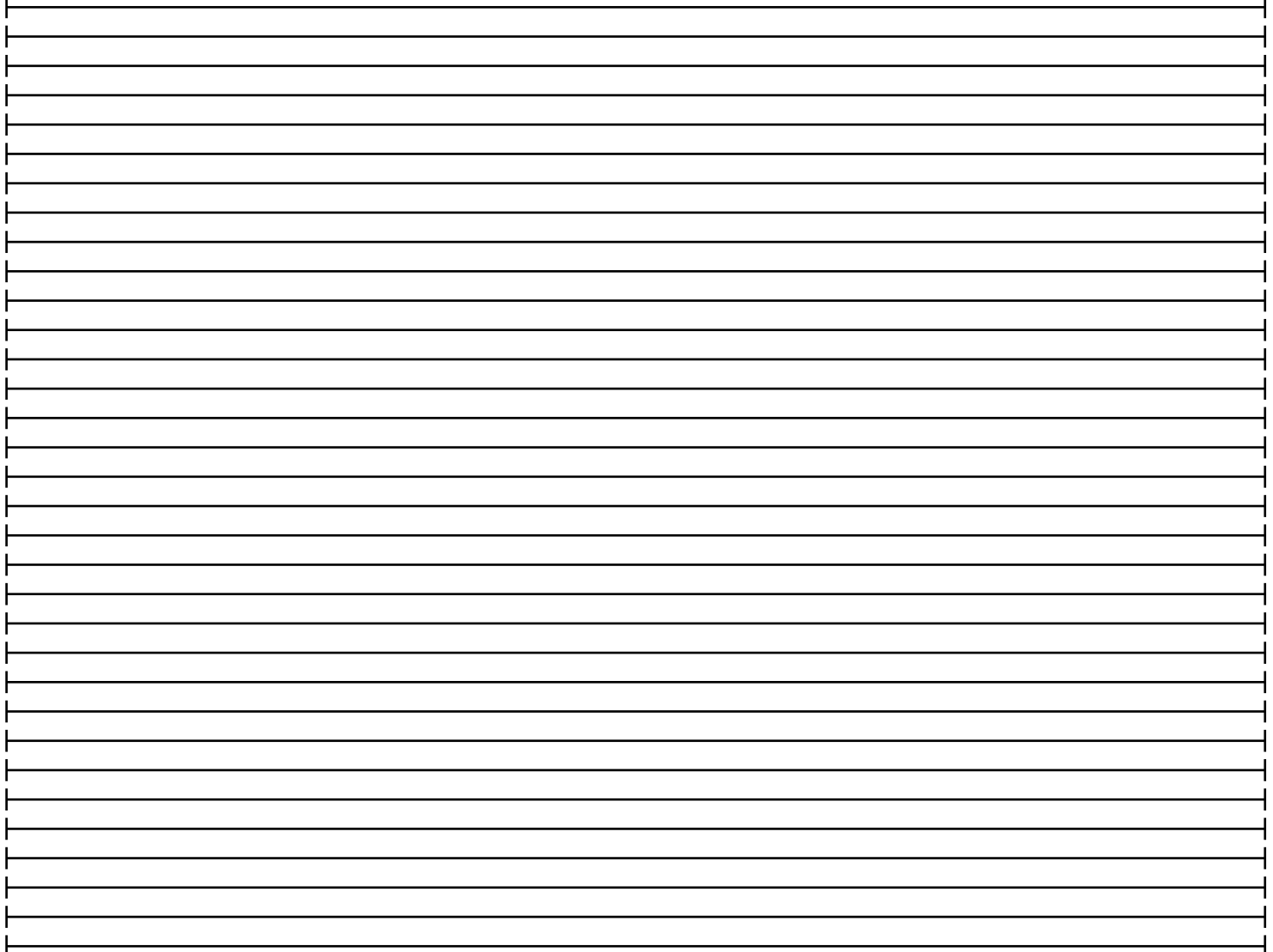
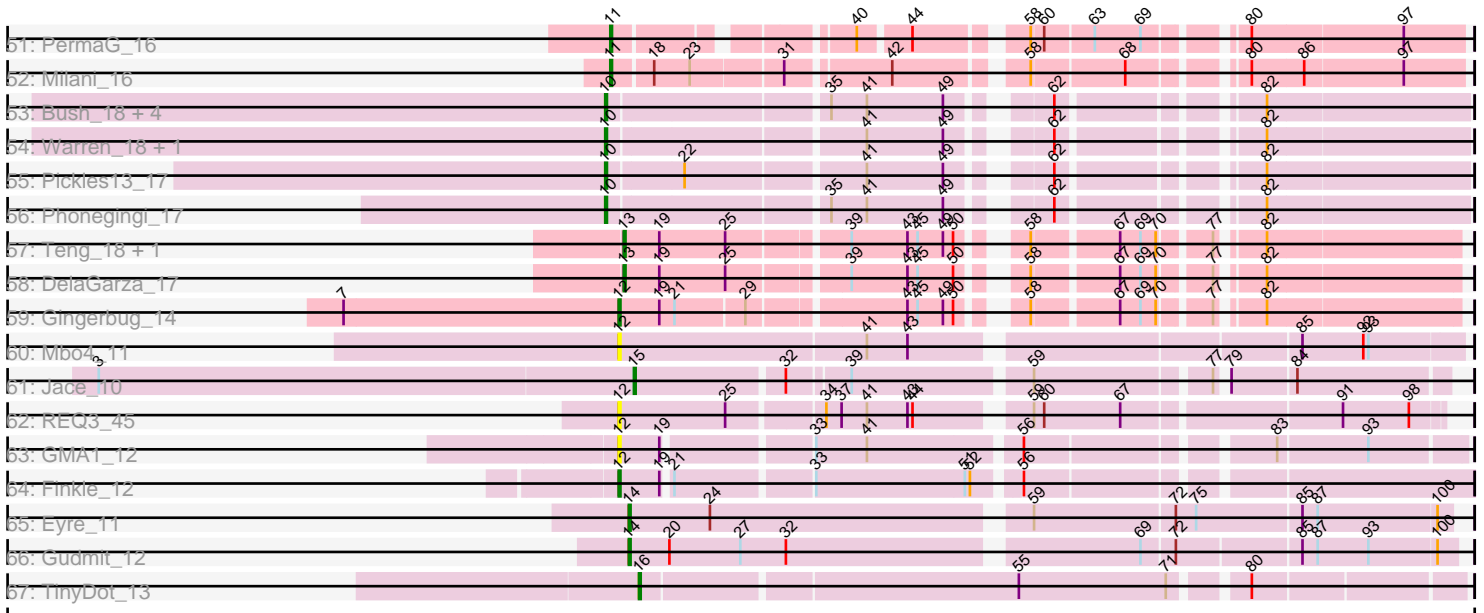


Pham 189541



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 189541 Report

This analysis was run 11/02/24 on database version 579.

WARNING: Pham size does not match number of genes in report. Either unphamerated genes have been added (by you) or starterator has removed genes due to invalid start codon.

Pham number 189541 has 146 members, 11 are drafts.

Phages represented in each track:

- Track 1 : Mojorita_12, Picard_12
- Track 2 : SoJo_12
- Track 3 : ToastyFinz_11
- Track 4 : SV1_12
- Track 5 : Darolandstone_12
- Track 6 : Raleigh_12
- Track 7 : PapayaSalad_12
- Track 8 : Ididsumtinwong_12, Austintatious_12, Bioscum_12
- Track 9 : HFrancette_13, Ignacio_13
- Track 10 : Vondra_13
- Track 11 : Eklok_13, AxeJC_13
- Track 12 : Eastland_13, Cumberbatch_13, Piccadilly_13
- Track 13 : Hiyaa_17
- Track 14 : Keanu_17
- Track 15 : Galactica_15
- Track 16 : Spocter_17
- Track 17 : Ohgeesy_11
- Track 18 : Pepperoni_11
- Track 19 : Bunnybear_11
- Track 20 : Zirinka_11, Mcklovin_12, Clark_12, PhriskyACE_11, Annalisa_12, WinkNick_12, Bialota_11, Oregano_12, Dolores_12, Dorito_11, Samman98_12
- Track 21 : Tayonia_11, BatStarr_11, TimTam_11, Hugley_11, Zameen_11, BaxterFox_11, Kita_11, Suscepit_11, Neobush_11, Bosnia_11, Antonio_11, Herod_11, Eviarto_11, Manasvini_11, Maridalia_11, Polly_11, AlumE_11, Eudoria_11, BoyNamedSue_11, Nymphadora_11, Trumpet_11
- Track 22 : Agueybana_11, Madeline_11
- Track 23 : WelcomeAyanna_11, ThankyouJordi_11
- Track 24 : Hyzer_11
- Track 25 : Mocha12_11, Gizermo_11, GemG_11, Whiteclaw_11, Haley23_11, TuertoX_11, Sproutie_11, Savage_11, Cynthia_11, JCole_11, Ebert_11, Clap_11
- Track 26 : EdnaMode_11, Lamberg_11, Nettuno_11
- Track 27 : Matteo_11, Attis_11, SoilAssassin_11, Bjanes7_11, Pickett_11, Yeet412_11, LordFarquaad_11

- Track 28 : Vasanti_11
- Track 29 : Sahara_11
- Track 30 : PantheRoc_11, Yeezy_11
- Track 31 : MichaelScott_12, Beenie_12
- Track 32 : Hortense_11, Howe_11, Twinkle_11, Adora_11, Shlim410_11
- Track 33 : Easley_12
- Track 34 : Sekhmet_12
- Track 35 : Thimann_12
- Track 36 : Powerball_11
- Track 37 : DobbysSock_11
- Track 38 : Suerte_11
- Track 39 : Denise_11, Lton_11
- Track 40 : Faith5x5_11
- Track 41 : Moosehead_11, OneDirection_11
- Track 42 : Sidious_11
- Track 43 : RavenCo17_11
- Track 44 : Johann_16, Goodman_16
- Track 45 : TurboVicky_15, Jera_16, SBlackberry_15, Typher_17, Zanella_15
- Track 46 : Sucha_12, Benry_15
- Track 47 : Htur_15, Rasovi_15
- Track 48 : IndiRoo_15
- Track 49 : FireCastle_15
- Track 50 : Cicada_17
- Track 51 : PermaG_16
- Track 52 : Milani_16
- Track 53 : Bush_18, MenE_18, Antuna_18, Blett_18, Dropshot_17
- Track 54 : Warren_18, Appa_17
- Track 55 : Pickles13_17
- Track 56 : Phonegingi_17
- Track 57 : Teng_18, Lesiram_17
- Track 58 : DelaGarza_17
- Track 59 : Gingerbug_14
- Track 60 : Mbo4_11
- Track 61 : Jace_10
- Track 62 : REQ3_45
- Track 63 : GMA1_12
- Track 64 : Finkle_12
- Track 65 : Eyre_11
- Track 66 : Gudmit_12
- Track 67 : TinyDot_13

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

The start number called the most often in the published annotations is 15, it was called in 52 of the 135 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Adora_11, Agueybana_11, AlumE_11, Annalisa_12, Antonio_11, BatStarr_11, BaxterFox_11, Beenie_12, Bialota_11, Bosnia_11, BoyNamedSue_11, Bunnybear_11, Clark_12, DobbysSock_11, Dolores_12, Dorito_11, Easley_12,

Eudoria_11, Eviarto_11, Herod_11, Hortense_11, Howe_11, Hugley_11, Hyzer_11, Jace_10, Kita_11, Madeline_11, Manasvini_11, Maridalia_11, Mcklovin_12, MichaelScott_12, Neobush_11, Nymphadora_11, Ohgeesy_11, Oregano_12, PantheRoc_11, PhriskyACE_11, Polly_11, Powerball_11, Samman98_12, Sekhmet_12, Shlim410_11, Sidious_11, Suerte_11, Suscepit_11, Tayonia_11, ThankyouJordi_11, Thimann_12, TimTam_11, Trumpet_11, Twinkle_11, WelcomeAyanna_11, WinkNick_12, Yeezy_11, Zameen_11, Zirinka_11,

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

-

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

- Antuna_18, Appa_17, Attis_11, Austintatious_12, AxeJC_13, Benry_15, Bioscum_12, Bjanes7_11, Blett_18, Bush_18, Cicada_17, Clap_11, Cumberbatch_13, Cynthia_11, Darolandstone_12, DelaGarza_17, Denise_11, Dropshot_17, Eastland_13, Ebert_11, EdnaMode_11, Eklok_13, Eyre_11, Faith5x5_11, Finkle_12, FireCastle_15, GMA1_12, Galactica_15, GemG_11, Gingerbug_14, Gizermo_11, Goodman_16, Gudmit_12, HFrancette_13, Haley23_11, Hiyaa_17, Htur_15, Ididsumtinwong_12, Ignacio_13, IndiRoo_15, JCole_11, Jera_16, Johann_16, Keanu_17, Lamberg_11, Lesiram_17, LordFarquaad_11, Lton_11, Matteo_11, Mbo4_11, MenE_18, Milani_16, Mocha12_11, Mojorita_12, Moosehead_11, Nettuno_11, OneDirection_11, PapayaSalad_12, Pepperoni_11, PermaG_16, Phonegingi_17, Picard_12, Piccadilly_13, Pickett_11, Pickles13_17, REQ3_45, Raleigh_12, Rasovi_15, RavenCo17_11, SBlackberry_15, SV1_12, Sahara_11, Savage_11, SoJo_12, SoilAssassin_11, Spocter_17, Sproutie_11, Sucha_12, Teng_18, TinyDot_13, ToastyFinz_11, TuertoX_11, TurboVicky_15, Typher_17, Vasanti_11, Vondra_13, Warren_18, Whiteclaw_11, Yeet412_11, Zanella_15,

Summary by start number:

Start 9:

- Found in 4 of 146 (2.7%) of genes in pham
- Manual Annotations of this start: 2 of 135
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Galactica_15 (BQ), Keanu_17 (BQ),

Start 10:

- Found in 11 of 146 (7.5%) of genes in pham
- Manual Annotations of this start: 11 of 135
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Antuna_18 (GA), Appa_17 (GA), Blett_18 (GA), Bush_18 (GA), Dropshot_17 (GA), Hiyaa_17 (BQ), MenE_18 (GA), Phonegingi_17 (GA), Pickles13_17 (GA), Spocter_17 (BQ), Warren_18 (GA),

Start 11:

- Found in 16 of 146 (11.0%) of genes in pham
- Manual Annotations of this start: 15 of 135
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Benry_15 (EJ), Cicada_17 (EJ), FireCastle_15 (EJ), Goodman_16 (EJ), Htur_15 (EJ), IndiRoo_15 (EJ), Jera_16 (EJ), Johann_16 (EJ), Milani_16 (EJ), PermaG_16 (EJ), Rasovi_15 (EJ), SBlackberry_15 (EJ), Sucha_12 (EJ), TurboVicky_15 (EJ), Typher_17 (EJ), Zanella_15 (EJ),

Start 12:

- Found in 5 of 146 (3.4%) of genes in pham
- Manual Annotations of this start: 2 of 135
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Finkle_12 (singleton), GMA1_12 (singleton), Gingerbug_14 (GF), Mbo4_11 (singleton), REQ3_45 (singleton),

Start 13:

- Found in 3 of 146 (2.1%) of genes in pham
- Manual Annotations of this start: 2 of 135
- Called 100.0% of time when present
- Phage (with cluster) where this start called: DelaGarza_17 (GF), Lesiram_17 (GF), Teng_18 (GF),

Start 14:

- Found in 33 of 146 (22.6%) of genes in pham
- Manual Annotations of this start: 31 of 135
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Attis_11 (CZ2), Bjanes7_11 (CZ2), Clap_11 (CZ2), Cynthia_11 (CZ2), Denise_11 (CZ5), Ebert_11 (CZ2), EdnaMode_11 (CZ2), Eyre_11 (singleton), Faith5x5_11 (CZ6), GemG_11 (CZ2), Gizermo_11 (CZ2), Gudmit_12 (singleton), Haley23_11 (CZ2), JCole_11 (CZ2), Lamberg_11 (CZ2), LordFarquaad_11 (CZ2), Lton_11 (CZ), Matteo_11 (CZ2), Mocha12_11 (CZ2), Moosehead_11 (CZ6), Nettuno_11 (CZ2), OneDirection_11 (CZ6), Pepperoni_11 (CZ), Pickett_11 (CZ2), RavenCo17_11 (CZ8), Sahara_11 (CZ2), Savage_11 (CZ2), SoilAssassin_11 (CZ2), Sproutie_11 (CZ2), TuertoX_11 (CZ2), Vasanti_11 (CZ2), Whiteclaw_11 (CZ2), Yeet412_11 (CZ2),

Start 15:

- Found in 56 of 146 (38.4%) of genes in pham
- Manual Annotations of this start: 52 of 135
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Adora_11 (CZ4), Agueybana_11 (CZ1), AlumE_11 (CZ1), Annalisa_12 (CZ4), Antonio_11 (CZ1), BatStarr_11 (CZ1), BaxterFox_11 (CZ3), Beenie_12 (CZ4), Bialota_11 (CZ1), Bosnia_11 (CZ1), BoyNamedSue_11 (CZ1), Bunnybear_11 (CZ), Clark_12 (CZ4), DobbysSock_11 (CZ4), Dolores_12 (CZ4), Dorito_11 (CZ4), Easley_12 (CZ4), Eudoria_11 (CZ1), Eviarto_11 (CZ1), Herod_11 (CZ1), Hortense_11 (CZ4), Howe_11 (CZ4), Hugley_11 (CZ1), Hyzer_11 (CZ1), Jace_10 (singleton), Kita_11 (CZ1), Madeline_11 (CZ1), Manasvini_11 (CZ1), Maridalia_11 (CZ1), Mcklovin_12 (CZ4), MichaelScott_12 (CZ4), Neobush_11 (CZ1), Nymphadora_11 (CZ1), Ohgeesy_11 (CZ), Oregano_12 (CZ4), PantheRoc_11 (CZ3), PhriskyACE_11 (CZ4), Polly_11 (CZ1), Powerball_11 (CZ4), Samman98_12 (CZ4), Sekhmet_12 (CZ4), Shlim410_11 (CZ4), Sidious_11 (CZ7), Suerte_11 (CZ4), Suscepit_11 (CZ1), Tayonia_11 (CZ1), ThankyouJordi_11 (CZ1), Thimann_12 (CZ4), TimTam_11 (CZ1), Trumpet_11 (CZ1), Twinkle_11 (CZ4), WelcomeAyanna_11 (CZ1), WinkNick_12 (CZ4), Yeezy_11 (CZ3), Zameen_11 (CZ1), Zirinka_11 (CZ1),

Start 16:

- Found in 11 of 146 (7.5%) of genes in pham
- Manual Annotations of this start: 9 of 135
- Called 81.8% of time when present

- Phage (with cluster) where this start called: AxeJC_13 (BP), Cumberbatch_13 (BP), Eastland_13 (BP), Eklok_13 (BP), HFrancette_13 (BP), Ignacio_13 (BP), Piccadilly_13 (BP), TinyDot_13 (singleton), Vondra_13 (BP),

Start 21:

- Found in 70 of 146 (47.9%) of genes in pham
- Manual Annotations of this start: 11 of 135
- Called 15.7% of time when present
- Phage (with cluster) where this start called: Austintatious_12 (BC3), Bioscum_12 (BC3), Darolandstone_12 (BC2), Ididsumtinwong_12 (BC3), Mojerita_12 (BC1), PapayaSalad_12 (BC3), Picard_12 (BC1), Raleigh_12 (BC2), SV1_12 (BC1), SoJo_12 (BC1), ToastyFinz_11 (BC1),

Summary by clusters:

There are 18 clusters represented in this pham: CZ8, EJ, CZ2, CZ3, CZ1, CZ6, singleton, CZ4, CZ7, GF, BP, BQ, GA, CZ, CZ5, BC1, BC2, BC3,

Info for manual annotations of cluster BC1:

- Start number 21 was manually annotated 5 times for cluster BC1.

Info for manual annotations of cluster BC2:

- Start number 21 was manually annotated 2 times for cluster BC2.

Info for manual annotations of cluster BC3:

- Start number 21 was manually annotated 4 times for cluster BC3.

Info for manual annotations of cluster BP:

- Start number 16 was manually annotated 8 times for cluster BP.

Info for manual annotations of cluster BQ:

- Start number 9 was manually annotated 2 times for cluster BQ.
- Start number 10 was manually annotated 2 times for cluster BQ.

Info for manual annotations of cluster CZ:

- Start number 14 was manually annotated 1 time for cluster CZ.
- Start number 15 was manually annotated 2 times for cluster CZ.

Info for manual annotations of cluster CZ1:

- Start number 15 was manually annotated 25 times for cluster CZ1.

Info for manual annotations of cluster CZ2:

- Start number 14 was manually annotated 23 times for cluster CZ2.

Info for manual annotations of cluster CZ3:

- Start number 15 was manually annotated 3 times for cluster CZ3.

Info for manual annotations of cluster CZ4:

- Start number 15 was manually annotated 20 times for cluster CZ4.

Info for manual annotations of cluster CZ5:

- Start number 14 was manually annotated 1 time for cluster CZ5.

Info for manual annotations of cluster CZ6:

- Start number 14 was manually annotated 3 times for cluster CZ6.

Info for manual annotations of cluster CZ7:

- Start number 15 was manually annotated 1 time for cluster CZ7.

Info for manual annotations of cluster CZ8:

- Start number 14 was manually annotated 1 time for cluster CZ8.

Info for manual annotations of cluster EJ:

- Start number 11 was manually annotated 15 times for cluster EJ.

Info for manual annotations of cluster GA:

- Start number 10 was manually annotated 9 times for cluster GA.

Info for manual annotations of cluster GF:

- Start number 12 was manually annotated 1 time for cluster GF.
- Start number 13 was manually annotated 2 times for cluster GF.

Gene Information:

Gene: Adora_11 Start: 7377, Stop: 7817, Start Num: 15

Candidate Starts for Adora_11:

(Start: 15 @7377 has 52 MA's), (Start: 21 @7401 has 11 MA's), (37, 7491), (39, 7497), (59, 7596), (70, 7668), (80, 7707), (83, 7722),

Gene: Agueybana_11 Start: 8036, Stop: 8476, Start Num: 15

Candidate Starts for Agueybana_11:

(Start: 15 @8036 has 52 MA's), (Start: 21 @8060 has 11 MA's), (37, 8150), (51, 8222), (59, 8255), (80, 8366), (83, 8381),

Gene: AlumE_11 Start: 8035, Stop: 8475, Start Num: 15

Candidate Starts for AlumE_11:

(Start: 15 @8035 has 52 MA's), (Start: 21 @8059 has 11 MA's), (51, 8221), (59, 8254), (80, 8365), (83, 8380),

Gene: Annalisa_12 Start: 7684, Stop: 8124, Start Num: 15

Candidate Starts for Annalisa_12:

(Start: 15 @7684 has 52 MA's), (Start: 21 @7708 has 11 MA's), (37, 7798), (39, 7804), (51, 7870), (59, 7903), (80, 8014), (83, 8029),

Gene: Antonio_11 Start: 8035, Stop: 8475, Start Num: 15

Candidate Starts for Antonio_11:

(Start: 15 @8035 has 52 MA's), (Start: 21 @8059 has 11 MA's), (51, 8221), (59, 8254), (80, 8365), (83, 8380),

Gene: Antuna_18 Start: 9659, Stop: 10102, Start Num: 10

Candidate Starts for Antuna_18:

(Start: 10 @9659 has 11 MA's), (35, 9779), (41, 9800), (49, 9845), (62, 9887), (82, 9986),

Gene: Appa_17 Start: 9521, Stop: 9964, Start Num: 10

Candidate Starts for Appa_17:

(Start: 10 @9521 has 11 MA's), (41, 9662), (49, 9707), (62, 9749), (82, 9848),

Gene: Attis_11 Start: 7161, Stop: 7622, Start Num: 14

Candidate Starts for Attis_11:

(Start: 14 @7161 has 31 MA's), (20, 7185), (23, 7197), (24, 7209), (32, 7254), (59, 7386), (60, 7392), (71, 7461), (78, 7494), (85, 7536), (93, 7575),

Gene: Austintatious_12 Start: 8176, Stop: 8589, Start Num: 21

Candidate Starts for Austintatious_12:

(Start: 21 @8176 has 11 MA's), (41, 8275), (43, 8299), (89, 8512),

Gene: AxeJC_13 Start: 8325, Stop: 8759, Start Num: 16

Candidate Starts for AxeJC_13:

(1, 8001), (Start: 16 @8325 has 9 MA's), (38, 8436), (41, 8448), (60, 8535), (62, 8541), (69, 8589), (80, 8634), (83, 8649), (92, 8697), (94, 8703),

Gene: BatStarr_11 Start: 8035, Stop: 8475, Start Num: 15

Candidate Starts for BatStarr_11:

(Start: 15 @8035 has 52 MA's), (Start: 21 @8059 has 11 MA's), (51, 8221), (59, 8254), (80, 8365), (83, 8380),

Gene: BaxterFox_11 Start: 7383, Stop: 7823, Start Num: 15

Candidate Starts for BaxterFox_11:

(Start: 15 @7383 has 52 MA's), (Start: 21 @7407 has 11 MA's), (51, 7569), (59, 7602), (80, 7713), (83, 7728),

Gene: Beenie_12 Start: 7677, Stop: 8117, Start Num: 15

Candidate Starts for Beenie_12:

(Start: 15 @7677 has 52 MA's), (20, 7698), (Start: 21 @7701 has 11 MA's), (37, 7791), (39, 7797), (51, 7863), (59, 7896), (80, 8007), (83, 8022),

Gene: Benry_15 Start: 9762, Stop: 10202, Start Num: 11

Candidate Starts for Benry_15:

(Start: 11 @9762 has 15 MA's), (Start: 16 @9774 has 9 MA's), (20, 9792), (30, 9837), (31, 9855), (42, 9909), (58, 9975), (68, 10026), (80, 10080), (86, 10110), (97, 10167),

Gene: Bialota_11 Start: 8035, Stop: 8475, Start Num: 15

Candidate Starts for Bialota_11:

(Start: 15 @8035 has 52 MA's), (Start: 21 @8059 has 11 MA's), (37, 8149), (39, 8155), (51, 8221), (59, 8254), (80, 8365), (83, 8380),

Gene: Bioscum_12 Start: 8212, Stop: 8625, Start Num: 21

Candidate Starts for Bioscum_12:

(Start: 21 @8212 has 11 MA's), (41, 8311), (43, 8335), (89, 8548),

Gene: Bjaner7_11 Start: 7161, Stop: 7622, Start Num: 14

Candidate Starts for Bjaner7_11:

(Start: 14 @7161 has 31 MA's), (20, 7185), (23, 7197), (24, 7209), (32, 7254), (59, 7386), (60, 7392), (71, 7461), (78, 7494), (85, 7536), (93, 7575),

Gene: Blett_18 Start: 9674, Stop: 10117, Start Num: 10

Candidate Starts for Blett_18:

(Start: 10 @9674 has 11 MA's), (35, 9794), (41, 9815), (49, 9860), (62, 9902), (82, 10001),

Gene: Bosnia_11 Start: 8035, Stop: 8475, Start Num: 15

Candidate Starts for Bosnia_11:

(Start: 15 @8035 has 52 MA's), (Start: 21 @8059 has 11 MA's), (51, 8221), (59, 8254), (80, 8365), (83, 8380),

Gene: BoyNamedSue_11 Start: 8035, Stop: 8475, Start Num: 15

Candidate Starts for BoyNamedSue_11:

(Start: 15 @8035 has 52 MA's), (Start: 21 @8059 has 11 MA's), (51, 8221), (59, 8254), (80, 8365), (83, 8380),

Gene: Bunnybear_11 Start: 8026, Stop: 8466, Start Num: 15

Candidate Starts for Bunnybear_11:

(2, 7693), (5, 7750), (Start: 15 @8026 has 52 MA's), (Start: 21 @8050 has 11 MA's), (51, 8212), (59, 8245), (80, 8356), (83, 8371),

Gene: Bush_18 Start: 9655, Stop: 10098, Start Num: 10

Candidate Starts for Bush_18:

(Start: 10 @9655 has 11 MA's), (35, 9775), (41, 9796), (49, 9841), (62, 9883), (82, 9982),

Gene: Cicada_17 Start: 11831, Stop: 12253, Start Num: 11

Candidate Starts for Cicada_17:

(Start: 11 @11831 has 15 MA's), (44, 11972), (57, 12023), (68, 12077), (69, 12086), (80, 12131), (90, 12176), (97, 12218),

Gene: Clap_11 Start: 7161, Stop: 7619, Start Num: 14

Candidate Starts for Clap_11:

(Start: 14 @7161 has 31 MA's), (24, 7209), (32, 7254), (45, 7329), (59, 7383), (72, 7464), (78, 7491), (85, 7533), (93, 7572),

Gene: Clark_12 Start: 7684, Stop: 8124, Start Num: 15

Candidate Starts for Clark_12:

(Start: 15 @7684 has 52 MA's), (Start: 21 @7708 has 11 MA's), (37, 7798), (39, 7804), (51, 7870), (59, 7903), (80, 8014), (83, 8029),

Gene: Cumberbatch_13 Start: 8312, Stop: 8746, Start Num: 16

Candidate Starts for Cumberbatch_13:

(1, 7988), (Start: 16 @8312 has 9 MA's), (38, 8423), (41, 8435), (60, 8522), (62, 8528), (80, 8621), (83, 8636), (92, 8684), (94, 8690),

Gene: Cynthia_11 Start: 7161, Stop: 7619, Start Num: 14

Candidate Starts for Cynthia_11:

(Start: 14 @7161 has 31 MA's), (24, 7209), (32, 7254), (45, 7329), (59, 7383), (72, 7464), (78, 7491), (85, 7533), (93, 7572),

Gene: Darolandstone_12 Start: 8646, Stop: 9074, Start Num: 21

Candidate Starts for Darolandstone_12:

(Start: 21 @8646 has 11 MA's), (41, 8751), (60, 8844), (62, 8850), (71, 8910), (76, 8928), (82, 8955), (89, 8988), (96, 9024), (99, 9042),

Gene: DelaGarza_17 Start: 10313, Stop: 10741, Start Num: 13

Candidate Starts for DelaGarza_17:

(Start: 13 @10313 has 2 MA's), (19, 10334), (25, 10373), (39, 10436), (43, 10469), (45, 10475), (50, 10496), (58, 10520), (67, 10565), (69, 10577), (70, 10586), (77, 10610), (82, 10631),

Gene: Denise_11 Start: 7170, Stop: 7631, Start Num: 14

Candidate Starts for Denise_11:

(Start: 14 @7170 has 31 MA's), (20, 7194), (23, 7206), (24, 7218), (32, 7263), (43, 7335), (59, 7395), (72, 7476), (78, 7506), (85, 7548), (93, 7587),

Gene: DobbysSock_11 Start: 7176, Stop: 7616, Start Num: 15

Candidate Starts for DobbysSock_11:

(Start: 15 @7176 has 52 MA's), (Start: 21 @7200 has 11 MA's), (37, 7290), (39, 7296), (48, 7347), (51, 7362), (59, 7395), (80, 7506), (83, 7521),

Gene: Dolores_12 Start: 7678, Stop: 8118, Start Num: 15

Candidate Starts for Dolores_12:

(Start: 15 @7678 has 52 MA's), (Start: 21 @7702 has 11 MA's), (37, 7792), (39, 7798), (51, 7864), (59, 7897), (80, 8008), (83, 8023),

Gene: Dorito_11 Start: 7181, Stop: 7621, Start Num: 15

Candidate Starts for Dorito_11:

(Start: 15 @7181 has 52 MA's), (Start: 21 @7205 has 11 MA's), (37, 7295), (39, 7301), (51, 7367), (59, 7400), (80, 7511), (83, 7526),

Gene: Dropshot_17 Start: 9521, Stop: 9964, Start Num: 10

Candidate Starts for Dropshot_17:

(Start: 10 @9521 has 11 MA's), (35, 9641), (41, 9662), (49, 9707), (62, 9749), (82, 9848),

Gene: Easley_12 Start: 7677, Stop: 8117, Start Num: 15

Candidate Starts for Easley_12:

(Start: 15 @7677 has 52 MA's), (20, 7698), (Start: 21 @7701 has 11 MA's), (37, 7791), (39, 7797), (48, 7848), (51, 7863), (59, 7896), (80, 8007), (83, 8022),

Gene: Eastland_13 Start: 8313, Stop: 8747, Start Num: 16

Candidate Starts for Eastland_13:

(1, 7989), (Start: 16 @8313 has 9 MA's), (38, 8424), (41, 8436), (60, 8523), (62, 8529), (80, 8622), (83, 8637), (92, 8685), (94, 8691),

Gene: Ebert_11 Start: 7161, Stop: 7619, Start Num: 14

Candidate Starts for Ebert_11:

(Start: 14 @7161 has 31 MA's), (24, 7209), (32, 7254), (45, 7329), (59, 7383), (72, 7464), (78, 7491), (85, 7533), (93, 7572),

Gene: EdnaMode_11 Start: 7161, Stop: 7622, Start Num: 14

Candidate Starts for EdnaMode_11:

(Start: 14 @7161 has 31 MA's), (20, 7185), (23, 7197), (24, 7209), (32, 7254), (59, 7386), (71, 7461), (78, 7494), (85, 7536), (93, 7575),

Gene: Eklok_13 Start: 8325, Stop: 8759, Start Num: 16

Candidate Starts for Eklok_13:

(1, 8001), (Start: 16 @8325 has 9 MA's), (38, 8436), (41, 8448), (60, 8535), (62, 8541), (69, 8589), (80, 8634), (83, 8649), (92, 8697), (94, 8703),

Gene: Eudoria_11 Start: 8035, Stop: 8475, Start Num: 15

Candidate Starts for Eudoria_11:

(Start: 15 @8035 has 52 MA's), (Start: 21 @8059 has 11 MA's), (51, 8221), (59, 8254), (80, 8365), (83, 8380),

Gene: Eviarto_11 Start: 8035, Stop: 8475, Start Num: 15

Candidate Starts for Eviarto_11:

(Start: 15 @8035 has 52 MA's), (Start: 21 @8059 has 11 MA's), (51, 8221), (59, 8254), (80, 8365), (83, 8380),

Gene: Eyre_11 Start: 7827, Stop: 8291, Start Num: 14

Candidate Starts for Eyre_11:

(Start: 14 @7827 has 31 MA's), (24, 7875), (59, 8052), (72, 8133), (75, 8145), (85, 8205), (87, 8214), (100, 8283),

Gene: Faith5x5_11 Start: 7132, Stop: 7590, Start Num: 14

Candidate Starts for Faith5x5_11:

(Start: 14 @7132 has 31 MA's), (20, 7156), (23, 7168), (24, 7180), (32, 7225), (43, 7294), (59, 7354), (60, 7360), (71, 7429), (72, 7435), (78, 7465), (85, 7507), (93, 7546),

Gene: Finkle_12 Start: 7640, Stop: 8095, Start Num: 12

Candidate Starts for Finkle_12:

(Start: 12 @7640 has 2 MA's), (19, 7664), (Start: 21 @7667 has 11 MA's), (33, 7742), (51, 7829), (52, 7832), (56, 7853),

Gene: FireCastle_15 Start: 11492, Stop: 11914, Start Num: 11

Candidate Starts for FireCastle_15:

(Start: 11 @11492 has 15 MA's), (40, 11606), (44, 11633), (57, 11684), (58, 11687), (60, 11693), (68, 11738), (69, 11747), (90, 11837), (97, 11879),

Gene: GMA1_12 Start: 7805, Stop: 8254, Start Num: 12

Candidate Starts for GMA1_12:

(Start: 12 @7805 has 2 MA's), (19, 7829), (33, 7907), (41, 7937), (56, 8021), (83, 8150), (93, 8201),

Gene: Galactica_15 Start: 13154, Stop: 13606, Start Num: 9

Candidate Starts for Galactica_15:

(Start: 9 @13154 has 2 MA's), (Start: 21 @13196 has 11 MA's), (29, 13238), (46, 13328), (49, 13340), (54, 13364), (58, 13376), (71, 13448), (80, 13481), (101, 13595),

Gene: GemG_11 Start: 7161, Stop: 7619, Start Num: 14

Candidate Starts for GemG_11:

(Start: 14 @7161 has 31 MA's), (24, 7209), (32, 7254), (45, 7329), (59, 7383), (72, 7464), (78, 7491), (85, 7533), (93, 7572),

Gene: Gingerbug_14 Start: 9495, Stop: 9923, Start Num: 12

Candidate Starts for Gingerbug_14:

(7, 9333), (Start: 12 @9495 has 2 MA's), (19, 9519), (Start: 21 @9528 has 11 MA's), (29, 9567), (43, 9651), (45, 9657), (49, 9672), (50, 9678), (58, 9702), (67, 9747), (69, 9759), (70, 9768), (77, 9792), (82, 9813),

Gene: Gizermo_11 Start: 7161, Stop: 7619, Start Num: 14

Candidate Starts for Gizermo_11:

(Start: 14 @7161 has 31 MA's), (24, 7209), (32, 7254), (45, 7329), (59, 7383), (72, 7464), (78, 7491), (85, 7533), (93, 7572),

Gene: Goodman_16 Start: 11743, Stop: 12165, Start Num: 11

Candidate Starts for Goodman_16:

(Start: 11 @11743 has 15 MA's), (40, 11857), (45, 11887), (57, 11935), (58, 11938), (60, 11944), (69, 11998), (80, 12043), (97, 12130),

Gene: Gudmit_12 Start: 7950, Stop: 8414, Start Num: 14

Candidate Starts for Gudmit_12:

(Start: 14 @7950 has 31 MA's), (20, 7974), (27, 8016), (32, 8043), (69, 8238), (72, 8256), (85, 8325), (87, 8334), (93, 8364), (100, 8403),

Gene: HFrancette_13 Start: 8321, Stop: 8758, Start Num: 16

Candidate Starts for HFrancette_13:

(1, 7997), (Start: 16 @8321 has 9 MA's), (29, 8384), (36, 8429), (38, 8435), (41, 8447), (60, 8534), (62, 8540), (69, 8588), (80, 8633), (83, 8648), (92, 8696), (94, 8702),

Gene: Haley23_11 Start: 7161, Stop: 7619, Start Num: 14

Candidate Starts for Haley23_11:

(Start: 14 @7161 has 31 MA's), (24, 7209), (32, 7254), (45, 7329), (59, 7383), (72, 7464), (78, 7491), (85, 7533), (93, 7572),

Gene: Herod_11 Start: 8035, Stop: 8475, Start Num: 15

Candidate Starts for Herod_11:

(Start: 15 @8035 has 52 MA's), (Start: 21 @8059 has 11 MA's), (51, 8221), (59, 8254), (80, 8365), (83, 8380),

Gene: Hiyaa_17 Start: 14197, Stop: 14646, Start Num: 10

Candidate Starts for Hiyaa_17:

(8, 14155), (Start: 9 @14188 has 2 MA's), (Start: 10 @14197 has 11 MA's), (20, 14233), (37, 14320), (45, 14365), (46, 14368), (54, 14404), (58, 14416), (73, 14494), (79, 14512), (81, 14527), (88, 14560), (95, 14593), (101, 14635),

Gene: Hortense_11 Start: 7377, Stop: 7817, Start Num: 15

Candidate Starts for Hortense_11:

(Start: 15 @7377 has 52 MA's), (Start: 21 @7401 has 11 MA's), (37, 7491), (39, 7497), (59, 7596), (70, 7668), (80, 7707), (83, 7722),

Gene: Howe_11 Start: 7377, Stop: 7817, Start Num: 15

Candidate Starts for Howe_11:

(Start: 15 @7377 has 52 MA's), (Start: 21 @7401 has 11 MA's), (37, 7491), (39, 7497), (59, 7596), (70, 7668), (80, 7707), (83, 7722),

Gene: Htur_15 Start: 11746, Stop: 12186, Start Num: 11

Candidate Starts for Htur_15:

(Start: 11 @11746 has 15 MA's), (20, 11776), (45, 11908), (58, 11959), (65, 11998), (66, 12001), (68, 12010), (79, 12055), (97, 12151),

Gene: Hugley_11 Start: 8035, Stop: 8475, Start Num: 15

Candidate Starts for Hugley_11:

(Start: 15 @8035 has 52 MA's), (Start: 21 @8059 has 11 MA's), (51, 8221), (59, 8254), (80, 8365), (83, 8380),

Gene: Hyzer_11 Start: 8036, Stop: 8476, Start Num: 15

Candidate Starts for Hyzer_11:

(Start: 15 @8036 has 52 MA's), (Start: 21 @8060 has 11 MA's), (37, 8150), (51, 8222), (59, 8255), (80, 8366), (83, 8381),

Gene: Ididsumtinwong_12 Start: 8212, Stop: 8625, Start Num: 21

Candidate Starts for Ididsumtinwong_12:

(Start: 21 @8212 has 11 MA's), (41, 8311), (43, 8335), (89, 8548),

Gene: Ignacio_13 Start: 8321, Stop: 8758, Start Num: 16

Candidate Starts for Ignacio_13:

(1, 7997), (Start: 16 @8321 has 9 MA's), (29, 8384), (36, 8429), (38, 8435), (41, 8447), (60, 8534), (62, 8540), (69, 8588), (80, 8633), (83, 8648), (92, 8696), (94, 8702),

Gene: IndiRoo_15 Start: 9770, Stop: 10210, Start Num: 11

Candidate Starts for IndiRoo_15:

(Start: 11 @9770 has 15 MA's), (17, 9788), (30, 9845), (31, 9863), (42, 9917), (68, 10034), (80, 10088), (86, 10118), (97, 10175),

Gene: JCole_11 Start: 7161, Stop: 7619, Start Num: 14

Candidate Starts for JCole_11:

(Start: 14 @7161 has 31 MA's), (24, 7209), (32, 7254), (45, 7329), (59, 7383), (72, 7464), (78, 7491), (85, 7533), (93, 7572),

Gene: Jace_10 Start: 7713, Stop: 8150, Start Num: 15

Candidate Starts for Jace_10:

(3, 7398), (Start: 15 @7713 has 52 MA's), (32, 7797), (39, 7830), (59, 7929), (77, 8025), (79, 8028), (84, 8064),

Gene: Jera_16 Start: 10824, Stop: 11264, Start Num: 11

Candidate Starts for Jera_16:

(Start: 11 @10824 has 15 MA's), (20, 10854), (28, 10896), (45, 10986), (57, 11034), (58, 11037), (65, 11076), (66, 11079), (68, 11088), (79, 11133), (81, 11148), (97, 11229),

Gene: Johann_16 Start: 11743, Stop: 12165, Start Num: 11

Candidate Starts for Johann_16:

(Start: 11 @11743 has 15 MA's), (40, 11857), (45, 11887), (57, 11935), (58, 11938), (60, 11944), (69, 11998), (80, 12043), (97, 12130),

Gene: Keanu_17 Start: 14234, Stop: 14686, Start Num: 9

Candidate Starts for Keanu_17:

(Start: 9 @14234 has 2 MA's), (20, 14273), (26, 14312), (37, 14360), (46, 14408), (53, 14435), (54, 14444), (69, 14516), (88, 14600), (95, 14633), (97, 14648),

Gene: Kita_11 Start: 8035, Stop: 8475, Start Num: 15

Candidate Starts for Kita_11:

(Start: 15 @8035 has 52 MA's), (Start: 21 @8059 has 11 MA's), (51, 8221), (59, 8254), (80, 8365), (83, 8380),

Gene: Lamberg_11 Start: 7161, Stop: 7622, Start Num: 14

Candidate Starts for Lamberg_11:

(Start: 14 @7161 has 31 MA's), (20, 7185), (23, 7197), (24, 7209), (32, 7254), (59, 7386), (71, 7461), (78, 7494), (85, 7536), (93, 7575),

Gene: Lesiram_17 Start: 10289, Stop: 10717, Start Num: 13

Candidate Starts for Lesiram_17:

(Start: 13 @10289 has 2 MA's), (19, 10310), (25, 10349), (39, 10412), (43, 10445), (45, 10451), (49, 10466), (50, 10472), (58, 10496), (67, 10541), (69, 10553), (70, 10562), (77, 10586), (82, 10607),

Gene: LordFarquaad_11 Start: 7161, Stop: 7622, Start Num: 14

Candidate Starts for LordFarquaad_11:

(Start: 14 @7161 has 31 MA's), (20, 7185), (23, 7197), (24, 7209), (32, 7254), (59, 7386), (60, 7392), (71, 7461), (78, 7494), (85, 7536), (93, 7575),

Gene: Lton_11 Start: 7186, Stop: 7647, Start Num: 14

Candidate Starts for Lton_11:

(Start: 14 @7186 has 31 MA's), (20, 7210), (23, 7222), (24, 7234), (32, 7279), (43, 7351), (59, 7411), (72, 7492), (78, 7522), (85, 7564), (93, 7603),

Gene: Madeline_11 Start: 8036, Stop: 8476, Start Num: 15

Candidate Starts for Madeline_11:

(Start: 15 @8036 has 52 MA's), (Start: 21 @8060 has 11 MA's), (37, 8150), (51, 8222), (59, 8255), (80, 8366), (83, 8381),

Gene: Manasvini_11 Start: 8035, Stop: 8475, Start Num: 15

Candidate Starts for Manasvini_11:

(Start: 15 @8035 has 52 MA's), (Start: 21 @8059 has 11 MA's), (51, 8221), (59, 8254), (80, 8365), (83, 8380),

Gene: Maridalia_11 Start: 8035, Stop: 8475, Start Num: 15

Candidate Starts for Maridalia_11:

(Start: 15 @8035 has 52 MA's), (Start: 21 @8059 has 11 MA's), (51, 8221), (59, 8254), (80, 8365), (83, 8380),

Gene: Matteo_11 Start: 7161, Stop: 7622, Start Num: 14

Candidate Starts for Matteo_11:

(Start: 14 @7161 has 31 MA's), (20, 7185), (23, 7197), (24, 7209), (32, 7254), (59, 7386), (60, 7392), (71, 7461), (78, 7494), (85, 7536), (93, 7575),

Gene: Mbo4_11 Start: 7841, Stop: 8311, Start Num: 12

Candidate Starts for Mbo4_11:

(Start: 12 @7841 has 2 MA's), (41, 7985), (43, 8009), (85, 8219), (92, 8255), (93, 8258),

Gene: Mcklovin_12 Start: 8494, Stop: 8934, Start Num: 15

Candidate Starts for Mcklovin_12:

(Start: 15 @8494 has 52 MA's), (Start: 21 @8518 has 11 MA's), (37, 8608), (39, 8614), (51, 8680), (59, 8713), (80, 8824), (83, 8839),

Gene: MenE_18 Start: 9789, Stop: 10232, Start Num: 10

Candidate Starts for MenE_18:

(Start: 10 @9789 has 11 MA's), (35, 9909), (41, 9930), (49, 9975), (62, 10017), (82, 10116),

Gene: MichaelScott_12 Start: 7677, Stop: 8117, Start Num: 15

Candidate Starts for MichaelScott_12:

(Start: 15 @7677 has 52 MA's), (20, 7698), (Start: 21 @7701 has 11 MA's), (37, 7791), (39, 7797), (51, 7863), (59, 7896), (80, 8007), (83, 8022),

Gene: Milani_16 Start: 10421, Stop: 10861, Start Num: 11

Candidate Starts for Milani_16:

(Start: 11 @10421 has 15 MA's), (18, 10442), (23, 10463), (31, 10514), (42, 10568), (58, 10634), (68, 10685), (80, 10739), (86, 10769), (97, 10826),

Gene: Mocha12_11 Start: 7161, Stop: 7619, Start Num: 14

Candidate Starts for Mocha12_11:

(Start: 14 @7161 has 31 MA's), (24, 7209), (32, 7254), (45, 7329), (59, 7383), (72, 7464), (78, 7491), (85, 7533), (93, 7572),

Gene: Mojarita_12 Start: 8489, Stop: 8917, Start Num: 21

Candidate Starts for Mojarita_12:

(Start: 21 @8489 has 11 MA's), (41, 8594), (43, 8618), (71, 8753), (99, 8885),

Gene: Moosehead_11 Start: 7129, Stop: 7587, Start Num: 14

Candidate Starts for Moosehead_11:

(Start: 14 @7129 has 31 MA's), (20, 7153), (23, 7165), (24, 7177), (32, 7222), (43, 7291), (59, 7351), (71, 7426), (72, 7432), (78, 7462), (85, 7504), (93, 7543),

Gene: Neobush_11 Start: 8035, Stop: 8475, Start Num: 15

Candidate Starts for Neobush_11:

(Start: 15 @8035 has 52 MA's), (Start: 21 @8059 has 11 MA's), (51, 8221), (59, 8254), (80, 8365), (83, 8380),

Gene: Nettuno_11 Start: 7161, Stop: 7622, Start Num: 14

Candidate Starts for Nettuno_11:

(Start: 14 @7161 has 31 MA's), (20, 7185), (23, 7197), (24, 7209), (32, 7254), (59, 7386), (71, 7461), (78, 7494), (85, 7536), (93, 7575),

Gene: Nymphadora_11 Start: 8035, Stop: 8475, Start Num: 15

Candidate Starts for Nymphadora_11:

(Start: 15 @8035 has 52 MA's), (Start: 21 @8059 has 11 MA's), (51, 8221), (59, 8254), (80, 8365), (83, 8380),

Gene: Ohgeesy_11 Start: 7383, Stop: 7823, Start Num: 15

Candidate Starts for Ohgeesy_11:

(5, 7107), (Start: 15 @7383 has 52 MA's), (Start: 21 @7407 has 11 MA's), (37, 7497), (51, 7569), (59, 7602), (61, 7611), (80, 7713), (83, 7728),

Gene: OneDirection_11 Start: 7130, Stop: 7591, Start Num: 14

Candidate Starts for OneDirection_11:

(Start: 14 @7130 has 31 MA's), (20, 7154), (23, 7166), (24, 7178), (32, 7223), (43, 7295), (59, 7355), (71, 7430), (72, 7436), (78, 7466), (85, 7508), (93, 7547),

Gene: Oregano_12 Start: 7348, Stop: 7788, Start Num: 15

Candidate Starts for Oregano_12:

(Start: 15 @7348 has 52 MA's), (Start: 21 @7372 has 11 MA's), (37, 7462), (39, 7468), (51, 7534), (59, 7567), (80, 7678), (83, 7693),

Gene: PantheRoc_11 Start: 7383, Stop: 7823, Start Num: 15

Candidate Starts for PantheRoc_11:

(5, 7107), (Start: 15 @7383 has 52 MA's), (Start: 21 @7407 has 11 MA's), (37, 7497), (51, 7569), (59, 7602), (80, 7713), (83, 7728),

Gene: PapayaSalad_12 Start: 8184, Stop: 8594, Start Num: 21
Candidate Starts for PapayaSalad_12:
(Start: 21 @8184 has 11 MA's), (41, 8283), (43, 8307), (47, 8319), (89, 8520),

Gene: Pepperoni_11 Start: 7480, Stop: 7941, Start Num: 14
Candidate Starts for Pepperoni_11:
(Start: 14 @7480 has 31 MA's), (20, 7504), (23, 7516), (24, 7528), (26, 7543), (32, 7573), (43, 7645),
(59, 7705), (71, 7780), (72, 7786), (78, 7816), (85, 7858), (93, 7897),

Gene: PermaG_16 Start: 11806, Stop: 12228, Start Num: 11
Candidate Starts for PermaG_16:
(Start: 11 @11806 has 15 MA's), (40, 11920), (44, 11947), (58, 12001), (60, 12007), (63, 12034), (69,
12061), (80, 12106), (97, 12193),

Gene: Phonegingi_17 Start: 9521, Stop: 9964, Start Num: 10
Candidate Starts for Phonegingi_17:
(Start: 10 @9521 has 11 MA's), (35, 9641), (41, 9662), (49, 9707), (62, 9749), (82, 9848),

Gene: PhriskyACE_11 Start: 7181, Stop: 7621, Start Num: 15
Candidate Starts for PhriskyACE_11:
(Start: 15 @7181 has 52 MA's), (Start: 21 @7205 has 11 MA's), (37, 7295), (39, 7301), (51, 7367),
(59, 7400), (80, 7511), (83, 7526),

Gene: Picard_12 Start: 8489, Stop: 8917, Start Num: 21
Candidate Starts for Picard_12:
(Start: 21 @8489 has 11 MA's), (41, 8594), (43, 8618), (71, 8753), (99, 8885),

Gene: Piccadilly_13 Start: 8312, Stop: 8746, Start Num: 16
Candidate Starts for Piccadilly_13:
(1, 7988), (Start: 16 @8312 has 9 MA's), (38, 8423), (41, 8435), (60, 8522), (62, 8528), (80, 8621), (83,
8636), (92, 8684), (94, 8690),

Gene: Pickett_11 Start: 7161, Stop: 7622, Start Num: 14
Candidate Starts for Pickett_11:
(Start: 14 @7161 has 31 MA's), (20, 7185), (23, 7197), (24, 7209), (32, 7254), (59, 7386), (60, 7392),
(71, 7461), (78, 7494), (85, 7536), (93, 7575),

Gene: Pickles13_17 Start: 9691, Stop: 10134, Start Num: 10
Candidate Starts for Pickles13_17:
(Start: 10 @9691 has 11 MA's), (22, 9733), (41, 9832), (49, 9877), (62, 9919), (82, 10018),

Gene: Polly_11 Start: 8035, Stop: 8475, Start Num: 15
Candidate Starts for Polly_11:
(Start: 15 @8035 has 52 MA's), (Start: 21 @8059 has 11 MA's), (51, 8221), (59, 8254), (80, 8365),
(83, 8380),

Gene: Powerball_11 Start: 7182, Stop: 7622, Start Num: 15
Candidate Starts for Powerball_11:
(Start: 15 @7182 has 52 MA's), (Start: 21 @7206 has 11 MA's), (37, 7296), (39, 7302), (51, 7368),
(59, 7401), (80, 7512), (83, 7527),

Gene: REQ3_45 Start: 24570, Stop: 25019, Start Num: 12

Candidate Starts for REQ3_45:

(Start: 12 @24570 has 2 MA's), (25, 24633), (34, 24684), (37, 24693), (41, 24708), (43, 24732), (44, 24735), (59, 24792), (60, 24798), (67, 24843), (91, 24963), (98, 25002),

Gene: Raleigh_12 Start: 8614, Stop: 9027, Start Num: 21

Candidate Starts for Raleigh_12:

(4, 8278), (6, 8386), (Start: 21 @8614 has 11 MA's), (41, 8713), (43, 8737), (60, 8806), (76, 8890), (79, 8896), (89, 8950), (99, 9004),

Gene: Rasovi_15 Start: 11746, Stop: 12186, Start Num: 11

Candidate Starts for Rasovi_15:

(Start: 11 @11746 has 15 MA's), (20, 11776), (45, 11908), (58, 11959), (65, 11998), (66, 12001), (68, 12010), (79, 12055), (97, 12151),

Gene: RavenCo17_11 Start: 8008, Stop: 8472, Start Num: 14

Candidate Starts for RavenCo17_11:

(Start: 14 @8008 has 31 MA's), (24, 8056), (59, 8233), (67, 8284), (72, 8314), (75, 8326), (85, 8386), (100, 8464),

Gene: SBlackberry_15 Start: 11583, Stop: 12023, Start Num: 11

Candidate Starts for SBlackberry_15:

(Start: 11 @11583 has 15 MA's), (20, 11613), (28, 11655), (45, 11745), (57, 11793), (58, 11796), (65, 11835), (66, 11838), (68, 11847), (79, 11892), (81, 11907), (97, 11988),

Gene: SV1_12 Start: 8384, Stop: 8800, Start Num: 21

Candidate Starts for SV1_12:

(Start: 21 @8384 has 11 MA's), (41, 8483), (76, 8660), (89, 8720), (97, 8768),

Gene: Sahara_11 Start: 7177, Stop: 7632, Start Num: 14

Candidate Starts for Sahara_11:

(Start: 14 @7177 has 31 MA's), (20, 7201), (23, 7213), (24, 7225), (32, 7270), (59, 7399), (72, 7480), (78, 7507), (85, 7549), (93, 7588),

Gene: Samman98_12 Start: 7678, Stop: 8118, Start Num: 15

Candidate Starts for Samman98_12:

(Start: 15 @7678 has 52 MA's), (Start: 21 @7702 has 11 MA's), (37, 7792), (39, 7798), (51, 7864), (59, 7897), (80, 8008), (83, 8023),

Gene: Savage_11 Start: 7161, Stop: 7619, Start Num: 14

Candidate Starts for Savage_11:

(Start: 14 @7161 has 31 MA's), (24, 7209), (32, 7254), (45, 7329), (59, 7383), (72, 7464), (78, 7491), (85, 7533), (93, 7572),

Gene: Sekhmet_12 Start: 7677, Stop: 8117, Start Num: 15

Candidate Starts for Sekhmet_12:

(Start: 15 @7677 has 52 MA's), (20, 7698), (Start: 21 @7701 has 11 MA's), (37, 7791), (39, 7797), (48, 7848), (51, 7863), (59, 7896), (74, 7980), (80, 8007), (83, 8022),

Gene: Shlim410_11 Start: 7377, Stop: 7817, Start Num: 15

Candidate Starts for Shlim410_11:

(Start: 15 @7377 has 52 MA's), (Start: 21 @7401 has 11 MA's), (37, 7491), (39, 7497), (59, 7596), (70, 7668), (80, 7707), (83, 7722),

Gene: Sidious_11 Start: 7378, Stop: 7818, Start Num: 15

Candidate Starts for Sidious_11:

(Start: 15 @7378 has 52 MA's), (Start: 21 @7402 has 11 MA's), (37, 7492), (59, 7597), (80, 7708), (83, 7723),

Gene: SoJo_12 Start: 8406, Stop: 8822, Start Num: 21

Candidate Starts for SoJo_12:

(Start: 21 @8406 has 11 MA's), (41, 8505), (60, 8598), (89, 8742), (96, 8778), (99, 8796),

Gene: SoilAssassin_11 Start: 7161, Stop: 7622, Start Num: 14

Candidate Starts for SoilAssassin_11:

(Start: 14 @7161 has 31 MA's), (20, 7185), (23, 7197), (24, 7209), (32, 7254), (59, 7386), (60, 7392), (71, 7461), (78, 7494), (85, 7536), (93, 7575),

Gene: Spocter_17 Start: 14185, Stop: 14634, Start Num: 10

Candidate Starts for Spocter_17:

(8, 14143), (Start: 9 @14176 has 2 MA's), (Start: 10 @14185 has 11 MA's), (20, 14221), (Start: 21 @14224 has 11 MA's), (37, 14308), (45, 14353), (46, 14356), (54, 14392), (58, 14404), (73, 14482), (79, 14500), (81, 14515), (88, 14548), (95, 14581), (101, 14623),

Gene: Sproutie_11 Start: 7161, Stop: 7619, Start Num: 14

Candidate Starts for Sproutie_11:

(Start: 14 @7161 has 31 MA's), (24, 7209), (32, 7254), (45, 7329), (59, 7383), (72, 7464), (78, 7491), (85, 7533), (93, 7572),

Gene: Sucha_12 Start: 8759, Stop: 9199, Start Num: 11

Candidate Starts for Sucha_12:

(Start: 11 @8759 has 15 MA's), (Start: 16 @8771 has 9 MA's), (20, 8789), (30, 8834), (31, 8852), (42, 8906), (58, 8972), (68, 9023), (80, 9077), (86, 9107), (97, 9164),

Gene: Suerte_11 Start: 7176, Stop: 7616, Start Num: 15

Candidate Starts for Suerte_11:

(Start: 15 @7176 has 52 MA's), (Start: 21 @7200 has 11 MA's), (37, 7290), (39, 7296), (48, 7347), (51, 7362), (59, 7395), (80, 7506), (83, 7521),

Gene: Suscepit_11 Start: 8035, Stop: 8475, Start Num: 15

Candidate Starts for Suscepit_11:

(Start: 15 @8035 has 52 MA's), (Start: 21 @8059 has 11 MA's), (51, 8221), (59, 8254), (80, 8365), (83, 8380),

Gene: Tayonia_11 Start: 8035, Stop: 8475, Start Num: 15

Candidate Starts for Tayonia_11:

(Start: 15 @8035 has 52 MA's), (Start: 21 @8059 has 11 MA's), (51, 8221), (59, 8254), (80, 8365), (83, 8380),

Gene: Teng_18 Start: 10310, Stop: 10738, Start Num: 13

Candidate Starts for Teng_18:

(Start: 13 @10310 has 2 MA's), (19, 10331), (25, 10370), (39, 10433), (43, 10466), (45, 10472), (49, 10487), (50, 10493), (58, 10517), (67, 10562), (69, 10574), (70, 10583), (77, 10607), (82, 10628),

Gene: ThankyouJordi_11 Start: 8033, Stop: 8473, Start Num: 15

Candidate Starts for ThankyouJordi_11:

(Start: 15 @8033 has 52 MA's), (Start: 21 @8057 has 11 MA's), (37, 8147), (59, 8252), (80, 8363), (83, 8378),

Gene: Thimann_12 Start: 7678, Stop: 8118, Start Num: 15

Candidate Starts for Thimann_12:

(Start: 15 @7678 has 52 MA's), (20, 7699), (Start: 21 @7702 has 11 MA's), (37, 7792), (39, 7798), (51, 7864), (59, 7897), (80, 8008), (83, 8023),

Gene: TimTam_11 Start: 8035, Stop: 8475, Start Num: 15

Candidate Starts for TimTam_11:

(Start: 15 @8035 has 52 MA's), (Start: 21 @8059 has 11 MA's), (51, 8221), (59, 8254), (80, 8365), (83, 8380),

Gene: TinyDot_13 Start: 8300, Stop: 8752, Start Num: 16

Candidate Starts for TinyDot_13:

(Start: 16 @8300 has 9 MA's), (55, 8513), (71, 8600), (80, 8636),

Gene: ToastyFinz_11 Start: 8267, Stop: 8689, Start Num: 21

Candidate Starts for ToastyFinz_11:

(Start: 21 @8267 has 11 MA's), (41, 8366), (43, 8390), (60, 8459), (62, 8465), (64, 8489), (71, 8525), (89, 8603), (96, 8639), (99, 8657),

Gene: Trumpet_11 Start: 8035, Stop: 8475, Start Num: 15

Candidate Starts for Trumpet_11:

(Start: 15 @8035 has 52 MA's), (Start: 21 @8059 has 11 MA's), (51, 8221), (59, 8254), (80, 8365), (83, 8380),

Gene: TuertoX_11 Start: 7161, Stop: 7619, Start Num: 14

Candidate Starts for TuertoX_11:

(Start: 14 @7161 has 31 MA's), (24, 7209), (32, 7254), (45, 7329), (59, 7383), (72, 7464), (78, 7491), (85, 7533), (93, 7572),

Gene: TurboVicky_15 Start: 11577, Stop: 12017, Start Num: 11

Candidate Starts for TurboVicky_15:

(Start: 11 @11577 has 15 MA's), (20, 11607), (28, 11649), (45, 11739), (57, 11787), (58, 11790), (65, 11829), (66, 11832), (68, 11841), (79, 11886), (81, 11901), (97, 11982),

Gene: Twinkle_11 Start: 7377, Stop: 7817, Start Num: 15

Candidate Starts for Twinkle_11:

(Start: 15 @7377 has 52 MA's), (Start: 21 @7401 has 11 MA's), (37, 7491), (39, 7497), (59, 7596), (70, 7668), (80, 7707), (83, 7722),

Gene: Typher_17 Start: 11711, Stop: 12151, Start Num: 11

Candidate Starts for Typher_17:

(Start: 11 @11711 has 15 MA's), (20, 11741), (28, 11783), (45, 11873), (57, 11921), (58, 11924), (65, 11963), (66, 11966), (68, 11975), (79, 12020), (81, 12035), (97, 12116),

Gene: Vasanti_11 Start: 7180, Stop: 7641, Start Num: 14

Candidate Starts for Vasanti_11:

(Start: 14 @7180 has 31 MA's), (20, 7204), (23, 7216), (24, 7228), (32, 7273), (59, 7405), (71, 7480), (72, 7486), (78, 7513), (85, 7555), (93, 7594),

Gene: Vondra_13 Start: 8321, Stop: 8755, Start Num: 16

Candidate Starts for Vondra_13:

(1, 7997), (Start: 16 @8321 has 9 MA's), (29, 8384), (38, 8432), (41, 8444), (60, 8531), (62, 8537), (69, 8585), (80, 8630), (83, 8645), (92, 8693), (94, 8699),

Gene: Warren_18 Start: 9718, Stop: 10161, Start Num: 10

Candidate Starts for Warren_18:

(Start: 10 @9718 has 11 MA's), (41, 9859), (49, 9904), (62, 9946), (82, 10045),

Gene: WelcomeAyanna_11 Start: 8033, Stop: 8473, Start Num: 15

Candidate Starts for WelcomeAyanna_11:

(Start: 15 @8033 has 52 MA's), (Start: 21 @8057 has 11 MA's), (37, 8147), (59, 8252), (80, 8363), (83, 8378),

Gene: Whiteclaw_11 Start: 7161, Stop: 7619, Start Num: 14

Candidate Starts for Whiteclaw_11:

(Start: 14 @7161 has 31 MA's), (24, 7209), (32, 7254), (45, 7329), (59, 7383), (72, 7464), (78, 7491), (85, 7533), (93, 7572),

Gene: WinkNick_12 Start: 7678, Stop: 8118, Start Num: 15

Candidate Starts for WinkNick_12:

(Start: 15 @7678 has 52 MA's), (Start: 21 @7702 has 11 MA's), (37, 7792), (39, 7798), (51, 7864), (59, 7897), (80, 8008), (83, 8023),

Gene: Yeet412_11 Start: 7161, Stop: 7622, Start Num: 14

Candidate Starts for Yeet412_11:

(Start: 14 @7161 has 31 MA's), (20, 7185), (23, 7197), (24, 7209), (32, 7254), (59, 7386), (60, 7392), (71, 7461), (78, 7494), (85, 7536), (93, 7575),

Gene: Yeezy_11 Start: 7380, Stop: 7820, Start Num: 15

Candidate Starts for Yeezy_11:

(5, 7104), (Start: 15 @7380 has 52 MA's), (Start: 21 @7404 has 11 MA's), (37, 7494), (51, 7566), (59, 7599), (80, 7710), (83, 7725),

Gene: Zameen_11 Start: 8035, Stop: 8475, Start Num: 15

Candidate Starts for Zameen_11:

(Start: 15 @8035 has 52 MA's), (Start: 21 @8059 has 11 MA's), (51, 8221), (59, 8254), (80, 8365), (83, 8380),

Gene: Zanella_15 Start: 11580, Stop: 12020, Start Num: 11

Candidate Starts for Zanella_15:

(Start: 11 @11580 has 15 MA's), (20, 11610), (28, 11652), (45, 11742), (57, 11790), (58, 11793), (65, 11832), (66, 11835), (68, 11844), (79, 11889), (81, 11904), (97, 11985),

Gene: Zirinka_11 Start: 8035, Stop: 8475, Start Num: 15

Candidate Starts for Zirinka_11:

(Start: 15 @8035 has 52 MA's), (Start: 21 @8059 has 11 MA's), (37, 8149), (39, 8155), (51, 8221), (59, 8254), (80, 8365), (83, 8380),