EA4), Greys_31 (EA1), Gubbabump_30 (EA1), Guetzie_29 (EA4), Hamlet_30 (EA1), HanSolo_30 (EA1), HankSprout_32 (EA1), HungryHenry_31 (EA1), Ilzat_30 (EA1), Inventa_31 (EA1), Ioannes_31 (EA1), Ixel_31 (EA11), Janus167_30 (EA1), JasonD_35 (EA1), JasperRussell_30 (EA1), Jemerald_33 (EA6), Jerbirus_31 (EA1), JeriBeth_31 (EA1), Juicer_33 (EA6), Kale_30 (EA1), KannH_30 (EA1), KatChan_32 (EA6), Kauala_29 (EA4), KingJulien_30 (EA1), Klimt_30 (EA1), Knox_31 (EA1), Koji_29 (EA4), Kors_42 (EF), Kurt1_31 (EA1), Lovelyunicorn_31 (EA1), Lucky3_29 (EA4), Ludgate_31 (EA1), Luna18_32 (EA6), MCubed_30 (EA2), MaeLinda_31 (EA1), ManRay_30 (EA1), Martin_32 (EA1), MillyPhilly_31 (EA1), MonChoix_29 (EA1), MrWorldwide_31 (EA1), Nagem_31 (EA1), Nattles_30 (EA1), NickSell_32 (EA1), Oats_30 (EA1), OldNelly_31 (EA1), Oxtober96_31 (EA1), Papafritta_30 (EA1), ParleG_31 (EA1), Peep_31 (EA1), Peppino_30 (EA1), Pherbot_29 (EA4), Pherferi_31 (EA1), Phiderman_32 (EA1), Phireproof_31 (EA1), PhredFlintston_31 (EA1), Phriends_31 (EA1), Pocket_30 (EA1), PuppyEggo_31 (EA1), Raccoon_30 (EA1), Rapheph_31 (EA1), Raptor_31 (EA1), Redfield_30 (EA1), Renzie_31 (EA1), RikSengupta_41 (EF), Riyhil_31 (EA1), Robinson_31 (EA1), Rog141_31 (EA1), SJay_31 (EA1), Saratos_30 (EA2), Schnapsidee_30 (EA1), Sedgewig_30 (EA1), ShaiHulud_31 (EA1), Shamu_30 (EA2), Shee_31 (EA1), Sinatra_29 (EA4), SirVictor_29 (EA4), SoilGremlin_31 (EA1), SonOfLevi_30 (EA1), Sparcetus_41 (EF), Stanktossa_31 (EA1), StingRay_30 (EA1), StirfryIV_31 (EA1), Stormbreaker8_30 (EA1), Strathdee_31 (EA1), Superfresh_31 (EA1), TatarkaPM_31 (EA1), Teagan_31 (EA1), TeddyBear_30 (EA1), Tenda_30 (EA1), Thompsone_31 (EA1), Thorongil_31 (EA1), TinSulphur_31 (EA1), TinyMiny_41 (EF), Tinyman4_31 (EA11), Velene_31 (EA1), Vispistious_31 (EA1), WestPM_29 (EA11), WildNOut_31 (EA1), Winzigespinne_30 (EA1), YuuY_29 (EA10), Zada_31 (EA1), Zenitsu_30 (EA2),

Start 20:

- Found in 2 of 182 (1.1%) of genes in pham
- Manual Annotations of this start: 1 of 156
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Nebulous_29 (EA5),

Start 21:

- Found in 3 of 182 (1.6%) of genes in pham
- Manual Annotations of this start: 2 of 156
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Etna_30 (EA1), FarmerDoug_30 (EA1), Leafus_30 (EA1),

Start 22:

- Found in 1 of 182 (0.5%) of genes in pham
- Manual Annotations of this start: 1 of 156
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Sonali_99 (FG),

Start 26:

- Found in 2 of 182 (1.1%) of genes in pham
- Manual Annotations of this start: 2 of 156
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Liebe_23 (AZ2), Maureen_23 (AZ2),

Start 31:

- Found in 8 of 182 (4.4%) of genes in pham
- Manual Annotations of this start: 6 of 156
- Called 87.5% of time when present
- Phage (with cluster) where this start called: Bolt007_78 (FH), CalWood4100_80 (FH), Emotion_55 (AZ4), Kharcho_27 (FM), Klevey_81 (FH), Lilmac1015_80 (FH), Ottawa_27 (FM),

Start 32:

- Found in 2 of 182 (1.1%) of genes in pham
- Manual Annotations of this start: 1 of 156
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Zeta1847_49 (EH),

Start 33:

- Found in 7 of 182 (3.8%) of genes in pham
- Manual Annotations of this start: 4 of 156
- Called 57.1% of time when present
- Phage (with cluster) where this start called: Cen1621_66 (EH), GardenState_69 (EH), IAmGroot_68 (EH), Theresita_50 (EA7),

Summary by clusters:

There are 16 clusters represented in this pham: EA11, EH, AZ4, EF, EA10, FM, EA9, FH, FG, EA1, AZ2, EA2, EA5, EA4, EA7, EA6,

Info for manual annotations of cluster AZ2:

- Start number 26 was manually annotated 2 times for cluster AZ2.

Info for manual annotations of cluster AZ4:

- Start number 31 was manually annotated 1 time for cluster AZ4.

Info for manual annotations of cluster EA1:

- Start number 11 was manually annotated 2 times for cluster EA1.
- Start number 17 was manually annotated 100 times for cluster EA1.
- Start number 21 was manually annotated 2 times for cluster EA1.

Info for manual annotations of cluster EA10:

- Start number 17 was manually annotated 1 time for cluster EA10.

Info for manual annotations of cluster EA11:

- Start number 15 was manually annotated 2 times for cluster EA11.
- Start number 17 was manually annotated 2 times for cluster EA11.

Info for manual annotations of cluster EA2:

- Start number 15 was manually annotated 5 times for cluster EA2.
- Start number 17 was manually annotated 6 times for cluster EA2.

Info for manual annotations of cluster EA4:

- Start number 11 was manually annotated 1 time for cluster EA4.
- Start number 17 was manually annotated 9 times for cluster EA4.

Info for manual annotations of cluster EA5:

- Start number 20 was manually annotated 1 time for cluster EA5.

Info for manual annotations of cluster EA6:

- Start number 17 was manually annotated 5 times for cluster EA6.

Info for manual annotations of cluster EA7:

- Start number 33 was manually annotated 1 time for cluster EA7.

Info for manual annotations of cluster EA9:

- Start number 17 was manually annotated 3 times for cluster EA9.

Info for manual annotations of cluster EF:

- Start number 17 was manually annotated 3 times for cluster EF.

Info for manual annotations of cluster EH:

- Start number 32 was manually annotated 1 time for cluster EH.
- Start number 33 was manually annotated 3 times for cluster EH.

Info for manual annotations of cluster FG:

- Start number 22 was manually annotated 1 time for cluster FG.

Info for manual annotations of cluster FH:

- Start number 31 was manually annotated 3 times for cluster FH.

Info for manual annotations of cluster FM:

- Start number 31 was manually annotated 2 times for cluster FM.

Gene Information:

Gene: Acosta_32 Start: 22079, Stop: 21225, Start Num: 17

Candidate Starts for Acosta_32:

(Start: 17 @22079 has 129 MA's), (54, 21731), (64, 21623), (70, 21572), (73, 21548), (77, 21494), (79, 21488),

Gene: Agente005_31 Start: 22035, Stop: 21148, Start Num: 17

Candidate Starts for Agente005_31:

(Start: 17 @22035 has 129 MA's), (55, 21705), (59, 21678), (64, 21618), (70, 21564), (77, 21486), (81, 21465), (96, 21279),

Gene: Ajin_42 Start: 25676, Stop: 26536, Start Num: 17

Candidate Starts for Ajin_42:

(Start: 17 @25676 has 129 MA's), (52, 26015), (64, 26102), (70, 26150), (85, 26303), (86, 26309), (98, 26423), (100, 26441),

Gene: AlexAdler_31 Start: 21787, Stop: 20945, Start Num: 17

Candidate Starts for AlexAdler_31:

(Start: 17 @21787 has 129 MA's), (35, 21673), (36, 21643), (54, 21454), (64, 21346), (70, 21295), (73, 21271), (77, 21217), (92, 21094),

Gene: Alyxandracam_31 Start: 21796, Stop: 20954, Start Num: 17

Candidate Starts for Alyxandracam_31:

(Start: 17 @21796 has 129 MA's), (35, 21682), (36, 21652), (54, 21463), (64, 21355), (70, 21304), (73, 21280), (77, 21226), (92, 21103),

Gene: Andromedas_30 Start: 21852, Stop: 20983, Start Num: 15

Candidate Starts for Andromedas_30:

(Start: 15 @21852 has 7 MA's), (Start: 17 @21834 has 129 MA's), (43, 21549), (49, 21495), (64, 21396), (70, 21348), (71, 21345), (72, 21327), (77, 21264), (79, 21258), (84, 21210), (89, 21168), (97, 21093), (107, 21030),

Gene: Antoinette_31 Start: 21784, Stop: 20942, Start Num: 17

Candidate Starts for Antoinette_31:

(Start: 17 @21784 has 129 MA's), (35, 21670), (36, 21640), (54, 21451), (64, 21343), (70, 21292), (73, 21268), (77, 21214), (92, 21091),

Gene: AranulaLuti_30 Start: 21598, Stop: 20756, Start Num: 17

Candidate Starts for AranulaLuti_30:

(Start: 17 @21598 has 129 MA's), (35, 21484), (36, 21454), (54, 21265), (64, 21157), (70, 21106), (73, 21082), (77, 21028), (79, 21022), (92, 20905),

Gene: Asta_32 Start: 21611, Stop: 20769, Start Num: 17

Candidate Starts for Asta_32:

(Start: 17 @21611 has 129 MA's), (35, 21497), (36, 21467), (54, 21278), (64, 21170), (70, 21119), (73, 21095), (77, 21041), (79, 21035), (92, 20918),

Gene: Aubergine_30 Start: 21611, Stop: 20769, Start Num: 17

Candidate Starts for Aubergine_30:

(Start: 17 @21611 has 129 MA's), (35, 21497), (36, 21467), (54, 21278), (64, 21170), (70, 21119), (73, 21095), (77, 21041), (79, 21035), (92, 20918),

Gene: AxiPup_31 Start: 21796, Stop: 20954, Start Num: 17

Candidate Starts for AxiPup_31:

(Start: 17 @21796 has 129 MA's), (35, 21682), (36, 21652), (54, 21463), (64, 21355), (70, 21304), (73, 21280), (77, 21226), (92, 21103),

Gene: Baines_30 Start: 21598, Stop: 20756, Start Num: 17

Candidate Starts for Baines_30:

(Start: 17 @21598 has 129 MA's), (35, 21484), (36, 21454), (54, 21265), (64, 21157), (70, 21106), (73, 21082), (77, 21028), (79, 21022), (92, 20905),

Gene: Balsa_30 Start: 21873, Stop: 20986, Start Num: 17

Candidate Starts for Balsa_30:

(Start: 17 @21873 has 129 MA's), (36, 21729), (59, 21516), (64, 21456), (67, 21435), (70, 21402), (77, 21324), (81, 21303),

Gene: Bandik_31 Start: 21792, Stop: 20950, Start Num: 17

Candidate Starts for Bandik_31:

(Start: 17 @21792 has 129 MA's), (35, 21678), (36, 21648), (54, 21459), (64, 21351), (70, 21300), (73, 21276), (77, 21222), (92, 21099),

Gene: BeautPeep30_31 Start: 21798, Stop: 20956, Start Num: 17

Candidate Starts for BeautPeep30_31:

(Start: 17 @21798 has 129 MA's), (35, 21684), (36, 21654), (54, 21465), (64, 21357), (70, 21306), (73, 21282), (77, 21228), (79, 21222), (92, 21105),

Gene: BeeBee8_31 Start: 22040, Stop: 21153, Start Num: 17

Candidate Starts for BeeBee8_31:

(Start: 17 @22040 has 129 MA's), (36, 21896), (59, 21683), (64, 21623), (67, 21602), (70, 21569), (77, 21491), (81, 21470),

Gene: Benjalauren_31 Start: 21608, Stop: 20766, Start Num: 17

Candidate Starts for Benjalauren_31:

(Start: 17 @21608 has 129 MA's), (35, 21494), (36, 21464), (54, 21275), (64, 21167), (70, 21116), (73, 21092), (77, 21038), (92, 20915),

Gene: BigRedClifford_31 Start: 21796, Stop: 20954, Start Num: 17

Candidate Starts for BigRedClifford_31:

(Start: 17 @21796 has 129 MA's), (35, 21682), (36, 21652), (54, 21463), (64, 21355), (70, 21304), (73, 21280), (77, 21226), (79, 21220), (92, 21103),

Gene: Blage_31 Start: 21796, Stop: 20954, Start Num: 17

Candidate Starts for Blage_31:

(Start: 17 @21796 has 129 MA's), (35, 21682), (36, 21652), (54, 21463), (64, 21355), (70, 21304), (73, 21280), (77, 21226), (79, 21220), (92, 21103),

Gene: Bolt007_78 Start: 49680, Stop: 48901, Start Num: 31

Candidate Starts for Bolt007_78:

(19, 49755), (Start: 31 @49680 has 6 MA's), (42, 49521), (58, 49398), (61, 49347), (85, 49119), (103, 48990),

Gene: BonesMcCoy_31 Start: 21796, Stop: 20954, Start Num: 17

Candidate Starts for BonesMcCoy_31:

(Start: 17 @21796 has 129 MA's), (35, 21682), (36, 21652), (54, 21463), (64, 21355), (70, 21304), (73, 21280), (77, 21226), (79, 21220), (92, 21103),

Gene: Bonino_30 Start: 21587, Stop: 20745, Start Num: 17

Candidate Starts for Bonino_30:

(Start: 17 @21587 has 129 MA's), (35, 21473), (36, 21443), (54, 21254), (64, 21146), (70, 21095), (73, 21071), (77, 21017), (79, 21011), (92, 20894),

Gene: BouleyBill_30 Start: 21683, Stop: 20790, Start Num: 17

Candidate Starts for BouleyBill_30:

(Start: 11 @21719 has 3 MA's), (Start: 15 @21701 has 7 MA's), (Start: 17 @21683 has 129 MA's), (57, 21317), (62, 21266), (65, 21248), (77, 21131), (84, 21077), (94, 20957),

Gene: Bustleton_29 Start: 21683, Stop: 20790, Start Num: 17

Candidate Starts for Bustleton_29:

(Start: 11 @21719 has 3 MA's), (Start: 15 @21701 has 7 MA's), (Start: 17 @21683 has 129 MA's), (46, 21377), (57, 21317), (62, 21266), (65, 21248), (77, 21131), (79, 21125), (84, 21077), (90, 21029),

Gene: Byron23_31 Start: 21801, Stop: 20959, Start Num: 17

Candidate Starts for Byron23_31:

(Start: 17 @21801 has 129 MA's), (35, 21687), (36, 21657), (54, 21468), (64, 21360), (70, 21309), (73, 21285), (77, 21231), (79, 21225), (92, 21108),

Gene: CalWood4100_80 Start: 49859, Stop: 49071, Start Num: 31

Candidate Starts for CalWood4100_80:

(16, 49967), (24, 49910), (25, 49907), (Start: 31 @49859 has 6 MA's), (42, 49700), (58, 49577), (61, 49526), (85, 49295), (105, 49157),

Gene: Calix_30 Start: 21591, Stop: 20749, Start Num: 17

Candidate Starts for Calix_30:

(Start: 17 @21591 has 129 MA's), (35, 21477), (36, 21447), (54, 21258), (64, 21150), (70, 21099), (73, 21075), (77, 21021), (79, 21015), (92, 20898),

Gene: Cen1621_66 Start: 44317, Stop: 45051, Start Num: 33

Candidate Starts for Cen1621_66:

(1, 43984), (8, 44113), (13, 44161), (29, 44272), (Start: 32 @44302 has 1 MA's), (Start: 33 @44317 has 4 MA's), (40, 44425), (76, 44752), (101, 44953),

Gene: Chako_30 Start: 21598, Stop: 20756, Start Num: 17

Candidate Starts for Chako_30:

(Start: 17 @21598 has 129 MA's), (35, 21484), (36, 21454), (54, 21265), (64, 21157), (70, 21106), (73, 21082), (77, 21028), (79, 21022), (92, 20905),

Gene: Chamuel_30 Start: 21593, Stop: 20751, Start Num: 17

Candidate Starts for Chamuel_30:

(Start: 17 @21593 has 129 MA's), (35, 21479), (36, 21449), (54, 21260), (64, 21152), (70, 21101), (73, 21077), (77, 21023), (79, 21017), (92, 20900),

Gene: Cheeto1_32 Start: 22256, Stop: 21414, Start Num: 17

Candidate Starts for Cheeto1_32:

(Start: 15 @22274 has 7 MA's), (Start: 17 @22256 has 129 MA's), (46, 21947), (50, 21914), (64, 21818), (70, 21770), (71, 21767),

Gene: Chepli_32 Start: 21461, Stop: 20565, Start Num: 17

Candidate Starts for Chepli_32:

(14, 21482), (Start: 15 @21479 has 7 MA's), (Start: 17 @21461 has 129 MA's), (49, 21125), (56, 21104), (72, 20954), (83, 20855),

Gene: ChickenKing_31 Start: 22169, Stop: 21327, Start Num: 17

Candidate Starts for ChickenKing_31:

(Start: 15 @22187 has 7 MA's), (Start: 17 @22169 has 129 MA's), (46, 21860), (50, 21827), (64, 21731), (70, 21683),

Gene: ChikPic_30 Start: 21850, Stop: 20999, Start Num: 17

Candidate Starts for ChikPic_30:

(Start: 15 @21868 has 7 MA's), (Start: 17 @21850 has 129 MA's), (43, 21565), (49, 21511), (64, 21412), (70, 21364), (72, 21343), (77, 21280), (79, 21274), (84, 21226), (89, 21184), (107, 21046),

Gene: Christoph_30 Start: 21609, Stop: 20767, Start Num: 17

Candidate Starts for Christoph_30:

(Start: 17 @21609 has 129 MA's), (35, 21495), (36, 21465), (54, 21276), (64, 21168), (70, 21117), (73, 21093), (77, 21039), (79, 21033), (92, 20916),

Gene: Clancy_30 Start: 21598, Stop: 20756, Start Num: 17

Candidate Starts for Clancy_30:

(Start: 17 @21598 has 129 MA's), (35, 21484), (36, 21454), (54, 21265), (64, 21157), (70, 21106), (73, 21082), (77, 21028), (79, 21022), (92, 20905),

Gene: Clock_29 Start: 22374, Stop: 21424, Start Num: 15

Candidate Starts for Clock_29:

(5, 22461), (7, 22434), (9, 22398), (12, 22380), (Start: 15 @22374 has 7 MA's), (Start: 20 @22323 has 1 MA's), (23, 22317), (49, 22005), (64, 21903), (77, 21771), (79, 21765), (83, 21735),

Gene: ColaCorta_30 Start: 21852, Stop: 20983, Start Num: 15

Candidate Starts for ColaCorta_30:

(Start: 15 @21852 has 7 MA's), (Start: 17 @21834 has 129 MA's), (43, 21549), (49, 21495), (64, 21396), (70, 21348), (71, 21345), (72, 21327), (77, 21264), (79, 21258), (84, 21210), (89, 21168), (97, 21093), (107, 21030),

Gene: Convict_31 Start: 21796, Stop: 20954, Start Num: 17

Candidate Starts for Convict_31:

(Start: 17 @21796 has 129 MA's), (35, 21682), (36, 21652), (54, 21463), (64, 21355), (70, 21304), (73, 21280), (77, 21226), (79, 21220), (92, 21103),

Gene: Dave_31 Start: 21784, Stop: 20942, Start Num: 17

Candidate Starts for Dave_31:

(Start: 17 @21784 has 129 MA's), (35, 21670), (36, 21640), (54, 21451), (64, 21343), (70, 21292), (73, 21268), (77, 21214), (92, 21091),

Gene: Delphidian_32 Start: 21795, Stop: 20953, Start Num: 17

Candidate Starts for Delphidian_32:

(Start: 17 @21795 has 129 MA's), (35, 21681), (36, 21651), (54, 21462), (64, 21354), (70, 21303), (73, 21279), (77, 21225), (92, 21102),

Gene: Den3_31 Start: 21800, Stop: 20958, Start Num: 17

Candidate Starts for Den3_31:

(Start: 17 @21800 has 129 MA's), (35, 21686), (36, 21656), (54, 21467), (64, 21359), (70, 21308), (73, 21284), (77, 21230), (92, 21107),

Gene: Dothraki_31 Start: 21798, Stop: 20956, Start Num: 17

Candidate Starts for Dothraki_31:

(Start: 17 @21798 has 129 MA's), (35, 21684), (36, 21654), (54, 21465), (64, 21357), (70, 21306), (73, 21282), (77, 21228), (79, 21222), (92, 21105),

Gene: Duocatuli_30 Start: 21598, Stop: 20756, Start Num: 17

Candidate Starts for Duocatuli_30:

(Start: 17 @21598 has 129 MA's), (35, 21484), (36, 21454), (54, 21265), (64, 21157), (70, 21106), (73, 21082), (77, 21028), (79, 21022), (92, 20905),

Gene: Eleri_30 Start: 21865, Stop: 20996, Start Num: 15

Candidate Starts for Eleri_30:

(Start: 15 @21865 has 7 MA's), (Start: 17 @21847 has 129 MA's), (43, 21562), (49, 21508), (64, 21409), (70, 21361), (71, 21358), (72, 21340), (77, 21277), (79, 21271), (84, 21223), (89, 21181), (97,

21106), (107, 21043),

Gene: Emotion_55 Start: 37527, Stop: 38288, Start Num: 31

Candidate Starts for Emotion_55:

(Start: 31 @37527 has 6 MA's), (64, 37878), (87, 38100), (91, 38127), (104, 38211),

Gene: Endor_31 Start: 22097, Stop: 21195, Start Num: 17

Candidate Starts for Endor_31:

(Start: 17 @22097 has 129 MA's), (54, 21764), (64, 21656), (70, 21605), (73, 21581), (77, 21527), (81, 21506), (95, 21329),

Gene: Erla_30 Start: 21591, Stop: 20749, Start Num: 17

Candidate Starts for Erla_30:

(Start: 17 @21591 has 129 MA's), (35, 21477), (36, 21447), (54, 21258), (64, 21150), (70, 21099), (73, 21075), (77, 21021), (79, 21015), (92, 20898),

Gene: Espinosa_30 Start: 21609, Stop: 20767, Start Num: 17

Candidate Starts for Espinosa_30:

(Start: 17 @21609 has 129 MA's), (35, 21495), (36, 21465), (54, 21276), (64, 21168), (70, 21117), (73, 21093), (77, 21039), (79, 21033), (92, 20916),

Gene: Etna_30 Start: 21878, Stop: 20988, Start Num: 21

Candidate Starts for Etna_30:

(Start: 21 @21878 has 2 MA's), (48, 21563), (77, 21329), (81, 21308),

Gene: Etta_30 Start: 21595, Stop: 20753, Start Num: 17

Candidate Starts for Etta_30:

(Start: 17 @21595 has 129 MA's), (35, 21481), (36, 21451), (54, 21262), (64, 21154), (70, 21103), (73, 21079), (77, 21025), (79, 21019), (92, 20902),

Gene: FarmerDoug_30 Start: 21737, Stop: 20847, Start Num: 21

Candidate Starts for FarmerDoug_30:

(Start: 21 @21737 has 2 MA's), (48, 21422), (77, 21188), (81, 21167),

Gene: Figueroism_31 Start: 21783, Stop: 20941, Start Num: 17

Candidate Starts for Figueroism_31:

(Start: 17 @21783 has 129 MA's), (35, 21669), (36, 21639), (54, 21450), (64, 21342), (70, 21291), (73, 21267), (77, 21213), (79, 21207), (92, 21090),

Gene: Finny_30 Start: 21887, Stop: 20979, Start Num: 17

Candidate Starts for Finny_30:

(Start: 15 @21905 has 7 MA's), (Start: 17 @21887 has 129 MA's), (43, 21602), (49, 21548), (64, 21449), (70, 21401), (71, 21398), (72, 21380), (77, 21317), (79, 21311), (84, 21263), (89, 21221), (107, 21026),

Gene: GaeCeo_32 Start: 22405, Stop: 21563, Start Num: 17

Candidate Starts for GaeCeo_32:

(Start: 15 @22423 has 7 MA's), (Start: 17 @22405 has 129 MA's), (46, 22096), (50, 22063), (64, 21967), (70, 21919),

Gene: GardenB_30 Start: 21876, Stop: 20989, Start Num: 17

Candidate Starts for GardenB_30:

(Start: 17 @21876 has 129 MA's), (59, 21519), (64, 21459), (67, 21438), (70, 21405), (77, 21327), (81, 21306),

Gene: GardenState_69 Start: 42002, Stop: 42718, Start Num: 33

Candidate Starts for GardenState_69:

(Start: 33 @42002 has 4 MA's), (76, 42431),

Gene: Garey24_30 Start: 21574, Stop: 20732, Start Num: 17

Candidate Starts for Garey24_30:

(Start: 17 @21574 has 129 MA's), (35, 21460), (36, 21430), (54, 21241), (64, 21133), (70, 21082), (73, 21058), (77, 21004), (79, 20998), (92, 20881),

Gene: Gargoyle_31 Start: 21798, Stop: 20956, Start Num: 17

Candidate Starts for Gargoyle_31:

(Start: 17 @21798 has 129 MA's), (35, 21684), (36, 21654), (54, 21465), (64, 21357), (70, 21306), (73, 21282), (77, 21228), (79, 21222), (92, 21105),

Gene: Gelo_30 Start: 21595, Stop: 20753, Start Num: 17

Candidate Starts for Gelo_30:

(Start: 17 @21595 has 129 MA's), (35, 21481), (36, 21451), (54, 21262), (64, 21154), (70, 21103), (73, 21079), (77, 21025), (79, 21019), (92, 20902),

Gene: Gershwin_30 Start: 21611, Stop: 20769, Start Num: 17

Candidate Starts for Gershwin_30:

(Start: 17 @21611 has 129 MA's), (35, 21497), (36, 21467), (54, 21278), (64, 21170), (70, 21119), (73, 21095), (77, 21041), (79, 21035), (92, 20918),

Gene: Glamour_29 Start: 21853, Stop: 20984, Start Num: 15

Candidate Starts for Glamour_29:

(Start: 15 @21853 has 7 MA's), (Start: 17 @21835 has 129 MA's), (43, 21550), (49, 21496), (64, 21397), (70, 21349), (71, 21346), (72, 21328), (77, 21265), (79, 21259), (84, 21211), (89, 21169), (97, 21094), (107, 21031),

Gene: Golden_29 Start: 21794, Stop: 20895, Start Num: 17

Candidate Starts for Golden_29:

(Start: 15 @21812 has 7 MA's), (Start: 17 @21794 has 129 MA's), (53, 21449), (57, 21428), (64, 21368), (70, 21320), (77, 21236), (78, 21233), (90, 21134),

Gene: Greys_31 Start: 21793, Stop: 20951, Start Num: 17

Candidate Starts for Greys_31:

(Start: 17 @21793 has 129 MA's), (35, 21679), (36, 21649), (54, 21460), (64, 21352), (70, 21301), (73, 21277), (77, 21223), (92, 21100),

Gene: Gubbabump_30 Start: 21600, Stop: 20758, Start Num: 17

Candidate Starts for Gubbabump_30:

(Start: 17 @21600 has 129 MA's), (35, 21486), (36, 21456), (54, 21267), (64, 21159), (70, 21108), (73, 21084), (77, 21030), (79, 21024), (92, 20907),

Gene: Guetzie_29 Start: 21782, Stop: 20883, Start Num: 17

Candidate Starts for Guetzie_29:

(Start: 15 @21800 has 7 MA's), (Start: 17 @21782 has 129 MA's), (53, 21437), (57, 21416), (64, 21356), (70, 21308), (77, 21224), (78, 21221), (90, 21122),

Gene: Hamlet_30 Start: 21873, Stop: 20986, Start Num: 17
Candidate Starts for Hamlet_30:
(Start: 17 @21873 has 129 MA's), (36, 21729), (59, 21516), (64, 21456), (67, 21435), (70, 21402), (77, 21324), (81, 21303),

Gene: HanSolo_30 Start: 21598, Stop: 20756, Start Num: 17
Candidate Starts for HanSolo_30:
(Start: 17 @21598 has 129 MA's), (35, 21484), (36, 21454), (54, 21265), (64, 21157), (70, 21106), (73, 21082), (77, 21028), (79, 21022), (92, 20905),

Gene: HankSprout_32 Start: 21478, Stop: 20636, Start Num: 17
Candidate Starts for HankSprout_32:
(Start: 17 @21478 has 129 MA's), (35, 21364), (36, 21334), (54, 21145), (64, 21037), (70, 20986), (73, 20962), (77, 20908), (79, 20902), (92, 20785),

Gene: HerculesXL_31 Start: 20731, Stop: 19856, Start Num: 15
Candidate Starts for HerculesXL_31:
(Start: 15 @20731 has 7 MA's), (Start: 17 @20713 has 129 MA's), (36, 20551), (39, 20527), (41, 20479), (45, 20419), (49, 20377), (54, 20362), (64, 20317), (70, 20266), (77, 20182), (79, 20176), (82, 20149), (89, 20086),

Gene: HungryHenry_31 Start: 21609, Stop: 20767, Start Num: 17
Candidate Starts for HungryHenry_31:
(Start: 17 @21609 has 129 MA's), (35, 21495), (36, 21465), (54, 21276), (64, 21168), (70, 21117), (73, 21093), (77, 21039), (92, 20916),

Gene: IAmGroot_68 Start: 42211, Stop: 42927, Start Num: 33
Candidate Starts for IAmGroot_68:
(Start: 33 @42211 has 4 MA's), (76, 42640),

Gene: Ilzat_30 Start: 21608, Stop: 20766, Start Num: 17
Candidate Starts for Ilzat_30:
(Start: 17 @21608 has 129 MA's), (35, 21494), (36, 21464), (54, 21275), (64, 21167), (70, 21116), (73, 21092), (77, 21038), (92, 20915),

Gene: Inventa_31 Start: 21798, Stop: 20956, Start Num: 17
Candidate Starts for Inventa_31:
(Start: 17 @21798 has 129 MA's), (35, 21684), (36, 21654), (54, 21465), (64, 21357), (70, 21306), (73, 21282), (77, 21228), (79, 21222), (92, 21105),

Gene: loannes_31 Start: 21796, Stop: 20954, Start Num: 17
Candidate Starts for loannes_31:
(Start: 17 @21796 has 129 MA's), (35, 21682), (36, 21652), (54, 21463), (64, 21355), (70, 21304), (73, 21280), (77, 21226), (79, 21220), (92, 21103),

Gene: Ixel_31 Start: 20664, Stop: 19759, Start Num: 17
Candidate Starts for Ixel_31:
(Start: 15 @20682 has 7 MA's), (Start: 17 @20664 has 129 MA's), (35, 20547), (36, 20517), (49, 20343), (54, 20328), (64, 20220), (68, 20199), (70, 20169), (73, 20145), (77, 20085), (79, 20079), (89, 19989), (107, 19806),

Gene: Janus167_30 Start: 21598, Stop: 20756, Start Num: 17
Candidate Starts for Janus167_30:

(Start: 17 @21598 has 129 MA's), (35, 21484), (36, 21454), (54, 21265), (64, 21157), (70, 21106), (73, 21082), (77, 21028), (79, 21022), (92, 20905),

Gene: JasonD_35 Start: 22235, Stop: 21387, Start Num: 17

Candidate Starts for JasonD_35:

(Start: 17 @22235 has 129 MA's), (54, 21902), (64, 21794), (70, 21743), (73, 21719), (74, 21707), (92, 21536), (107, 21434),

Gene: JasperRussell_30 Start: 21598, Stop: 20756, Start Num: 17

Candidate Starts for JasperRussell_30:

(Start: 17 @21598 has 129 MA's), (35, 21484), (36, 21454), (54, 21265), (64, 21157), (70, 21106), (73, 21082), (77, 21028), (79, 21022), (92, 20905),

Gene: Jemerald_33 Start: 22738, Stop: 21842, Start Num: 17

Candidate Starts for Jemerald_33:

(Start: 17 @22738 has 129 MA's), (30, 22663), (36, 22576), (41, 22504), (49, 22402), (72, 22231),

Gene: Jenos_34 Start: 22908, Stop: 21967, Start Num: 11

Candidate Starts for Jenos_34:

(Start: 11 @22908 has 3 MA's), (Start: 17 @22872 has 129 MA's), (48, 22542), (77, 22308), (79, 22302), (85, 22242), (90, 22206), (96, 22104),

Gene: Jerbirus_31 Start: 21598, Stop: 20756, Start Num: 17

Candidate Starts for Jerbirus_31:

(Start: 17 @21598 has 129 MA's), (35, 21484), (36, 21454), (54, 21265), (64, 21157), (70, 21106), (73, 21082), (77, 21028), (79, 21022), (92, 20905),

Gene: JeriBeth_31 Start: 21455, Stop: 20613, Start Num: 17

Candidate Starts for JeriBeth_31:

(Start: 17 @21455 has 129 MA's), (35, 21341), (36, 21311), (54, 21122), (64, 21014), (70, 20963), (73, 20939), (77, 20885), (92, 20762),

Gene: Juicer_33 Start: 22738, Stop: 21842, Start Num: 17

Candidate Starts for Juicer_33:

(Start: 17 @22738 has 129 MA's), (30, 22663), (36, 22576), (41, 22504), (49, 22402), (72, 22231),

Gene: Kale_30 Start: 21613, Stop: 20771, Start Num: 17

Candidate Starts for Kale_30:

(Start: 17 @21613 has 129 MA's), (35, 21499), (36, 21469), (54, 21280), (64, 21172), (70, 21121), (73, 21097), (77, 21043), (79, 21037), (92, 20920),

Gene: KannH_30 Start: 21598, Stop: 20756, Start Num: 17

Candidate Starts for KannH_30:

(Start: 17 @21598 has 129 MA's), (35, 21484), (36, 21454), (54, 21265), (64, 21157), (70, 21106), (73, 21082), (77, 21028), (79, 21022), (92, 20905),

Gene: KatChan_32 Start: 21467, Stop: 20571, Start Num: 17

Candidate Starts for KatChan_32:

(14, 21488), (Start: 15 @21485 has 7 MA's), (Start: 17 @21467 has 129 MA's), (49, 21131), (56, 21110), (72, 20960), (83, 20861),

Gene: Kauala_29 Start: 21686, Stop: 20793, Start Num: 17

Candidate Starts for Kauala_29:

(Start: 15 @21704 has 7 MA's), (Start: 17 @21686 has 129 MA's), (34, 21566), (53, 21341), (57, 21320), (64, 21260), (70, 21212), (77, 21134), (89, 21038),

Gene: Kharcho_27 Start: 10163, Stop: 10948, Start Num: 31

Candidate Starts for Kharcho_27:

(Start: 31 @10163 has 6 MA's), (37, 10238), (58, 10445), (61, 10496), (63, 10517), (85, 10727),

Gene: KingJulien_30 Start: 21869, Stop: 20982, Start Num: 17

Candidate Starts for KingJulien_30:

(Start: 17 @21869 has 129 MA's), (59, 21512), (64, 21452), (67, 21431), (70, 21398), (77, 21320), (81, 21299),

Gene: Klevey_81 Start: 49956, Stop: 49168, Start Num: 31

Candidate Starts for Klevey_81:

(16, 50064), (24, 50007), (25, 50004), (Start: 31 @49956 has 6 MA's), (42, 49797), (58, 49674), (61, 49623), (85, 49392),

Gene: Klimt_30 Start: 21593, Stop: 20751, Start Num: 17

Candidate Starts for Klimt_30:

(Start: 17 @21593 has 129 MA's), (35, 21479), (36, 21449), (54, 21260), (64, 21152), (70, 21101), (73, 21077), (77, 21023), (79, 21017), (92, 20900),

Gene: Knox_31 Start: 21796, Stop: 20954, Start Num: 17

Candidate Starts for Knox_31:

(Start: 17 @21796 has 129 MA's), (35, 21682), (36, 21652), (54, 21463), (64, 21355), (70, 21304), (73, 21280), (77, 21226), (79, 21220), (92, 21103),

Gene: Koji_29 Start: 21812, Stop: 20919, Start Num: 17

Candidate Starts for Koji_29:

(2, 21998), (3, 21953), (4, 21938), (Start: 15 @21830 has 7 MA's), (Start: 17 @21812 has 129 MA's), (36, 21650), (51, 21470), (57, 21446), (62, 21395), (65, 21377), (77, 21260), (79, 21254), (84, 21206),

Gene: Kors_42 Start: 25717, Stop: 26583, Start Num: 17

Candidate Starts for Kors_42:

(1, 25516), (6, 25624), (10, 25675), (Start: 17 @25717 has 129 MA's), (27, 25768), (50, 26056), (52, 26062), (64, 26149), (70, 26197), (85, 26350), (86, 26356), (98, 26470), (100, 26488),

Gene: Kurt1_31 Start: 21798, Stop: 20956, Start Num: 17

Candidate Starts for Kurt1_31:

(Start: 17 @21798 has 129 MA's), (35, 21684), (36, 21654), (54, 21465), (64, 21357), (70, 21306), (73, 21282), (77, 21228), (79, 21222), (92, 21105),

Gene: Leafus_30 Start: 22011, Stop: 21124, Start Num: 21

Candidate Starts for Leafus_30:

(Start: 21 @22011 has 2 MA's), (48, 21696), (79, 21459), (96, 21261),

Gene: Liebe_23 Start: 19676, Stop: 20467, Start Num: 26

Candidate Starts for Liebe_23:

(Start: 26 @19676 has 2 MA's), (28, 19685), (Start: 33 @19748 has 4 MA's), (40, 19850), (47, 19925), (85, 20258), (91, 20297),

Gene: Lilmac1015_80 Start: 49859, Stop: 49071, Start Num: 31

Candidate Starts for Lilmac1015_80:

(16, 49967), (24, 49910), (25, 49907), (Start: 31 @49859 has 6 MA's), (42, 49700), (58, 49577), (61, 49526), (85, 49295), (105, 49157),

Gene: Lovelyunicorn_31 Start: 21796, Stop: 20954, Start Num: 17

Candidate Starts for Lovelyunicorn_31:

(Start: 17 @21796 has 129 MA's), (35, 21682), (36, 21652), (54, 21463), (64, 21355), (70, 21304), (73, 21280), (77, 21226), (92, 21103),

Gene: Lucky3_29 Start: 21794, Stop: 20895, Start Num: 17

Candidate Starts for Lucky3_29:

(Start: 15 @21812 has 7 MA's), (Start: 17 @21794 has 129 MA's), (53, 21449), (57, 21428), (64, 21368), (70, 21320), (77, 21236), (78, 21233), (90, 21134),

Gene: Ludgate_31 Start: 21792, Stop: 20950, Start Num: 17

Candidate Starts for Ludgate_31:

(Start: 17 @21792 has 129 MA's), (35, 21678), (36, 21648), (54, 21459), (64, 21351), (70, 21300), (73, 21276), (77, 21222), (92, 21099),

Gene: Luna18_32 Start: 21467, Stop: 20571, Start Num: 17

Candidate Starts for Luna18_32:

(14, 21488), (Start: 15 @21485 has 7 MA's), (Start: 17 @21467 has 129 MA's), (49, 21131), (56, 21110), (72, 20960), (83, 20861),

Gene: MCubed_30 Start: 21857, Stop: 21006, Start Num: 17

Candidate Starts for MCubed_30:

(Start: 15 @21875 has 7 MA's), (Start: 17 @21857 has 129 MA's), (43, 21572), (49, 21518), (64, 21419), (70, 21371), (72, 21350), (77, 21287), (79, 21281), (84, 21233), (89, 21191), (107, 21053),

Gene: MaeLinda_31 Start: 21798, Stop: 20956, Start Num: 17

Candidate Starts for MaeLinda_31:

(Start: 17 @21798 has 129 MA's), (35, 21684), (36, 21654), (54, 21465), (64, 21357), (70, 21306), (73, 21282), (77, 21228), (79, 21222), (92, 21105), (106, 21024),

Gene: ManRay_30 Start: 21611, Stop: 20769, Start Num: 17

Candidate Starts for ManRay_30:

(Start: 17 @21611 has 129 MA's), (35, 21497), (36, 21467), (54, 21278), (64, 21170), (70, 21119), (73, 21095), (77, 21041), (79, 21035), (92, 20918),

Gene: Martin_32 Start: 21798, Stop: 20956, Start Num: 17

Candidate Starts for Martin_32:

(Start: 17 @21798 has 129 MA's), (35, 21684), (36, 21654), (54, 21465), (64, 21357), (70, 21306), (73, 21282), (77, 21228), (79, 21222), (92, 21105),

Gene: Maureen_23 Start: 19676, Stop: 20467, Start Num: 26

Candidate Starts for Maureen_23:

(Start: 26 @19676 has 2 MA's), (28, 19685), (Start: 33 @19748 has 4 MA's), (40, 19850), (47, 19925), (85, 20258), (91, 20297),

Gene: McGalleon_33 Start: 23130, Stop: 22183, Start Num: 11

Candidate Starts for McGalleon_33:

(Start: 11 @23130 has 3 MA's), (Start: 17 @23094 has 129 MA's), (52, 22749), (60, 22686), (77, 22524), (79, 22518), (85, 22458), (90, 22422), (96, 22320),

Gene: MillyPhilly_31 Start: 21795, Stop: 20953, Start Num: 17

Candidate Starts for MillyPhilly_31:

(Start: 17 @21795 has 129 MA's), (35, 21681), (36, 21651), (54, 21462), (64, 21354), (70, 21303), (73, 21279), (77, 21225), (79, 21219), (92, 21102),

Gene: MonChoix_29 Start: 21781, Stop: 20879, Start Num: 17

Candidate Starts for MonChoix_29:

(Start: 17 @21781 has 129 MA's), (54, 21448), (64, 21340), (70, 21289), (73, 21265), (77, 21211), (81, 21190), (95, 21013),

Gene: MrWorldwide_31 Start: 21799, Stop: 20957, Start Num: 17

Candidate Starts for MrWorldwide_31:

(Start: 17 @21799 has 129 MA's), (35, 21685), (36, 21655), (54, 21466), (64, 21358), (70, 21307), (73, 21283), (77, 21229), (79, 21223), (92, 21106),

Gene: Nagem_31 Start: 21792, Stop: 20950, Start Num: 17

Candidate Starts for Nagem_31:

(Start: 17 @21792 has 129 MA's), (35, 21678), (36, 21648), (54, 21459), (64, 21351), (70, 21300), (73, 21276), (77, 21222), (92, 21099),

Gene: Nattles_30 Start: 21598, Stop: 20756, Start Num: 17

Candidate Starts for Nattles_30:

(Start: 17 @21598 has 129 MA's), (35, 21484), (36, 21454), (54, 21265), (64, 21157), (70, 21106), (73, 21082), (77, 21028), (79, 21022), (92, 20905),

Gene: Nebulous_29 Start: 22504, Stop: 21605, Start Num: 20

Candidate Starts for Nebulous_29:

(5, 22642), (7, 22615), (9, 22579), (12, 22561), (Start: 15 @22555 has 7 MA's), (Start: 20 @22504 has 1 MA's), (23, 22498), (49, 22186), (64, 22084), (77, 21952), (79, 21946), (83, 21916),

Gene: NickSell_32 Start: 21798, Stop: 20956, Start Num: 17

Candidate Starts for NickSell_32:

(Start: 17 @21798 has 129 MA's), (35, 21684), (36, 21654), (54, 21465), (64, 21357), (70, 21306), (73, 21282), (77, 21228), (79, 21222), (92, 21105),

Gene: Oats_30 Start: 21611, Stop: 20769, Start Num: 17

Candidate Starts for Oats_30:

(Start: 17 @21611 has 129 MA's), (35, 21497), (36, 21467), (54, 21278), (64, 21170), (70, 21119), (73, 21095), (77, 21041), (79, 21035), (92, 20918),

Gene: OldNelly_31 Start: 21798, Stop: 20956, Start Num: 17

Candidate Starts for OldNelly_31:

(Start: 17 @21798 has 129 MA's), (35, 21684), (36, 21654), (54, 21465), (64, 21357), (70, 21306), (73, 21282), (77, 21228), (92, 21105),

Gene: Ottawa_27 Start: 10163, Stop: 10948, Start Num: 31

Candidate Starts for Ottawa_27:

(Start: 31 @10163 has 6 MA's), (37, 10238), (58, 10445), (61, 10496), (63, 10517), (85, 10727),

Gene: Oxtober96_31 Start: 21796, Stop: 20954, Start Num: 17

Candidate Starts for Oxtober96_31:

(Start: 17 @21796 has 129 MA's), (35, 21682), (36, 21652), (54, 21463), (64, 21355), (70, 21304), (73, 21280), (77, 21226), (92, 21103),

Gene: Papafritta_30 Start: 21607, Stop: 20765, Start Num: 17

Candidate Starts for Papafritta_30:

(Start: 17 @21607 has 129 MA's), (35, 21493), (36, 21463), (54, 21274), (64, 21166), (70, 21115), (73, 21091), (77, 21037), (92, 20914),

Gene: ParleG_31 Start: 21799, Stop: 20957, Start Num: 17

Candidate Starts for ParleG_31:

(Start: 17 @21799 has 129 MA's), (35, 21685), (36, 21655), (54, 21466), (64, 21358), (70, 21307), (73, 21283), (77, 21229), (79, 21223), (92, 21106),

Gene: Peep_31 Start: 21784, Stop: 20942, Start Num: 17

Candidate Starts for Peep_31:

(Start: 17 @21784 has 129 MA's), (35, 21670), (36, 21640), (54, 21451), (64, 21343), (70, 21292), (73, 21268), (77, 21214), (92, 21091),

Gene: Peppino_30 Start: 21865, Stop: 20978, Start Num: 17

Candidate Starts for Peppino_30:

(Start: 17 @21865 has 129 MA's), (36, 21721), (59, 21508), (64, 21448), (67, 21427), (70, 21394), (77, 21316), (81, 21295),

Gene: Pherbot_29 Start: 21682, Stop: 20789, Start Num: 17

Candidate Starts for Pherbot_29:

(Start: 11 @21718 has 3 MA's), (Start: 15 @21700 has 7 MA's), (Start: 17 @21682 has 129 MA's), (46, 21376), (57, 21316), (62, 21265), (65, 21247), (77, 21130), (79, 21124), (84, 21076), (90, 21028),

Gene: Pherferi_31 Start: 21798, Stop: 20956, Start Num: 17

Candidate Starts for Pherferi_31:

(Start: 17 @21798 has 129 MA's), (35, 21684), (36, 21654), (54, 21465), (64, 21357), (70, 21306), (73, 21282), (77, 21228), (79, 21222), (92, 21105),

Gene: Phiderman_32 Start: 21795, Stop: 20953, Start Num: 17

Candidate Starts for Phiderman_32:

(Start: 17 @21795 has 129 MA's), (35, 21681), (36, 21651), (54, 21462), (64, 21354), (70, 21303), (73, 21279), (77, 21225), (79, 21219), (92, 21102),

Gene: Phireproof_31 Start: 21798, Stop: 20956, Start Num: 17

Candidate Starts for Phireproof_31:

(Start: 17 @21798 has 129 MA's), (35, 21684), (36, 21654), (54, 21465), (64, 21357), (70, 21306), (73, 21282), (77, 21228), (79, 21222), (92, 21105),

Gene: PhredFlintston_31 Start: 21798, Stop: 20956, Start Num: 17

Candidate Starts for PhredFlintston_31:

(Start: 17 @21798 has 129 MA's), (35, 21684), (36, 21654), (54, 21465), (64, 21357), (70, 21306), (73, 21282), (77, 21228), (79, 21222), (92, 21105),

Gene: Phriends_31 Start: 21798, Stop: 20956, Start Num: 17

Candidate Starts for Phriends_31:

(Start: 17 @21798 has 129 MA's), (35, 21684), (36, 21654), (54, 21465), (64, 21357), (70, 21306), (73, 21282), (77, 21228), (92, 21105),

Gene: Pocket_30 Start: 21596, Stop: 20754, Start Num: 17

Candidate Starts for Pocket_30:

(Start: 17 @21596 has 129 MA's), (35, 21482), (36, 21452), (54, 21263), (64, 21155), (70, 21104), (73, 21080), (77, 21026), (79, 21020), (92, 20903),

Gene: PrincePhergus_29 Start: 21721, Stop: 20792, Start Num: 11

Candidate Starts for PrincePhergus_29:

(Start: 11 @21721 has 3 MA's), (Start: 15 @21703 has 7 MA's), (Start: 17 @21685 has 129 MA's), (57, 21319), (62, 21268), (65, 21250), (77, 21133), (79, 21127), (84, 21079),

Gene: PuppyEggo_31 Start: 21796, Stop: 20954, Start Num: 17

Candidate Starts for PuppyEggo_31:

(Start: 17 @21796 has 129 MA's), (35, 21682), (36, 21652), (54, 21463), (64, 21355), (70, 21304), (73, 21280), (77, 21226), (92, 21103),

Gene: Raccoon_30 Start: 21834, Stop: 20986, Start Num: 17

Candidate Starts for Raccoon_30:

(Start: 17 @21834 has 129 MA's), (54, 21501), (64, 21393), (70, 21342), (73, 21318), (77, 21258), (79, 21252), (92, 21135), (107, 21033),

Gene: Rapheph_31 Start: 21798, Stop: 20956, Start Num: 17

Candidate Starts for Rapheph_31:

(Start: 17 @21798 has 129 MA's), (35, 21684), (36, 21654), (54, 21465), (64, 21357), (70, 21306), (73, 21282), (77, 21228), (79, 21222), (92, 21105),

Gene: Raptor_31 Start: 21796, Stop: 20954, Start Num: 17

Candidate Starts for Raptor_31:

(Start: 17 @21796 has 129 MA's), (35, 21682), (36, 21652), (54, 21463), (64, 21355), (70, 21304), (73, 21280), (77, 21226), (79, 21220), (92, 21103),

Gene: Redfield_30 Start: 21872, Stop: 20985, Start Num: 17

Candidate Starts for Redfield_30:

(Start: 17 @21872 has 129 MA's), (36, 21728), (59, 21515), (64, 21455), (67, 21434), (70, 21401), (77, 21323), (81, 21302),

Gene: Renzie_31 Start: 21784, Stop: 20942, Start Num: 17

Candidate Starts for Renzie_31:

(Start: 17 @21784 has 129 MA's), (35, 21670), (36, 21640), (54, 21451), (64, 21343), (70, 21292), (73, 21268), (77, 21214), (92, 21091),

Gene: RikSengupta_41 Start: 25754, Stop: 26620, Start Num: 17

Candidate Starts for RikSengupta_41:

(1, 25553), (6, 25661), (10, 25712), (Start: 17 @25754 has 129 MA's), (27, 25805), (50, 26093), (52, 26099), (64, 26186), (70, 26234), (80, 26330), (85, 26387), (86, 26393), (98, 26507), (99, 26519), (100, 26525),

Gene: Riyhil_31 Start: 21798, Stop: 20956, Start Num: 17

Candidate Starts for Riyhil_31:

(Start: 17 @21798 has 129 MA's), (35, 21684), (36, 21654), (54, 21465), (64, 21357), (70, 21306), (73, 21282), (77, 21228), (92, 21105),

Gene: Robinson_31 Start: 21790, Stop: 20948, Start Num: 17

Candidate Starts for Robinson_31:

(Start: 17 @21790 has 129 MA's), (35, 21676), (36, 21646), (54, 21457), (64, 21349), (70, 21298), (73, 21274), (77, 21220), (79, 21214), (92, 21097),

Gene: Rog141_31 Start: 21598, Stop: 20756, Start Num: 17

Candidate Starts for Rog141_31:

(Start: 17 @21598 has 129 MA's), (35, 21484), (36, 21454), (54, 21265), (64, 21157), (70, 21106), (73, 21082), (77, 21028), (79, 21022), (92, 20905),

Gene: SJay_31 Start: 21793, Stop: 20951, Start Num: 17

Candidate Starts for SJay_31:

(Start: 17 @21793 has 129 MA's), (35, 21679), (36, 21649), (54, 21460), (64, 21352), (70, 21301), (73, 21277), (77, 21223), (92, 21100),

Gene: Sansa_29 Start: 21875, Stop: 21006, Start Num: 15

Candidate Starts for Sansa_29:

(Start: 15 @21875 has 7 MA's), (Start: 17 @21857 has 129 MA's), (43, 21572), (49, 21518), (64, 21419), (70, 21371), (71, 21368), (72, 21350), (77, 21287), (79, 21281), (83, 21251), (84, 21233), (89, 21191), (97, 21116), (107, 21053),

Gene: Saratos_30 Start: 21832, Stop: 20981, Start Num: 17

Candidate Starts for Saratos_30:

(Start: 15 @21850 has 7 MA's), (Start: 17 @21832 has 129 MA's), (43, 21547), (49, 21493), (64, 21394), (70, 21346), (71, 21343), (72, 21325), (77, 21262), (79, 21256), (84, 21208), (89, 21166), (97, 21091), (107, 21028),

Gene: Schimmels22_31 Start: 21105, Stop: 20230, Start Num: 15

Candidate Starts for Schimmels22_31:

(Start: 15 @21105 has 7 MA's), (Start: 17 @21087 has 129 MA's), (36, 20925), (39, 20901), (41, 20853), (45, 20793), (49, 20751), (54, 20736), (64, 20691), (70, 20640), (75, 20583), (77, 20556), (79, 20550), (82, 20523), (89, 20460),

Gene: Schnapsidee_30 Start: 21866, Stop: 20979, Start Num: 17

Candidate Starts for Schnapsidee_30:

(Start: 17 @21866 has 129 MA's), (36, 21722), (59, 21509), (64, 21449), (67, 21428), (70, 21395), (77, 21317), (81, 21296),

Gene: Sedgewig_30 Start: 21590, Stop: 20748, Start Num: 17

Candidate Starts for Sedgewig_30:

(Start: 17 @21590 has 129 MA's), (35, 21476), (36, 21446), (54, 21257), (64, 21149), (70, 21098), (73, 21074), (77, 21020), (92, 20897),

Gene: ShaiHulud_31 Start: 21796, Stop: 20954, Start Num: 17

Candidate Starts for ShaiHulud_31:

(Start: 17 @21796 has 129 MA's), (35, 21682), (36, 21652), (54, 21463), (64, 21355), (70, 21304), (73, 21280), (77, 21226), (92, 21103),

Gene: Shamu_30 Start: 21847, Stop: 20996, Start Num: 17

Candidate Starts for Shamu_30:

(Start: 15 @21865 has 7 MA's), (Start: 17 @21847 has 129 MA's), (43, 21562), (49, 21508), (64, 21409), (70, 21361), (71, 21358), (72, 21340), (77, 21277), (79, 21271), (84, 21223), (89, 21181), (97, 21106), (107, 21043),

Gene: Shee_31 Start: 21795, Stop: 20953, Start Num: 17

Candidate Starts for Shee_31:

(Start: 17 @21795 has 129 MA's), (35, 21681), (36, 21651), (54, 21462), (64, 21354), (70, 21303), (73, 21279), (77, 21225), (79, 21219), (92, 21102),

Gene: Sinatra_29 Start: 21682, Stop: 20789, Start Num: 17

Candidate Starts for Sinatra_29:

(Start: 15 @21700 has 7 MA's), (Start: 17 @21682 has 129 MA's), (36, 21520), (57, 21316), (62, 21265), (65, 21247), (72, 21187), (77, 21130), (79, 21124), (84, 21076),

Gene: SirVictor_29 Start: 21782, Stop: 20883, Start Num: 17

Candidate Starts for SirVictor_29:

(Start: 15 @21800 has 7 MA's), (Start: 17 @21782 has 129 MA's), (53, 21437), (57, 21416), (64, 21356), (70, 21308), (77, 21224), (78, 21221), (90, 21122),

Gene: SoilGremlin_31 Start: 21795, Stop: 20953, Start Num: 17

Candidate Starts for SoilGremlin_31:

(Start: 17 @21795 has 129 MA's), (35, 21681), (36, 21651), (54, 21462), (64, 21354), (70, 21303), (73, 21279), (77, 21225), (92, 21102),

Gene: SonOfLevi_30 Start: 21593, Stop: 20751, Start Num: 17

Candidate Starts for SonOfLevi_30:

(Start: 17 @21593 has 129 MA's), (35, 21479), (36, 21449), (54, 21260), (64, 21152), (70, 21101), (73, 21077), (77, 21023), (79, 21017), (92, 20900),

Gene: Sonali_99 Start: 61044, Stop: 60199, Start Num: 22

Candidate Starts for Sonali_99:

(18, 61053), (Start: 22 @61044 has 1 MA's), (Start: 31 @60981 has 6 MA's), (37, 60906), (38, 60903), (58, 60696), (61, 60645), (81, 60459), (85, 60414), (101, 60288),

Gene: Sparcetus_41 Start: 25633, Stop: 26499, Start Num: 17

Candidate Starts for Sparcetus_41:

(1, 25432), (6, 25540), (10, 25591), (Start: 17 @25633 has 129 MA's), (27, 25684), (52, 25978), (64, 26065), (70, 26113), (85, 26266), (86, 26272), (98, 26386), (100, 26404),

Gene: Stanktossa_31 Start: 21798, Stop: 20956, Start Num: 17

Candidate Starts for Stanktossa_31:

(Start: 17 @21798 has 129 MA's), (35, 21684), (36, 21654), (54, 21465), (64, 21357), (70, 21306), (73, 21282), (77, 21228), (79, 21222), (92, 21105),

Gene: StingRay_30 Start: 21608, Stop: 20766, Start Num: 17

Candidate Starts for StingRay_30:

(Start: 17 @21608 has 129 MA's), (35, 21494), (36, 21464), (54, 21275), (64, 21167), (70, 21116), (73, 21092), (77, 21038), (92, 20915),

Gene: StirfryIV_31 Start: 21598, Stop: 20756, Start Num: 17

Candidate Starts for StirfryIV_31:

(Start: 17 @21598 has 129 MA's), (35, 21484), (36, 21454), (54, 21265), (64, 21157), (70, 21106), (73, 21082), (77, 21028), (79, 21022), (92, 20905),

Gene: Stormbreaker8_30 Start: 21869, Stop: 20982, Start Num: 17

Candidate Starts for Stormbreaker8_30:

(Start: 17 @21869 has 129 MA's), (59, 21512), (64, 21452), (67, 21431), (70, 21398), (77, 21320), (81, 21299),

Gene: Strathdee_31 Start: 21797, Stop: 20955, Start Num: 17

Candidate Starts for Strathdee_31:

(Start: 17 @21797 has 129 MA's), (35, 21683), (36, 21653), (54, 21464), (64, 21356), (70, 21305), (73, 21281), (77, 21227), (79, 21221), (92, 21104),

Gene: Superfresh_31 Start: 21784, Stop: 20942, Start Num: 17

Candidate Starts for Superfresh_31:

(Start: 17 @21784 has 129 MA's), (35, 21670), (36, 21640), (54, 21451), (64, 21343), (70, 21292), (73, 21268), (77, 21214), (92, 21091),

Gene: TatarkaPM_31 Start: 21798, Stop: 20956, Start Num: 17

Candidate Starts for TatarkaPM_31:

(Start: 17 @21798 has 129 MA's), (35, 21684), (36, 21654), (54, 21465), (64, 21357), (70, 21306), (73, 21282), (77, 21228), (79, 21222), (92, 21105),

Gene: Teagan_31 Start: 21792, Stop: 20950, Start Num: 17

Candidate Starts for Teagan_31:

(Start: 17 @21792 has 129 MA's), (35, 21678), (36, 21648), (54, 21459), (64, 21351), (70, 21300), (73, 21276), (77, 21222), (92, 21099),

Gene: TeddyBear_30 Start: 21611, Stop: 20769, Start Num: 17

Candidate Starts for TeddyBear_30:

(Start: 17 @21611 has 129 MA's), (35, 21497), (36, 21467), (54, 21278), (64, 21170), (70, 21119), (73, 21095), (77, 21041), (79, 21035), (92, 20918),

Gene: Tenda_30 Start: 21609, Stop: 20767, Start Num: 17

Candidate Starts for Tenda_30:

(Start: 17 @21609 has 129 MA's), (35, 21495), (36, 21465), (54, 21276), (64, 21168), (70, 21117), (73, 21093), (77, 21039), (79, 21033), (92, 20916),

Gene: Theresita_50 Start: 33880, Stop: 33122, Start Num: 33

Candidate Starts for Theresita_50:

(Start: 33 @33880 has 4 MA's), (44, 33712), (61, 33574), (69, 33514), (88, 33319), (90, 33307), (93, 33277), (102, 33208), (106, 33193),

Gene: Thompsone_31 Start: 21796, Stop: 20954, Start Num: 17

Candidate Starts for Thompsone_31:

(Start: 17 @21796 has 129 MA's), (35, 21682), (36, 21652), (54, 21463), (64, 21355), (70, 21304), (73, 21280), (77, 21226), (79, 21220), (92, 21103),

Gene: Thorongil_31 Start: 21796, Stop: 20954, Start Num: 17

Candidate Starts for Thorongil_31:

(Start: 17 @21796 has 129 MA's), (35, 21682), (36, 21652), (54, 21463), (64, 21355), (70, 21304), (73, 21280), (77, 21226), (92, 21103),

Gene: TinSulphur_31 Start: 21798, Stop: 20956, Start Num: 17

Candidate Starts for TinSulphur_31:

(Start: 17 @21798 has 129 MA's), (35, 21684), (36, 21654), (54, 21465), (64, 21357), (70, 21306), (73, 21282), (77, 21228), (79, 21222), (92, 21105),

Gene: TinyMiny_41 Start: 25652, Stop: 26518, Start Num: 17

Candidate Starts for TinyMiny_41:

(1, 25451), (6, 25559), (10, 25610), (Start: 17 @25652 has 129 MA's), (27, 25703), (52, 25997), (64, 26084), (70, 26132), (85, 26285), (86, 26291), (98, 26405), (100, 26423),

Gene: Tinyman4_31 Start: 20713, Stop: 19856, Start Num: 17

Candidate Starts for Tinyman4_31:

(Start: 15 @20731 has 7 MA's), (Start: 17 @20713 has 129 MA's), (36, 20551), (39, 20527), (41, 20479), (45, 20419), (49, 20377), (54, 20362), (64, 20317), (70, 20266), (77, 20182), (79, 20176), (82, 20149), (89, 20086),

Gene: Velene_31 Start: 21796, Stop: 20954, Start Num: 17

Candidate Starts for Velene_31:

(Start: 17 @21796 has 129 MA's), (35, 21682), (36, 21652), (54, 21463), (64, 21355), (70, 21304), (73, 21280), (77, 21226), (92, 21103),

Gene: Vispitious_31 Start: 21796, Stop: 20954, Start Num: 17

Candidate Starts for Vispitious_31:

(Start: 17 @21796 has 129 MA's), (35, 21682), (36, 21652), (54, 21463), (64, 21355), (70, 21304), (73, 21280), (77, 21226), (92, 21103),

Gene: WestPM_29 Start: 20570, Stop: 19713, Start Num: 17

Candidate Starts for WestPM_29:

(Start: 15 @20588 has 7 MA's), (Start: 17 @20570 has 129 MA's), (36, 20408), (41, 20336), (45, 20276), (49, 20234), (54, 20219), (64, 20174), (70, 20123), (77, 20039), (79, 20033), (82, 20006), (85, 19973), (89, 19943),

Gene: WildNOut_31 Start: 21796, Stop: 20954, Start Num: 17

Candidate Starts for WildNOut_31:

(Start: 17 @21796 has 129 MA's), (35, 21682), (36, 21652), (54, 21463), (64, 21355), (70, 21304), (73, 21280), (77, 21226), (92, 21103),

Gene: Winzigespinne_30 Start: 21597, Stop: 20755, Start Num: 17

Candidate Starts for Winzigespinne_30:

(Start: 17 @21597 has 129 MA's), (35, 21483), (36, 21453), (54, 21264), (64, 21156), (70, 21105), (73, 21081), (77, 21027), (79, 21021), (92, 20904),

Gene: YuuY_29 Start: 21987, Stop: 21088, Start Num: 17

Candidate Starts for YuuY_29:

(Start: 17 @21987 has 129 MA's), (49, 21648), (57, 21618), (64, 21546), (72, 21477), (78, 21411), (79, 21408), (89, 21318),

Gene: Zada_31 Start: 21777, Stop: 20935, Start Num: 17

Candidate Starts for Zada_31:

(Start: 17 @21777 has 129 MA's), (35, 21663), (36, 21633), (54, 21444), (64, 21336), (70, 21285), (73, 21261), (77, 21207), (92, 21084),

Gene: Zenitsu_30 Start: 21862, Stop: 21011, Start Num: 17

Candidate Starts for Zenitsu_30:

(Start: 15 @21880 has 7 MA's), (Start: 17 @21862 has 129 MA's), (43, 21577), (49, 21523), (64, 21424), (70, 21376), (71, 21373), (72, 21355), (77, 21292), (79, 21286), (84, 21238), (89, 21196), (97, 21121), (107, 21058),

Gene: Zeta1847_49 Start: 35401, Stop: 36153, Start Num: 32

Candidate Starts for Zeta1847_49:

(Start: 32 @35401 has 1 MA's), (Start: 33 @35416 has 4 MA's), (66, 35752),