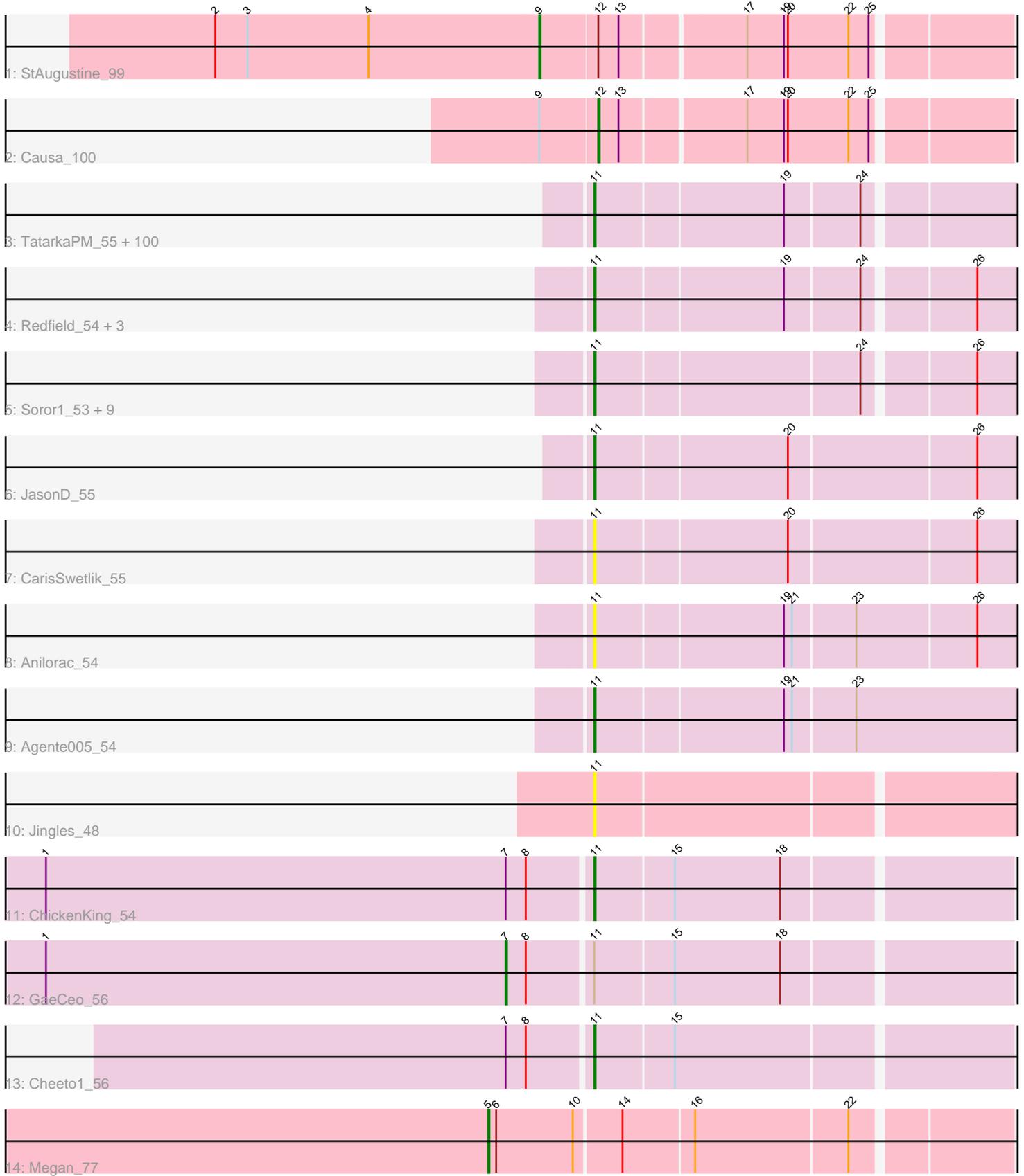


Pham 283607



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 283607 Report

This analysis was run 02/23/26 on database version 636.

Pham number 283607 has 126 members, 10 are drafts.

Phages represented in each track:

- Track 1 : StAugustine_99
- Track 2 : Causa_100
- Track 3 : TatarkaPM_55, Renzie_55, Den3_55, Vispistious_55, Duocatuli_54, Benjalauen_55, Ioannes_55, PhredFlintston_55, Thompsone_55, AranulaLuti_54, TinSulphur_56, BonesMcCoy_55, Erla_54, Kouch_55, Inventa_55, Dothraki_55, Stanktossa_54, Aubergine_54, Exploradora_54, Garey24_55, Bonino_54, Chamuel_54, Greys_55, KellyGreen_56, Thorongil_55, Asta_54, SonOfLevi_55, Strathdee_55, Nattles_54, ManRay_54, StirfryIV_54, Winzigespinne_54, TeddyBear_54, Gershwin_54, BeautPeep30_55, Peep_55, Superfresh_55, BigRedClifford_55, JeriBeth_56, Velene_55, AxiPup_55, Oxtober96_56, Phireproof_55, Symere_54, Espinosa_54, Convict_55, MillyPhilly_55, Raptor_55, HungryHenry_54, Dave_55, Papafritta_54, Calix_54, Robinson_55, Rog141_54, RosieMae_54, WildNOut_55, Rapheph_55, HanSolo_54, Sedgewig_54, Antoinette_55, Ilzat_54, Gelo_54, Klimt_55, Knox_55, KannH_54, Janus167_54, Clancy_54, Oats_54, GoingMerry_56, Lovelyunicorn_55, Pocket_54, Teagan_55, Byron23_56, ParleG_55, Pherferi_55, Zada_56, Figueroism_55, Gargoyle_55, Phiderman_55, Christoph_54, MrWorldwide_55, Blage_55, AlexAdler_55, ShaiHulud_55, Etta_54, Shee_55, HankSprout_55, PuppyEggo_55, JasperRussell_54, Gubbabump_54, CoraRita_56, StingRay_54, Kurt1_55, Riyhil_55, NickSell_55, Tenda_54, Martin_56, Jerbirus_56, Ludgate_55, Kale_54, Chako_54
- Track 4 : Redfield_54, Etna_54, MonChoix_52, BeeBee8_55
- Track 5 : Soror1_53, Leafus_54, KingJulien_53, Raccoon_54, Balsa_53, Stormbreaker8_53, Hamlet_54, Schnapsidee_54, PhillyPhantom_54, Peppino_54
- Track 6 : JasonD_55
- Track 7 : CarisSwetlik_55
- Track 8 : Anilorac_54
- Track 9 : Agente005_54
- Track 10 : Jingles_48
- Track 11 : ChickenKing_54
- Track 12 : GaeCeo_56
- Track 13 : Cheeto1_56
- Track 14 : Megan_77

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

The start number called the most often in the published annotations is 11, it was called in 112 of the 116 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Agente005_54, AlexAdler_55, Anilorac_54, Antoinette_55, AranulaLuti_54, Asta_54, Aubergine_54, AxiPup_55, Balsa_53, BeautPeep30_55, BeeBee8_55, Benjalauren_55, BigRedClifford_55, Blage_55, BonesMcCoy_55, Bonino_54, Byron23_56, Calix_54, CarisSwetlik_55, Chako_54, Chamuel_54, Cheeto1_56, ChickenKing_54, Christoph_54, Clancy_54, Convict_55, CoraRita_56, Dave_55, Den3_55, Dothraki_55, Duocatuli_54, Erla_54, Espinosa_54, Etna_54, Etta_54, Exploradora_54, Figueroism_55, Garey24_55, Gargoyle_55, Gelo_54, Gershwin_54, GoingMerry_56, Greys_55, Gubbabump_54, Hamlet_54, HanSolo_54, HankSprout_55, HungryHenry_54, Ilzat_54, Inventa_55, Ioannes_55, Janus167_54, JasonD_55, JasperRussell_54, Jerbirus_56, JeriBeth_56, Jingles_48, Kale_54, KannH_54, KellyGreen_56, KingJulien_53, Klimt_55, Knox_55, Kouch_55, Kurt1_55, Leafus_54, Lovelyunicorn_55, Ludgate_55, ManRay_54, Martin_56, MillyPhilly_55, MonChoix_52, MrWorldwide_55, Nattles_54, NickSell_55, Oats_54, Oxtober96_56, Papafritta_54, ParleG_55, Peep_55, Peppino_54, Pherferi_55, Phiderman_55, PhillyPhantom_54, Phireproof_55, PhredFlintston_55, Pocket_54, PuppyEggo_55, Raccoon_54, Rapheph_55, Raptor_55, Redfield_54, Renzie_55, Riyhil_55, Robinson_55, Rog141_54, RosieMae_54, Schnapsidee_54, Sedgewig_54, ShaiHulud_55, Shee_55, SonOfLevi_55, Soror1_53, Stanktossa_54, StingRay_54, StirfryIV_54, Stormbreaker8_53, Strathdee_55, Superfresh_55, Symere_54, TatarkaPM_55, Teagan_55, TeddyBear_54, Tenda_54, Thompsone_55, Thorongil_55, TinSulphur_56, Velene_55, Vispistious_55, WildNOOut_55, Winzigespinne_54, Zada_56,

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

- GaeCeo_56,

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

- Causa_100, Megan_77, StAugustine_99,

Summary by start number:

Start 5:

- Found in 1 of 126 (0.8%) of genes in pham
- Manual Annotations of this start: 1 of 116
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Megan_77 (EC),

Start 7:

- Found in 3 of 126 (2.4%) of genes in pham
- Manual Annotations of this start: 1 of 116
- Called 33.3% of time when present
- Phage (with cluster) where this start called: GaeCeo_56 (EA9),

Start 9:

- Found in 2 of 126 (1.6%) of genes in pham
- Manual Annotations of this start: 1 of 116
- Called 50.0% of time when present
- Phage (with cluster) where this start called: StAugustine_99 (AI),

Start 11:

- Found in 123 of 126 (97.6%) of genes in pham
- Manual Annotations of this start: 112 of 116
- Called 99.2% of time when present
- Phage (with cluster) where this start called: Agente005_54 (EA1), AlexAdler_55 (EA1), Anilorac_54 (EA1), Antoinette_55 (EA1), AranulaLuti_54 (EA1), Asta_54 (EA1), Aubergine_54 (EA1), AxiPup_55 (EA1), Balsa_53 (EA1), BeautPeep30_55 (EA1), BeeBee8_55 (EA1), Benjalauen_55 (EA1), BigRedClifford_55 (EA1), Blage_55 (EA1), BonesMcCoy_55 (EA1), Bonino_54 (EA1), Byron23_56 (EA1), Calix_54 (EA1), CarisSwetlik_55 (EA1), Chako_54 (EA1), Chamuel_54 (EA1), Cheeto1_56 (EA9), ChickenKing_54 (EA9), Christoph_54 (EA1), Clancy_54 (EA1), Convict_55 (EA1), CoraRita_56 (EA1), Dave_55 (EA1), Den3_55 (EA1), Dothraki_55 (EA1), Duocatuli_54 (EA1), Erla_54 (EA1), Espinosa_54 (EA1), Etna_54 (EA1), Etta_54 (EA1), Exploradora_54 (EA1), Figueroism_55 (EA1), Garey24_55 (EA1), Gargoyle_55 (EA1), Gelo_54 (EA1), Gershwin_54 (EA1), GoingMerry_56 (EA1), Greys_55 (EA1), Gubbabump_54 (EA1), Hamlet_54 (EA1), HanSolo_54 (EA1), HankSprout_55 (EA1), HungryHenry_54 (EA1), Ilzat_54 (EA1), Inventa_55 (EA1), Ioannes_55 (EA1), Janus167_54 (EA1), JasonD_55 (EA1), JasperRussell_54 (EA1), Jerbirus_56 (EA1), JeriBeth_56 (EA1), Jingles_48 (EA4), Kale_54 (EA1), KannH_54 (EA1), KellyGreen_56 (EA1), KingJulien_53 (EA1), Klimt_55 (EA1), Knox_55 (EA1), Kouch_55 (EA1), Kurt1_55 (EA1), Leafus_54 (EA1), Lovelyunicorn_55 (EA1), Ludgate_55 (EA1), ManRay_54 (EA1), Martin_56 (EA1), MillyPhilly_55 (EA1), MonChoix_52 (EA1), MrWorldwide_55 (EA1), Nattles_54 (EA1), NickSell_55 (EA1), Oats_54 (EA1), Oxtober96_56 (EA1), Papafritta_54 (EA1), ParleG_55 (EA1), Peep_55 (EA1), Peppino_54 (EA1), Pherferi_55 (EA1), Phiderman_55 (EA1), PhillyPhantom_54 (EA1), Phireproof_55 (EA1), PhredFlintston_55 (EA1), Pocket_54 (EA1), PuppyEggo_55 (EA1), Raccoon_54 (EA1), Rapheph_55 (EA1), Raptor_55 (EA1), Redfield_54 (EA1), Renzie_55 (EA1), Riyhil_55 (EA1), Robinson_55 (EA1), Rog141_54 (EA1), RosieMae_54 (EA1), Schnapsidee_54 (EA1), Sedgewig_54 (EA1), ShaiHulud_55 (EA1), Shee_55 (EA1), SonOfLevi_55 (EA1), Soror1_53 (EA1), Stanktossa_54 (EA1), StingRay_54 (EA1), StirfryIV_54 (EA1), Stormbreaker8_53 (EA1), Strathdee_55 (EA1), Superfresh_55 (EA1), Symere_54 (EA1), TatarkaPM_55 (EA1), Teagan_55 (EA1), TeddyBear_54 (EA1), Tenda_54 (EA1), Thompsone_55 (EA1), Thorongil_55 (EA1), TinSulphur_56 (EA1), Velene_55 (EA1), Vispistious_55 (EA1), WildNOut_55 (EA1), Winzigespinne_54 (EA1), Zada_56 (EA1),

Start 12:

- Found in 2 of 126 (1.6%) of genes in pham
- Manual Annotations of this start: 1 of 116
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Causa_100 (AI),

Summary by clusters:

There are 5 clusters represented in this pham: EA1, EA9, AI, EA4, EC,

Info for manual annotations of cluster AI:

- Start number 9 was manually annotated 1 time for cluster AI.
- Start number 12 was manually annotated 1 time for cluster AI.

Info for manual annotations of cluster EA1:

- Start number 11 was manually annotated 110 times for cluster EA1.

Info for manual annotations of cluster EA9:

- Start number 7 was manually annotated 1 time for cluster EA9.
- Start number 11 was manually annotated 2 times for cluster EA9.

Info for manual annotations of cluster EC:

- Start number 5 was manually annotated 1 time for cluster EC.

Gene Information:

Gene: Agente005_54 Start: 37813, Stop: 37499, Start Num: 11

Candidate Starts for Agente005_54:

(Start: 11 @37813 has 112 MA's), (19, 37678), (21, 37672), (23, 37627),

Gene: AlexAdler_55 Start: 38033, Stop: 37737, Start Num: 11

Candidate Starts for AlexAdler_55:

(Start: 11 @38033 has 112 MA's), (19, 37898), (24, 37844),

Gene: Anilorac_54 Start: 37720, Stop: 37409, Start Num: 11

Candidate Starts for Anilorac_54:

(Start: 11 @37720 has 112 MA's), (19, 37585), (21, 37579), (23, 37534), (26, 37447),

Gene: Antoinette_55 Start: 38058, Stop: 37762, Start Num: 11

Candidate Starts for Antoinette_55:

(Start: 11 @38058 has 112 MA's), (19, 37923), (24, 37869),

Gene: AranulaLuti_54 Start: 37751, Stop: 37449, Start Num: 11

Candidate Starts for AranulaLuti_54:

(Start: 11 @37751 has 112 MA's), (19, 37616), (24, 37562),

Gene: Asta_54 Start: 37755, Stop: 37459, Start Num: 11

Candidate Starts for Asta_54:

(Start: 11 @37755 has 112 MA's), (19, 37620), (24, 37566),

Gene: Aubergine_54 Start: 37755, Stop: 37459, Start Num: 11

Candidate Starts for Aubergine_54:

(Start: 11 @37755 has 112 MA's), (19, 37620), (24, 37566),

Gene: AxiPup_55 Start: 37970, Stop: 37674, Start Num: 11

Candidate Starts for AxiPup_55:

(Start: 11 @37970 has 112 MA's), (19, 37835), (24, 37781),

Gene: Balsa_53 Start: 37838, Stop: 37536, Start Num: 11

Candidate Starts for Balsa_53:

(Start: 11 @37838 has 112 MA's), (24, 37649), (26, 37574),

Gene: BeautPeep30_55 Start: 38008, Stop: 37706, Start Num: 11

Candidate Starts for BeautPeep30_55:

(Start: 11 @38008 has 112 MA's), (19, 37873), (24, 37819),

Gene: BeeBee8_55 Start: 38012, Stop: 37710, Start Num: 11
Candidate Starts for BeeBee8_55:
(Start: 11 @38012 has 112 MA's), (19, 37877), (24, 37823), (26, 37748),

Gene: Benjalauren_55 Start: 37761, Stop: 37465, Start Num: 11
Candidate Starts for Benjalauren_55:
(Start: 11 @37761 has 112 MA's), (19, 37626), (24, 37572),

Gene: BigRedClifford_55 Start: 37997, Stop: 37701, Start Num: 11
Candidate Starts for BigRedClifford_55:
(Start: 11 @37997 has 112 MA's), (19, 37862), (24, 37808),

Gene: Blage_55 Start: 37997, Stop: 37701, Start Num: 11
Candidate Starts for Blage_55:
(Start: 11 @37997 has 112 MA's), (19, 37862), (24, 37808),

Gene: BonesMcCoy_55 Start: 37997, Stop: 37701, Start Num: 11
Candidate Starts for BonesMcCoy_55:
(Start: 11 @37997 has 112 MA's), (19, 37862), (24, 37808),

Gene: Bonino_54 Start: 37734, Stop: 37438, Start Num: 11
Candidate Starts for Bonino_54:
(Start: 11 @37734 has 112 MA's), (19, 37599), (24, 37545),

Gene: Byron23_56 Start: 38005, Stop: 37703, Start Num: 11
Candidate Starts for Byron23_56:
(Start: 11 @38005 has 112 MA's), (19, 37870), (24, 37816),

Gene: Calix_54 Start: 37741, Stop: 37445, Start Num: 11
Candidate Starts for Calix_54:
(Start: 11 @37741 has 112 MA's), (19, 37606), (24, 37552),

Gene: CarisSwetlik_55 Start: 37811, Stop: 37500, Start Num: 11
Candidate Starts for CarisSwetlik_55:
(Start: 11 @37811 has 112 MA's), (20, 37673), (26, 37538),

Gene: Causa_100 Start: 71095, Stop: 70808, Start Num: 12
Candidate Starts for Causa_100:
(Start: 9 @71137 has 1 MA's), (Start: 12 @71095 has 1 MA's), (13, 71080), (17, 70993), (19, 70966),
(20, 70963), (22, 70918), (25, 70903),

Gene: Chako_54 Start: 37751, Stop: 37449, Start Num: 11
Candidate Starts for Chako_54:
(Start: 11 @37751 has 112 MA's), (19, 37616), (24, 37562),

Gene: Chamuel_54 Start: 37767, Stop: 37471, Start Num: 11
Candidate Starts for Chamuel_54:
(Start: 11 @37767 has 112 MA's), (19, 37632), (24, 37578),

Gene: Cheeto1_56 Start: 38137, Stop: 37841, Start Num: 11
Candidate Starts for Cheeto1_56:
(Start: 7 @38197 has 1 MA's), (8, 38182), (Start: 11 @38137 has 112 MA's), (15, 38080),

Gene: ChickenKing_54 Start: 38291, Stop: 37995, Start Num: 11
Candidate Starts for ChickenKing_54:
(1, 38693), (Start: 7 @38351 has 1 MA's), (8, 38336), (Start: 11 @38291 has 112 MA's), (15, 38234),
(18, 38156),

Gene: Christoph_54 Start: 37754, Stop: 37458, Start Num: 11
Candidate Starts for Christoph_54:
(Start: 11 @37754 has 112 MA's), (19, 37619), (24, 37565),

Gene: Clancy_54 Start: 37754, Stop: 37452, Start Num: 11
Candidate Starts for Clancy_54:
(Start: 11 @37754 has 112 MA's), (19, 37619), (24, 37565),

Gene: Convict_55 Start: 37997, Stop: 37701, Start Num: 11
Candidate Starts for Convict_55:
(Start: 11 @37997 has 112 MA's), (19, 37862), (24, 37808),

Gene: CoraRita_56 Start: 37724, Stop: 37422, Start Num: 11
Candidate Starts for CoraRita_56:
(Start: 11 @37724 has 112 MA's), (19, 37589), (24, 37535),

Gene: Dave_55 Start: 38058, Stop: 37762, Start Num: 11
Candidate Starts for Dave_55:
(Start: 11 @38058 has 112 MA's), (19, 37923), (24, 37869),

Gene: Den3_55 Start: 38002, Stop: 37706, Start Num: 11
Candidate Starts for Den3_55:
(Start: 11 @38002 has 112 MA's), (19, 37867), (24, 37813),

Gene: Dothraki_55 Start: 38005, Stop: 37703, Start Num: 11
Candidate Starts for Dothraki_55:
(Start: 11 @38005 has 112 MA's), (19, 37870), (24, 37816),

Gene: Duocatuli_54 Start: 37751, Stop: 37449, Start Num: 11
Candidate Starts for Duocatuli_54:
(Start: 11 @37751 has 112 MA's), (19, 37616), (24, 37562),

Gene: Erla_54 Start: 37738, Stop: 37442, Start Num: 11
Candidate Starts for Erla_54:
(Start: 11 @37738 has 112 MA's), (19, 37603), (24, 37549),

Gene: Espinosa_54 Start: 37753, Stop: 37457, Start Num: 11
Candidate Starts for Espinosa_54:
(Start: 11 @37753 has 112 MA's), (19, 37618), (24, 37564),

Gene: Etna_54 Start: 37891, Stop: 37589, Start Num: 11
Candidate Starts for Etna_54:
(Start: 11 @37891 has 112 MA's), (19, 37756), (24, 37702), (26, 37627),

Gene: Etta_54 Start: 37742, Stop: 37446, Start Num: 11
Candidate Starts for Etta_54:
(Start: 11 @37742 has 112 MA's), (19, 37607), (24, 37553),

Gene: Exploradora_54 Start: 37703, Stop: 37407, Start Num: 11
Candidate Starts for Exploradora_54:
(Start: 11 @37703 has 112 MA's), (19, 37568), (24, 37514),

Gene: Figueroism_55 Start: 37998, Stop: 37696, Start Num: 11
Candidate Starts for Figueroism_55:
(Start: 11 @37998 has 112 MA's), (19, 37863), (24, 37809),

Gene: GaeCeo_56 Start: 38584, Stop: 38228, Start Num: 7
Candidate Starts for GaeCeo_56:
(1, 38926), (Start: 7 @38584 has 1 MA's), (8, 38569), (Start: 11 @38524 has 112 MA's), (15, 38467),
(18, 38389),

Gene: Garey24_55 Start: 37721, Stop: 37425, Start Num: 11
Candidate Starts for Garey24_55:
(Start: 11 @37721 has 112 MA's), (19, 37586), (24, 37532),

Gene: Gargoyle_55 Start: 38002, Stop: 37706, Start Num: 11
Candidate Starts for Gargoyle_55:
(Start: 11 @38002 has 112 MA's), (19, 37867), (24, 37813),

Gene: Gelo_54 Start: 37748, Stop: 37452, Start Num: 11
Candidate Starts for Gelo_54:
(Start: 11 @37748 has 112 MA's), (19, 37613), (24, 37559),

Gene: Gershwin_54 Start: 37755, Stop: 37459, Start Num: 11
Candidate Starts for Gershwin_54:
(Start: 11 @37755 has 112 MA's), (19, 37620), (24, 37566),

Gene: GoingMerry_56 Start: 37980, Stop: 37684, Start Num: 11
Candidate Starts for GoingMerry_56:
(Start: 11 @37980 has 112 MA's), (19, 37845), (24, 37791),

Gene: Greys_55 Start: 37998, Stop: 37702, Start Num: 11
Candidate Starts for Greys_55:
(Start: 11 @37998 has 112 MA's), (19, 37863), (24, 37809),

Gene: Gubbabump_54 Start: 37693, Stop: 37397, Start Num: 11
Candidate Starts for Gubbabump_54:
(Start: 11 @37693 has 112 MA's), (19, 37558), (24, 37504),

Gene: Hamlet_54 Start: 37931, Stop: 37629, Start Num: 11
Candidate Starts for Hamlet_54:
(Start: 11 @37931 has 112 MA's), (24, 37742), (26, 37667),

Gene: HanSolo_54 Start: 37703, Stop: 37407, Start Num: 11
Candidate Starts for HanSolo_54:
(Start: 11 @37703 has 112 MA's), (19, 37568), (24, 37514),

Gene: HankSprout_55 Start: 37622, Stop: 37326, Start Num: 11
Candidate Starts for HankSprout_55:
(Start: 11 @37622 has 112 MA's), (19, 37487), (24, 37433),

Gene: HungryHenry_54 Start: 37715, Stop: 37413, Start Num: 11
Candidate Starts for HungryHenry_54:
(Start: 11 @37715 has 112 MA's), (19, 37580), (24, 37526),

Gene: Ilzat_54 Start: 37725, Stop: 37423, Start Num: 11
Candidate Starts for Ilzat_54:
(Start: 11 @37725 has 112 MA's), (19, 37590), (24, 37536),

Gene: Inventa_55 Start: 38002, Stop: 37700, Start Num: 11
Candidate Starts for Inventa_55:
(Start: 11 @38002 has 112 MA's), (19, 37867), (24, 37813),

Gene: loannes_55 Start: 38080, Stop: 37784, Start Num: 11
Candidate Starts for loannes_55:
(Start: 11 @38080 has 112 MA's), (19, 37945), (24, 37891),

Gene: Janus167_54 Start: 37730, Stop: 37434, Start Num: 11
Candidate Starts for Janus167_54:
(Start: 11 @37730 has 112 MA's), (19, 37595), (24, 37541),

Gene: JasonD_55 Start: 37644, Stop: 37333, Start Num: 11
Candidate Starts for JasonD_55:
(Start: 11 @37644 has 112 MA's), (20, 37506), (26, 37371),

Gene: JasperRussell_54 Start: 37751, Stop: 37449, Start Num: 11
Candidate Starts for JasperRussell_54:
(Start: 11 @37751 has 112 MA's), (19, 37616), (24, 37562),

Gene: Jerbirus_56 Start: 37745, Stop: 37449, Start Num: 11
Candidate Starts for Jerbirus_56:
(Start: 11 @37745 has 112 MA's), (19, 37610), (24, 37556),

Gene: JeriBeth_56 Start: 37633, Stop: 37337, Start Num: 11
Candidate Starts for JeriBeth_56:
(Start: 11 @37633 has 112 MA's), (19, 37498), (24, 37444),

Gene: Jingles_48 Start: 35268, Stop: 34969, Start Num: 11
Candidate Starts for Jingles_48:
(Start: 11 @35268 has 112 MA's),

Gene: Kale_54 Start: 37757, Stop: 37461, Start Num: 11
Candidate Starts for Kale_54:
(Start: 11 @37757 has 112 MA's), (19, 37622), (24, 37568),

Gene: KannH_54 Start: 37751, Stop: 37449, Start Num: 11
Candidate Starts for KannH_54:
(Start: 11 @37751 has 112 MA's), (19, 37616), (24, 37562),

Gene: KellyGreen_56 Start: 37739, Stop: 37443, Start Num: 11
Candidate Starts for KellyGreen_56:
(Start: 11 @37739 has 112 MA's), (19, 37604), (24, 37550),

Gene: KingJulien_53 Start: 37729, Stop: 37427, Start Num: 11

Candidate Starts for KingJulien_53:

(Start: 11 @37729 has 112 MA's), (24, 37540), (26, 37465),

Gene: Klimt_55 Start: 37773, Stop: 37477, Start Num: 11

Candidate Starts for Klimt_55:

(Start: 11 @37773 has 112 MA's), (19, 37638), (24, 37584),

Gene: Knox_55 Start: 37997, Stop: 37701, Start Num: 11

Candidate Starts for Knox_55:

(Start: 11 @37997 has 112 MA's), (19, 37862), (24, 37808),

Gene: Kouch_55 Start: 37703, Stop: 37407, Start Num: 11

Candidate Starts for Kouch_55:

(Start: 11 @37703 has 112 MA's), (19, 37568), (24, 37514),

Gene: Kurt1_55 Start: 38002, Stop: 37700, Start Num: 11

Candidate Starts for Kurt1_55:

(Start: 11 @38002 has 112 MA's), (19, 37867), (24, 37813),

Gene: Leafus_54 Start: 37994, Stop: 37692, Start Num: 11

Candidate Starts for Leafus_54:

(Start: 11 @37994 has 112 MA's), (24, 37805), (26, 37730),

Gene: Lovelyunicorn_55 Start: 37998, Stop: 37702, Start Num: 11

Candidate Starts for Lovelyunicorn_55:

(Start: 11 @37998 has 112 MA's), (19, 37863), (24, 37809),

Gene: Ludgate_55 Start: 37999, Stop: 37703, Start Num: 11

Candidate Starts for Ludgate_55:

(Start: 11 @37999 has 112 MA's), (19, 37864), (24, 37810),

Gene: ManRay_54 Start: 37755, Stop: 37459, Start Num: 11

Candidate Starts for ManRay_54:

(Start: 11 @37755 has 112 MA's), (19, 37620), (24, 37566),

Gene: Martin_56 Start: 38011, Stop: 37709, Start Num: 11

Candidate Starts for Martin_56:

(Start: 11 @38011 has 112 MA's), (19, 37876), (24, 37822),

Gene: Megan_77 Start: 50316, Stop: 50684, Start Num: 5

Candidate Starts for Megan_77:

(Start: 5 @50316 has 1 MA's), (6, 50322), (10, 50379), (14, 50412), (16, 50463), (22, 50574),

Gene: MillyPhilly_55 Start: 37999, Stop: 37697, Start Num: 11

Candidate Starts for MillyPhilly_55:

(Start: 11 @37999 has 112 MA's), (19, 37864), (24, 37810),

Gene: MonChoix_52 Start: 37644, Stop: 37339, Start Num: 11

Candidate Starts for MonChoix_52:

(Start: 11 @37644 has 112 MA's), (19, 37509), (24, 37455), (26, 37377),

Gene: MrWorldwide_55 Start: 38009, Stop: 37707, Start Num: 11

Candidate Starts for MrWorldwide_55:

(Start: 11 @38009 has 112 MA's), (19, 37874), (24, 37820),

Gene: Nattles_54 Start: 37742, Stop: 37446, Start Num: 11

Candidate Starts for Nattles_54:

(Start: 11 @37742 has 112 MA's), (19, 37607), (24, 37553),

Gene: NickSell_55 Start: 38012, Stop: 37710, Start Num: 11

Candidate Starts for NickSell_55:

(Start: 11 @38012 has 112 MA's), (19, 37877), (24, 37823),

Gene: Oats_54 Start: 37755, Stop: 37459, Start Num: 11

Candidate Starts for Oats_54:

(Start: 11 @37755 has 112 MA's), (19, 37620), (24, 37566),

Gene: Oxtober96_56 Start: 37998, Stop: 37702, Start Num: 11

Candidate Starts for Oxtober96_56:

(Start: 11 @37998 has 112 MA's), (19, 37863), (24, 37809),

Gene: Papafritta_54 Start: 37760, Stop: 37458, Start Num: 11

Candidate Starts for Papafritta_54:

(Start: 11 @37760 has 112 MA's), (19, 37625), (24, 37571),

Gene: ParleG_55 Start: 38009, Stop: 37707, Start Num: 11

Candidate Starts for ParleG_55:

(Start: 11 @38009 has 112 MA's), (19, 37874), (24, 37820),

Gene: Peep_55 Start: 38055, Stop: 37759, Start Num: 11

Candidate Starts for Peep_55:

(Start: 11 @38055 has 112 MA's), (19, 37920), (24, 37866),

Gene: Peppino_54 Start: 37824, Stop: 37522, Start Num: 11

Candidate Starts for Peppino_54:

(Start: 11 @37824 has 112 MA's), (24, 37635), (26, 37560),

Gene: Pherferi_55 Start: 38002, Stop: 37700, Start Num: 11

Candidate Starts for Pherferi_55:

(Start: 11 @38002 has 112 MA's), (19, 37867), (24, 37813),

Gene: Phiderman_55 Start: 37999, Stop: 37697, Start Num: 11

Candidate Starts for Phiderman_55:

(Start: 11 @37999 has 112 MA's), (19, 37864), (24, 37810),

Gene: PhillyPhantom_54 Start: 37825, Stop: 37523, Start Num: 11

Candidate Starts for PhillyPhantom_54:

(Start: 11 @37825 has 112 MA's), (24, 37636), (26, 37561),

Gene: Phireproof_55 Start: 38008, Stop: 37706, Start Num: 11

Candidate Starts for Phireproof_55:

(Start: 11 @38008 has 112 MA's), (19, 37873), (24, 37819),

Gene: PhredFlintston_55 Start: 38002, Stop: 37700, Start Num: 11

Candidate Starts for PhredFlintston_55:

(Start: 11 @38002 has 112 MA's), (19, 37867), (24, 37813),

Gene: Pocket_54 Start: 37782, Stop: 37486, Start Num: 11

Candidate Starts for Pocket_54:

(Start: 11 @37782 has 112 MA's), (19, 37647), (24, 37593),

Gene: PuppyEggo_55 Start: 38003, Stop: 37707, Start Num: 11

Candidate Starts for PuppyEggo_55:

(Start: 11 @38003 has 112 MA's), (19, 37868), (24, 37814),

Gene: Raccoon_54 Start: 37795, Stop: 37493, Start Num: 11

Candidate Starts for Raccoon_54:

(Start: 11 @37795 has 112 MA's), (24, 37606), (26, 37531),

Gene: Rapheph_55 Start: 38002, Stop: 37700, Start Num: 11

Candidate Starts for Rapheph_55:

(Start: 11 @38002 has 112 MA's), (19, 37867), (24, 37813),

Gene: Raptor_55 Start: 38000, Stop: 37704, Start Num: 11

Candidate Starts for Raptor_55:

(Start: 11 @38000 has 112 MA's), (19, 37865), (24, 37811),

Gene: Redfield_54 Start: 37837, Stop: 37535, Start Num: 11

Candidate Starts for Redfield_54:

(Start: 11 @37837 has 112 MA's), (19, 37702), (24, 37648), (26, 37573),

Gene: Renzie_55 Start: 38058, Stop: 37762, Start Num: 11

Candidate Starts for Renzie_55:

(Start: 11 @38058 has 112 MA's), (19, 37923), (24, 37869),

Gene: Riyhil_55 Start: 38012, Stop: 37710, Start Num: 11

Candidate Starts for Riyhil_55:

(Start: 11 @38012 has 112 MA's), (19, 37877), (24, 37823),

Gene: Robinson_55 Start: 38074, Stop: 37778, Start Num: 11

Candidate Starts for Robinson_55:

(Start: 11 @38074 has 112 MA's), (19, 37939), (24, 37885),

Gene: Rog141_54 Start: 37745, Stop: 37449, Start Num: 11

Candidate Starts for Rog141_54:

(Start: 11 @37745 has 112 MA's), (19, 37610), (24, 37556),

Gene: RosieMae_54 Start: 37806, Stop: 37504, Start Num: 11

Candidate Starts for RosieMae_54:

(Start: 11 @37806 has 112 MA's), (19, 37671), (24, 37617),

Gene: Schnapsidee_54 Start: 37869, Stop: 37567, Start Num: 11

Candidate Starts for Schnapsidee_54:

(Start: 11 @37869 has 112 MA's), (24, 37680), (26, 37605),

Gene: Sedgewig_54 Start: 37707, Stop: 37405, Start Num: 11

Candidate Starts for Sedgewig_54:

(Start: 11 @37707 has 112 MA's), (19, 37572), (24, 37518),

Gene: ShaiHulud_55 Start: 38012, Stop: 37716, Start Num: 11
Candidate Starts for ShaiHulud_55:
(Start: 11 @38012 has 112 MA's), (19, 37877), (24, 37823),

Gene: Shee_55 Start: 37999, Stop: 37697, Start Num: 11
Candidate Starts for Shee_55:
(Start: 11 @37999 has 112 MA's), (19, 37864), (24, 37810),

Gene: SonOfLevi_55 Start: 37773, Stop: 37477, Start Num: 11
Candidate Starts for SonOfLevi_55:
(Start: 11 @37773 has 112 MA's), (19, 37638), (24, 37584),

Gene: Soror1_53 Start: 37744, Stop: 37442, Start Num: 11
Candidate Starts for Soror1_53:
(Start: 11 @37744 has 112 MA's), (24, 37555), (26, 37480),

Gene: StAugustine_99 Start: 72844, Stop: 72515, Start Num: 9
Candidate Starts for StAugustine_99:
(2, 73084), (3, 73060), (4, 72970), (Start: 9 @72844 has 1 MA's), (Start: 12 @72802 has 1 MA's), (13, 72787), (17, 72700), (19, 72673), (20, 72670), (22, 72625), (25, 72610),

Gene: Stanktossa_54 Start: 38002, Stop: 37700, Start Num: 11
Candidate Starts for Stanktossa_54:
(Start: 11 @38002 has 112 MA's), (19, 37867), (24, 37813),

Gene: StingRay_54 Start: 37797, Stop: 37501, Start Num: 11
Candidate Starts for StingRay_54:
(Start: 11 @37797 has 112 MA's), (19, 37662), (24, 37608),

Gene: StirfryIV_54 Start: 37718, Stop: 37416, Start Num: 11
Candidate Starts for StirfryIV_54:
(Start: 11 @37718 has 112 MA's), (19, 37583), (24, 37529),

Gene: Stormbreaker8_53 Start: 37730, Stop: 37428, Start Num: 11
Candidate Starts for Stormbreaker8_53:
(Start: 11 @37730 has 112 MA's), (24, 37541), (26, 37466),

Gene: Strathdee_55 Start: 38002, Stop: 37706, Start Num: 11
Candidate Starts for Strathdee_55:
(Start: 11 @38002 has 112 MA's), (19, 37867), (24, 37813),

Gene: Superfresh_55 Start: 38058, Stop: 37762, Start Num: 11
Candidate Starts for Superfresh_55:
(Start: 11 @38058 has 112 MA's), (19, 37923), (24, 37869),

Gene: Symere_54 Start: 37717, Stop: 37415, Start Num: 11
Candidate Starts for Symere_54:
(Start: 11 @37717 has 112 MA's), (19, 37582), (24, 37528),

Gene: TatarkaPM_55 Start: 38012, Stop: 37710, Start Num: 11
Candidate Starts for TatarkaPM_55:
(Start: 11 @38012 has 112 MA's), (19, 37877), (24, 37823),

Gene: Teagan_55 Start: 37993, Stop: 37697, Start Num: 11
Candidate Starts for Teagan_55:
(Start: 11 @37993 has 112 MA's), (19, 37858), (24, 37804),

Gene: TeddyBear_54 Start: 37755, Stop: 37459, Start Num: 11
Candidate Starts for TeddyBear_54:
(Start: 11 @37755 has 112 MA's), (19, 37620), (24, 37566),

Gene: Tenda_54 Start: 37753, Stop: 37457, Start Num: 11
Candidate Starts for Tenda_54:
(Start: 11 @37753 has 112 MA's), (19, 37618), (24, 37564),

Gene: Thompsone_55 Start: 38000, Stop: 37704, Start Num: 11
Candidate Starts for Thompsone_55:
(Start: 11 @38000 has 112 MA's), (19, 37865), (24, 37811),

Gene: Thorongil_55 Start: 37517, Stop: 37221, Start Num: 11
Candidate Starts for Thorongil_55:
(Start: 11 @37517 has 112 MA's), (19, 37382), (24, 37328),

Gene: TinSulphur_56 Start: 38008, Stop: 37706, Start Num: 11
Candidate Starts for TinSulphur_56:
(Start: 11 @38008 has 112 MA's), (19, 37873), (24, 37819),

Gene: Velene_55 Start: 37998, Stop: 37702, Start Num: 11
Candidate Starts for Velene_55:
(Start: 11 @37998 has 112 MA's), (19, 37863), (24, 37809),

Gene: Vispistious_55 Start: 38003, Stop: 37707, Start Num: 11
Candidate Starts for Vispistious_55:
(Start: 11 @38003 has 112 MA's), (19, 37868), (24, 37814),

Gene: WildNOut_55 Start: 37996, Stop: 37700, Start Num: 11
Candidate Starts for WildNOut_55:
(Start: 11 @37996 has 112 MA's), (19, 37861), (24, 37807),

Gene: Winzigespinne_54 Start: 37741, Stop: 37445, Start Num: 11
Candidate Starts for Winzigespinne_54:
(Start: 11 @37741 has 112 MA's), (19, 37606), (24, 37552),

Gene: Zada_56 Start: 38015, Stop: 37719, Start Num: 11
Candidate Starts for Zada_56:
(Start: 11 @38015 has 112 MA's), (19, 37880), (24, 37826),